



CLARKSON OSBORN

T O O L S L T D.

HSS and Carbide Metal Cutting Tools Catalogue
Catalogue D'Outils de coupl en métal de HSS et de Carbure

www.clarkson-osborn.com



CLARKSON OSBORN

T O O L S L T D.

For over 50 years, Clarkson-Osborn has been a leading provider of cutting tools in Canada. As a trusted company, our mission is to deliver the best solutions for your cutting tool needs. Clarkson-Osborn's technical team fully addresses the needs of our customers by providing high quality products, a vast inventory for prompt delivery, and superior service. With our solutions-focused approach, we are here to help you select the right cutting tools for your project.

Clarkson-Osborn offers a wide range of cutting tools made from High-Speed Steel, Cobalt, and Solid Carbide. A complete focus on customer needs throughout the country allows us to offer you high quality products, excellent service, and excellent stock availability.

We also manufacture cutting tools for specific applications where we do not have a standard product in our offering to meet your customer's needs. Our team will be pleased to quote your requirements for cutting tools that you cannot find listed here, just ask and we will be happy to work with you.

Our products are only sold through local, independent distributors who specialize in a wide variety of quality products for industry. It's a distribution network we are committed to and proud of.

Depuis plus de 50 ans, Clarkson-Osborn est l'un des principaux fournisseurs d'outils de coupe au Canada. En tant qu'entreprise de confiance, notre mission est de fournir les meilleures solutions pour vos besoins en outils de coupe. L'équipe technique de Clarkson-Osborn répond entièrement aux besoins de nos clients en fournissant des produits de haute qualité, un vaste inventaire pour une livraison rapide et un service supérieur. Grâce à notre approche axée sur les solutions, nous sommes là pour vous aider à sélectionner les bons outils de coupe pour votre projet.

Clarkson-Osborn propose une large gamme d'outils de coupe en acier rapide, en cobalt et en carbure monobloc. Une focalisation complète sur les besoins des clients dans tout le pays nous permet de vous offrir des produits de haute qualité, un excellent service et une excellente disponibilité des stocks.

Nous fabriquons également des outils de coupe pour des applications spécifiques où nous n'avons pas de produit standard dans notre offre pour répondre aux besoins de vos clients. Notre équipe se fera un plaisir de vous fournir un devis pour vos besoins en outils de coupe que vous ne trouvez pas ici, il vous suffit de demander et nous serons heureux de travailler avec vous.

Nos produits ne sont vendus que par des distributeurs locaux indépendants spécialisés dans une grande variété de produits de qualité pour l'industrie. C'est un réseau de distribution dans lequel nous nous engageons et dont nous sommes fiers.

Contact Us Today / Contactez-nous aujourd'hui

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Drills
Forets



Solid Carbide Jobber Drills - SC01

Standard Length

- Premium Submicron Grain Carbide
- Bright Finish (TiN and TiAlN coatings available)
- 118° Four Facet Point
- Regular Spiral
- Precision ground carbide drills are designed for high feed rate and good chip evacuation while providing excellent wear resistance and hardness
- Designed for drilling Cast Iron, Aluminum, Copper, Plastics, Bronze and other similar materials

Longeur Standard

- Carburé de grain submicronique de qualité supérieure
- Finition brillante (revêtement TiN et TiAlN disponible)
- 118 ° Point à quatre facettes
- Spirale régulière
- Les forets de précision en carbure rectifié sont conçus pour une vitesse d'avance élevée et une bonne évacuation des copeaux tout en offrant une excellente résistance à l'usure et une grande dureté
- Est conçu pour percer la fonte, l'aluminium, le cuivre, les plastiques, le bronze et d'autres matériaux similaires

FRAC	NO	DEC	FLT LG FR	LENGTH LONGEUR	BRIGHT CODE
	80	0.0135	3/16	1-1/4	SC01780
	79	0.0145	3/16	1-1/4	SC01779
1/64		0.0156	3/16	1-1/4	SC01015
	78	0.0160	3/16	1-1/4	SC01778
	77	0.0180	3/16	1-1/4	SC01777
	76	0.0200	1/4	1-1/4	SC01776
	75	0.0210	1/4	1-1/4	SC01775
	74	0.0225	1/4	1-1/4	SC01774
	73	0.0240	1/4	1-1/4	SC01773
	72	0.0250	5/16	1-1/4	SC01772
	71	0.0260	5/16	1-1/4	SC01771
	70	0.0280	5/16	1-1/4	SC01770
	69	0.0292	5/16	1-1/4	SC01769
	68	0.0310	5/16	1-1/4	SC01768
1/32		0.0312	5/16	1-1/4	SC01031
	67	0.0320	5/16	1-1/4	SC01767
	66	0.0330	5/16	1-1/4	SC01766
	65	0.0350	5/8	1-3/8	SC01765
	64	0.0360	5/8	1-3/8	SC01764
	63	0.0370	5/8	1-3/8	SC01763
	62	0.0380	5/8	1-3/8	SC01762
	61	0.0390	5/8	1-3/8	SC01761
	60	0.0400	3/4	1-1/2	SC01760
	59	0.0410	3/4	1-1/2	SC01759
	58	0.0420	3/4	1-1/2	SC01758
	57	0.0430	3/4	1-1/2	SC01757
	56	0.0465	3/4	1-1/2	SC01756
3/64		0.0469	3/4	1-1/2	SC01046
	55	0.0520	3/4	1-1/2	SC01755
	54	0.0550	3/4	1-1/2	SC01754

FRAC	NO	DEC	FLT LG FR	LENGTH LONGEUR	BRIGHT CODE
	53	0.0595	3/4	1-1/2	SC01753
1/16		0.0625	3/4	1-1/2	SC01062
	52	0.0635	3/4	1-1/2	SC01752
	51	0.0670	3/4	1-1/2	SC01751
	50	0.0700	7/8	1-3/4	SC01750
	49	0.0730	7/8	1-3/4	SC01749
	48	0.0760	7/8	1-3/4	SC01748
5/64		0.0781	7/8	1-3/4	SC01078
	47	0.0785	7/8	1-3/4	SC01747
	46	0.0810	7/8	1-3/4	SC01746
	45	0.0820	7/8	1-3/4	SC01745
	44	0.0860	1"	2"	SC01744
	43	0.0890	1"	2"	SC01743
	42	0.0935	1"	2"	SC01742
3/32		0.0938	1"	2"	SC01093
	41	0.0960	1"	2"	SC01741
	40	0.0980	1"	2"	SC01740
	39	0.0995	1-1/4	2-1/4	SC01739
	38	0.1015	1-1/4	2-1/4	SC01738
	37	0.1040	1-1/4	2-1/4	SC01737
	36	0.1065	1-1/4	2-1/4	SC01736
7/64		0.1094	1-1/4	2-1/4	SC01109
	35	0.1100	1-1/4	2-1/4	SC01735
	34	0.1110	1-1/4	2-1/4	SC01734
	33	0.1130	1-1/4	2-1/4	SC01733
	32	0.1160	1-1/4	2-1/4	SC01732
	32	0.1200	1-1/4	2-1/4	SC01731
1/8		0.1250	1-1/4	2-1/4	SC01125
	30	0.1285	1-1/4	2-1/4	SC01730
	29	0.1360	1-3/8	2-1/2	SC01729

Solid Carbide Jobber Drills - SC01



FRAC	NO	DEC	FLT LG FR	LENGTH LONGEUR	BRIGHT CODE
	28	0.1405	1-3/8	2-1/2	SC01728
9/64		0.1406	1-3/8	2-1/2	SC01140
	27	0.1440	1-3/8	2-1/2	SC01727
	26	0.1470	1-3/8	2-1/2	SC01726
	25	0.1495	1-3/8	2-1/2	SC01725
	24	0.1520	1-3/8	2-1/2	SC01724
	23	0.1540	1-3/8	2-1/2	SC01723
5/32		0.1562	1-3/8	2-1/2	SC01156
	22	0.1570	1-3/8	2-1/2	SC01722
	21	0.1590	1-3/8	2-1/2	SC01721
	20	0.1610	1-3/8	2-1/2	SC01720
	19	0.1660	1-5/8	2-3/4	SC01719
	18	0.1695	1-5/8	2-3/4	SC01718
11/64		0.1719	1-5/8	2-3/4	SC01171
	17	0.1730	1-5/8	2-3/4	SC01717
	16	0.1770	1-5/8	2-3/4	SC01716
	15	0.1800	1-5/8	2-3/4	SC01715
	14	0.1820	1-5/8	2-3/4	SC01714
	13	0.1850	1-5/8	2-3/4	SC01713
3/16		0.1875	1-5/8	2-3/4	SC01187
	12	0.1890	1-5/8	2-3/4	SC01712
	11	0.1910	1-5/8	2-3/4	SC01711
	10	0.1935	1-5/8	2-3/4	SC01710
	9	0.1960	1-3/4	3"	SC01709
	8	0.1990	1-3/4	3"	SC01708
	7	0.2010	1-3/4	3"	SC01707
13/64		0.2031	1-3/4	3"	SC01203
	6	0.2040	1-3/4	3"	SC01706
	5	0.2055	1-3/4	3"	SC01705
	4	0.2090	1-3/4	3"	SC01704
	3	0.2130	1-3/4	3"	SC01703
7/32		0.2188	1-3/4	3"	SC01218
	2	0.2210	1-3/4	3"	SC01702
	1	0.2280	1-3/4	3"	SC01701
	A	0.2340	2"	3-1/4	SC01601
15/64		0.2344	2"	3-1/4	SC01234
	B	0.2380	2"	3-1/4	SC01602
	C	0.2420	2"	3-1/4	SC01603

FRAC	NO	DEC	FLT LG FR	LENGTH LONGEUR	BRIGHT CODE
	D	0.2460	2"	3-1/4	SC01604
1/4	E	0.2500	2"	3-1/4	SC01250
	F	0.2570	2"	3-1/4	SC01606
	G	0.2610	2-1/8	3-1/2	SC01607
17/64		0.2656	2-1/8	3-1/2	SC01265
	H	0.2660	2-1/8	3-1/2	SC01608
	I	0.2720	2-1/8	3-1/2	SC01609
	J	0.2770	2-1/8	3-1/2	SC01610
	K	0.2810	2-1/8	3-1/2	SC01611
9/32		0.2812	2-1/8	3-1/2	SC01281
	L	0.2900	2-1/8	3-1/2	SC01612
	M	0.2950	2-3/8	3-3/4	SC01613
19/64		0.2969	2-3/8	3-3/4	SC01296
	N	0.3020	2-3/8	3-3/4	SC01614
5/16		0.3125	2-3/8	3-3/4	SC01312
	O	0.3160	2-3/8	3-3/4	SC01615
	P	0.3230	2-3/8	3-3/4	SC01616
21/64		0.3281	2-1/2	4"	SC01328
	Q	0.3320	2-1/2	4"	SC01617
	R	0.3390	2-1/2	4"	SC01618
11/32		0.3438	2-1/2	4"	SC01343
	S	0.3480	2-1/2	4"	SC01619
	T	0.3580	2-3/4	4-1/4	SC01620
23/64		0.3594	2-3/4	4-1/4	SC01359
	U	0.3680	2-3/4	4-1/4	SC01621
3/8		.03750	2-3/4	4-1/4	SC01375
	V	0.3770	2-3/4	4-1/4	SC01622
	W	0.3860	2-7/8	4-1/2	SC01623
25/64		0.3906	2-7/8	4-1/2	SC01390
	X	0.3970	2-7/8	4-1/2	SC01624
	Y	0.4040	2-7/8	4-1/2	SC01625
13/32		0.4062	2-7/8	4-1/2	SC01406
	Z	0.4130	2-7/8	4-1/2	SC01626
27/64		0.4219	2-7/8	4-1/2	SC01421
7/16		0.4375	2-7/8	4-1/2	SC01437
29/64		0.4531	3"	4-3/4	SC01453
15/32		0.4688	3"	4-3/4	SC01468
31/64		0.4844	3"	4-3/4	SC01484
1/2		0.5000	3"	4-3/4	SC01500



Solid Carbide Jobber Drills - SC03

Standard Length – Metric

- Premium Submicron Grain Carbide
- Bright Finish (TiN and TiAlN coatings available)
- 118° Four Facet Point
- Regular Spiral
- Precision ground carbide drills are designed for high feed rate and good chip evacuation while providing excellent wear resistance and hardness
- Designed for drilling Cast Iron, Aluminum, Copper, Plastics, Bronze and other similar materials

Longeur Standard – Metrique

- Carbure de grain submicronique de qualité supérieure
- Finition brillante (revêtement TiN et TiAlN disponible)
- 118 ° Point à quatre facettes
- Spirale régulière
- Les forets de précision en carbure rectifié sont conçus pour une vitesse d'avance élevée et une bonne évacuation des copeaux tout en offrant une excellente résistance à l'usure et une grande dureté
- Est conçu pour percer la fonte, l'aluminium, le cuivre, les plastiques, le bronze et d'autres matériaux similaires

MM	DEC	FLT LG FR	LENGTH LONGEUR	BRIGHT CODE
1.00	0.0393	16.0	38.0	SC03004
1.10	0.0433	19.0	38.0	SC03110
1.20	0.0472	19.0	38.0	SC03120
1.30	0.0512	19.0	38.0	SC03130
1.40	0.0551	19.0	38.0	SC03140
1.50	0.0591	19.0	38.0	SC03005
1.60	0.0630	19.0	38.0	SC03160
1.70	0.0669	19.0	38.0	SC03170
1.80	0.0709	22.0	44.0	SC03180
1.90	0.0748	22.0	44.0	SC03190
2.00	0.0787	22.0	44.0	SC03006
2.10	0.0827	22.0	44.0	SC03210
2.20	0.0866	25.0	50.0	SC03220
2.30	0.0906	25.0	50.0	SC03230
2.40	0.0945	25.0	50.0	SC03240
2.50	0.0984	25.0	50.0	SC03007
2.60	0.1024	32.0	57.0	SC03260
2.70	0.1063	32.0	57.0	SC03270
2.80	0.1102	32.0	57.0	SC03280
2.90	0.1142	32.0	57.0	SC03290
3.00	0.1181	32.0	57.0	SC03008
3.10	0.1220	32.0	57.0	SC03310

MM	DEC	FLT LG FR	LENGTH LONGEUR	BRIGHT CODE
3.20	0.1260	32.0	57.0	SC03320
3.30	0.1299	32.0	57.0	SC03330
3.40	0.1339	35.0	63.0	SC03340
3.50	0.1378	35.0	63.0	SC03009
3.60	0.1417	35.0	63.0	SC03360
3.70	0.1457	35.0	63.0	SC03370
3.80	0.1496	35.0	63.0	SC03380
3.90	0.1535	35.0	63.0	SC03390
4.00	0.1575	35.0	63.0	SC03010
4.10	0.1614	35.0	63.0	SC03410
4.20	0.1654	41.0	70.0	SC03420
4.30	0.1693	41.0	70.0	SC03430
4.40	0.1732	41.0	70.0	SC03440
4.50	0.1772	41.0	70.0	SC03011
4.60	0.1811	41.0	70.0	SC03460
4.70	0.1850	41.0	70.0	SC03470
4.80	0.1890	41.0	70.0	SC03480
4.90	0.1929	41.0	70.0	SC03490
5.00	0.1969	44.0	75.0	SC03012
5.10	0.2008	44.0	75.0	SC03510
5.20	0.2047	44.0	75.0	SC03520
5.30	0.2087	44.0	75.0	SC03530



Solid Carbide Jobber Drills - SC03

MM	DEC	FLT LG FR	LENGTH LONGEUR	BRIGHT CODE
5.40	0.2126	44.0	75.0	SC03540
5.50	0.2165	44.0	75.0	SC03013
5.60	0.2205	44.0	75.0	SC03560
5.70	0.2244	44.0	75.0	SC03570
5.80	0.2283	50.0	82.0	SC03580
5.90	0.2323	50.0	82.0	SC03590
6.00	0.2362	50.0	82.0	SC03014
6.10	0.2402	50.0	82.0	SC03610
6.20	0.2441	50.0	82.0	SC03620
6.30	0.2480	50.0	82.0	SC03630
6.40	0.2520	50.0	82.0	SC03640
6.50	0.2559	50.0	82.0	SC03015
6.60	0.2598	50.0	82.0	SC03660
6.70	0.2638	54.0	89.0	SC03670
6.80	0.2677	54.0	89.0	SC03680
6.90	0.2717	54.0	89.0	SC03690
7.00	0.2756	54.0	89.0	SC03016
7.10	0.2795	54.0	89.0	SC03710
7.20	0.2835	54.0	89.0	SC03720
7.30	0.2874	54.0	89.0	SC03730
7.40	0.2913	54.0	89.0	SC03740
7.50	0.2953	60.0	95.0	SC03017
7.60	0.2992	60.0	95.0	SC03760
7.70	0.3031	60.0	95.0	SC03770
7.80	0.3071	60.0	95.0	SC03780
7.90	0.3110	60.0	95.0	SC03790

MM	DEC	FLT LG FR	LENGTH LONGEUR	BRIGHT CODE
8.00	0.3150	60.0	95.0	SC03018
8.10	0.3189	60.0	95.0	SC03810
8.20	0.3228	60.0	95.0	SC03820
8.30	0.3268	60.0	95.0	SC03830
8.40	0.3307	63.0	100.0	SC03840
8.50	0.3346	63.0	100.0	SC03019
8.60	0.3386	63.0	100.0	SC03860
8.70	0.3425	63.0	100.0	SC03870
8.80	0.3465	63.0	100.0	SC03880
8.90	0.3504	63.0	100.0	SC03890
9.00	0.3543	70.0	100.0	SC03020
9.10	0.3583	70.0	108.0	SC03910
9.20	0.3622	70.0	108.0	SC03920
9.30	0.3661	70.0	108.0	SC03930
9.40	0.3701	70.0	108.0	SC03940
9.50	0.3740	70.0	108.0	SC03021
9.60	0.3780	70.0	108.0	SC03960
9.70	0.3819	70.0	108.0	SC03970
9.80	0.3858	70.0	108.0	SC03980
9.90	0.3898	73.0	114.0	SC03990
10.00	0.3937	73.0	114.0	SC03022
10.50	0.4134	73.0	114.0	SC03023
11.00	0.4331	73.0	114.0	SC03024
11.50	0.4528	76.0	120.0	SC03025
12.00	0.4724	76.0	120.0	SC03026



Carbide Tipped Jobber Drills - SC04

Jobber Length

- Bright Finish (TiN and TiAlN coatings available)
- 118 Deg Point
- Regular Spiral
- HSS body, Carbide Tip provides excellent wear resistance
- Recommended for drilling Cast Iron, Composites, Aluminum Castings, Bronze, Fiberglass and other Non-Ferrous materials

Longeur du Jobber

- Finition brillante (revêtement TiN et TiAlN disponible)
- 118 degrés
- Spirale régulière
- Corps en HSS, pointe en carbure offrant une excellente résistance à l'usure
- Recommandé pour percer la fonte, les composites, les pièces moulées en aluminium, le bronze, la fibre de verre et d'autres matériaux non ferreux

FRAC	NO/LTR	MM	DEC	FLT LG FR	LENGTH LONGEUR	BRIGHT CODE
	32		0.1160	1-1/4	2-1/4	SC04232
		3.00	0.1181	32.0	57.0	SC04530
	31		0.1200	1-1/4	2-1/4	SC05231
		3.10	0.1220	32.0	57.0	SC04531
1/8			0.1250	1-1/4	2-1/4	SC04008
		3.20	0.1260	32.0	57.0	SC04532
	30		0.1285	1-1/4	2-1/4	SC04230
		3.30	0.1299	32.0	57.0	SC04533
	29		0.1360	1-3/8	2-1/2	SC04229
		3.50	0.1378	35.0	63.0	SC04535
	28		0.1405	1-3/8	2-1/2	SC04228
9/64			0.1406	1-3/8	2-1/2	SC04009
	27		0.1440	1-3/8	2-1/2	SC04227
	26		0.1470	1-3/8	2-1/2	SC04226
	25		0.1495	1-3/8	2-1/2	SC04225
	24		0.1520	1-3/8	2-1/2	SC04224
	23		0.1540	1-3/8	2-1/2	SC04223
5/32			0.1562	1-3/8	2-1/2	SC04010
	22		0.1570	1-3/8	2-1/2	SC04222
		4.00	0.1575	35.0	63.0	SC04540
	21		0.1590	1-3/8	2-1/2	SC04221
	20		0.1610	1-3/8	2-1/2	SC04220
	19		0.1660	1-5/8	3-3/4	SC04219
	18		0.1695	1-5/8	3-3/4	SC04218
11/64			0.1719	1-5/8	3-3/4	SC04011
	17		0.1730	1-5/8	3-3/4	SC04217
	16		0.1770	1-5/8	3-3/4	SC04216
		4.50	0.1772	1-5/8	3-3/4	SC04545
	32		0.1160	1-1/4	2-1/4	SC04232
		3.00	0.1181	32.0	57.0	SC04530

FRAC	NO/LTR	MM	DEC	FLT LG FR	LENGTH LONGEUR	BRIGHT CODE
	31		0.1200	1-1/4	2-1/4	SC05231
		3.10	0.1220	32.0	57.0	SC04531
1/8			0.1250	1-1/4	2-1/4	SC04008
		3.20	0.1260	32.0	57.0	SC04532
	30		0.1285	1-1/4	2-1/4	SC04230
		3.30	0.1299	32.0	57.0	SC04533
	29		0.1360	1-3/8	2-1/2	SC04229
		3.50	0.1378	35.0	63.0	SC04535
	28		0.1405	1-3/8	2-1/2	SC04228
9/64			0.1406	1-3/8	2-1/2	SC04009
	27		0.1440	1-3/8	2-1/2	SC04227
	26		0.1470	1-3/8	2-1/2	SC04226
	25		0.1495	1-3/8	2-1/2	SC04225
	24		0.1520	1-3/8	2-1/2	SC04224
	23		0.1540	1-3/8	2-1/2	SC04223
5/32			0.1562	1-3/8	2-1/2	SC04010
	22		0.1570	1-3/8	2-1/2	SC04222
		4.00	0.1575	35.0	63.0	SC04540
	21		0.1590	1-3/8	2-1/2	SC04221
	20		0.1610	1-3/8	2-1/2	SC04220
	19		0.1660	1-5/8	3-3/4	SC04219
	18		0.1695	1-5/8	3-3/4	SC04218
11/64			0.1719	1-5/8	3-3/4	SC04011
	17		0.1730	1-5/8	3-3/4	SC04217
	16		0.1770	1-5/8	3-3/4	SC04216
		4.50	0.1772	1-5/8	3-3/4	SC04545
	15		0.1800	1-5/8	3-3/4	SC04215
	14		0.1820	1-5/8	3-3/4	SC04214
	13		0.1850	1-5/8	3-3/4	SC04213
3/16			0.1875	1-5/8	3-3/4	SC04012



Carbide Tipped Jobber Drills - SC04

FRAC	NO/LTR	MM	DEC	FLT LG FR	LENGTH LONGEUR	BRIGHT CODE
	12		0.1890	1-5/8	3-3/4	SC04212
	11		0.1910	1-5/8	3-3/4	SC04211
	10		0.1935	1-5/8	3-3/4	SC04210
	9		0.1960	1-3/4	3"	SC04209
		5.00	0.1968	44.0	75.0	SC04550
	8		0.1990	1-3/4	3"	SC04208
	7		0.2010	1-3/4	3"	SC04207
13/64			0.2031	1-3/4	3"	SC04013
	6		0.2040	1-3/4	3"	SC04206
	5		0.2055	1-3/4	3"	SC04205
	4		0.2090	1-3/4	3"	SC04204
	3		0.2130	1-3/4	3"	SC04203
		5.50	0.2165	44.0	75.0	SC04555
7/23			0.2188	1-3/4	3"	SC04014
	2		0.2210	1-3/4	3"	SC04202
	1		0.2280	1-3/4	3"	SC04201
	A		0.2340	2.0	3-1/4	SC04101
15/64			0.2344	2.0	3-1/4	SC04015
		6.00	0.2362	50.0	82.0	SC04560
	B		0.2380	1-3/4	3"	SC04102
	C		0.2420	1-3/4	3"	SC04103
	D		0.2460	1-3/4	3"	SC04104
1/4	E		0.2500	1-3/4	3"	SC04016
		6.40	0.2520	50.0	82.0	SC04564
		6.50	0.2559	50.0	82.0	SC04565
	F		0.2570	2.0	3-1/4	SC04106
	G		0.2610	2-1/8	3-1/2	SC04107
17/64			0.2656	2-1/8	3-1/2	SC04017
	H		0.2660	2-1/8	3-1/2	SC04108
	I		0.2720	2-1/8	3-1/2	SC04109
		7.00	0.2756	54.0	89.0	SC04570
	J		0.2770	2-1/8	3-1/2	SC04110
	K		0.2810	2-1/8	3-1/2	SC04111
9/32			0.2812	2-1/8	3-1/2	SC04018
	L		0.2900	2-1/8	3-1/2	SC04112
	M		0.2950	2-3/8	3-3/4	SC04113
		7.50	0.2953	60.0	95.0	SC04575
19/64			0.2969	2-3/8	3-3/4	SC04019

FRAC	NO/LTR	MM	DEC	FLT LG FR	LENGTH LONGEUR	BRIGHT CODE
	N		0.3020	2-3/8	3-3/4	SC04114
5/16			0.3125	2-3/8	3-3/4	SC04020
		8.00	0.3150	60.0	95.0	SC04580
	O		0.3160	2-3/8	3-3/4	SC04115
	P		0.3230	2-3/8	3-3/4	SC04116
21/64			0.3281	2-1/2	4"	SC04021
	Q		0.3320	2-1/2	4"	SC04117
		8.50	0.3346	62.0	100.0	SC04585
	R		0.3390	2-1/2	4"	SC04118
11/32			0.3438	2-1/2	4"	SC04022
	S		0.3480	2-1/2	4"	SC04119
		9.00	0.3543	70.0	100.0	SC04590
	T		0.3580	2-3/4	4-1/4	SC04120
23/64			0.3594	2-3/4	4-1/4	SC04023
	U		0.3680	2-3/4	4-1/4	SC04121
		9.50	0.3740	70.0	108.0	SC04595
3/8			0.3750	2-3/4	4-1/4	SC04024
	V		0.3770	2-3/4	4-1/4	SC04122
	W		0.3860	2-7/8	4-1/2	SC04123
25/64			0.3906	2-7/8	4-1/2	SC04025
		10.00	0.3937	73.0	114.0	SC04600
	X		0.3970	2-7/8	4-1/2	SC04124
	Y		0.4040	2-7/8	4-1/2	SC04125
13/32			0.4062	2-7/8	4-1/2	SC04026
	Z		0.4130	2-7/8	4-1/2	SC04126
		10.50	0.4134	73.0	114.0	SC04605
27/64			0.4219	2-7/8	4-1/2	SC04027
		11.00	0.4331	73.0	114.0	SC04610
7/16			0.4375	2-7/8	4-1/2	SC04028
		11.50	0.4528	76.0	120.0	SC04615
29/64			0.4531	3"	4-3/4	SC04029
15/32			0.4688	3"	4-3/4	SC04030
		12.00	0.4724	76.0	120.0	SC04620
31/64			0.4844	3"	4-3/4	SC04031
		12.50	0.4921	76.0	120.0	SC04625
1/2			0.5000	3"	4-3/4	SC04032
		13.00	0.5118	76.0	120.0	SC04630
33/64			0.5156	3"	4-3/4	SC04033

Continued

Carbide Tipped Jobber Drills - SC04



FRAC	NO/LTR	MM	DEC	FLT LG FR	LENGTH LONGEUR	BRIGHT CODE
17/32			0.5313	3"	4-3/4	SC04034
35/64			0.5469	3"	4-3/4	SC04035
9/16			0.5625	4"	6"	SC04036
37/64			0.5781	4"	6"	SC04037
19/32			0.5937	4"	6"	SC04038
39/64			0.6094	4"	6"	SC04039

FRAC	NO/LTR	MM	DEC	FLT LG FR	LENGTH LONGEUR	BRIGHT CODE
5/8			0.6250	4"	6"	SC04040
41/64			0.6406	4"	6"	SC04041
21/32			0.6562	4"	6"	SC04042
43/64			0.6719	4"	6"	SC04043
11/16			0.6875	4"	6"	SC04044



Solid Carbide Stub Drills - SC12

Screw Machine Length

- Premium Submicron Grain Carbide
- Bright Finish (TiN and TiAlN coatings available)
- 135° Four Facet Point
- Slow Spiral for tough drilling applications
- Precision ground carbide drills are designed for high feed rate and good chip evacuation while providing excellent wear resistance and hardness
- Designed for drilling Cast Iron, Aluminum, Copper, Plastics, Bronze and other similar materials

Longeur de la Machine à vis

- Carbure de grain submicronique de qualité supérieure
- Finition brillante (revêtement TiN et TiAlN disponible)
- 135° Point à quatre facettes
- Spirale lente pour les applications de forage difficiles
- Les forets de précision en carbure rectifié sont conçus pour une vitesse d'avance élevée et une bonne évacuation des copeaux tout en offrant une excellente résistance à l'usure et une grande dureté
- Est conçu pour percer la fonte, l'aluminium, le cuivre, les plastiques, le bronze et d'autres matériaux similaires

FRAC	NO/LTR	DEC	FLT LG FR	LENGTH LONGEUR	BRIGHT CODE
	56	0.0465	1/2	1-1/2	SC12756
3/64		0.0469	1/2	1-1/2	SC12046
	55	0.0520	1/2	1-1/2	SC12755
	54	0.0550	1/2	1-1/2	SC12754
	53	0.0595	1/2	1-1/2	SC12753
1/16		0.0625	5/8	1-5/8	SC12062
	52	0.0635	11/16	1-11/16	SC12752
	51	0.0670	11/16	1-11/16	SC12751
	50	0.0700	11/16	1-11/16	SC12750
	49	0.0730	11/16	1-11/16	SC12749
	48	0.0760	11/16	1-11/16	SC12748
5/64		0.0781	11/16	1-11/16	SC12078
	47	0.0785	3/4	1-3/4	SC12747
	46	0.0810	3/4	1-3/4	SC12746
	45	0.0820	3/4	1-3/4	SC12745
	44	0.0860	3/4	1-3/4	SC12744

FRAC	NO/LTR	DEC	FLT LG FR	LENGTH LONGEUR	BRIGHT CODE
	43	0.0890	3/4	1-3/4	SC12743
	42	0.0935	3/4	1-3/4	SC12742
3/32		0.0938	3/4	1-3/4	SC12093
	41	0.0960	13/16	1-13/16	SC12741
	40	0.0980	13/16	1-13/16	SC12740
	39	0.0995	13/16	1-13/16	SC12739
	38	0.1015	13/16	1-13/16	SC12738
	37	0.1040	13/16	1-13/16	SC12737
	36	0.1065	13/16	1-13/16	SC12736
7/64		0.1094	13/16	1-13/16	SC12109
	35	0.1100	7/8	1-7/8	SC12735
	34	0.1110	7/8	1-7/8	SC12734
	33	0.1130	7/8	1-7/8	SC12733
	32	0.1160	7/8	1-7/8	SC12732
	31	0.1200	7/8	1-7/8	SC12731
1/8		0.1250	7/8	1-7/8	SC12125



Solid Carbide Stub Drills - SC12

FRAC	NO/LTR	DEC	FLT LG FR	LENGTH LONGEUR	BRIGHT CODE
	30	0.1285	15/16	1-15/16	SC12730
	29	0.1360	15/16	1-15/16	SC12729
	28	0.1405	15/16	1-15/16	SC12728
9/64		0.1406	15/16	1-15/16	SC12140
	27	0.1440	1"	2-1/16	SC12727
	26	0.1470	1"	2-1/16	SC12726
	25	0.1495	1"	2-1/16	SC12725
	24	0.1520	1"	2-1/16	SC12724
	23	0.1540	1"	2-1/16	SC12723
5/32		0.1562	1"	2-1/16	SC12156
	22	0.1570	1-1/16	2-1/8	SC12722
	21	0.1590	1-1/16	2-1/8	SC12721
	20	0.1610	1-1/16	2-1/8	SC12720
	19	0.1660	1-1/16	2-1/8	SC12719
	18	0.1695	1-1/16	2-1/8	SC12718
11/64		0.1719	1-1/16	2-1/8	SC12171
	17	0.1730	1-1/8	2-3/16	SC12717
	16	0.1770	1-1/8	2-3/16	SC12716
	15	0.1800	1-1/8	2-3/16	SC12715
	14	0.1820	1-1/8	2-3/16	SC12714
	13	0.1850	1-1/8	2-3/16	SC12713
3/16		0.1875	1-1/8	2-3/16	SC12187
	12	0.1890	1-3/16	2-1/4	SC12712
	11	0.1910	1-3/16	2-1/4	SC12711
	10	0.1935	1-3/16	2-1/4	SC12710
	9	0.1960	1-3/16	2-1/4	SC12709
	8	0.1990	1-3/16	2-1/4	SC12708
	7	0.2010	1-3/16	2-1/4	SC12707
13/64		0.2031	1-3/16	2-1/4	SC12203
	6	0.2040	1-1/4	2-3/8	SC12706
	5	0.2055	1-1/4	2-3/8	SC12705
	4	0.2090	1-1/4	2-3/8	SC12704
	3	0.2130	1-1/4	2-3/8	SC12703
7/32		0.2188	1-1/4	2-3/8	SC12218
	2	0.2210	1-5/16	2-7/16	SC12702
	1	0.2280	1-5/16	2-7/16	SC12701
	A	0.2340	1-5/16	2-7/16	SC12601
15/64		0.2344	1-5/16	2-7/16	SC12234
	B	0.2380	1-3/8	2-1/2	SC12602
	C	0.2420	1-3/8	2-1/2	SC12603

FRAC	NO/LTR	DEC	FLT LG FR	LENGTH LONGEUR	BRIGHT CODE
	D	0.2460	1-3/8	2-1/2	SC12604
1/4	E	0.2500	1-3/8	2-1/2	SC12250
	F	0.2570	1-7/16	2-5/8	SC12606
	G	0.2610	1-7/16	2-5/8	SC12607
17/64		0.2656	1-7/16	2-5/8	SC12265
	H	0.2660	1-1/2	2-11/16	SC12608
	I	0.2720	1-1/2	2-11/16	SC12609
	J	0.2770	1-1/2	2-11/16	SC12610
	K	0.2810	1-1/2	2-11/16	SC12611
9/32		0.2812	1-1/2	2-11/16	SC12281
	L	0.2900	1-9/16	2-3/4	SC12612
	M	0.2950	1-9/16	2-3/4	SC12613
19/64		0.2969	1-9/16	2-3/4	SC12296
	N	0.3020	1-5/8	2-13/16	SC12614
5/16		0.3125	1-5/8	2-13/16	SC12312
	O	0.3160	1-11/16	2-15/16	SC12615
	P	0.3230	1-11/16	2-15/16	SC12616
21/64		0.3281	1-11/16	2-15/16	SC12328
	Q	0.3320	1-11/16	3	SC12617
	R	0.3390	1-11/16	3	SC12618
11/32		0.3438	1-11/16	3	SC12343
	S	0.3480	1-3/4	3-1/16	SC12619
	T	0.3580	1-3/4	3-1/16	SC12620
23/64		0.3594	1-3/4	3-1/16	SC12359
	U	0.3680	1-13/16	3-1/8	SC12621
3/8		0.3750	1-13/16	3-1/8	SC12375
	V	0.3770	1-7/8	3-1/4	SC12622
	W	0.3860	1-7/8	3-1/4	SC12623
25/64		0.3906	1-7/8	3-1/4	SC12390
	X	0.3970	1-15/16	3-5/16	SC12624
	Y	0.4040	1-15/16	3-5/16	SC12625
13/32		0.4062	1-15/16	3-5/16	SC12406
	Z	0.4130	2"	3-3/8	SC12626
27/64		0.4219	2"	3-3/8	SC12421
7/16		0.4375	2-1/16	3-7/16	SC12437
29/64		0.4531	2-1/8	3-9/16	SC12453
15/32		0.4688	2-1/8	3-5/8	SC12468
31/64		0.4844	2-3/16	3-11/16	SC12484
1/2		0.5000	2-1/4	3-3/4	SC12500



Solid Carbide Jobber Drills - SC14

Jobber Length – Parabolic Flute

- Premium Submicron Grain Carbide
- 135° Split Point
- Bright Finish (TiN and TiAlN coatings available)
- Precision ground carbide drills are designed for high feed rate and good chip evacuation while providing excellent wear resistance and hardness
- 38° Helix Angle, special web thinning
- Parabolic flute enhances chip flow as well as coolant flow to the drill point
- Designed for deeper hole drilling in materials such as Aluminum, Magnesium, Zinc, Copper, Softer Steel and some Plastics

Longeur du Jobber – Parabolique

- Carbure de grain submicronique de qualité supérieure
- Point de partage à 135 °
- Finition brillante (revêtement TiN et TiAlN disponible)
- Les forets de précision en carbure rectifié sont conçus pour une vitesse d'avance élevée et une bonne évacuation des copeaux tout en offrant une excellente résistance à l'usure et une grande dureté
- Angle d'hélice 38 °, amincissement spécial de la bande de forage
- La flûte parabolique améliore le flux de copeaux ainsi que le flux de liquide de refroidissement vers le point de forage
- Conçu pour le forage de trous plus profonds dans des matériaux tels que l'aluminium, le magnésium, le zinc, le cuivre, l'acier doux et certains plastiques

FRAC	DEC	FLT LG FR	LENGTH LONGEUR	BRIGHT CODE
1/8	0.1250	1-1/4	2-1/4	SC14008
9/64	0.1406	1-3/8	2-1/2	SC14009
5/32	0.1562	1-3/8	2-1/2	SC14010
11/64	0.1719	1-5/8	2-3/4	SC14011
3/16	0.1875	1-5/8	2-3/4	SC14012
13/64	0.2031	1-3/4	3"	SC14013
7/32	0.2188	1-3/4	3"	SC14014
15/64	0.2344	2"	3-1/4	SC14015
1/4	0.2500	2"	3-1/4	SC14016
17/64	0.2656	2-1/8	3-1/2	SC14017
9/32	0.2812	2-1/8	3-1/2	SC14018
19/64	0.2969	2-3/8	3-3/4	SC14019

FRAC	DEC	FLT LG FR	LENGTH LONGEUR	BRIGHT CODE
5/16	0.3125	2-3/8	3-3/4	SC14020
21/64	0.3281	2-1/2	4"	SC14021
11/32	0.3438	2-1/2	4"	SC14022
23/64	0.3594	2-3/4	4-1/4	SC14023
3/8	0.3750	2-3/4	4-1/4	SC14024
25/64	0.3906	2-7/8	4-1/2	SC14025
13/32	0.4062	2-7/8	4-1/2	SC14026
27/64	0.4219	2-7/8	4-1/2	SC14027
7/16	0.4375	2-7/8	4-1/2	SC14028
29/64	0.4531	3"	4-3/4	SC14029
15/32	0.4688	3"	4-3/4	SC14030
31/64	0.4844	3"	4-3/4	SC14031
1/2	0.5000	3"	4-3/4	SC14032

Solid Carbide Die Drills - SC05



Straight Flute - Fractional/Metric

- Premium Submicron Grain Carbide
- 140° Split Point
- Bright Finish (TiN and TiAlN coatings available)
- Straight Flute design gives added web strength and the special point configuration easily penetrates work pieces with minimal deflection
- Straight flute solid carbide drills are designed to drill close tolerance holes in difficult materials (40 – 60Rc) including alloy steel, stainless, nickel alloys, chrome alloys and other exotic alloys

Flûte Droite - Fractionnel/Metrique

- Carburé de grain submicronique de qualité supérieure
- Point de partage à 140°
- Finition brillante (revêtement TiN et TiAlN disponible)
- La conception de la flûte droite donne une résistance accrue à la bande et la configuration spéciale des pointes pénètre facilement les pièces avec une déflexion minimale
- Les forets en carbure monobloc droits sont conçus pour percer des trous à tolérance étroite dans des matériaux difficiles (40 - 60Rc), notamment l'acier allié, l'acier inoxydable, les alliages de nickel, les alliages de chrome et d'autres alliages exotiques

FRAC	NO	DEC	FLT LG FR	LENGTH LONGEUR	BRIGHT CODE
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FRACTIONAL/FRACTIONNEL

	60	0.0400	1/2	1-1/2	SC05760
	59	0.0410	1/2	1-1/2	SC05759
	58	0.0420	1/2	1-1/2	SC05758
	57	0.0430	1/2	1-1/2	SC05757
	56	0.0465	1/2	1-1/2	SC05756
3/64		0.0469	1/2	1-1/2	SC05046
	55	0.0520	1/2	1-1/2	SC05755
	54	0.0550	1/2	1-1/2	SC05754
	53	0.0595	1/2	1-1/2	SC05753
1/16		0.0625	5/8	1-1/2	SC05062
	52	0.0635	11/16	1-11/16	SC05752
	51	0.0670	11/16	1-11/16	SC05751
	50	0.0700	11/16	1-11/16	SC05750
	49	0.0730	11/16	1-11/16	SC05749
	48	0.0760	11/16	1-11/16	SC05748
5/64		0.0781	11/16	1-11/16	SC05078
	47	0.0785	3/4	1-3/4	SC05747
	46	0.0810	3/4	1-3/4	SC05746
	45	0.0820	3/4	1-3/4	SC05745
	44	0.0860	3/4	1-3/4	SC05744
	43	0.0890	3/4	1-3/4	SC05743
	42	0.0935	3/4	1-3/4	SC05742
3/32		0.0938	3/4	1-3/4	SC05093
	41	0.0960	13/16	1-13/16	SC05741
	40	0.0980	13/16	1-13/16	SC05740
	39	0.0995	13/16	1-13/16	SC05739
	38	0.1015	13/16	1-13/16	SC05738
	37	0.1040	13/16	1-13/16	SC05737

FRAC	NO	DEC	FLT LG FR	LENGTH LONGEUR	BRIGHT CODE
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	36	0.1065	13/16	1-13/16	SC05736
7/64		0.1094	13/16	1-13/16	SC05109
	35	0.1100	7/8	1-7/8	SC05735
	34	0.1110	7/8	1-7/8	SC05734
	33	0.1130	7/8	1-7/8	SC05733
	32	0.1160	7/8	1-7/8	SC05732
	31	0.1200	7/8	1-7/8	SC05731
1/8		0.1250	7/8	1-7/8	SC05125
	30	0.1285	15/16	1-15/16	SC05730
	29	0.1360	15/16	1-15/16	SC05729
	28	0.1405	15/16	1-15/16	SC05728
9/64		0.1406	15/16	1-15/16	SC05140
	27	0.1440	1"	2-1/16	SC05727
	26	0.1470	1"	2-1/16	SC05726
	25	0.1495	1"	2-1/16	SC05725
	24	0.1520	1"	2-1/16	SC05724
	23	0.1540	1"	2-1/16	SC05723
5/32		0.1562	1"	2-1/16	SC05156
	22	0.1570	1-1/16	2-1/8	SC05722
	21	0.1590	1-1/16	2-1/8	SC05721
	20	0.1610	1-1/16	2-1/8	SC05720
	19	0.1660	1-1/16	2-1/8	SC05719
	18	0.1695	1-1/16	2-1/8	SC05718
11/64		0.1719	1-1/16	2-1/8	SC05171
	17	0.1730	1-1/8	2-3/16	SC05717
	16	0.1770	1-1/8	2-3/16	SC05716
	15	0.1800	1-1/8	2-3/16	SC05715
	14	0.1820	1-1/8	2-3/16	SC05714

Continued

Solid Carbide Jobber Drills - SC05



FRAC	NO	DEC	FLT LG FR	LENGTH LONGEUR	BRIGHT CODE
	13	0.1850	1-1/8	2-3/16	SC05713
3/16		0.1875	1-1/8	2-3/16	SC05187
	12	0.1890	1-3/16	2-1/4	SC05712
	11	0.1910	1-3/16	2-1/4	SC05711
	10	0.1935	1-3/16	2-1/4	SC05710
	9	0.1960	1-3/16	2-1/4	SC05709
	8	0.1990	1-3/16	2-1/4	SC05708
	7	0.2010	1-3/16	2-1/4	SC05707
13/64		0.2031	1-3/16	2-1/4	SC05203
	6	0.2040	1-1/4	2-3/8	SC05706
	5	0.2055	1-1/4	2-3/8	SC05705
	4	0.2090	1-1/4	2-3/8	SC05704
	3	0.2130	1-1/4	2-3/8	SC05703
7/32		0.2188	1-1/4	2-3/8	SC05218
	2	0.2210	1-5/16	2-7/16	SC05702
	1	0.2280	1-5/16	2-7/16	SC05701
15/64		0.2344	1-5/16	2-7/16	SC05234
1/4		0.2500	1-3/8	2-1/2	SC05250

FRAC	NO	DEC	FLT LG FR	LENGTH LONGEUR	BRIGHT CODE
17/64		0.2656	1-7/16	2-5/8	SC05265
9/32		0.2812	1-1/2	2-11/16	SC05281
19/64		0.2969	1-9/16	2-3/4	SC05296
5/16		0.3125	1-5/8	2-13/16	SC05312
21/64		0.3281	1-11/16	2-15/16	SC05328
11/32		0.3438	1-11/16	3"	SC05343
23/64		0.3594	1-3/4	3-1/16	SC05359
3/8		0.3750	1-13/16	3-1/8	SC05375
25/64		0.3906	1-7/8	3-1/4	SC05390
13/32		0.4062	1-15/16	3-5/16	SC05406
27/64		0.4219	2"	3-3/8	SC05421
7/16		0.4375	2-1/16	3-7/16	SC05437
29/64		0.4531	2-1/8	3-9/16	SC05453
15/32		0.4688	2-1/8	3-9/16	SC05468
31/64		0.4844	2-3/16	3-11/16	SC05484
1/2		0.5000	2-1/4	3-3/4	SC05500

MM	DEC	FLT LG FR	LENGTH LONGEUR	BRIGHT CODE
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METRIC/METRIQUE

2.00	0.0787	19.0	44.0	SC05820
3.00	0.1181	22.0	48.0	SC05830
4.00	0.1575	27.0	53.0	SC05840
5.00	0.1969	30.0	57.0	SC05850
5.50	0.2165	32.0	60.0	SC05855
6.00	0.2362	33.0	62.0	SC05860
6.50	0.2559	35.0	64.0	SC05865
7.00	0.2756	38.0	68.0	SC05870

MM	DEC	FLT LG FR	LENGTH LONGEUR	BRIGHT CODE
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7.50	0.2953	40.0	70.0	SC05875
8.00	0.3150	41.0	71.0	SC05880
8.50	0.3346	43.0	76.0	SC05885
9.00	0.3543	44.0	78.0	SC05890
10.00	0.3937	48.0	83.0	SC05900
10.50	0.4134	51.0	86.0	SC05905
11.00	0.4331	52.0	87.0	SC05910
12.00	0.4724	54.0	92.0	SC05920

Carbide Tipped Die Drills - SC06



Carbide Tipped Die Drills - Straight Flute

- Bright Finish
- HSS body
- 118° Notched Point
- The thick carbide tip, high temperature braze and heavy land construction withstand the heavy feed pressure necessary to penetrate hardened and case-hardened steels

Forets A Queue Cylindrique - Pointe Au Carbure

- Finition brillante
- Corps HSS
- Pointe crantée à 118 °
- La pointe en carbure épaisse, le brasage à haute température et la construction de terrains lourds résistent à la forte pression d'alimentation nécessaire pour pénétrer les aciers trempés et cémentés

FRAC	DEC	FLT LG FR	LENGTH LONGEUR	BRIGHT CODE
1/16	0.0625	5/8	1-5/8	SC06004
5/64	0.0781	11/64	1-11/16	SC06005
3/32	0.0938	3/4	1-3/4	SC06006
7/64	0.1094	13/16	1-13/16	SC06007
1/8	0.1250	7/8	1-7/8	SC06008
9/64	0.1406	15/16	1-15/16	SC06009
5/32	0.1562	1	2-1/16	SC06010
11/64	0.0719	1-1/2	3-1/2	SC06011
3/16	0.1875	1-1/2	3-1/2	SC06012
13/64	0.2031	1-3/4	3-3/4	SC06013
7/32	0.2188	1-3/4	3-3/4	SC06014
15/64	0.2344	2"	4"	SC06015
1/4	0.2500	2"	4"	SC06016
17/64	0.2656	2-1/4	4-1/4	SC06017
9/32	0.2812	2-1/4	4-1/4	SC06018
19/64	0.2969	2-1/2	4-1/2	SC06019
5/16	0.3125	2-1/2	4-1/2	SC06020
21/64	0.3281	2-3/4	4-3/4	SC06021
11/32	0.3438	2-3/4	4-3/4	SC06022
23/64	0.3594	3"	5"	SC06023
3/8	0.3750	3"	5"	SC06024
25/64	0.3906	3"	5-1/4	SC06025

FRAC	DEC	FLT LG FR	LENGTH LONGEUR	BRIGHT CODE
13/32	0.4062	3"	5-1/4	SC06026
27/64	0.4219	3"	5-1/2	SC06027
7/16	0.4375	3"	5-1/2	SC06028
29/64	0.4531	3-1/4	5-3/4	SC06029
15/32	0.4688	3-1/4	5-3/4	SC06030
31/64	0.4844	3-1/2	6"	SC06031
1/2	0.5000	3-1/2	6"	SC06032
17/32	0.5312	3-1/2	6"	SC06034
9/16	0.5625	3-1/2	6"	SC06036
19/32	0.5938	4"	7"	SC06038
5/8	0.6250	4"	7"	SC06040
21/32	0.6563	4-1/2	7-1/2	SC06042
11/16	0.6875	4-1/2	7-1/2	SC06044
23/32	0.7188	4-3/4	8"	SC06046
3/4	0.7500	4-3/4	8"	SC06048
13/16	0.8125	4-3/4	8"	SC06052
7/8	0.8750	4-3/4	8"	SC06056
15/16	0.9375	4-3/4	8"	SC06060
1"	1.0000	4-3/4	8"	SC06100



Solid Carbide Drills - SC16

Standard Length – 3 Flute

- Premium Submicron Grain Carbide
- Bright Finish (TiN and TiAlN coatings available)
- 150° self-centering point eliminates exit burrs in many applications
- 3 Flute design allows higher material removal rates, exceptional surface finish and produces straighter holes
- Designed for aluminum and cast iron and can be used in most steel applications

Longeur Standard – 3 Cannelures

- Carbure de grain submicronique de qualité supérieure
- Finition brillante (revêtement TiN et TiAlN disponible)
- Le point d'auto-centrage à 150 ° élimine les bavures de sortie dans de nombreuses applications
- La conception à 3 cannelures permet des taux d'enlèvement de matière plus élevés, une finition de surface exceptionnelle et produit des trous plus droits
- Conçu pour l'aluminium et la fonte et peut être utilisé dans la plupart des applications en acier

FRAC	DEC	FLT LG FR	LENGTH LONGEUR	BRIGHT CODE
1/8	0.1250	1-1/4	2-1/4	SC16008
9/64	0.1406	1-3/8	2-1/2	SC16009
5/32	0.1562	1-3/8	2-1/2	SC16010
11/64	0.1719	1-5/8	2-3/4	SC16011
3/16	0.1875	1-5/8	2-3/4	SC16012
13/64	0.2031	1-3/4	3"	SC16013
7/32	0.2188	1-3/4	3"	SC16014
15/64	0.2344	2"	3-1/4	SC16015
1/4	0.2500	2"	3-1/4	SC16016
17/64	0.2656	2-1/8	3-1/2	SC16017
9/32	0.2812	2-1/8	3-1/2	SC16018
19/64	0.2969	2-3/8	3-3/4	SC16019
5/16	0.3125	2-3/8	3-3/4	SC16020
21/64	0.3281	2-1/2	4"	SC16021
11/32	0.3438	2-1/2	4"	SC16022
23/64	0.3594	2-1/2	4"	SC16023
3/8	0.3750	2-3/4	4-1/4	SC16024
25/64	0.3906	2-7/8	4-1/2	SC16025
13/32	0.4062	2-7/8	4-1/2	SC16026
27/64	0.4219	2-7/8	4-1/2	SC16027
7/16	0.4375	2-7/8	4-1/2	SC16028
29/64	0.4531	3"	4-3/4	SC16029
15/32	0.4688	3"	4-3/4	SC16030
31/64	0.4844	3"	4-3/4	SC16031
1/2	0.5000	3"	4-3/4	SC16032
17/32	0.5312	3"	4-3/4	SC16034
9/16	0.5625	3-1/4	5	SC16036
5/8	0.6250	4-1/4	6	SC16040
3/4	0.7500	4-1/4	6	SC16048



Carbide Tipped Drills - SC15

Taper Length Regular Spiral

- Bright Finish
- 118° Notched Point
- Longer Overall Length / Flute Length
- HSS body, Carbide Tip provides excellent wear resistance
- Taper Length drills have the same flute length as taper shank drills for deeper hole drilling
- Recommended for drilling Cast Iron, Composites, Aluminum Castings, Bronze, Fiberglass and other Non-Ferrous materials

Forets A Queue Cylindrique Serie Longue

- Finition brillante
- Pointe crantée à 118 °
- Longueur totale plus longue / Longueur de la flûte
- Corps en HSS, pointe en carbure offrant une excellente résistance à l'usure
- Les forets à longueur conique ont la même longueur de cannelure que les forets à queue conique pour un forage de trous plus profond
- Recommandé pour percer la fonte, les composites, les pièces moulées en aluminium, le bronze, la fibre de verre et d'autres matériaux non ferreux

FRAC	DEC	FLT LG FR	LENGTH LONGEUR	BRIGHT CODE
3/32	0.0938	2-5/8	5-1/8	SC15006
1/8	0.1250	2-3/4	5-1/8	SC15008
9/64	0.1406	3"	5-3/8	SC15009
5/32	0.1562	3"	5-3/8	SC15010
11/64	0.1719	3-3/8	5-3/4	SC15011
3/16	0.1875	3-3/8	5-3/4	SC15012
13/64	0.2031	3-5/8	6"	SC15013
7/32	0.2188	3-5/8	6"	SC15014
15/64	0.2344	3-3/4	6-1/8	SC15015
1/4	0.2500	3-3/4	6-1/8	SC15016
17/64	0.2656	3-7/8	6-1/4	SC15017
9/32	0.2812	3-7/8	6-1/4	SC15018
19/64	0.2969	4"	6-3/8	SC15019
5/16	0.3125	4"	6-3/8	SC15020
21/64	0.3281	4-1/8	6-1/2	SC15021
11/32	0.3438	4-1/8	6-1/2	SC15022
23/64	0.3594	4-1/4	6-3/4	SC15023
3/8	0.3750	4-1/4	6-3/4	SC15024
25/64	0.3906	4-3/8	7"	SC15025
13/32	0.4062	4-3/8	7"	SC15026
27/64	0.4219	4-5/8	7-1/4	SC15027
7/16	0.4375	4-5/8	7-1/4	SC15028
29/64	0.4531	4-3/4	7-1/2	SC15029
15/32	0.4688	4-3/4	7-1/2	SC15030
31/64	0.4844	4-3/4	7-3/4	SC15031
1/2	0.5000	4-3/4	7-3/4	SC15032
33/64	0.5156	4-3/4	8"	SC15033
17/32	0.5312	4-3/4	8"	SC15034
35/64	0.5469	4-7/8	8-1/4	SC15035
9/16	0.5625	4-7/8	8-1/4	SC15036

FRAC	DEC	FLT LG FR	LENGTH LONGEUR	BRIGHT CODE
37/64	0.5781	4-7/8	8-1/4	SC15037
19/32	0.5938	4-7/8	8-3/4	SC15038
39/64	0.6094	4-7/8	8-3/4	SC15039
5/8	0.6250	4-7/8	8-3/4	SC15040
41/64	0.6406	5-1/8	8-3/4	SC15041
21/32	0.6562	5-1/8	9	SC15042
43/64	0.6719	5-3/8	9	SC15043
11/16	0.6875	5-3/8	9-1/4	SC15044
45/64	0.7031	5-5/8	9-1/4	SC15045
23/32	0.7188	5-5/8	9-1/2	SC15046
47/64	0.7344	5-7/8	9-1/2	SC15047
3/4	0.7500	5-7/8	9-3/4	SC15048
49/64	0.7656	6"	9-3/4	SC15049
25/32	0.7812	6"	9-7/8	SC15050
51/64	0.7969	6-1/8	9-7/8	SC15051
13/16	0.8125	6-1/8	10"	SC15052
53/64	0.8281	6-1/8	10"	SC15053
27/32	0.8438	6-1/8	10"	SC15054
55/64	0.8594	6-1/8	10"	SC15055
7/8	0.8750	6-1/8	10"	SC15056
57/64	0.8906	6-1/8	10"	SC15057
29/32	0.9062	6-1/8	10"	SC15058
59/64	0.9219	6-1/8	10-3/4	SC15059
15/16	0.9375	6-1/8	10-3/4	SC15060
61/64	0.9531	6-3/8	11"	SC15061
31/32	0.9688	6-3/8	11"	SC15062
63/64	0.9844	6-3/8	11"	SC15063
1"	1.0000	6-3/8	11"	SC15100



Cobalt Jobber Drills - DR09

Jobber Length - Cobalt Fractional

- Cobalt Jobber drills offer increased hardness, toughness and better wear resistance compared to regular HSS
- Gold Oxide surface finish provides a polished finish and prevents chip building, galling and welding on a workpiece
- 135 Deg Split Point (self-centering) which eliminates "Walking" and reduces the thrust force
- Cobalt drills are suitable for harder material including alloy steels, Stainless Steel and other difficult to drill materials

Longeur du Jobber - Cobalt Fractionnel

- Les forets Cobalt Jobber offrent une dureté et une ténacité accrues et une meilleure résistance à l'usure par rapport au HSS ordinaire
- La finition de surface en oxyde d'or offre une finition polie et empêche la formation de copeaux, le grippage et le soudage sur une pièce
- Point de partage à 135 degrés (auto-centrage) qui élimine la «marche» et réduit la force de poussée
- Les forets au cobalt conviennent aux matériaux plus durs, notamment les aciers alliés, l'acier inoxydable et autres matériaux difficiles à percer

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR09280		80	0.0135	5/32	3/4	10
DR09279		79	0.0145	5/32	3/4	10
DR09001	1/64		0.0156	3/16	13/16	10
DR09278		78	0.0160	3/16	13/16	10
DR09277		77	0.0180	3/16	13/16	10
DR09276		76	0.0200	1/4	7/8	10
DR09275		75	0.0210	9/32	15/16	10
DR09274		74	0.0225	9/32	15/16	10
DR09273		73	0.0240	5/16	1	10
DR09272		72	0.0250	5/16	1	10
DR09271		71	0.0260	5/16	1	10
DR09270		70	0.0280	11/32	1-1/8	10
DR09269		69	0.0292	11/32	1-1/8	10
DR09268		68	0.0310	13/32	1-3/16	10
DR09002	1/32		0.0312	13/32	1-3/16	10
DR09267		67	0.0320	13/32	1-3/16	10
DR09266		66	0.0330	13/32	1-3/16	10
DR09265		65	0.0350	7/16	1-1/4	10
DR09264		64	0.0360	7/16	1-1/4	10
DR09263		63	0.0370	7/16	1-1/4	10
DR09262		62	0.0380	15/32	1-5/16	10
DR09261		61	0.0390	15/32	1-5/16	10
DR09260		60	0.0400	11/16	1-5/8	10
DR09259		59	0.0410	11/16	1-5/8	10
DR09258		58	0.0420	11/16	1-5/8	10
DR09257		57	0.0430	3/4	1-3/4	10
DR09256		56	0.0465	3/4	1-3/4	10
DR09003	3/64		0.0469	7/8	1-7/8	10
DR09255		55	0.0520	7/8	1-7/8	10
DR09254		54	0.0550	7/8	1-7/8	10
DR09253		53	0.0595	7/8	1-7/8	10
DR09004	1/16		0.0625	7/8	1-7/8	10

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR09252		52	0.0635	7/8	1-7/8	10
DR09251		51	0.0670	1	2	10
DR09250		50	0.0700	1	2	10
DR09249		49	0.0730	1	2	10
DR09248		48	0.0760	1	2	10
DR09005	5/64		0.0781	1	2	10
DR09247		47	0.0785	1	2	10
DR09246		46	0.0810	1-1/8	2-1/8	10
DR09245		45	0.0820	1-1/8	2-1/8	10
DR09244		44	0.0860	1-1/8	2-1/8	10
DR09243		43	0.0890	1-1/4	2-1/4	10
DR09242		42	0.0935	1-1/4	2-1/4	10
DR09006	3/32		0.0938	1-1/4	2-1/4	10
DR09241		41	0.0960	1-3/8	2-3/8	10
DR09240		40	0.0980	1-3/8	2-3/8	10
DR09239		39	0.0995	1-3/8	2-3/8	10
DR09238		38	0.1015	1-7/16	2-1/2	10
DR09237		37	0.1040	1-7/16	2-1/2	10
DR09236		36	0.1065	1-7/16	2-1/2	10
DR09007	7/64		0.1094	1-1/2	2-5/8	10
DR09235		35	0.1100	1-1/2	2-5/8	10
DR09234		34	0.1110	1-1/2	2-5/8	10
DR09233		33	0.1130	1-1/2	2-5/8	10
DR09232		32	0.1160	1-5/8	2-3/4	10
DR09231		31	0.1200	1-5/8	2-3/4	10
DR09008	1/8		0.1250	1-5/8	2-3/4	10
DR09230		30	0.1285	1-5/8	2-3/4	10
DR09229		29	0.1360	1-3/4	2-7/8	10
DR09228		28	0.1405	1-3/4	2-7/8	10
DR09009	9/64		0.1406	1-3/4	2-7/8	10
DR09227		27	0.1440	1-7/8	3	10
DR09226		26	0.1470	1-7/8	3	10



Cobalt Jobber Drills - DR09

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR09225		25	0.1495	1-7/8	3	10
DR09224		24	0.1520	2	3-1/8	10
DR09223		23	0.1540	2	3-1/8	10
DR09010	5/32		0.1562	2	3-1/8	10
DR09222		22	0.1570	2	3-1/8	10
DR09221		21	0.1590	2-1/8	3-1/4	10
DR09220		20	0.1610	2-1/8	3-1/4	10
DR09219		19	0.1660	2-1/8	3-1/4	10
DR09218		18	0.1695	2-1/8	3-1/4	10
DR09011	11/64		0.1719	2-1/8	3-1/4	10
DR09217		17	0.1730	2-3/16	3-3/8	10
DR09216		16	0.1770	2-3/16	3-3/8	10
DR09215		15	0.1800	2-3/16	3-3/8	10
DR09214		14	0.1820	2-3/16	3-3/8	10
DR09213		13	0.1850	2-5/16	3-1/2	10
DR09012	3/16		0.1875	2-5/16	3-1/2	10
DR09212		12	0.1890	2-5/16	3-1/2	10
DR09211		11	0.1910	2-5/16	3-1/2	10
DR09210		10	0.1935	2-7/16	3-5/8	10
DR09209		9	0.1960	2-7/16	3-5/8	10
DR09208		8	0.1990	2-7/16	3-5/8	10
DR09207		7	0.2010	2-7/16	3-5/8	10
DR09013	13/64		0.2031	2-7/16	3-5/8	10
DR09206		6	0.2040	2-1/2	3-3/4	10
DR09205		5	0.2055	2-1/2	3-3/4	10
DR09204		4	0.2090	2-1/2	3-3/4	10
DR09203		3	0.2130	2-1/2	3-3/4	10
DR09014	7/32		0.2188	2-1/2	3-3/4	10
DR09202		2	0.2210	2-5/8	3-7/8	10
DR09201		1	0.2280	2-5/8	3-7/8	10
DR09101		A	0.2340	2-5/8	3-7/8	10
DR09015	15/64		0.2344	2-5/8	3-7/8	10
DR09102		B	0.2380	2-3/4	4	10
DR09103		C	0.2420	2-3/4	4	10
DR09104		D	0.2460	2-3/4	4	10
DR09016	1/4	E	0.2500	2-3/4	4	10
DR09106		F	0.2570	2-7/8	4-1/8	10
DR09107		G	0.2610	2-7/8	4-1/8	10
DR09017	17/64		0.2656	2-7/8	4-1/8	10
DR09108		H	0.2660	2-7/8	4-1/8	10
DR09109		I	0.2720	2-7/8	4-1/8	10
DR09110		J	0.2770	2-7/8	4-1/8	10

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR09111		K	0.2810	2-15/16	4-1/4	10
DR09018	9/32		0.2812	2-15/16	4-1/4	10
DR09112		L	0.2900	2-15/16	4-1/4	10
DR09113		M	0.2950	3-1/16	4-3/8	10
DR09019	19/64		0.2969	3-1/16	4-3/8	10
DR09114		N	0.3020	3-1/16	4-3/8	10
DR09020	5/16		0.3125	3-3/16	4-1/2	10
DR09115		O	0.3160	3-3/16	4-1/2	10
DR09116		P	0.3230	3-5/16	4-5/8	10
DR09021	21/64		0.3281	3-5/16	4-5/8	10
DR09117		Q	0.3320	3-7/16	4-3/4	10
DR09118		R	0.3390	3-7/16	4-3/4	5
DR09022	11/32		0.3438	3-7/16	4-3/4	5
DR09119		S	0.3480	3-1/2	4-7/8	5
DR09120		T	0.3580	3-1/2	4-7/8	5
DR09023	23/64		0.3594	3-1/2	4-7/8	5
DR09121		U	0.3680	3-5/8	5	5
DR09024	3/8		0.3750	3-5/8	5	5
DR09122		V	0.3770	3-5/8	5	5
DR09123		W	0.3860	3-3/4	5-1/8	5
DR09025	25/64		0.3906	3-3/4	5-1/8	5
DR09124		X	0.3970	3-3/4	5-1/8	5
DR09125		Y	0.4040	3-7/8	5-1/4	5
DR09026	13/32		0.4062	3-7/8	5-1/4	5
DR09126		Z	0.4130	3-7/8	5-1/4	5
DR09027	27/64		0.4219	3-15/16	5-3/8	5
DR09028	7/16		0.4375	4-1/16	5-1/2	5
DR09029	29/64		0.4531	4-3/16	5-5/8	5
DR09030	15/32		0.4688	4-5/16	5-3/4	5
DR09031	31/64		0.4844	4-3/8	5-7/8	5
DR09032	1/2		0.5000	4-1/2	6	5
DR09033	33/64		0.5156	4-13/16	6-5/8	1
DR09034	17/32		0.5312	4-13/16	6-5/8	1
DR09035	35/64		0.5469	4-13/16	6-5/8	1
DR09036	9/16		0.5625	4-13/16	6-5/8	1
DR09037	37/64		0.5781	4-13/16	6-5/8	1
DR09038	19/32		0.5938	5-3/16	7-1/8	1
DR09039	39/64		0.6094	5-3/16	7-1/8	1
DR09040	5/8		0.6250	5-3/16	7-1/8	1
DR09041	41/64		0.6406	5-3/16	7-1/8	1
DR09042	21/32		0.6562	5-3/16	7-1/8	1
DR09043	43/64		0.6719	5-5/8	7-5/8	1
DR09044	11/16		0.6875	5-5/8	7-5/8	1



Cobalt Jobber Drills - DR90

Jobber Length - Cobalt Metric

- Cobalt Jobber drills offer increased hardness, toughness and better wear resistance compared to regular HSS
- Gold Oxide surface finish provides a polished finish and prevents chip building, galling and welding on a workpiece
- 135 Deg Split Point (self-centering) which eliminates "Walking" and reduces the thrust force
- Cobalt drills are suitable for harder material including alloy steels, Stainless Steel and other difficult to drill materials

Longeur du Jobber - Cobalt Metrique

- Les forets Cobalt Jobber offrent une dureté et une ténacité accrues et une meilleure résistance à l'usure par rapport au HSS ordinaire
- La finition de surface en oxyde d'or offre une finition polie et empêche la formation de copeaux, le grippage et le soudage sur une pièce
- Point de partage à 135 degrés (auto-centrage) qui élimine la «marche» et réduit la force de poussée
- Les forets au cobalt conviennent aux matériaux plus durs, notamment les aciers alliés, l'acier inoxydable et autres matériaux difficiles à percer

CODE	MM	DEC	FLT	OA	PKG
DR90100	1.00	0.0394	12.0	34.0	10
DR90150	1.50	0.0591	18.0	40.0	10
DR90160	1.60	0.0630	20.0	43.0	10
DR90170	1.70	0.0669	20.0	43.0	10
DR90180	1.80	0.0709	22.0	46.0	10
DR90190	1.90	0.0748	22.0	46.0	10
DR90200	2.00	0.0787	24.0	49.0	10
DR90210	2.10	0.0827	24.0	49.0	10
DR90220	2.20	0.0866	27.0	53.0	10
DR90225	2.25	0.0886	27.0	53.0	10
DR90230	2.30	0.0906	27.0	53.0	10
DR90240	2.40	0.0945	30.0	57.0	10
DR90250	2.50	0.0984	30.0	57.0	10
DR90260	2.60	0.1024	30.0	57.0	10
DR90270	2.70	0.1063	33.0	61.0	10
DR90280	2.80	0.0394	33.0	61.0	10
DR90290	2.90	0.0591	33.0	61.0	10
DR90300	3.00	0.0630	33.0	61.0	10
DR90310	3.10	0.0669	36.0	65.0	10
DR90320	3.20	0.0709	36.0	65.0	10
DR90330	3.30	0.0748	36.0	65.0	10
DR90340	3.40	0.0787	39.0	70.0	10
DR90350	3.50	0.1378	39.0	70.0	10
DR90360	3.60	0.1417	39.0	70.0	10
DR90370	3.70	0.1457	39.0	70.0	10
DR90375	3.75	0.1476	39.0	70.0	10

CODE	MM	DEC	FLT	OA	PKG
DR90380	3.80	0.1496	43.0	75.0	10
DR90390	3.90	0.1535	43.0	75.0	10
DR90400	4.00	0.1575	43.0	75.0	10
DR90410	4.10	0.1614	43.0	75.0	10
DR90420	4.20	0.1654	43.0	75.0	10
DR90425	4.25	0.1673	43.0	75.0	10
DR90430	4.30	0.1693	47.0	80.0	10
DR90440	4.40	0.1732	47.0	80.0	10
DR90450	4.50	0.1772	47.0	80.0	10
DR90460	4.60	0.1811	47.0	80.0	10
DR90470	4.70	0.1850	47.0	80.0	10
DR90480	4.80	0.1890	52.0	86.0	10
DR90490	4.90	0.1929	52.0	86.0	10
DR90500	5.00	0.1968	52.0	86.0	10
DR90510	5.10	0.2008	52.0	86.0	10
DR90520	5.20	0.2047	52.0	86.0	10
DR90530	5.30	0.2087	52.0	86.0	10
DR90540	5.40	0.2126	57.0	93.0	10
DR90550	5.50	0.2165	57.0	93.0	10
DR90560	5.60	0.2205	57.0	93.0	10
DR90570	5.70	0.2244	57.0	93.0	10
DR90580	5.80	0.2283	57.0	93.0	10
DR90590	5.90	0.2323	57.0	93.0	10
DR90600	6.00	0.2362	57.0	93.0	10
DR90610	6.10	0.2402	63.0	101.0	10
DR90620	6.20	0.2441	63.0	101.0	10



Cobalt Jobber Drills - DR90

CODE	MM	DEC	FLT	OA	PKG
DR90630	6.30	0.2480	63.0	101.0	10
DR90640	6.40	0.2520	63.0	101.0	10
DR90650	6.50	0.2559	63.0	101.0	10
DR90660	6.60	0.2598	63.0	101.0	10
DR90670	6.70	0.2638	63.0	101.0	10
DR90680	6.80	0.2677	69.0	109.0	10
DR90690	6.90	0.2717	69.0	109.0	10
DR90700	7.00	0.2756	69.0	109.0	10
DR90710	7.10	0.2795	69.0	109.0	10
DR90720	7.20	0.2835	69.0	109.0	10
DR90730	7.30	0.2874	69.0	109.0	10
DR90740	7.40	0.2913	69.0	109.0	10
DR90750	7.50	0.2953	69.0	109.0	10
DR90760	7.60	0.2992	75.0	117.0	10
DR90770	7.70	0.3031	75.0	117.0	10
DR90780	7.80	0.3071	75.0	117.0	10
DR90790	7.90	0.3110	75.0	117.0	10
DR90800	8.00	0.3150	75.0	117.0	10
DR90810	8.10	0.3189	75.0	117.0	10
DR90820	8.20	0.3228	75.0	117.0	10
DR90830	8.30	0.3268	75.0	117.0	10
DR90840	8.40	0.3307	75.0	117.0	10
DR90850	8.50	0.3346	75.0	117.0	10
DR90860	8.60	0.3386	75.0	117.0	10
DR90870	8.70	0.3425	81.0	125.0	5
DR90880	8.80	0.3465	81.0	125.0	5
DR90890	8.90	0.3504	81.0	125.0	5
DR90900	9.00	0.3543	81.0	125.0	5
DR90910	9.10	0.3583	81.0	125.0	5
DR90920	9.20	0.3622	81.0	125.0	5
DR90930	9.30	0.3661	81.0	125.0	5
DR90940	9.40	0.3701	81.0	125.0	5
DR90950	9.50	0.3740	81.0	125.0	5
DR90960	9.60	0.3780	87.0	133.0	5
DR90970	9.70	0.3819	87.0	133.0	5
DR90980	9.80	0.3858	87.0	133.0	5

CODE	MM	DEC	FLT	OA	PKG
DR90990	9.90	0.3898	87.0	133.0	5
DR91000	10.00	0.3937	87.0	133.0	5
DR91010	10.10	0.3976	87.0	133.0	5
DR91020	10.20	0.4016	87.0	133.0	5
DR91030	10.30	0.4055	87.0	133.0	5
DR91040	10.40	0.4094	87.0	133.0	5
DR91050	10.50	0.4134	87.0	133.0	5
DR91060	10.60	0.4173	87.0	133.0	5
DR91070	10.70	0.4213	94.0	142.0	5
DR91080	10.80	0.4252	94.0	142.0	5
DR91090	10.90	0.4291	94.0	142.0	5
DR91100	11.00	0.4331	94.0	142.0	5
DR91111	11.10	0.4370	94.0	142.0	5
DR91112	11.20	0.4409	94.0	142.0	5
DR91113	11.30	0.4449	94.0	142.0	5
DR91114	11.40	0.4488	94.0	142.0	5
DR91115	11.50	0.4528	94.0	142.0	5
DR91116	11.60	0.4567	94.0	142.0	5
DR91117	11.70	0.4606	94.0	142.0	5
DR91118	11.80	0.4646	94.0	142.0	5
DR91119	11.90	0.4685	101.0	151.0	5
DR91120	12.00	0.4724	101.0	151.0	5
DR91121	12.10	0.4764	101.0	151.0	5
DR91122	12.20	0.4803	101.0	151.0	5
DR91123	12.30	0.4843	101.0	151.0	5
DR91124	12.40	0.4882	101.0	151.0	5
DR91125	12.50	0.4921	101.0	151.0	1
DR91130	13.00	0.5118	101.0	151.0	1
DR91135	13.50	0.5315	101.0	151.0	1
DR91140	14.00	0.5512	101.0	151.0	1
DR91145	14.50	0.5709	114.0	169.0	1
DR91150	15.00	0.5906	114.0	169.0	1
DR91155	15.50	0.6102	120.0	178.0	1
DR91160	16.00	0.6299	120.0	178.0	1



Parabolic Flute Drills - DR11

Jobber Length - Parabolic Flute

- Cobalt Jobber drills offer increased hardness, toughness and better wear resistance compared to regular HSS
- Bright surface finish provides a polished finish and prevents chip building, galling and welding on a workpiece
- 135 Deg Split Point (self-centering) which eliminates "Walking" and reduces the thrust force needed
- Parabolic flute design facilitates effective chip evacuation for deep hole drilling
- Suitable for a wide range of Ferrous and Non-Ferrous materials

Forets Paraboliques - Longueur du Jobber

- Les forets Cobalt Jobber offrent une dureté et une ténacité accrues et une meilleure résistance à l'usure par rapport au HSS ordinaire
- La finition de surface brillante d'or offre une finition polie et empêche la formation de copeaux, le grippage et le soudage sur une pièce
- Point de partage à 135 degrés (auto-centrage) qui élimine la «marche» et réduit la force de poussée nécessaire
- La conception de la flûte parabolique facilite l'évacuation efficace des copeaux pour le forage de trous profonds

CODE	FRAC	MM	DEC	FLT	OA	PKG
DR11630		3.00	0.1181	33.0	61.0	10
DR11631		3.10	0.1220	36.0	65.0	10
DR11008	1/8		0.1250	36.0	65.0	10
DR11632		3.20	0.1260	36.0	65.0	10
DR11633		3.30	0.1299	36.0	65.0	10
DR11634		3.40	0.1339	39.0	70.0	10
DR11635		3.50	0.1378	39.0	70.0	10
DR11009	9/64		0.1406	39.0	70.0	10
DR11636		3.60	0.1417	39.0	70.0	10
DR11637		3.70	0.1457	39.0	70.0	10
DR11638		3.80	0.1496	43.0	75.0	10
DR11639		3.90	0.1535	43.0	75.0	10
DR11010	5/32		0.1562	43.0	75.0	10
DR11640		4.00	0.1575	43.0	75.0	10
DR11641		4.10	0.1614	43.0	75.0	10
DR11642		4.20	0.1654	43.0	75.0	10
DR11643		4.30	0.1693	47.0	80.0	10
DR11011	11/64		0.1719	47.0	80.0	10
DR11644		4.40	0.1732	47.0	80.0	10
DR11645		4.50	0.1772	47.0	80.0	10
DR11646		4.60	0.1811	47.0	80.0	10
DR11647		4.70	0.1850	47.0	80.0	10
DR11012	3/16		0.1875	52.0	86.0	10
DR11648		4.80	0.1890	52.0	86.0	10
DR11649		4.90	0.1929	52.0	86.0	10
DR11650		5.00	0.1968	52.0	86.0	10
DR11651		5.10	0.2008	52.0	86.0	10
DR11013	13/64		0.2031	52.0	86.0	10

CODE	FRAC	MM	DEC	FLT	OA	PKG
DR11652		5.20	0.2047	52.0	86.0	10
DR11653		5.30	0.2087	52.0	86.0	10
DR11654		5.40	0.2126	57.0	93.0	10
DR11655		5.50	0.2165	57.0	93.0	10
DR11014	7/32		0.2188	57.0	93.0	10
DR11656		5.60	0.2205	57.0	93.0	10
DR11657		5.70	0.2244	57.0	93.0	10
DR11658		5.80	0.2283	57.0	93.0	10
DR11659		5.90	0.2323	57.0	93.0	10
DR11015	15/64		0.2344	57.0	93.0	10
DR11660		6.00	0.2362	57.0	93.0	10
DR11661		6.10	0.2402	63.0	101.0	10
DR11662		6.20	0.2441	63.0	101.0	10
DR11663		6.30	0.2480	63.0	101.0	10
DR11016	1/4		0.2500	63.0	101.0	10
DR11664		6.40	0.2520	63.0	101.0	10
DR11665		6.50	0.2559	63.0	101.0	10
DR11666		6.60	0.2598	63.0	101.0	10
DR11667		6.70	0.2638	63.0	101.0	10
DR11017	17/64		0.2656	69.0	109.0	10
DR11668		6.80	0.2677	69.0	109.0	10
DR11669		6.90	0.2717	69.0	109.0	10
DR11670		7.00	0.2756	69.0	109.0	10
DR11671		7.10	0.2795	69.0	109.0	10
DR11018	9/32		0.2812	69.0	109.0	10
DR11672		7.20	0.2835	69.0	109.0	10
DR11673		7.30	0.2874	69.0	109.0	10
DR11674		7.40	0.2913	69.0	109.0	10



Parabolic Flute Drills - DR11

CODE	FRAC	MM	DEC	FLT	OA	PKG
DR11675		7.50	0.2953	69.0	109.0	10
DR11019	19/64		0.2969	75.0	117.0	10
DR11676		7.60	0.2992	75.0	117.0	10
DR11677		7.70	0.3031	75.0	117.0	10
DR11678		7.80	0.3071	75.0	117.0	10
DR11679		7.90	0.3110	75.0	117.0	10
DR11020	5/16		0.3125	75.0	117.0	10
DR11680		8.00	0.3150	75.0	117.0	10
DR11681		8.10	0.3189	75.0	117.0	10
DR11682		8.20	0.3228	75.0	117.0	10
DR11683		8.30	0.3268	75.0	117.0	10
DR11021	21/64		0.3281	75.0	117.0	10
DR11684		8.40	0.3307	75.0	117.0	10
DR11685		8.50	0.3346	75.0	117.0	10
DR11686		8.60	0.3386	81.0	125.0	5
DR11687		8.70	0.3425	81.0	125.0	5
DR11022	11/32		0.3438	81.0	125.0	5
DR11688		8.80	0.3465	81.0	125.0	5
DR11689		8.90	0.3504	81.0	125.0	5
DR11690		9.00	0.3543	81.0	125.0	5
DR11691		9.10	0.3583	81.0	125.0	5
DR11023	23/64		0.3594	81.0	125.0	5
DR11692		9.20	0.3622	81.0	125.0	5
DR11693		9.30	0.3661	81.0	125.0	5
DR11694		9.40	0.3701	81.0	125.0	5
DR11695		9.50	0.3740	81.0	125.0	5
DR11024	3/8		0.3750	87.0	133.0	5
DR11696		9.60	0.3780	87.0	133.0	5
DR11697		9.70	0.3819	87.0	133.0	5
DR11698		9.80	0.3858	87.0	133.0	5
DR11699		9.90	0.3898	87.0	133.0	5
DR11025	25/64		0.3906	87.0	133.0	5

CODE	FRAC	MM	DEC	FLT	OA	PKG
DR11700		10.00	0.3937	87.0	133.0	5
DR11701		10.10	0.3976	87.0	133.0	5
DR11702		10.20	0.4016	87.0	133.0	5
DR11703		10.30	0.4055	87.0	133.0	5
DR11026	13/32		0.4062	87.0	133.0	5
DR11704		10.40	0.4094	87.0	133.0	5
DR11705		10.50	0.4134	87.0	133.0	5
DR11706		10.60	0.4173	87.0	133.0	5
DR11707		10.70	0.4213	94.0	142.0	5
DR11027	27/64		0.4219	94.0	142.0	5
DR11708		10.80	0.4252	94.0	142.0	5
DR11709		10.90	0.4291	94.0	142.0	5
DR11710		11.00	0.4331	94.0	142.0	5
DR11711		11.10	0.4370	94.0	142.0	5
DR11028	7/16		0.4375	94.0	142.0	5
DR11712		11.20	0.4409	94.0	142.0	5
DR11713		11.30	0.4449	94.0	142.0	5
DR11714		11.40	0.4488	94.0	142.0	5
DR11715		11.50	0.4528	94.0	142.0	5
DR11029	29/64		0.4531	94.0	142.0	5
DR11716		11.60	0.4567	94.0	142.0	5
DR11717		11.70	0.4606	94.0	142.0	5
DR11718		11.80	0.4646	94.0	142.0	5
DR11719		11.90	0.4685	101.0	151.0	5
DR11030	15/32		0.4688	101.0	151.0	5
DR11720		12.00	0.4724	101.0	151.0	5
DR11031	31/64		0.4844	101.0	151.0	5
DR11725		12.50	0.4921	101.0	151.0	5
DR11032	1/2		0.5000	101.0	151.0	5
DR11730		13.00	0.5118	101.0	151.0	5

Parabolic Flute Drills - DR11T



Jobber Length - Parabolic Flute TiN Coated

- Cobalt Jobber drills offer increased hardness, toughness and better wear resistance compared to regular HSS
- 135 Deg Split Point (self-centering) which eliminates "Walking" and reduces the thrust force needed
- Titanium Nitride (TiN) coating increases wear and heat resistance while improving chip flow and higher lubricity
- Parabolic flute design facilitates effective chip evacuation for deeper hole drilling
- Suitable for Steel, Stainless Steel

Forets Paraboliques - Longueur du Jobber TiN

- Les forets Cobalt Jobber offrent une dureté et une ténacité accrues et une meilleure résistance à l'usure par rapport au HSS ordinaire
- Point de partage à 135 degrés (auto-centrage) qui élimine la «marche» et réduit la force de poussée nécessaire
- Le revêtement en nitrure de titane (TiN) augmente la résistance à l'usure et à la chaleur tout en améliorant l'écoulement des copeaux et un pouvoir lubrifiant plus élevé
- La conception de la flûte parabolique facilite l'évacuation efficace des copeaux pour le forage de trous plus profonds

CODE	FRAC	MM	DEC	FLT	OA	PKG
DR11830		3.00	0.1181	33.0	61.0	10
DR11831		3.10	0.1220	36.0	65.0	10
DR11508	1/8		0.1250	36.0	65.0	10
DR11832		3.20	0.1260	36.0	65.0	10
DR11833		3.30	0.1299	36.0	65.0	10
DR11834		3.40	0.1339	39.0	70.0	10
DR11835		3.50	0.1378	39.0	70.0	10
DR11509	9/64		0.1406	39.0	70.0	10
DR11836		3.60	0.1417	39.0	70.0	10
DR11837		3.70	0.1457	39.0	70.0	10
DR11838		3.80	0.1496	43.0	75.0	10
DR11839		3.90	0.1535	43.0	75.0	10
DR11510	5/32		0.1562	43.0	75.0	10
DR11840		4.00	0.1575	43.0	75.0	10
DR11841		4.10	0.1614	43.0	75.0	10
DR11842		4.20	0.1654	43.0	75.0	10
DR11843		4.30	0.1693	47.0	80.0	10
DR11511	11/64		0.1719	47.0	80.0	10
DR11844		4.40	0.1732	47.0	80.0	10
DR11845		4.50	0.1772	47.0	80.0	10
DR11846		4.60	0.1811	47.0	80.0	10
DR11847		4.70	0.1850	47.0	80.0	10
DR11512	3/16		0.1875	52.0	86.0	10
DR11848		4.80	0.1890	52.0	86.0	10
DR11849		4.90	0.1929	52.0	86.0	10
DR11850		5.00	0.1968	52.0	86.0	10

CODE	FRAC	MM	DEC	FLT	OA	PKG
DR11851		5.10	0.2008	52.0	86.0	10
DR11513	13/64		0.2031	52.0	86.0	10
DR11852		5.20	0.2047	52.0	86.0	10
DR11853		5.30	0.2087	52.0	86.0	10
DR11854		5.40	0.2126	57.0	93.0	10
DR11855		5.50	0.2165	57.0	93.0	10
DR11514	7/32		0.2188	57.0	93.0	10
DR11856		5.60	0.2205	57.0	93.0	10
DR11857		5.70	0.2244	57.0	93.0	10
DR11858		5.80	0.2283	57.0	93.0	10
DR11859		5.90	0.2323	57.0	93.0	10
DR11515	15/64		0.2344	57.0	93.0	10
DR11860		6.00	0.2362	57.0	93.0	10
DR11861		6.10	0.2402	63.0	101.0	10
DR11862		6.20	0.2441	63.0	101.0	10
DR11863		6.30	0.2480	63.0	101.0	10
DR11516	1/4		0.2500	63.0	101.0	10
DR11864		6.40	0.2520	63.0	101.0	10
DR11865		6.50	0.2559	63.0	101.0	10
DR11866		6.60	0.2598	63.0	101.0	10
DR11867		6.70	0.2638	63.0	101.0	10
DR11517	17/64		0.2656	69.0	109.0	10
DR11868		6.80	0.2677	69.0	109.0	10
DR11869		6.90	0.2717	69.0	109.0	10
DR11870		7.00	0.2756	69.0	109.0	10
DR11871		7.10	0.2795	69.0	109.0	10

Parabolic Flute Drills - DR11T



CODE	FRAC	MM	DEC	FLT	OA	PKG
DR11518	9/32		0.2812	69.0	109.0	10
DR11872		7.20	0.2835	69.0	109.0	10
DR11873		7.30	0.2874	69.0	109.0	10
DR11874		7.40	0.2913	69.0	109.0	10
DR11875		7.50	0.2953	69.0	109.0	10
DR11519	19/64		0.2969	75.0	117.0	10
DR11876		7.60	0.2992	75.0	117.0	10
DR11877		7.70	0.3031	75.0	117.0	10
DR11878		7.80	0.3071	75.0	117.0	10
DR11879		7.90	0.3110	75.0	117.0	10
DR11520	5/16		0.3125	75.0	117.0	10
DR11880		8.00	0.3150	75.0	117.0	10
DR11881		8.10	0.3189	75.0	117.0	10
DR11882		8.20	0.3228	75.0	117.0	10
DR11883		8.30	0.3268	75.0	117.0	10
DR11521	21/64		0.3281	75.0	117.0	10
DR11884		8.40	0.3307	75.0	117.0	10
DR11885		8.50	0.3346	75.0	117.0	10
DR11886		8.60	0.3386	81.0	125.0	5
DR11887		8.70	0.3425	81.0	125.0	5
DR11522	11/32		0.3438	81.0	125.0	5
DR11888		8.80	0.3465	81.0	125.0	5
DR11889		8.90	0.3504	81.0	125.0	5
DR11890		9.00	0.3543	81.0	125.0	5
DR11891		9.10	0.3583	81.0	125.0	5
DR11523	23/64		0.3594	81.0	125.0	5
DR11892		9.20	0.3622	81.0	125.0	5
DR11893		9.30	0.3661	81.0	125.0	5
DR11894		9.40	0.3701	81.0	125.0	5
DR11895		9.50	0.3740	81.0	125.0	5
DR11524	3/8		0.3750	87.0	133.0	5
DR11896		9.60	0.3780	87.0	133.0	5
DR11897		9.70	0.3819	87.0	133.0	5
DR11898		9.80	0.3858	87.0	133.0	5

CODE	FRAC	MM	DEC	FLT	OA	PKG
DR11899		9.90	0.3898	87.0	133.0	5
DR11525	25/64		0.3906	87.0	133.0	5
DR11900		10.00	0.3937	87.0	133.0	5
DR11901		10.10	0.3976	87.0	133.0	5
DR11902		10.20	0.4016	87.0	133.0	5
DR11903		10.30	0.4055	87.0	133.0	5
DR11526	13/32		0.4062	87.0	133.0	5
DR11904		10.40	0.4094	87.0	133.0	5
DR11905		10.50	0.4134	87.0	133.0	5
DR11906		10.60	0.4173	87.0	133.0	5
DR11907		10.70	0.4213	94.0	142.0	5
DR11527	27/64		0.4219	94.0	142.0	5
DR11908		10.80	0.4252	94.0	142.0	5
DR11909		10.90	0.4291	94.0	142.0	5
DR11910		11.00	0.4331	94.0	142.0	5
DR11911		11.10	0.4370	94.0	142.0	5
DR11528	7/16		0.4375	94.0	142.0	5
DR11912		11.20	0.4409	94.0	142.0	5
DR11913		11.30	0.4449	94.0	142.0	5
DR11914		11.40	0.4488	94.0	142.0	5
DR11915		11.50	0.4528	94.0	142.0	5
DR11529	29/64		0.4531	94.0	142.0	5
DR11916		11.60	0.4567	94.0	142.0	5
DR11917		11.70	0.4606	94.0	142.0	5
DR11918		11.80	0.4646	94.0	142.0	5
DR11919		11.90	0.4685	101.0	151.0	5
DR11530	15/32		0.4688	101.0	151.0	5
DR11920		12.00	0.4724	101.0	151.0	5
DR11531	31/64		0.4844	101.0	151.0	5
DR11925		12.50	0.4921	101.0	151.0	5
DR11532	1/2		0.5000	101.0	151.0	5
DR11930		13.00	0.5118	101.0	151.0	5



Two Tone Drills - DR02

Jobber Length - Fractional

- HSS
- 135 Deg Split Point (self-centering) which eliminates "Walking" and reduces the thrust force needed
- Black and Gold surface treatment for maximum lubricity
- Ideal for hand drilling and machine applications
- Excellent choice for Steel and Stainless Steel

Longueur du Jobber - Fractionnel

- HSS
- Point de partage à 135 degrés (auto-centrage) qui élimine la «marche» et réduit la force de poussée nécessaire
- Traitement de surface noir et or pour un pouvoir lubrifiant maximal
- Idéal pour le perçage manuel et les applications de machines
- Excellent choix pour l'acier et l'acier inoxydable

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR02280		80	0.0135	5/32	3/4	10
DR02279		79	0.0145	5/32	3/4	10
DR02001	1/64		0.0156	3/16	13/16	10
DR02278		78	0.0160	3/16	13/16	10
DR02277		77	0.0180	3/16	13/16	10
DR02276		76	0.0200	1/4	7/8	10
DR02275		75	0.0210	9/32	15/16	10
DR02274		74	0.0225	9/32	15/16	10
DR02273		73	0.0240	5/16	1	10
DR02272		72	0.0250	5/16	1	10
DR02271		71	0.0260	5/16	1	10
DR02270		70	0.0280	11/32	1-1/8	10
DR02269		69	0.0292	11/32	1-1/8	10
DR02268		68	0.0310	13/32	1-3/16	10
DR02002	1/32		0.0312	13/32	1-3/16	10
DR02267		67	0.0320	13/32	1-3/16	10
DR02266		66	0.0330	13/32	1-3/16	10
DR02265		65	0.0350	7/16	1-1/4	10
DR02264		64	0.0360	7/16	1-1/4	10
DR02263		63	0.0370	7/16	1-1/4	10
DR02262		62	0.0380	15/32	1-5/16	10
DR02261		61	0.0390	15/32	1-5/16	10
DR02260		60	0.0400	11/16	1-5/8	10
DR02259		59	0.0410	11/16	1-5/8	10
DR02258		58	0.0420	11/16	1-5/8	10
DR02257		57	0.0430	3/4	1-3/4	10
DR02256		56	0.0465	3/4	1-3/4	10
DR02003	3/64		0.0469	7/8	1-7/8	10
DR02255		55	0.0520	7/8	1-7/8	10
DR02254		54	0.0550	7/8	1-7/8	10
DR02253		53	0.0595	7/8	1-7/8	10
DR02004	1/16		0.0625	7/8	1-7/8	10
DR02252		52	0.0635	7/8	1-7/8	10
DR02251		51	0.0670	1	2	10

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR02250		50	0.0700	1	2	10
DR02249		49	0.0730	1	2	10
DR02248		48	0.0760	1	2	10
DR02005	5/64		0.0781	1	2	10
DR02247		47	0.0785	1	2	10
DR02246		46	0.0810	1-1/8	2-1/8	10
DR02245		45	0.0820	1-1/8	2-1/8	10
DR02244		44	0.0860	1-1/8	2-1/8	10
DR02243		43	0.0890	1-1/4	2-1/4	10
DR02242		42	0.0935	1-1/4	2-1/4	10
DR02006	3/32		0.0938	1-1/4	2-1/4	10
DR02241		41	0.0960	1-3/8	2-3/8	10
DR02240		40	0.0980	1-3/8	2-3/8	10
DR02239		39	0.0995	1-3/8	2-3/8	10
DR02238		38	0.1015	1-7/16	2-1/2	10
DR02237		37	0.1040	1-7/16	2-1/2	10
DR02236		36	0.1065	1-7/16	2-1/2	10
DR02007	7/64		0.1094	1-1/2	2-5/8	10
DR02235		35	0.1100	1-1/2	2-5/8	10
DR02234		34	0.1110	1-1/2	2-5/8	10
DR02233		33	0.1130	1-1/2	2-5/8	10
DR02232		32	0.1160	1-5/8	2-3/4	10
DR02231		31	0.1200	1-5/8	2-3/4	10
DR02008	1/8		0.1250	1-5/8	2-3/4	10
DR02230		30	0.1285	1-5/8	2-3/4	10
DR02229		29	0.1360	1-3/4	2-7/8	10
DR02228		28	0.1405	1-3/4	2-7/8	10
DR02009	9/64		0.1406	1-3/4	2-7/8	10
DR02227		27	0.1440	1-7/8	3	10
DR02226		26	0.1470	1-7/8	3	10
DR02225		25	0.1495	1-7/8	3	10
DR02224		24	0.1520	2	3-1/8	10
DR02223		23	0.1540	2	3-1/8	10
DR02010	5/32		0.1562	2	3-1/8	10



Two Tone Drills - DR02

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR02222		22	0.1570	2	3-1/8	10
DR02221		21	0.1590	2-1/8	3-1/4	10
DR02220		20	0.1610	2-1/8	3-1/4	10
DR02219		19	0.1660	2-1/8	3-1/4	10
DR02218		18	0.1695	2-1/8	3-1/4	10
DR02011	11/64		0.1719	2-1/8	3-1/4	10
DR02217		17	0.1730	2-3/16	3-3/8	10
DR02216		16	0.1770	2-3/16	3-3/8	10
DR02215		15	0.1800	2-3/16	3-3/8	10
DR02214		14	0.1820	2-3/16	3-3/8	10
DR02213		13	0.1850	2-5/16	3-1/2	10
DR02012	3/16		0.1875	2-5/16	3-1/2	10
DR02212		12	0.1890	2-5/16	3-1/2	10
DR02211		11	0.1910	2-5/16	3-1/2	10
DR02210		10	0.1935	2-7/16	3-5/8	10
DR02209		9	0.1960	2-7/16	3-5/8	10
DR02208		8	0.1990	2-7/16	3-5/8	10
DR02207		7	0.2010	2-7/16	3-5/8	10
DR02013	13/64		0.2031	2-7/16	3-5/8	10
DR02206		6	0.2040	2-1/2	3-3/4	10
DR02205		5	0.2055	2-1/2	3-3/4	10
DR02204		4	0.2090	2-1/2	3-3/4	10
DR02203		3	0.2130	2-1/2	3-3/4	10
DR02014	7/32		0.2188	2-1/2	3-3/4	10
DR02202		2	0.2210	2-5/8	3-7/8	10
DR02201		1	0.2280	2-5/8	3-7/8	10
DR02101		A	0.2340	2-5/8	3-7/8	10
DR02015	15/64		0.2344	2-5/8	3-7/8	10
DR02102		B	0.2380	2-3/4	4	10
DR02103		C	0.2420	2-3/4	4	10
DR02104		D	0.2460	2-3/4	4	10
DR02016	1/4	E	0.2500	2-3/4	4	10
DR02106		F	0.2570	2-7/8	4-1/8	10
DR02107		G	0.2610	2-7/8	4-1/8	10
DR02017	17/64		0.2656	2-7/8	4-1/8	10
DR02108		H	0.2660	2-7/8	4-1/8	10
DR02109		I	0.2720	2-7/8	4-1/8	10
DR02110		J	0.2770	2-7/8	4-1/8	10
DR02111		K	0.2810	2-15/16	4-1/4	10
DR02018	9/32		0.2812	2-15/16	4-1/4	10
DR02112		L	0.2900	2-15/16	4-1/4	10
DR02113		M	0.2950	3-1/16	4-3/8	10

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR02019	19/64		0.2969	3-1/16	4-3/8	10
DR02114		N	0.3020	3-1/16	4-3/8	10
DR02020	5/16		0.3125	3-3/16	4-1/2	10
DR02115		O	0.3160	3-3/16	4-1/2	10
DR02116		P	0.3230	3-5/16	4-5/8	10
DR02021	21/64		0.3281	3-5/16	4-5/8	10
DR02117		Q	0.3320	3-7/16	4-3/4	10
DR02118		R	0.3390	3-7/16	4-3/4	5
DR02022	11/32		0.3438	3-7/16	4-3/4	5
DR02119		S	0.3480	3-1/2	4-7/8	5
DR02120		T	0.3580	3-1/2	4-7/8	5
DR02023	23/64		0.3594	3-1/2	4-7/8	5
DR02121		U	0.3680	3-5/8	5	5
DR02024	3/8		0.3750	3-5/8	5	5
DR02122		V	0.3770	3-5/8	5	5
DR02123		W	0.3860	3-3/4	5-1/8	5
DR02025	25/64		0.3906	3-3/4	5-1/8	5
DR02124		X	0.3970	3-3/4	5-1/8	5
DR02125		Y	0.4040	3-7/8	5-1/4	5
DR02026	13/32		0.4062	3-7/8	5-1/4	5
DR02126		Z	0.4130	3-7/8	5-1/4	5
DR02027	27/64		0.4219	3-15/16	5-3/8	5
DR02028	7/16		0.4375	4-1/16	5-1/2	5
DR02029	29/64		0.4531	4-3/16	5-5/8	5
DR02030	15/32		0.4688	4-5/16	5-3/4	5
DR02031	31/64		0.4844	4-3/8	5-7/8	5
DR02032	1/2		0.5000	4-1/2	6	5
DR02033	33/64		0.5156	4-13/16	6-5/8	1
DR02034	17/32		0.5312	4-13/16	6-5/8	1
DR02035	35/64		0.5469	4-13/16	6-5/8	1
DR02036	9/16		0.5625	4-13/16	6-5/8	1
DR02037	37/64		0.5781	4-13/16	6-5/8	1
DR02038	19/32		0.5938	5-3/16	7-1/8	1
DR02039	39/64		0.6094	5-3/16	7-1/8	1
DR02040	5/8		0.6250	5-3/16	7-1/8	1
DR02041	41/64		0.6406	5-3/16	7-1/8	1
DR02042	21/32		0.6562	5-3/16	7-1/8	1
DR02043	43/64		0.6719	5-5/8	7-5/8	1
DR02044	11/16		0.6875	5-5/8	7-5/8	1
DR02048	3/4		0.7500	5-1/2	8-1/16	1



Two Tone Drills - DR04 • DR05

Jobber Length - Metric

- HSS
- 135 Deg Split Point (self-centering) which eliminates "Walking" and reduces the thrust force needed
- Black and Gold surface treatment for maximum lubricity
- Ideal for hand drilling and machine applications
- Excellent choice for Steel and Stainless Steel

CODE	MM	DEC	FLT	OA	PKG
DR04030	0.30	0.0118	4.0	19.0	10
DR04035	0.35	0.0138	4.0	19.0	10
DR04038	0.38	0.0150	4.0	19.0	10
DR04040	0.40	0.0157	5.0	20.0	10
DR04042	0.42	0.0165	5.0	20.0	10
DR04045	0.45	0.0177	5.0	20.0	10
DR04050	0.50	0.0197	6.0	22.0	10
DR04052	0.52	0.0205	6.0	22.0	10
DR04055	0.55	0.0217	7.0	24.0	10
DR04058	0.58	0.0228	7.0	24.0	10
DR04060	0.60	0.0236	7.0	24.0	10
DR04062	0.62	0.0244	8.0	26.0	10
DR04065	0.65	0.0256	8.0	26.0	10
DR04068	0.68	0.0268	9.0	28.0	10
DR04070	0.70	0.0276	9.0	28.0	10
DR04075	0.75	0.0295	9.0	28.0	10
DR04078	0.78	0.0307	10.0	30.0	10
DR04080	0.80	0.0315	10.0	30.0	10
DR04085	0.85	0.0335	10.0	30.0	10
DR04088	0.88	0.0346	11.0	32.0	10
DR04090	0.90	0.0354	11.0	32.0	10
DR04092	0.92	0.0362	11.0	32.0	10
DR04095	0.95	0.0374	11.0	32.0	10
DR04098	0.98	0.0386	12.0	34.0	10
DR04100	1.00	0.0394	12.0	34.0	10
DR04105	1.05	0.0413	12.0	34.0	10
DR04110	1.10	0.0433	14.0	36.0	10
DR04115	1.15	0.0453	14.0	36.0	10
DR04120	1.20	0.0472	16.0	38.0	10
DR04125	1.25	0.0492	16.0	38.0	10
DR04130	1.30	0.0512	16.0	38.0	10
DR04135	1.35	0.0531	18.0	40.0	10
DR04140	1.40	0.0551	18.0	40.0	10
DR04145	1.45	0.0571	18.0	40.0	10

Longeur du Jobber - Metrique

- HSS
- Point de partage à 135 degrés (auto-centrage) qui élimine la «marche» et réduit la force de poussée nécessaire
- Traitement de surface noir et or pour un pouvoir lubrifiant maximal
- Idéal pour le perçage manuel et les applications de machines
- Excellent choix pour l'acier et l'acier inoxydable

CODE	MM	DEC	FLT	OA	PKG
DR04150	1.50	0.0591	18.0	40.0	10
DR04155	1.55	0.0610	20.0	43.0	10
DR04160	1.60	0.0630	20.0	43.0	10
DR04165	1.65	0.0650	20.0	43.0	10
DR04170	1.70	0.0669	20.0	43.0	10
DR04175	1.75	0.0689	22.0	46.0	10
DR04180	1.80	0.0709	22.0	46.0	10
DR04185	1.85	0.0728	22.0	46.0	10
DR04190	1.90	0.0748	22.0	46.0	10
DR04195	1.95	0.0768	24.0	49.0	10
DR04200	2.00	0.0787	24.0	49.0	10
DR04205	2.05	0.0807	24.0	49.0	10
DR04210	2.10	0.0827	24.0	49.0	10
DR04215	2.15	0.0846	27.0	53.0	10
DR04220	2.20	0.0866	27.0	53.0	10
DR04225	2.25	0.0886	27.0	53.0	10
DR04230	2.30	0.0906	27.0	53.0	10
DR04235	2.35	0.0925	27.0	53.0	10
DR04240	2.40	0.0945	30.0	57.0	10
DR04245	2.45	0.0965	30.0	57.0	10
DR04250	2.50	0.0984	30.0	57.0	10
DR04255	2.55	0.1004	30.0	57.0	10
DR04260	2.60	0.1024	30.0	57.0	10
DR04265	2.65	0.1043	30.0	57.0	10
DR04270	2.70	0.1063	33.0	61.0	10
DR04275	2.75	0.1083	33.0	61.0	10
DR04280	2.80	0.1102	33.0	61.0	10
DR04285	2.85	0.1122	33.0	61.0	10
DR04290	2.90	0.1142	33.0	61.0	10
DR04295	2.95	0.1161	33.0	61.0	10
DR04300	3.00	0.1181	33.0	61.0	10
DR04305	3.05	0.1201	36.0	65.0	10
DR04310	3.10	0.1220	36.0	65.0	10
DR04315	3.15	0.1240	36.0	65.0	10



Two Tone Drills - DR04 • DR05

CODE	MM	DEC	FLT	OA	PKG
DR04320	3.20	0.1260	36.0	65.0	10
DR04325	3.25	0.1280	36.0	65.0	10
DR04330	3.30	0.1299	36.0	65.0	10
DR04340	3.40	0.1339	39.0	70.0	10
DR04345	3.45	0.1358	39.0	70.0	10
DR04350	3.50	0.1378	39.0	70.0	10
DR04355	3.55	0.1398	39.0	70.0	10
DR04360	3.60	0.1417	39.0	70.0	10
DR04365	3.65	0.1437	39.0	70.0	10
DR04370	3.70	0.1457	39.0	70.0	10
DR04375	3.75	0.1476	39.0	70.0	10
DR04380	3.80	0.1496	43.0	75.0	10
DR04385	3.85	0.1516	43.0	75.0	10
DR04390	3.90	0.1535	43.0	75.0	10
DR04395	3.95	0.1555	43.0	75.0	10
DR04400	4.00	0.1575	43.0	75.0	10
DR04405	4.05	0.1594	43.0	75.0	10
DR04410	4.10	0.1614	43.0	75.0	10
DR04420	4.20	0.1654	43.0	75.0	10
DR04425	4.25	0.1673	43.0	75.0	10
DR04430	4.30	0.1693	47.0	80.0	10
DR04440	4.40	0.1732	47.0	80.0	10
DR04450	4.50	0.1772	47.0	80.0	10
DR04455	4.55	0.1791	47.0	80.0	10
DR04460	4.60	0.1811	47.0	80.0	10
DR04470	4.70	0.1850	47.0	80.0	10
DR04475	4.75	0.1870	47.0	80.0	10
DR04480	4.80	0.1890	52.0	86.0	10
DR04485	4.85	0.1909	52.0	86.0	10
DR04490	4.90	0.1929	52.0	86.0	10
DR04495	4.95	0.1949	52.0	86.0	10
DR04500	5.00	0.1968	52.0	86.0	10
DR04510	5.10	0.2008	52.0	86.0	10
DR04520	5.20	0.2047	52.0	86.0	10
DR04525	5.25	0.2067	52.0	86.0	10
DR04530	5.30	0.2087	52.0	86.0	10
DR04540	5.40	0.2126	57.0	93.0	10
DR04550	5.50	0.2165	57.0	93.0	10
DR04560	5.60	0.2205	57.0	93.0	10
DR04570	5.70	0.2244	57.0	93.0	10

CODE	MM	DEC	FLT	OA	PKG
DR04575	5.75	0.2264	57.0	93.0	10
DR04580	5.80	0.2283	57.0	93.0	10
DR04590	5.90	0.2323	57.0	93.0	10
DR04600	6.00	0.2362	57.0	93.0	10
DR04610	6.10	0.2402	63.0	101.0	10
DR04620	6.20	0.2441	63.0	101.0	10
DR04625	6.25	0.2461	63.0	101.0	10
DR04630	6.30	0.2480	63.0	101.0	10
DR04640	6.40	0.2520	63.0	101.0	10
DR04650	6.50	0.2559	63.0	101.0	10
DR04660	6.60	0.2598	63.0	101.0	10
DR04670	6.70	0.2638	63.0	101.0	10
DR04675	6.75	0.2657	69.0	109.0	10
DR04680	6.80	0.2677	69.0	109.0	10
DR04690	6.90	0.2717	69.0	109.0	10
DR04700	7.00	0.2756	69.0	109.0	10
DR04710	7.10	0.2795	69.0	109.0	10
DR04720	7.20	0.2835	69.0	109.0	10
DR04725	7.25	0.2854	69.0	109.0	10
DR04730	7.30	0.2874	69.0	109.0	10
DR04740	7.40	0.2913	69.0	109.0	10
DR04750	7.50	0.2953	69.0	109.0	10
DR04760	7.60	0.2992	75.0	117.0	10
DR04770	7.70	0.3031	75.0	117.0	10
DR04775	7.75	0.3051	75.0	117.0	10
DR04780	7.80	0.3071	75.0	117.0	10
DR04790	7.90	0.3110	75.0	117.0	10
DR04800	8.00	0.3150	75.0	117.0	10
DR04810	8.10	0.3189	75.0	117.0	10
DR04820	8.20	0.3228	75.0	117.0	10
DR04825	8.25	0.3248	75.0	117.0	10
DR04830	8.30	0.3268	75.0	117.0	10
DR04840	8.40	0.3307	75.0	117.0	10
DR04850	8.50	0.3346	75.0	117.0	10
DR04860	8.60	0.3386	81.0	125.0	5
DR04870	8.70	0.3425	81.0	125.0	5
DR04875	8.75	0.3445	81.0	125.0	5
DR04880	8.80	0.3465	81.0	125.0	5
DR04890	8.90	0.3504	81.0	125.0	5
DR04900	9.00	0.3543	81.0	125.0	5

Continued



Two Tone Drills DR04 • DR05

CODE	MM	DEC	FLT	OA	PKG
DR04910	9.10	0.3583	81.0	125.0	5
DR04920	9.20	0.3622	81.0	125.0	5
DR04925	9.25	0.3642	81.0	125.0	5
DR04930	9.30	0.3661	81.0	125.0	5
DR04940	9.40	0.3701	81.0	125.0	5
DR04950	9.50	0.3740	81.0	125.0	5
DR04960	9.60	0.3780	87.0	133.0	5
DR04970	9.70	0.3819	87.0	133.0	5
DR04975	9.75	0.3839	87.0	133.0	5
DR04980	9.80	0.3858	87.0	133.0	5
DR04990	9.90	0.3898	87.0	133.0	5
DR05000	10.00	0.3937	87.0	133.0	5
DR05010	10.10	0.3976	87.0	133.0	5
DR05020	10.20	0.4016	87.0	133.0	5
DR05025	10.25	0.4035	87.0	133.0	5
DR05030	10.30	0.4055	87.0	133.0	5
DR05040	10.40	0.4094	87.0	133.0	5
DR05050	10.50	0.4134	87.0	133.0	5
DR05060	10.60	0.4173	87.0	133.0	5
DR05070	10.70	0.4213	94.0	142.0	5
DR05075	10.75	0.4232	94.0	142.0	5
DR05080	10.80	0.4252	94.0	142.0	5
DR05090	10.90	0.4291	94.0	142.0	5
DR05100	11.00	0.4331	94.0	142.0	5
DR05111	11.10	0.4370	94.0	142.0	5
DR05112	11.20	0.4409	94.0	142.0	5
DR05113	11.30	0.4449	94.0	142.0	5
DR05114	11.40	0.4488	94.0	142.0	5
DR05115	11.50	0.4528	94.0	142.0	5
DR05116	11.60	0.4567	94.0	142.0	5
DR05117	11.70	0.4606	94.0	142.0	5
DR05118	11.80	0.4646	94.0	142.0	5
DR05119	11.90	0.4685	101.0	151.0	5
DR05120	12.00	0.4724	101.0	151.0	5

CODE	MM	DEC	FLT	OA	PKG
DR05121	12.10	0.4764	101.0	151.0	5
DR05122	12.20	0.4803	101.0	151.0	5
DR05225	12.25	0.4823	101.0	151.0	5
DR05123	12.30	0.4843	101.0	151.0	5
DR05124	12.40	0.4882	101.0	151.0	5
DR05125	12.50	0.4921	101.0	151.0	5
DR05126	12.60	0.4961	101.0	151.0	5
DR05127	12.70	0.5000	101.0	151.0	5
DR05128	12.80	0.5039	101.0	151.0	5
DR05129	12.90	0.5079	101.0	151.0	5
DR05130	13.00	0.5118	101.0	151.0	5
DR05131	13.10	0.5157	101.0	151.0	1
DR05132	13.20	0.5197	101.0	151.0	1
DR05133	13.30	0.5236	108.0	160.0	1
DR05134	13.40	0.5276	108.0	160.0	1
DR05135	13.50	0.5315	108.0	160.0	1
DR05136	13.60	0.5354	108.0	160.0	1
DR05137	13.70	0.5394	108.0	160.0	1
DR05138	13.80	0.5433	108.0	160.0	1
DR05139	13.90	0.5472	108.0	160.0	1
DR05140	14.00	0.5512	108.0	160.0	1
DR05145	14.50	0.5709	114.0	169.0	1
DR05150	15.00	0.5906	114.0	169.0	1
DR05155	15.50	0.6102	120.0	178.0	1
DR05160	16.00	0.6299	120.0	178.0	1
DR05165	16.50	0.6496	125.0	184.0	1
DR05170	17.00	0.6693	125.0	184.0	1
DR05175	17.50	0.6890	130.0	191.0	1
DR05180	18.00	0.7087	130.0	191.0	1
DR05185	18.50	0.7283	135.0	198.0	1
DR05190	19.00	0.7480	135.0	198.0	1
DR05195	19.50	0.7677	140.0	205.0	1
DR05200	20.00	0.7874	140.0	205.0	1



Heavy Duty Drills - DR74

Jobber Length - Heavy Duty

- HSS
- Black oxide finish
- 135 Deg Split Point (self-centering) which eliminates "Walking" and reduces the thrust force needed
- Heavy web construction gives this drill higher torsional strength which allows it to be used in harder materials with heavier feed rates
- Black Oxide surface treatment increases lubricant retention, wear resistance and reduces chip welding

Longeur du Jobber- Robuste

- HSS
- Finition oxyde noir
- Point de partage à 135 degrés (auto-centrage) qui élimine la «marche» et réduit la force de poussée nécessaire
- La construction de bande lourde confère à ce foret une résistance à la torsion plus élevée, ce qui lui permet d'être utilisé dans des matériaux plus durs avec des vitesses d'avance plus élevées
- Le traitement de surface de l'oxyde noir augmente la rétention de lubrifiant, la résistance à l'usure et réduit le soudage des copeaux

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR74260		60	0.0400	11/16	1-5/8	10
DR74259		59	0.0410	11/16	1-5/8	10
DR74258		58	0.0420	11/16	1-5/8	10
DR74257		57	0.0430	3/4	1-3/4	10
DR74256		56	0.0465	3/4	1-3/4	10
DR74003	3/64		0.0469	3/4	1-3/4	10
DR74255		55	0.0520	7/8	1-7/8	10
DR74254		54	0.0550	7/8	1-7/8	10
DR74253		53	0.0595	7/8	1-7/8	10
DR74004	1/16		0.0625	7/8	1-7/8	10
DR74252		52	0.0635	7/8	1-7/8	10
DR74251		51	0.0670	1	2	10
DR74250		50	0.0700	1	2	10
DR74249		49	0.0730	1	2	10
DR74248		48	0.0760	1	2	10
DR74005	5/64		0.0781	1	2	10
DR74247		47	0.0785	1	2	10
DR74246		46	0.0810	1-1/8	2-1/8	10
DR74245		45	0.0820	1-1/8	2-1/8	10
DR74244		44	0.0860	1-1/8	2-1/8	10
DR74243		43	0.0890	1-1/4	2-1/4	10
DR74242		42	0.0935	1-1/4	2-1/4	10
DR74006	3/32		0.0938	1-1/4	2-1/4	10
DR74241		41	0.0960	1-3/8	2-3/8	10
DR74240		40	0.0980	1-3/8	2-3/8	10
DR74239		39	0.0995	1-3/8	2-3/8	10
DR74238		38	0.1015	1-7/16	2-1/2	10
DR74237		37	0.1040	1-7/16	2-1/2	10
DR74236		36	0.1065	1-7/16	2-1/2	10
DR74007	7/64		0.1094	1-1/2	2-5/8	10

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR74235		35	0.1100	1-1/2	2-5/8	10
DR74234		34	0.1110	1-1/2	2-5/8	10
DR74233		33	0.1130	1-1/2	2-5/8	10
DR74232		32	0.1160	1-5/8	2-3/4	10
DR74231		31	0.1200	1-5/8	2-3/4	10
DR74008	1/8		0.1250	1-5/8	2-3/4	10
DR74230		30	0.1285	1-5/8	2-3/4	10
DR74229		29	0.1360	1-3/4	2-7/8	10
DR74228		28	0.1405	1-3/4	2-7/8	10
DR74009	9/64		0.1406	1-3/4	2-7/8	10
DR74227		27	0.1440	1-7/8	3	10
DR74226		26	0.1470	1-7/8	3	10
DR74225		25	0.1495	1-7/8	3	10
DR74224		24	0.1520	2	3-1/8	10
DR74223		23	0.1540	2	3-1/8	10
DR74010	5/32		0.1562	2	3-1/8	10
DR74222		22	0.1570	2	3-1/8	10
DR74221		21	0.1590	2-1/8	3-1/4	10
DR74220		20	0.1610	2-1/8	3-1/4	10
DR74219		19	0.1660	2-1/8	3-1/4	10
DR74218		18	0.1695	2-1/8	3-1/4	10
DR74011	11/64		0.1719	2-1/8	3-1/4	10
DR74217		17	0.1730	2-3/16	3-3/8	10
DR74216		16	0.1770	2-3/16	3-3/8	10
DR74215		15	0.1800	2-3/16	3-3/8	10
DR74214		14	0.1820	2-3/16	3-3/8	10
DR74213		13	0.1850	2-5/16	3-1/2	10
DR74012	3/16		0.1875	2-5/16	3-1/2	10
DR74212		12	0.1890	2-5/16	3-1/2	10
DR74211		11	0.1910	2-5/16	3-1/2	10

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Heavy Duty Drills - DR74

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR74210		10	0.1935	2-7/16	3-5/8	10
DR74209		9	0.1960	2-7/16	3-5/8	10
DR74208		8	0.1990	2-7/16	3-5/8	10
DR74207		7	0.2010	2-7/16	3-5/8	10
DR74013	13/64		0.2031	2-7/16	3-5/8	10
DR74206		6	0.2040	2-1/2	3-3/4	10
DR74205		5	0.2055	2-1/2	3-3/4	10
DR74204		4	0.2090	2-1/2	3-3/4	10
DR74203		3	0.2130	2-1/2	3-3/4	10
DR74014	7/32		0.2188	2-1/2	3-3/4	10
DR74202		2	0.2210	2-5/8	3-7/8	10
DR74201		1	0.2280	2-5/8	3-7/8	10
DR74101		A	0.2340	2-5/8	3-7/8	10
DR74015	15/64		0.2344	2-5/8	3-7/8	10
DR74102		B	0.2380	2-3/4	4	10
DR74103		C	0.2420	2-3/4	4	10
DR74104		D	0.2460	2-3/4	4	10
DR74016	1/4	E	0.2500	2-3/4	4	10
DR74106		F	0.2570	2-7/8	4-1/8	10
DR74107		G	0.2610	2-7/8	4-1/8	10
DR74017	17/64		0.2656	2-7/8	4-1/8	10
DR74108		H	0.2660	2-7/8	4-1/8	10
DR74109		I	0.2720	2-7/8	4-1/8	10
DR74110		J	0.2770	2-7/8	4-1/8	10
DR74111		K	0.2810	2-15/16	4-1/4	10
DR74018	9/32		0.2812	2-15/16	4-1/4	10
DR74112		L	0.2900	2-15/16	4-1/4	10
DR74113		M	0.2950	3-1/16	4-3/8	10

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR74019	19/64		0.2969	3-1/16	4-3/8	10
DR74114		N	0.3020	3-1/16	4-3/8	10
DR74020	5/16		0.3125	3-3/16	4-1/2	10
DR74115		O	0.3160	3-3/16	4-1/2	10
DR74116		P	0.3230	3-5/16	4-5/8	10
DR74021	21/64		0.3281	3-5/16	4-5/8	10
DR74117		Q	0.3320	3-7/16	4-3/4	10
DR74118		R	0.3390	3-7/16	4-3/4	5
DR74022	11/32		0.3438	3-7/16	4-3/4	5
DR74119		S	0.3480	3-1/2	4-7/8	5
DR74120		T	0.3580	3-1/2	4-7/8	5
DR74023	23/64		0.3594	3-1/2	4-7/8	5
DR74121		U	0.3680	3-5/8	5	5
DR74024	3/8		0.3750	3-5/8	5	5
DR74122		V	0.3770	3-5/8	5	5
DR74123		W	0.3860	3-3/4	5-1/8	5
DR74025	25/64		0.3906	3-3/4	5-1/8	5
DR74124		X	0.3970	3-3/4	5-1/8	5
DR74125		Y	0.4040	3-7/8	5-1/4	5
DR74026	13/32		0.4062	3-7/8	5-1/4	5
DR74126		Z	0.4130	3-7/8	5-1/4	5
DR74027	27/64		0.4219	3-15/16	5-3/8	5
DR74028	7/16		0.4375	4-1/16	5-1/2	5
DR74029	29/64		0.4531	4-3/16	5-5/8	5
DR74030	15/32		0.4688	4-5/16	5-3/4	5
DR74031	31/64		0.4844	4-3/8	5-7/8	5
DR74032	1/2		0.5000	4-1/2	6	5



TiN Coated Drills - DR10

Jobber Length - TiN Coated

- HSS
- 135 Deg Split Point (self-centering) which eliminates “Walking” and reduces the thrust force needed
- Titanium Nitride (TiN) coating increases wear and heat resistance while improving chip flow and higher lubricity
- Due to the better heat resistance of the TiN coating, the drill can be run at higher speeds and feeds
- Ideal for Stainless Steel and other difficult materials

Longeur du Jobber - Nitre Plaqué Au Titanium

- HSS
- Point de partage à 135 degrés (auto-centrage) qui élimine la «marche» et réduit la force de poussée nécessaire
- Le revêtement en nitrure de titane (TiN) augmente la résistance à l'usure et à la chaleur tout en améliorant l'écoulement des copeaux et un pouvoir lubrifiant plus élevé
- En raison de la meilleure résistance à la chaleur du revêtement TiN, le foret peut fonctionner à des vitesses et des avances plus élevées
- Idéal pour l'acier inoxydable et autres matériaux difficiles

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR10280		80	0.0135	5/32	3/4	10
DR10279		79	0.0145	5/32	3/4	10
DR10001	1/64		0.0156	3/16	13/16	10
DR10278		78	0.0160	3/16	13/16	10
DR10277		77	0.0180	3/16	13/16	10
DR10276		76	0.0200	1/4	7/8	10
DR10275		75	0.0210	9/32	15/16	10
DR10274		74	0.0225	9/32	15/16	10
DR10273		73	0.0240	5/16	1	10
DR10272		72	0.0250	5/16	1	10
DR10271		71	0.0260	5/16	1	10
DR10270		70	0.0280	11/32	1-1/8	10
DR10269		69	0.0292	11/32	1-1/8	10
DR10268		68	0.0310	13/32	1-3/16	10
DR10002	1/32		0.0312	13/32	1-3/16	10
DR10267		67	0.0320	13/32	1-3/16	10
DR10266		66	0.0330	13/32	1-3/16	10
DR10265		65	0.0350	7/16	1-1/4	10
DR10264		64	0.0360	7/16	1-1/4	10
DR10263		63	0.0370	7/16	1-1/4	10
DR10262		62	0.0380	15/32	1-5/16	10
DR10261		61	0.0390	15/32	1-5/16	10
DR10260		60	0.0400	11/16	1-5/8	10
DR10259		59	0.0410	11/16	1-5/8	10
DR10258		58	0.0420	11/16	1-5/8	10
DR10257		57	0.0430	3/4	1-3/4	10
DR10256		56	0.0465	3/4	1-3/4	10
DR10003	3/64		0.0469	7/8	1-7/8	10
DR10255		55	0.0520	7/8	1-7/8	10
DR10254		54	0.0550	7/8	1-7/8	10
DR10253		53	0.0595	7/8	1-7/8	10
DR10004	1/16		0.0625	7/8	1-7/8	10

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR10252		52	0.0635	7/8	1-7/8	10
DR10251		51	0.0670	1	2	10
DR10250		50	0.0700	1	2	10
DR10249		49	0.0730	1	2	10
DR10248		48	0.0760	1	2	10
DR10005	5/64		0.0781	1	2	10
DR10247		47	0.0785	1	2	10
DR10246		46	0.0810	1-1/8	2-1/8	10
DR10245		45	0.0820	1-1/8	2-1/8	10
DR10244		44	0.0860	1-1/8	2-1/8	10
DR10243		43	0.0890	1-1/4	2-1/4	10
DR10242		42	0.0935	1-1/4	2-1/4	10
DR10006	3/32		0.0938	1-1/4	2-1/4	10
DR10241		41	0.0960	1-3/8	2-3/8	10
DR10240		40	0.0980	1-3/8	2-3/8	10
DR10239		39	0.0995	1-3/8	2-3/8	10
DR10238		38	0.1015	1-7/16	2-1/2	10
DR10237		37	0.1040	1-7/16	2-1/2	10
DR10236		36	0.1065	1-7/16	2-1/2	10
DR10007	7/64		0.1094	1-1/2	2-5/8	10
DR10235		35	0.1100	1-1/2	2-5/8	10
DR10234		34	0.1110	1-1/2	2-5/8	10
DR10233		33	0.1130	1-1/2	2-5/8	10
DR10232		32	0.1160	1-5/8	2-3/4	10
DR10231		31	0.1200	1-5/8	2-3/4	10
DR10008	1/8		0.1250	1-5/8	2-3/4	10
DR10230		30	0.1285	1-5/8	2-3/4	10
DR10229		29	0.1360	1-3/4	2-7/8	10
DR10228		28	0.1405	1-3/4	2-7/8	10
DR10009	9/64		0.1406	1-3/4	2-7/8	10
DR10227		27	0.1440	1-7/8	3	10
DR10226		26	0.1470	1-7/8	3	10

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TiN Coated Drills - DR10

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR10225		25	0.1495	1-7/8	3	10
DR10224		24	0.1520	2	3-1/8	10
DR10223		23	0.1540	2	3-1/8	10
DR10010	5/32		0.1562	2	3-1/8	10
DR10222		22	0.1570	2	3-1/8	10
DR10221		21	0.1590	2-1/8	3-1/4	10
DR10220		20	0.1610	2-1/8	3-1/4	10
DR10219		19	0.1660	2-1/8	3-1/4	10
DR10218		18	0.1695	2-1/8	3-1/4	10
DR10011	11/64		0.1719	2-1/8	3-1/4	10
DR10217		17	0.1730	2-3/16	3-3/8	10
DR10216		16	0.1770	2-3/16	3-3/8	10
DR10215		15	0.1800	2-3/16	3-3/8	10
DR10214		14	0.1820	2-3/16	3-3/8	10
DR10213		13	0.1850	2-5/16	3-1/2	10
DR10012	3/16		0.1875	2-5/16	3-1/2	10
DR10212		12	0.1890	2-5/16	3-1/2	10
DR10211		11	0.1910	2-5/16	3-1/2	10
DR10210		10	0.1935	2-7/16	3-5/8	10
DR10209		9	0.1960	2-7/16	3-5/8	10
DR10208		8	0.1990	2-7/16	3-5/8	10
DR10207		7	0.2010	2-7/16	3-5/8	10
DR10013	13/64		0.2031	2-7/16	3-5/8	10
DR10206		6	0.2040	2-1/2	3-3/4	10
DR10205		5	0.2055	2-1/2	3-3/4	10
DR10204		4	0.2090	2-1/2	3-3/4	10
DR10203		3	0.2130	2-1/2	3-3/4	10
DR10014	7/32		0.2188	2-1/2	3-3/4	10
DR10202		2	0.2210	2-5/8	3-7/8	10
DR10201		1	0.2280	2-5/8	3-7/8	10
DR10101		A	0.2340	2-5/8	3-7/8	10
DR10015	15/64		0.2344	2-5/8	3-7/8	10
DR10102		B	0.2380	2-3/4	4	10
DR10103		C	0.2420	2-3/4	4	10
DR10104		D	0.2460	2-3/4	4	10
DR10016	1/4	E	0.2500	2-3/4	4	10
DR10106		F	0.2570	2-7/8	4-1/8	10
DR10107		G	0.2610	2-7/8	4-1/8	10
DR10017	17/64		0.2656	2-7/8	4-1/8	10
DR10108		H	0.2660	2-7/8	4-1/8	10
DR10109		I	0.2720	2-7/8	4-1/8	10
DR10110		J	0.2770	2-7/8	4-1/8	10

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR10111		K	0.2810	2-15/16	4-1/4	10
DR10018	9/32		0.2812	2-15/16	4-1/4	10
DR10112		L	0.2900	2-15/16	4-1/4	10
DR10113		M	0.2950	3-1/16	4-3/8	10
DR10019	19/64		0.2969	3-1/16	4-3/8	10
DR10114		N	0.3020	3-1/16	4-3/8	10
DR10020	5/16		0.3125	3-3/16	4-1/2	10
DR10115		O	0.3160	3-3/16	4-1/2	10
DR10116		P	0.3230	3-5/16	4-5/8	10
DR10021	21/64		0.3281	3-5/16	4-5/8	10
DR10117		Q	0.3320	3-7/16	4-3/4	10
DR10118		R	0.3390	3-7/16	4-3/4	5
DR10022	11/32		0.3438	3-7/16	4-3/4	5
DR10119		S	0.3480	3-1/2	4-7/8	5
DR10120		T	0.3580	3-1/2	4-7/8	5
DR10023	23/64		0.3594	3-1/2	4-7/8	5
DR10121		U	0.3680	3-5/8	5	5
DR10024	3/8		0.3750	3-5/8	5	5
DR10122		V	0.3770	3-5/8	5	5
DR10123		W	0.3860	3-3/4	5-1/8	5
DR10025	25/64		0.3906	3-3/4	5-1/8	5
DR10124		X	0.3970	3-3/4	5-1/8	5
DR10125		Y	0.4040	3-7/8	5-1/4	5
DR10026	13/32		0.4062	3-7/8	5-1/4	5
DR10126		Z	0.4130	3-7/8	5-1/4	5
DR10027	27/64		0.4219	3-15/16	5-3/8	5
DR10028	7/16		0.4375	4-1/16	5-1/2	5
DR10029	29/64		0.4531	4-3/16	5-5/8	5
DR10030	15/32		0.4688	4-5/16	5-3/4	5
DR10031	31/64		0.4844	4-3/8	5-7/8	5
DR10032	1/2		0.5000	4-1/2	6	5
DR10033	33/64		0.5156	4-13/16	6-5/8	1
DR10034	17/32		0.5312	4-13/16	6-5/8	1
DR10035	35/64		0.5469	4-13/16	6-5/8	1
DR10036	9/16		0.5625	4-13/16	6-5/8	1
DR10037	37/64		0.5781	4-13/16	6-5/8	1
DR10038	19/32		0.5938	5-3/16	7-1/8	1
DR10039	39/64		0.6094	5-3/16	7-1/8	1
DR10040	5/8		0.6250	5-3/16	7-1/8	1
DR10041	41/64		0.6406	5-3/16	7-1/8	1
DR10042	21/32		0.6562	5-3/16	7-1/8	1
DR10043	43/64		0.6719	5-5/8	7-5/8	1
DR10044	11/16		0.6875	5-5/8	7-5/8	1
DR10048	3/4		0.7500	5-1/2	8-1/16	1



TiN Tipped Drills - DR10

Jobber Length - TiN Tipped - Metric

- HSS
- 135 Deg Split Point (self-centering) which eliminates "Walking" and reduces the thrust force needed
- Titanium Nitride (TiN) coating increases wear and heat resistance while improving chip flow and higher lubricity
- Due to the better heat resistance of the TiN coating, the drill can be run at higher speeds and feeds
- Ideal for stainless Steel and other difficult materials

Longeur du Jobber - Nitre Plaque Au Titanium - Metrique

- HSS
- Point de par tage à 135 degrés (auto-centrage) qui élimine la «marche» et réduit la force de poussée nécessaire
- Le revêtement en nitrure de titane (TiN) augmente la résistance à l'usure et à la chaleur tout en améliorant l'écoulement des copeaux et un pouvoir lubrifiant plus élevé
- En raison de la meilleure résistance à la chaleur du revêtement TiN, le foret peut fonctionner à des vitesses et des avances plus élevées
- Idéal pour l'acier inoxydable et autres matériaux difficiles

CODE	MM	DEC	FLT	OA	PKG
DR10610	1.00	0.0394	12.0	34.0	10
DR10615	1.50	0.0591	18.0	40.0	10
DR10620	2.00	0.0787	24.0	49.0	10
DR10625	2.50	0.0984	30.0	57.0	10
DR10630	3.00	0.1181	33.0	61.0	10
DR10631	3.10	0.1220	36.0	65.0	10
DR10632	3.20	0.1260	36.0	65.0	10
DR10633	3.30	0.1299	36.0	65.0	10
DR10634	3.40	0.1339	39.0	70.0	10
DR10635	3.50	0.1378	39.0	70.0	10
DR10636	3.60	0.1417	39.0	70.0	10
DR10637	3.70	0.1457	39.0	70.0	10
DR10638	3.80	0.1496	43.0	75.0	10
DR10639	3.90	0.1535	43.0	75.0	10
DR10640	4.00	0.1575	43.0	75.0	10
DR10641	4.10	0.1614	43.0	75.0	10
DR10642	4.20	0.1654	43.0	75.0	10
DR10643	4.30	0.1693	47.0	80.0	10
DR10644	4.40	0.1732	47.0	80.0	10
DR10645	4.50	0.1772	47.0	80.0	10
DR10646	4.60	0.1811	47.0	80.0	10
DR10647	4.70	0.1850	47.0	80.0	10
DR10648	4.80	0.1890	52.0	86.0	10
DR10649	4.90	0.1929	52.0	86.0	10
DR10650	5.00	0.1968	52.0	86.0	10
DR10651	5.10	0.2008	52.0	86.0	10
DR10652	5.20	0.2047	52.0	86.0	10
DR10653	5.30	0.2087	52.0	86.0	10
DR10654	5.40	0.2126	57.0	93.0	10
DR10655	5.50	0.2165	57.0	93.0	10
DR10656	5.60	0.2205	57.0	93.0	10
DR10657	5.70	0.2244	57.0	93.0	10

CODE	MM	DEC	FLT	OA	PKG
DR10658	5.80	0.2283	57.0	93.0	10
DR10659	5.90	0.2323	57.0	93.0	10
DR10660	6.00	0.2362	57.0	93.0	10
DR10661	6.10	0.2402	63.0	101.0	10
DR10662	6.20	0.2441	63.0	101.0	10
DR10663	6.30	0.2480	63.0	101.0	10
DR10664	6.40	0.2520	63.0	101.0	10
DR10665	6.50	0.2559	63.0	101.0	10
DR10666	6.60	0.2598	63.0	101.0	10
DR10667	6.70	0.2638	63.0	101.0	10
DR10668	6.80	0.2677	69.0	109.0	10
DR10669	6.90	0.2717	69.0	109.0	10
DR10670	7.00	0.2756	69.0	109.0	10
DR10671	7.10	0.2795	69.0	109.0	10
DR10672	7.20	0.2835	69.0	109.0	10
DR10673	7.30	0.2874	69.0	109.0	10
DR10674	7.40	0.2913	69.0	109.0	10
DR10675	7.50	0.2953	69.0	109.0	10
DR10676	7.60	0.2992	75.0	117.0	10
DR10677	7.70	0.3031	75.0	117.0	10
DR10678	7.80	0.3071	75.0	117.0	10
DR10679	7.90	0.3110	75.0	117.0	10
DR10680	8.00	0.3150	75.0	117.0	10
DR10681	8.10	0.3189	75.0	117.0	10
DR10682	8.20	0.3228	75.0	117.0	10
DR10683	8.30	0.3268	75.0	117.0	10
DR10684	8.40	0.3307	75.0	117.0	10
DR10685	8.50	0.3346	75.0	117.0	10
DR10686	8.60	0.3386	81.0	125.0	5
DR10687	8.70	0.3425	81.0	125.0	5
DR10688	8.80	0.3465	81.0	125.0	5
DR10689	8.90	0.3504	81.0	125.0	5

Continued



TiN Tipped Drills - DR10

CODE	MM	DEC	FLT	OA	PKG
DR10690	9.00	0.3543	81.0	125.0	5
DR10691	9.10	0.3583	81.0	125.0	5
DR10692	9.20	0.3622	81.0	125.0	5
DR10693	9.30	0.3661	81.0	125.0	5
DR10694	9.40	0.3701	81.0	125.0	5
DR10695	9.50	0.3740	81.0	125.0	5
DR10696	9.60	0.3780	87.0	133.0	5
DR10697	9.70	0.3819	87.0	133.0	5
DR10698	9.80	0.3858	87.0	133.0	5
DR10699	9.90	0.3898	87.0	133.0	5
DR10700	10.00	0.3937	87.0	133.0	5
DR10701	10.10	0.3976	87.0	133.0	5
DR10702	10.20	0.4016	87.0	133.0	5
DR10703	10.30	0.4055	87.0	133.0	5
DR10704	10.40	0.4094	87.0	133.0	5
DR10705	10.50	0.4134	87.0	133.0	5
DR10706	10.60	0.4173	87.0	133.0	5
DR10707	10.70	0.4213	94.0	142.0	5

CODE	MM	DEC	FLT	OA	PKG
DR10708	10.80	0.4252	94.0	142.0	5
DR10709	10.90	0.4291	94.0	142.0	5
DR10710	11.00	0.4331	94.0	142.0	5
DR10711	11.10	0.4370	94.0	142.0	5
DR10712	11.20	0.4409	94.0	142.0	5
DR10713	11.30	0.4449	94.0	142.0	5
DR10714	11.40	0.4488	94.0	142.0	5
DR10715	11.50	0.4528	94.0	142.0	5
DR10716	11.60	0.4567	94.0	142.0	5
DR10717	11.70	0.4606	94.0	142.0	5
DR10718	11.80	0.4646	94.0	142.0	5
DR10719	11.90	0.4685	101.0	151.0	5
DR10720	12.00	0.4724	101.0	151.0	5
DR10725	12.50	0.4921	101.0	151.0	5
DR10730	13.00	0.5118	101.0	151.0	5



Bright Finish Drills - DR15

Jobber Length - Bright Finish Fractional

- HSS
- 118 Deg Point
- The bright finish polished flutes provide better chip flow for non-ferrous and softer materials
- Ideal choice for Aluminum

Longeur du Jobber - Fini Poli Fractionnel

- HSS
- 118 degrés
- Les cannelures polies au fini brillant offrent un meilleur écoulement des copeaux pour les matériaux non ferreux et plus tendres
- Choix idéal pour l'aluminium

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR15280		80	0.0135	5/32	3/4	10
DR15279		79	0.0145	5/32	3/4	10
DR15001	1/64		0.0156	3/16	13/16	10
DR15278		78	0.0160	3/16	13/16	10
DR15277		77	0.0180	3/16	13/16	10
DR15276		76	0.0200	1/4	7/8	10
DR15275		75	0.0210	9/32	15/16	10
DR15274		74	0.0225	9/32	15/16	10
DR15273		73	0.0240	5/16	1	10
DR15272		72	0.0250	5/16	1	10
DR15271		71	0.0260	5/16	1	10
DR15270		70	0.0280	11/32	1-1/8	10

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR15269		69	0.0292	11/32	1-1/8	10
DR15268		68	0.0310	13/32	1-3/16	10
DR15002	1/32		0.0312	13/32	1-3/16	10
DR15267		67	0.0320	13/32	1-3/16	10
DR15266		66	0.0330	13/32	1-3/16	10
DR15265		65	0.0350	7/16	1-1/4	10
DR15264		64	0.0360	7/16	1-1/4	10
DR15263		63	0.0370	7/16	1-1/4	10
DR15262		62	0.0380	15/32	1-5/16	10
DR15261		61	0.0390	15/32	1-5/16	10
DR15260		60	0.0400	11/16	1-5/8	10
DR15259		59	0.0410	11/16	1-5/8	10



Bright Finish Drills - DR15

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR15258		58	0.0420	11/16	1-5/8	10
DR15257		57	0.0430	3/4	1-3/4	10
DR15256		56	0.0465	3/4	1-3/4	10
DR15003	3/64		0.0469	7/8	1-7/8	10
DR15255		55	0.0520	7/8	1-7/8	10
DR15254		54	0.0550	7/8	1-7/8	10
DR15253		53	0.0595	7/8	1-7/8	10
DR15004	1/16		0.0625	7/8	1-7/8	10
DR15252		52	0.0635	7/8	1-7/8	10
DR15251		51	0.0670	1	2	10
DR15250		50	0.0700	1	2	10
DR15249		49	0.0730	1	2	10
DR15248		48	0.0760	1	2	10
DR15005	5/64		0.0781	1	2	10
DR15247		47	0.0785	1	2	10
DR15246		46	0.0810	1-1/8	2-1/8	10
DR15245		45	0.0820	1-1/8	2-1/8	10
DR15244		44	0.0860	1-1/8	2-1/8	10
DR15243		43	0.0890	1-1/4	2-1/4	10
DR15242		42	0.0935	1-1/4	2-1/4	10
DR15006	3/32		0.0938	1-1/4	2-1/4	10
DR15241		41	0.0960	1-3/8	2-3/8	10
DR15240		40	0.0980	1-3/8	2-3/8	10
DR15239		39	0.0995	1-3/8	2-3/8	10
DR15238		38	0.1015	1-7/16	2-1/2	10
DR15237		37	0.1040	1-7/16	2-1/2	10
DR15236		36	0.1065	1-7/16	2-1/2	10
DR15007	7/64		0.1094	1-1/2	2-5/8	10
DR15235		35	0.1100	1-1/2	2-5/8	10
DR15234		34	0.1110	1-1/2	2-5/8	10
DR15233		33	0.1130	1-1/2	2-5/8	10
DR15232		32	0.1160	1-5/8	2-3/4	10
DR15231		31	0.1200	1-5/8	2-3/4	10
DR15008	1/8		0.1250	1-5/8	2-3/4	10
DR15230		30	0.1285	1-5/8	2-3/4	10
DR15229		29	0.1360	1-3/4	2-7/8	10
DR15228		28	0.1405	1-3/4	2-7/8	10
DR15009	9/64		0.1406	1-3/4	2-7/8	10
DR15227		27	0.1440	1-7/8	3	10
DR15226		26	0.1470	1-7/8	3	10
DR15225		25	0.1495	1-7/8	3	10
DR15224		24	0.1520	2	3-1/8	10

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR15223		23	0.1540	2	3-1/8	10
DR15010	5/32		0.1562	2	3-1/8	10
DR15222		22	0.1570	2	3-1/8	10
DR15221		21	0.1590	2-1/8	3-1/4	10
DR15220		20	0.1610	2-1/8	3-1/4	10
DR15219		19	0.1660	2-1/8	3-1/4	10
DR15218		18	0.1695	2-1/8	3-1/4	10
DR15011	11/64		0.1719	2-1/8	3-1/4	10
DR15217		17	0.1730	2-3/16	3-3/8	10
DR15216		16	0.1770	2-3/16	3-3/8	10
DR15215		15	0.1800	2-3/16	3-3/8	10
DR15214		14	0.1820	2-3/16	3-3/8	10
DR15213		13	0.1850	2-5/16	3-1/2	10
DR15012	3/16		0.1875	2-5/16	3-1/2	10
DR15212		12	0.1890	2-5/16	3-1/2	10
DR15211		11	0.1910	2-5/16	3-1/2	10
DR15210		10	0.1935	2-7/16	3-5/8	10
DR15209		9	0.1960	2-7/16	3-5/8	10
DR15208		8	0.1990	2-7/16	3-5/8	10
DR15207		7	0.2010	2-7/16	3-5/8	10
DR15013	13/64		0.2031	2-7/16	3-5/8	10
DR15206		6	0.2040	2-1/2	3-3/4	10
DR15205		5	0.2055	2-1/2	3-3/4	10
DR15204		4	0.2090	2-1/2	3-3/4	10
DR15203		3	0.2130	2-1/2	3-3/4	10
DR15014	7/32		0.2188	2-1/2	3-3/4	10
DR15202		2	0.2210	2-5/8	3-7/8	10
DR15201		1	0.2280	2-5/8	3-7/8	10
DR15101		A	0.2340	2-5/8	3-7/8	10
DR15015	15/64		0.2344	2-5/8	3-7/8	10
DR15102		B	0.2380	2-3/4	4	10
DR15103		C	0.2420	2-3/4	4	10
DR15104		D	0.2460	2-3/4	4	10
DR15016	1/4	E	0.2500	2-3/4	4	10
DR15106		F	0.2570	2-7/8	4-1/8	10
DR15107		G	0.2610	2-7/8	4-1/8	10
DR15017	17/64		0.2656	2-7/8	4-1/8	10
DR15108		H	0.2660	2-7/8	4-1/8	10
DR15109		I	0.2720	2-7/8	4-1/8	10
DR15110		J	0.2770	2-7/8	4-1/8	10
DR15111		K	0.2810	2-15/16	4-1/4	10
DR15018	9/32		0.2812	2-15/16	4-1/4	10

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Bright Finish Drills - DR15

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR15112		L	0.2900	2-15/16	4-1/4	10
DR15113		M	0.2950	3-1/16	4-3/8	10
DR15019	19/64		0.2969	3-1/16	4-3/8	10
DR15114		N	0.3020	3-1/16	4-3/8	10
DR15020	5/16		0.3125	3-3/16	4-1/2	10
DR15115		O	0.3160	3-3/16	4-1/2	10
DR15116		P	0.3230	3-5/16	4-5/8	10
DR15021	21/64		0.3281	3-5/16	4-5/8	10
DR15117		Q	0.3320	3-7/16	4-3/4	10
DR15118		R	0.3390	3-7/16	4-3/4	5
DR15022	11/32		0.3438	3-7/16	4-3/4	5
DR15119		S	0.3480	3-1/2	4-7/8	5
DR15120		T	0.3580	3-1/2	4-7/8	5
DR15023	23/64		0.3594	3-1/2	4-7/8	5
DR15121		U	0.3680	3-5/8	5	5
DR15024	3/8		0.3750	3-5/8	5	5
DR15122		V	0.3770	3-5/8	5	5
DR15123		W	0.3860	3-3/4	5-1/8	5
DR15025	25/64		0.3906	3-3/4	5-1/8	5
DR15124		X	0.3970	3-3/4	5-1/8	5

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR15125		Y	0.4040	3-7/8	5-1/4	5
DR15026	13/32		0.4062	3-7/8	5-1/4	5
DR15126		Z	0.4130	3-7/8	5-1/4	5
DR15027	27/64		0.4219	3-15/16	5-3/8	5
DR15028	7/16		0.4375	4-1/16	5-1/2	5
DR15029	29/64		0.4531	4-3/16	5-5/8	5
DR15030	15/32		0.4688	4-5/16	5-3/4	5
DR15031	31/64		0.4844	4-3/8	5-7/8	5
DR15032	1/2		0.5000	4-1/2	6	5
DR15033	33/64		0.5156	4-13/16	6-5/8	1
DR15034	17/32		0.5312	4-13/16	6-5/8	1
DR15035	35/64		0.5469	4-13/16	6-5/8	1
DR15036	9/16		0.5625	4-13/16	6-5/8	1
DR15037	37/64		0.5781	4-13/16	6-5/8	1
DR15038	19/32		0.5938	5-3/16	7-1/8	1
DR15039	39/64		0.6094	5-3/16	7-1/8	1
DR15040	5/8		0.6250	5-3/16	7-1/8	1
DR15041	41/64		0.6406	5-3/16	7-1/8	1
DR15042	21/32		0.6562	5-3/16	7-1/8	1
DR15043	43/64		0.6719	5-5/8	7-5/8	1
DR15044	11/16		0.6875	5-5/8	7-5/8	1
DR15048	3/4		0.7500	5-1/2	8-1/16	1



Left Hand Drills - DR03

Jobber Length - Left Hand Fractional

- HSS
- Bright Finish
- 118 Deg Point
- Left Hand Twist – used in screw machine operations with left hand spindle rotation
- Can also be used as a screw extractor for drilling out broken studs or fasteners

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR03280		80	0.0135	5/32	3/4	10
DR03279		79	0.0145	5/32	3/4	10
DR03001	1/64		0.0156	3/16	13/16	10
DR03278		78	0.0160	3/16	13/16	10
DR03277		77	0.0180	3/16	13/16	10

Longeur du Jobber - Coupe A Gauche Fractionnel

- HSS
- Finition brillante
- 118 degrés
- Twist à gauche - utilisé dans les opérations de la machine à vis avec rotation de la broche à gauche
- Peut également être utilisé comme extracteur de vis pour des goujons cassés ou des attaches

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR03276		76	0.0200	1/4	7/8	10
DR03275		75	0.0210	9/32	15/16	10
DR03274		74	0.0225	9/32	15/16	10
DR03273		73	0.0240	5/16	1	10
DR03272		72	0.0250	5/16	1	10



Left Hand Drills - DR03

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR03271		71	0.0260	5/16	1	10
DR03270		70	0.0280	11/32	1-1/8	10
DR03269		69	0.0292	11/32	1-1/8	10
DR03268		68	0.0310	13/32	1-3/16	10
DR03002	1/32		0.0312	13/32	1-3/16	10
DR03267		67	0.0320	13/32	1-3/16	10
DR03266		66	0.0330	13/32	1-3/16	10
DR03265		65	0.0350	7/16	1-1/4	10
DR03264		64	0.0360	7/16	1-1/4	10
DR03263		63	0.0370	7/16	1-1/4	10
DR03262		62	0.0380	15/32	1-5/16	10
DR03261		61	0.0390	15/32	1-5/16	10
DR03260		60	0.0400	11/16	1-5/8	10
DR03259		59	0.0410	11/16	1-5/8	10
DR03258		58	0.0420	11/16	1-5/8	10
DR03257		57	0.0430	3/4	1-3/4	10
DR03256		56	0.0465	3/4	1-3/4	10
DR03003	3/64		0.0469	7/8	1-7/8	10
DR03255		55	0.0520	7/8	1-7/8	10
DR03254		54	0.0550	7/8	1-7/8	10
DR03253		53	0.0595	7/8	1-7/8	10
DR03004	1/16		0.0625	7/8	1-7/8	10
DR03252		52	0.0635	7/8	1-7/8	10
DR03251		51	0.0670	1	2	10
DR03250		50	0.0700	1	2	10
DR03249		49	0.0730	1	2	10
DR03248		48	0.0760	1	2	10
DR03005	5/64		0.0781	1	2	10
DR03247		47	0.0785	1	2	10
DR03246		46	0.0810	1-1/8	2-1/8	10
DR03245		45	0.0820	1-1/8	2-1/8	10
DR03244		44	0.0860	1-1/8	2-1/8	10
DR03243		43	0.0890	1-1/4	2-1/4	10
DR03242		42	0.0935	1-1/4	2-1/4	10
DR03006	3/32		0.0938	1-1/4	2-1/4	10
DR03241		41	0.0960	1-3/8	2-3/8	10
DR03240		40	0.0980	1-3/8	2-3/8	10
DR03239		39	0.0995	1-3/8	2-3/8	10
DR03238		38	0.1015	1-7/16	2-1/2	10
DR03237		37	0.1040	1-7/16	2-1/2	10
DR03236		36	0.1065	1-7/16	2-1/2	10
DR03007	7/64		0.1094	1-1/2	2-5/8	10

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR03235		35	0.1100	1-1/2	2-5/8	10
DR03234		34	0.1110	1-1/2	2-5/8	10
DR03233		33	0.1130	1-1/2	2-5/8	10
DR03232		32	0.1160	1-5/8	2-3/4	10
DR03231		31	0.1200	1-5/8	2-3/4	10
DR03008	1/8		0.1250	1-5/8	2-3/4	10
DR03230		30	0.1285	1-5/8	2-3/4	10
DR03229		29	0.1360	1-3/4	2-7/8	10
DR03228		28	0.1405	1-3/4	2-7/8	10
DR03009	9/64		0.1406	1-3/4	2-7/8	10
DR03227		27	0.1440	1-7/8	3	10
DR03226		26	0.1470	1-7/8	3	10
DR03225		25	0.1495	1-7/8	3	10
DR03224		24	0.1520	2	3-1/8	10
DR03223		23	0.1540	2	3-1/8	10
DR03010	5/32		0.1562	2	3-1/8	10
DR03222		22	0.1570	2	3-1/8	10
DR03221		21	0.1590	2-1/8	3-1/4	10
DR03220		20	0.1610	2-1/8	3-1/4	10
DR03219		19	0.1660	2-1/8	3-1/4	10
DR03218		18	0.1695	2-1/8	3-1/4	10
DR03011	11/64		0.1719	2-1/8	3-1/4	10
DR03217		17	0.1730	2-3/16	3-3/8	10
DR03216		16	0.1770	2-3/16	3-3/8	10
DR03215		15	0.1800	2-3/16	3-3/8	10
DR03214		14	0.1820	2-3/16	3-3/8	10
DR03213		13	0.1850	2-5/16	3-1/2	10
DR03012	3/16		0.1875	2-5/16	3-1/2	10
DR03212		12	0.1890	2-5/16	3-1/2	10
DR03211		11	0.1910	2-5/16	3-1/2	10
DR03210		10	0.1935	2-7/16	3-5/8	10
DR03209		9	0.1960	2-7/16	3-5/8	10
DR03208		8	0.1990	2-7/16	3-5/8	10
DR03207		7	0.2010	2-7/16	3-5/8	10
DR03013	13/64		0.2031	2-7/16	3-5/8	10
DR03206		6	0.2040	2-1/2	3-3/4	10
DR03205		5	0.2055	2-1/2	3-3/4	10
DR03204		4	0.2090	2-1/2	3-3/4	10
DR03203		3	0.2130	2-1/2	3-3/4	10
DR03014	7/32		0.2188	2-1/2	3-3/4	10
DR03202		2	0.2210	2-5/8	3-7/8	10
DR03201		1	0.2280	2-5/8	3-7/8	10

Continued



Left Hand Drills - DR03

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR03101		A	0.2340	2-5/8	4	10
DR03015	15/64		0.2344	2-5/8	3-7/8	10
DR03102		B	0.2380	2-3/4	4	10
DR03103		C	0.2420	2-3/4	4	10
DR03104		D	0.2460	2-3/4	4	10
DR03016	1/4	E	0.2500	2-3/4	4	10
DR03106		F	0.2570	2-7/8	4-1/8	10
DR03107		G	0.2610	2-7/8	4-1/8	10
DR03017	17/64		0.2656	2-7/8	4-1/8	10
DR03108		H	0.2660	2-7/8	4-1/8	10
DR03109		I	0.2720	2-7/8	4-1/8	10
DR03110		J	0.2770	2-7/8	4-1/8	10
DR03111		K	0.2810	2-15/16	4-1/4	10
DR03018	9/32		0.2812	2-15/16	4-1/4	10
DR03112		L	0.2900	2-15/16	4-1/4	10
DR03113		M	0.2950	3-1/16	4-3/8	10
DR03019	19/64		0.2969	3-1/16	4-3/8	10
DR03114		N	0.3020	3-1/16	4-3/8	10
DR03020	5/16		0.3125	3-3/16	4-1/2	10
DR03115		O	0.3160	3-3/16	4-1/2	10

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR03116		P	0.3230	3-5/16	4-5/8	10
DR03021	21/64		0.3281	3-5/16	4-5/8	5
DR03117		Q	0.3320	3-7/16	4-3/4	5
DR03118		R	0.3390	3-7/16	4-3/4	5
DR03022	11/32		0.3438	3-7/16	4-3/4	5
DR03119		S	0.3480	3-1/2	4-7/8	5
DR03120		T	0.3580	3-1/2	4-7/8	5
DR03023	23/64		0.3594	3-1/2	4-7/8	5
DR03121		U	0.3680	3-5/8	5	5
DR03024	3/8		0.3750	3-5/8	5	5
DR03122		V	0.3770	3-5/8	5	5
DR03123		W	0.3860	3-3/4	5-1/8	5
DR03025	25/64		0.3906	3-3/4	5-1/8	5
DR03124		X	0.3970	3-3/4	5-1/8	5
DR03125		Y	0.4040	3-7/8	5-1/4	5
DR03026	13/32		0.4062	3-7/8	5-1/4	5
DR03027	27/64		0.4219	3-15/16	5-3/8	5
DR03028	7/16		0.4375	4-1/16	5-1/2	5
DR03029	29/64		0.4531	4-3/16	5-5/8	5
DR03030	15/32		0.0420	11/16	1-5/8	5
DR03031	31/64		0.0430	3/4	1-3/4	5
DR03032	1/2		0.0433	14.0	36.0	5



Slow Spiral Drills - DR72

Jobber Length - Slow Spiral

- HSS
- Bright Finish
- 118 Deg Point
- Slow Spiral flute design – to be used for applications in brass, fiberglass, hard rubber and plastics
- The wide flutes and low helix angle allow a greater volume of chip removal with higher feed rates

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR72280		80	0.0135	1/8	3/4	10
DR72279		79	0.0145	1/8	3/4	10
DR72001	1/64		0.0156	3/16	3/4	10
DR72278		78	0.0160	3/16	7/8	10
DR72277		77	0.0180	3/16	7/8	10
DR72276		76	0.0200	3/16	7/8	10
DR72275		75	0.0210	1/4	1	10
DR72274		74	0.0225	1/4	1	10

Longeur du Jobber - Helice Allongee

- HSS
- Finition brillante
- 118 degrés
- Conception de flûte en spirale lente - à utiliser pour les applications en laiton, fibre de verre, caoutchouc dur et plastiques
- Les larges cannelures et le faible angle d'hélice permettent un plus grand volume d'élimination des copeaux avec des vitesses d'avance plus élevées.

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR72273		73	0.0240	5/16	1-1/8	10
DR72272		72	0.0250	5/16	1-1/8	10
DR72271		71	0.0260	3/8	1-1/4	10
DR72270		70	0.0280	3/8	1-1/4	10
DR72269		69	0.0292	1/2	1-3/8	10
DR72268		68	0.0310	1/2	1-3/8	10
DR72002	1/32		0.0312	1/2	1-3/8	10
DR72267		67	0.0320	1/2	1-3/8	10



Slow Spiral Drills - DR72

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR72266		66	0.0330	1/2	1-3/8	10
DR72265		65	0.0350	5/8	1-1/2	10
DR72264		64	0.0360	5/8	1-1/2	10
DR72263		63	0.0370	5/8	1-1/2	10
DR72262		62	0.0380	5/8	1-1/2	10
DR72261		61	0.0390	11/16	1-5/8	10
DR72260		60	0.0400	11/16	1-5/8	10
DR72259		59	0.0410	11/16	1-5/8	10
DR72258		58	0.0420	11/16	1-5/8	10
DR72257		57	0.0430	3/4	1-3/4	10
DR72256		56	0.0465	3/4	1-3/4	10
DR72003	3/64		0.0469	3/4	1-3/4	10
DR72255		55	0.0520	7/8	1-7/8	10
DR72254		54	0.0550	7/8	1-7/8	10
DR72253		53	0.0595	7/8	1-7/8	10
DR72004	1/16		0.0625	7/8	1-7/8	10
DR72252		52	0.0635	7/8	1-7/8	10
DR72251		51	0.0670	1	2	10
DR72250		50	0.0700	1	2	10
DR72249		49	0.0730	1	2	10
DR72248		48	0.0760	1	2	10
DR72005	5/64		0.0781	1	2	10
DR72247		47	0.0785	1	2	10
DR72246		46	0.0810	1-1/8	2-1/8	10
DR72245		45	0.0820	1-1/8	2-1/8	10
DR72244		44	0.0860	1-1/8	2-1/8	10
DR72243		43	0.0890	1-1/4	2-1/4	10
DR72242		42	0.0935	1-1/4	2-1/4	10
DR72006	3/32		0.0938	1-1/4	2-1/4	10
DR72241		41	0.0960	1-3/8	2-3/8	10
DR72240		40	0.0980	1-3/8	2-3/8	10
DR72239		39	0.0995	1-3/8	2-3/8	10
DR72238		38	0.1015	1-7/16	2-1/2	10
DR72237		37	0.1040	1-7/16	2-1/2	10
DR72236		36	0.1065	1-7/16	2-1/2	10
DR72007	7/64		0.1094	1-1/2	2-5/8	10
DR72235		35	0.1100	1-1/2	2-5/8	10
DR72234		34	0.1110	1-1/2	2-5/8	10
DR72233		33	0.1130	1-1/2	2-5/8	10
DR72232		32	0.1160	1-5/8	2-3/4	10
DR72231		31	0.1200	1-5/8	2-3/4	10
DR72008	1/8		0.1250	1-5/8	2-3/4	10

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR72230		30	0.1285	1-5/8	2-3/4	10
DR72229		29	0.1360	1-3/4	2-7/8	10
DR72228		28	0.1405	1-3/4	2-7/8	10
DR72009	9/64		0.1406	1-3/4	2-7/8	10
DR72227		27	0.1440	1-7/8	3	10
DR72226		26	0.1470	1-7/8	3	10
DR72225		25	0.1495	1-7/8	3	10
DR72224		24	0.1520	2	3-1/8	10
DR72223		23	0.1540	2	3-1/8	10
DR72010	5/32		0.1562	2	3-1/8	10
DR72222		22	0.1570	2	3-1/8	10
DR72221		21	0.1590	2-1/8	3-1/4	10
DR72220		20	0.1610	2-1/8	3-1/4	10
DR72219		19	0.1660	2-1/8	3-1/4	10
DR72218		18	0.1695	2-1/8	3-1/4	10
DR72011	11/64		0.1719	2-1/8	3-1/4	10
DR72217		17	0.1730	2-3/16	3-3/8	10
DR72216		16	0.1770	2-3/16	3-3/8	10
DR72215		15	0.1800	2-3/16	3-3/8	10
DR72214		14	0.1820	2-3/16	3-3/8	10
DR72213		13	0.1850	2-5/16	3-1/2	10
DR72012	3/16		0.1875	2-5/16	3-1/2	10
DR72212		12	0.1890	2-5/16	3-1/2	10
DR72211		11	0.1910	2-5/16	3-1/2	10
DR72210		10	0.1935	2-7/16	3-5/8	10
DR72209		9	0.1960	2-7/16	3-5/8	10
DR72208		8	0.1990	2-7/16	3-5/8	10
DR72207		7	0.2010	2-7/16	3-5/8	10
DR72013	13/64		0.2031	2-7/16	3-5/8	10
DR72206		6	0.2040	2-1/2	3-3/4	10
DR72205		5	0.2055	2-1/2	3-3/4	10
DR72204		4	0.2090	2-1/2	3-3/4	10
DR72203		3	0.2130	2-1/2	3-3/4	10
DR72014	7/32		0.2188	2-1/2	3-3/4	10
DR72202		2	0.2210	2-5/8	3-7/8	10
DR72201		1	0.2280	2-5/8	3-7/8	10
DR72101		A	0.2340	2-5/8	3-7/8	10
DR72015	15/64		0.2344	2-5/8	3-7/8	10
DR72102		B	0.2380	2-3/4	4	10
DR72103		C	0.2420	2-3/4	4	10
DR72104		D	0.2460	2-3/4	4	10
DR72016	1/4	E	0.2500	2-3/4	4	10

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Slow Spiral Drills - DR72

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR72106		F	0.2570	2-7/8	4-1/8	10
DR72107		G	0.2610	2-7/8	4-1/8	10
DR72017	17/64		0.2656	2-7/8	4-1/8	10
DR72108		H	0.2660	2-7/8	4-1/8	10
DR72109		I	0.2720	2-7/8	4-1/8	10
DR72110		J	0.2770	2-7/8	4-1/8	10
DR72111		K	0.2810	2-15/16	4-1/4	10
DR72018	9/32		0.2812	2-15/16	4-1/4	10
DR72112		L	0.2900	2-15/16	4-1/4	10
DR72113		M	0.2950	3-1/16	4-3/8	10
DR72019	19/64		0.2969	3-1/16	4-3/8	10
DR72114		N	0.3020	3-1/16	4-3/8	10
DR72020	5/16		0.3125	3-3/16	4-1/2	10
DR72115		O	0.3160	3-3/16	4-1/2	10
DR72116		P	0.3230	3-5/16	4-5/8	10
DR72021	21/64		0.3281	3-5/16	4-5/8	10
DR72117		Q	0.3320	3-7/16	4-3/4	10
DR72118		R	0.3390	3-7/16	4-3/4	5

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR72022	11/32		0.3438	3-7/16	4-3/4	5
DR72119		S	0.3480	3-1/2	4-7/8	5
DR72120		T	0.3580	3-1/2	4-7/8	5
DR72023	23/64		0.3594	3-1/2	4-7/8	5
DR72121		U	0.3680	3-5/8	5	5
DR72024	3/8		0.3750	3-5/8	5	5
DR72122		V	0.3770	3-5/8	5	5
DR72123		W	0.3860	3-3/4	5-1/8	5
DR72025	25/64		0.3906	3-3/4	5-1/8	5
DR72124		X	0.3970	3-3/4	5-1/8	5
DR72125		Y	0.4040	3-7/8	5-1/4	5
DR72026	13/32		0.4062	3-7/8	5-1/4	5
DR72126		Z	0.4130	3-7/8	5-1/4	5
DR72027	27/64		0.4219	3-15/16	5-3/8	5
DR72028	7/16		0.4375	4-1/16	5-1/2	5
DR72029	29/64		0.4531	4-3/16	5-5/8	5
DR72030	15/32		0.4688	4-5/16	5-3/4	5
DR72031	31/64		0.4844	4-3/8	5-7/8	5
DR72032	1/2		0.5000	4-1/2	6	5



Fast Spiral Drills - DR73

Jobber Length - Fast Spiral

- HSS
- Bright Finish
- 118 Deg Point
- Fast spiral design is ideally suited for non-ferrous materials such as aluminum, zinc, copper, etc.
- Helix design also makes them well suited for deeper holes in both non-ferrous materials as well as mild steel

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR73280		80	0.0135	1/8	3/4	10
DR73279		79	0.0145	1/8	3/4	10
DR73001	1/64		0.0156	3/16	3/4	10
DR73278		78	0.0160	3/16	7/8	10
DR73277		77	0.0180	3/16	7/8	10
DR73276		76	0.0200	3/16	7/8	10
DR73275		75	0.0210	1/4	1	10
DR73274		74	0.0225	1/4	1	10
DR73273		73	0.0240	5/16	1-1/8	10

Longeur du Jobber - Helice Serree

- HSS
- Finition brillante
- 118 degrés
- La conception en spirale rapide convient parfaitement aux matériaux non ferreux tels que l'aluminium, le zinc, le cuivre, etc.
- La conception hélicoïdale les rend également bien adaptés aux trous plus profonds dans les matériaux non ferreux ainsi que dans l'acier doux

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR73272		72	0.0250	5/16	1-1/8	10
DR73271		71	0.0260	3/8	1-1/4	10
DR73270		70	0.0280	3/8	1-1/4	10
DR73269		69	0.0292	1/2	1-3/8	10
DR73268		68	0.0310	1/2	1-3/8	10
DR73002	1/32		0.0312	1/2	1-3/8	10
DR73267		67	0.0320	1/2	1-3/8	10
DR73266		66	0.0330	1/2	1-3/8	10
DR73265		65	0.0350	5/8	1-1/2	10



Fast Spiral Drills - DR73

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR73264		64	0.0360	5/8	1-1/2	10
DR73263		63	0.0370	5/8	1-1/2	10
DR73262		62	0.0380	5/8	1-1/2	10
DR73261		61	0.0390	11/16	1-5/8	10
DR73260		60	0.0400	11/16	1-5/8	10
DR73259		59	0.0410	11/16	1-5/8	10
DR73258		58	0.0420	11/16	1-5/8	10
DR73257		57	0.0430	3/4	1-3/4	10
DR73256		56	0.0465	3/4	1-3/4	10
DR73003	3/64		0.0469	3/4	1-3/4	10
DR73255		55	0.0520	7/8	1-7/8	10
DR73254		54	0.0550	7/8	1-7/8	10
DR73253		53	0.0595	7/8	1-7/8	10
DR73004	1/16		0.0625	7/8	1-7/8	10
DR73252		52	0.0635	7/8	1-7/8	10
DR73251		51	0.0670	1	2	10
DR73250		50	0.0700	1	2	10
DR73249		49	0.0730	1	2	10
DR73248		48	0.0760	1	2	10
DR73005	5/64		0.0781	1	2	10
DR73247		47	0.0785	1	2	10
DR73246		46	0.0810	1-1/8	2-1/8	10
DR73245		45	0.0820	1-1/8	2-1/8	10
DR73244		44	0.0860	1-1/8	2-1/8	10
DR73243		43	0.0890	1-1/4	2-1/4	10
DR73242		42	0.0935	1-1/4	2-1/4	10
DR73006	3/32		0.0938	1-1/4	2-1/4	10
DR73241		41	0.0960	1-3/8	2-3/8	10
DR73240		40	0.0980	1-3/8	2-3/8	10
DR73239		39	0.0995	1-3/8	2-3/8	10
DR73238		38	0.1015	1-7/16	2-1/2	10
DR73237		37	0.1040	1-7/16	2-1/2	10
DR73236		36	0.1065	1-7/16	2-1/2	10
DR73007	7/64		0.1094	1-1/2	2-5/8	10
DR73235		35	0.1100	1-1/2	2-5/8	10
DR73234		34	0.1110	1-1/2	2-5/8	10
DR73233		33	0.1130	1-1/2	2-5/8	10
DR73232		32	0.1160	1-5/8	2-3/4	10
DR73231		31	0.1200	1-5/8	2-3/4	10
DR73008	1/8		0.1250	1-5/8	2-3/4	10
DR73230		30	0.1285	1-5/8	2-3/4	10
DR73229		29	0.1360	1-3/4	2-7/8	10

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR73228		28	0.1405	1-3/4	2-7/8	10
DR73009	9/64		0.1406	1-3/4	2-7/8	10
DR73227		27	0.1440	1-7/8	3	10
DR73226		26	0.1470	1-7/8	3	10
DR73225		25	0.1495	1-7/8	3	10
DR73224		24	0.1520	2	3-1/8	10
DR73223		23	0.1540	2	3-1/8	10
DR73010	5/32		0.1562	2	3-1/8	10
DR73222		22	0.1570	2	3-1/8	10
DR73221		21	0.1590	2-1/8	3-1/4	10
DR73220		20	0.1610	2-1/8	3-1/4	10
DR73219		19	0.1660	2-1/8	3-1/4	10
DR73218		18	0.1695	2-1/8	3-1/4	10
DR73011	11/64		0.1719	2-1/8	3-1/4	10
DR73217		17	0.1730	2-3/16	3-3/8	10
DR73216		16	0.1770	2-3/16	3-3/8	10
DR73215		15	0.1800	2-3/16	3-3/8	10
DR73214		14	0.1820	2-3/16	3-3/8	10
DR73213		13	0.1850	2-5/16	3-1/2	10
DR73012	3/16		0.1875	2-5/16	3-1/2	10
DR73212		12	0.1890	2-5/16	3-1/2	10
DR73211		11	0.1910	2-5/16	3-1/2	10
DR73210		10	0.1935	2-7/16	3-5/8	10
DR73209		9	0.1960	2-7/16	3-5/8	10
DR73208		8	0.1990	2-7/16	3-5/8	10
DR73207		7	0.2010	2-7/16	3-5/8	10
DR73013	13/64		0.2031	2-7/16	3-5/8	10
DR73206		6	0.2040	2-1/2	3-3/4	10
DR73205		5	0.2055	2-1/2	3-3/4	10
DR73204		4	0.2090	2-1/2	3-3/4	10
DR73203		3	0.2130	2-1/2	3-3/4	10
DR73014	7/32		0.2188	2-1/2	3-3/4	10
DR73202		2	0.2210	2-5/8	3-7/8	10
DR73201		1	0.2280	2-5/8	3-7/8	10
DR73101		A	0.2340	2-5/8	3-7/8	10
DR73015	15/64		0.2344	2-5/8	3-7/8	10
DR73102		B	0.2380	2-3/4	4	10
DR73103		C	0.2420	2-3/4	4	10
DR73104		D	0.2460	2-3/4	4	10
DR73016	1/4	E	0.2500	2-3/4	4	10
DR73106		F	0.2570	2-7/8	4-1/8	10
DR73107		G	0.2610	2-7/8	4-1/8	10

Continued



Fast Spiral Drills - DR73

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR73017	17/64		0.2656	2-7/8	4-1/8	10
DR73108		H	0.2660	2-7/8	4-1/8	10
DR73109		I	0.2720	2-7/8	4-1/8	10
DR73110		J	0.2770	2-7/8	4-1/8	10
DR73111		K	0.2810	2-15/16	4-1/4	10
DR73018	9/32		0.2812	2-15/16	4-1/4	10
DR73112		L	0.2900	2-15/16	4-1/4	10
DR73113		M	0.2950	3-1/16	4-3/8	10
DR73019	19/64		0.2969	3-1/16	4-3/8	10
DR73114		N	0.3020	3-1/16	4-3/8	10
DR73020	5/16		0.3125	3-3/16	4-1/2	10
DR73115		O	0.3160	3-3/16	4-1/2	10
DR73116		P	0.3230	3-5/16	4-5/8	10
DR73021	21/64		0.3281	3-5/16	4-5/8	10
DR73117		Q	0.3320	3-7/16	4-3/4	10
DR73118		R	0.3390	3-7/16	4-3/4	5
DR73022	11/32		0.3438	3-7/16	4-3/4	5
DR73119		S	0.3480	3-1/2	4-7/8	5

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR73120		T	0.3580	3-1/2	4-7/8	5
DR73023	23/64		0.3594	3-1/2	4-7/8	5
DR73121		U	0.3680	3-5/8	5	5
DR73024	3/8		0.3750	3-5/8	5	5
DR73122		V	0.3770	3-5/8	5	5
DR73123		W	0.3860	3-3/4	5-1/8	5
DR73025	25/64		0.3906	3-3/4	5-1/8	5
DR73124		X	0.3970	3-3/4	5-1/8	5
DR73125		Y	0.4040	3-7/8	5-1/4	5
DR73026	13/32		0.4062	3-7/8	5-1/4	5
DR73126		Z	0.4130	3-7/8	5-1/4	5
DR73027	27/64		0.4219	3-15/16	5-3/8	5
DR73028	7/16		0.4375	4-1/16	5-1/2	5
DR73029	29/64		0.4531	4-3/16	5-5/8	5
DR73030	15/32		0.4688	4-5/16	5-3/4	5
DR73031	31/64		0.4844	4-3/8	5-7/8	5
DR73032	1/2		0.5000	4-1/2	6	5



Hyper Jobber Drill - ZD16

Jobber Length

- HSS
- Black oxide finish for increased wear resistance and added lubricity
- 118 Deg point suitable for general purpose drilling in a wide range of materials
- Steam Oxide surface treatment increases lubricant retention and wear resistance and reduces chip welding

Longeur du Jobber

- HSS
- Finition oxyde noir pour une résistance accrue à l'usure et un pouvoir lubrifiant accru
- Point de 118 degrés adapté au forage à usage général dans une large gamme de matériaux
- Le traitement de surface à l'oxyde de vapeur augmente la rétention de lubrifiant et la résistance à l'usure et réduit le soudage des copeaux

CODE	FRAC	NO	DEC	FLT	OA	PKG
ZD16260		60	0.0400	11/16	1-5/8	12
ZD16259		59	0.0410	11/16	1-5/8	12
ZD16258		58	0.0420	11/16	1-5/8	12
ZD16257		57	0.0430	3/4	1-3/4	12
ZD16256		56	0.0465	3/4	1-3/4	12
ZD16003	3/64		0.0469	7/8	1-7/8	12
ZD16255		55	0.0520	7/8	1-7/8	12
ZD16254		54	0.0550	7/8	1-7/8	12

CODE	FRAC	NO	DEC	FLT	OA	PKG
ZD16253		53	0.0595	7/8	1-7/8	12
ZD16004	1/16		0.0625	7/8	1-7/8	12
ZD16252		52	0.0635	7/8	1-7/8	12
ZD16251		51	0.0670	1"	2"	12
ZD16250		50	0.0700	1"	2"	12
ZD16249		49	0.0730	1"	2"	12
ZD16248		48	0.0760	1"	2"	12
ZD16005	5/64		0.0781	1"	2"	12



Hyper Jobber Drill - ZD16

CODE	FRAC	NO	DEC	FLT	OA	PKG
ZD16247		47	0.0785	1"	2"	12
ZD16246		46	0.0810	1-1/8	2-1/8	12
ZD16245		45	0.0820	1-1/8	2-1/8	12
ZD16244		44	0.0860	1-1/8	2-1/8	12
ZD16243		43	0.0890	1-1/4	2-1/4	12
ZD16242		42	0.0935	1-1/4	2-1/4	12
ZD16006	3/32		0.0938	1-1/4	2-1/4	12
ZD16241		41	0.0960	1-3/8	2-3/8	12
ZD16240		40	0.0980	1-3/8	2-3/8	12
ZD16239		39	0.0995	1-3/8	2-3/8	12
ZD16238		38	0.1015	1-7/16	2-1/2	12
ZD16237		37	0.1040	1-7/16	2-1/2	12
ZD16236		36	0.1065	1-7/16	2-1/2	12
ZD16007	7/64		0.1094	1-1/2	2-5/8	12
ZD16235		35	0.1100	1-1/2	2-5/8	12
ZD16234		34	0.1110	1-1/2	2-5/8	12
ZD16233		33	0.1130	1-1/2	2-5/8	12
ZD16232		32	0.1160	1-5/8	2-3/4	12
ZD16231		31	0.1200	1-5/8	2-3/4	12
ZD16008	1/8		0.1250	1-5/8	2-3/4	12
ZD16230		30	0.1285	1-5/8	2-3/4	12
ZD16229		29	0.1360	1-3/4	2-7/8	12
ZD16228		28	0.1405	1-3/4	2-7/8	12
ZD16009	9/64		0.1406	1-3/4	2-7/8	12
ZD16227		27	0.1440	1-7/8	3"	12
ZD16226		26	0.1470	1-7/8	3"	12
ZD16225		25	0.1495	1-7/8	3"	12
ZD16224		24	0.1520	2"	3-1/8	12
ZD16223		23	0.1540	2"	3-1/8	12
ZD16010	5/32		0.1562	2"	3-1/8	12
ZD16222		22	0.1570	2"	3-1/8	12
ZD16221		21	0.1590	2-1/8	3-1/4	12
ZD16220		20	0.1610	2-1/8	3-1/4	12
ZD16219		19	0.1660	2-1/8	3-1/4	12
ZD16218		18	0.1695	2-1/8	3-1/4	12
ZD16011	11/64		0.1719	2-1/8	3-1/4	12
ZD16217		17	0.1730	2-3/16	3-3/8	12
ZD16216		16	0.1770	2-3/16	3-3/8	12
ZD16215		15	0.1800	2-3/16	3-3/8	12
ZD16214		14	0.1820	2-3/16	3-3/8	12

CODE	FRAC	NO	DEC	FLT	OA	PKG
ZD16213		13	0.1850	2-5/16	3-1/2	12
ZD16012	3/16		0.1875	2-5/16	3-1/2	12
ZD16212		12	0.1890	2-5/16	3-1/2	12
ZD16211		11	0.1910	2-5/16	3-1/2	12
ZD16210		10	0.1935	2-7/16	3-5/8	12
ZD16209		9	0.1960	2-7/16	3-5/8	12
ZD16208		8	0.1990	2-7/16	3-5/8	12
ZD16207		7	0.2010	2-7/16	3-5/8	12
ZD16013	13/64		0.2031	2-7/16	3-5/8	12
ZD16206		6	0.2040	2-1/2	3-3/4	12
ZD16205		5	0.2055	2-1/2	3-3/4	12
ZD16204		4	0.2090	2-1/2	3-3/4	12
ZD16203		3	0.2130	2-1/2	3-3/4	12
ZD16014	7/32		0.2188	2-1/2	3-3/4	12
ZD16202		2	0.2210	2-5/8	3-7/8	12
ZD16201		1	0.2280	2-5/8	3-7/8	12
ZD16101		A	0.2340	2-5/8	3-7/8	12
ZD16015	15/64		0.2344	2-5/8	3-7/8	12
ZD16102		B	0.2380	2-3/4	4"	12
ZD16103		C	0.2420	2-3/4	4"	12
ZD16104		D	0.2460	2-3/4	4"	12
ZD16016	1/4		0.2500	2-3/4	4"	12
ZD16105		E	0.2500	2-3/4	4"	12
ZD16106		F	0.2570	2-7/8	4-1/8	12
ZD16107		G	0.2610	2-7/8	4-1/8	12
ZD16017	17/64		0.2656	2-7/8	4-1/8	12
ZD16108		H	0.2660	2-7/8	4-1/8	12
ZD16109		I	0.2720	2-7/8	4-1/8	12
ZD16110		J	0.2770	2-7/8	4-1/8	12
ZD16111		K	0.2810	2-15/16	4-1/4	12
ZD16018	9/32		0.2812	2-15/16	4-1/4	12
ZD16112		L	0.2900	2-15/16	4-1/4	12
ZD16113		M	0.2950	3-1/16	4-3/8	12
ZD16019	19/64		0.2969	3-1/16	4-3/8	12
ZD16114		N	0.3020	3-1/16	4-3/8	12
ZD16020	5/16		0.3125	3-3/16	4-1/2	12
ZD16115		O	0.3160	3-3/16	4-1/2	12
ZD16116		P	0.3230	3-5/16	4-5/8	6
ZD16021	21/64		0.3281	3-5/16	4-5/8	6
ZD16117		Q	0.3320	3-7/16	4-3/4	6

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Hyper Jobber Drill - ZD16

CODE	FRAC	NO	DEC	FLT	OA	PKG
ZD16118		R	0.3390	3-7/16	4-3/4	6
ZD16022	11/32		0.3438	3-7/16	4-3/4	6
ZD16119		S	0.3480	3-1/2	4-7/8	6
ZD16120		T	0.3580	3-1/2	4-7/8	6
ZD16023	23/64		0.3594	3-1/2	4-7/8	6
ZD16121		U	0.3680	3-5/8	5"	6
ZD16024	3/8		0.3750	3-5/8	5"	6
ZD16122		V	0.3770	3-5/8	5"	6
ZD16123		W	0.3860	3-3/4	5-1/8	6
ZD16025	25/64		0.3906	3-3/4	5-1/8	6

CODE	FRAC	NO	DEC	FLT	OA	PKG
ZD16124		X	0.3970	3-3/4	5-1/8	6
ZD16125		Y	0.4040	3-7/8	5-1/4	6
ZD16026	13/32		0.4062	3-7/8	5-1/4	6
ZD16126		Z	0.4130	3-7/8	5-1/4	6
ZD16027	27/64		0.4219	3-15/16	5-3/8	6
ZD16028	7/16		0.4375	4-1/16	5-1/2	6
ZD16029	29/64		0.4531	4-3/16	5-5/8	6
ZD16030	15/32		0.4688	4-5/16	5-3/4	6
ZD16031	31/64		0.4844	4-3/8	5-7/8	6
ZD16032	1/2		0.5000	4-1/2	6"	6



Half Round Drills - DR53

Jobber Length - Half-Round

- HSS
- Black oxide finish for increased wear resistance and added lubricity
- 118 Deg point
- These drills allow greater chip clearance and have less tendency to run out in deeper hole applications
- As a result, the hole size is more accurate and they provide a smooth finish in many applications
- They can be used in drilling brass, copper, hard rubber, fiberglass and other materials

Longeur du Jobber - Demi Ronde

- HSS
- Finition oxyde noir pour une résistance accrue à l'usure et un pouvoir lubrifiant accru
- Point de 118 degrés
- Ces forets permettent un plus grand dégagement des copeaux et ont moins tendance à s'épuiser dans les applications de trous plus profonds
- En conséquence, la taille du trou est plus précise et offre une finition lisse dans de nombreuses applications
- Ils peuvent être utilisés pour percer le laiton, le cuivre, le caoutchouc dur, la fibre de verre et d'autres matériaux

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR53260		60	0.0400	11/16	1-5/8	1
DR53259		59	0.0410	11/16	1-5/8	1
DR53258		58	0.0420	11/16	1-5/8	1
DR53257		57	0.0430	3/4	1-3/4	1
DR53256		56	0.0465	3/4	1-3/4	1
DR53255		55	0.0520	7/8	1-7/8	1
DR53004	1/16		0.0625	7/8	1-7/8	1
DR53252		52	0.0635	7/8	1-7/8	1
DR53251		51	0.0670	1	2	1
DR53250		50	0.0700	1	2	1

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR53249		49	0.0730	1	2	1
DR53248		48	0.0760	1	2	1
DR53005	5/64		0.0781	1	2	1
DR53247		47	0.0785	1	2	1
DR53246		46	0.0810	1-1/8	2-1/8	1
DR53245		45	0.0820	1-1/8	2-1/8	1
DR53244		44	0.0860	1-1/8	2-1/8	1
DR53243		43	0.0890	1-1/4	2-1/4	1
DR53242		42	0.0935	1-1/4	2-1/4	1
DR53006	3/32		0.0938	1-1/4	2-1/4	1



Half Round Drills - DR53

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR53241		41	0.0960	1-3/8	2-3/8	1
DR53240		40	0.0980	1-3/8	2-3/8	1
DR53239		39	0.0995	1-3/8	2-3/8	1
DR53238		38	0.1015	1-7/16	2-1/2	1
DR53237		37	0.1040	1-7/16	2-1/2	1
DR53236		36	0.1065	1-7/16	2-1/2	1
DR53007	7/64		0.1094	1-1/2	2-5/8	1
DR53235		35	0.1100	1-1/2	2-5/8	1
DR53234		34	0.1110	1-1/2	2-5/8	1
DR53233		33	0.1130	1-1/2	2-5/8	1
DR53232		32	0.1160	1-5/8	2-3/4	1
DR53231		31	0.1200	1-5/8	2-3/4	1
DR53008	1/8		0.1250	1-5/8	2-3/4	1
DR53230		30	0.1285	1-5/8	2-3/4	1
DR53229		29	0.1360	1-3/4	2-7/8	1
DR53228		28	0.1405	1-3/4	2-7/8	1
DR53009	9/64		0.1406	1-3/4	2-7/8	1
DR53227		27	0.1440	1-7/8	3	1
DR53226		26	0.1470	1-7/8	3	1
DR53225		25	0.1495	1-7/8	3	1
DR53224		24	0.1520	2	3-1/8	1
DR53223		23	0.1540	2	3-1/8	1
DR53010	5/32		0.1562	2	3-1/8	1
DR53222		22	0.1570	2	3-1/8	1
DR53221		21	0.1590	2-1/8	3-1/4	1
DR53220		20	0.1610	2-1/8	3-1/4	1
DR53219		19	0.1660	2-1/8	3-1/4	1
DR53218		18	0.1695	2-1/8	3-1/4	1
DR53011	11/64		0.1719	2-1/8	3-1/4	1
DR53217		17	0.1730	2-3/16	3-3/8	1
DR53216		16	0.1770	2-3/16	3-3/8	1
DR53215		15	0.1800	2-3/16	3-3/8	1
DR53214		14	0.1820	2-3/16	3-3/8	1
DR53213		13	0.1850	2-5/16	3-1/2	1

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR53012	3/16		0.1875	2-5/16	3-1/2	1
DR53212		12	0.1890	2-5/16	3-1/2	1
DR53211		11	0.1910	2-5/16	3-1/2	1
DR53210		10	0.1935	2-7/16	3-5/8	1
DR53209		9	0.1960	2-7/16	3-5/8	1
DR53208		8	0.1990	2-7/16	3-5/8	1
DR53207		7	0.2010	2-7/16	3-5/8	1
DR53013	13/64		0.2031	2-7/16	3-5/8	1
DR53206		6	0.2040	2-1/2	3-3/4	1
DR53205		5	0.2055	2-1/2	3-3/4	1
DR53204		4	0.2090	2-1/2	3-3/4	1
DR53203		3	0.2130	2-1/2	3-3/4	1
DR53014	7/32		0.2188	2-1/2	3-3/4	1
DR53202		2	0.2210	2-5/8	3-7/8	1
DR53201		1	0.2280	2-5/8	3-7/8	1
DR53015	15/64		0.2344	2-5/8	3-7/8	1
DR53016	1/4		0.2500	2-3/4	4	1
DR53017	17/64		0.2656	2-7/8	4-1/8	1
DR53018	9/32		0.2812	2-15/16	4-1/4	1
DR53019	19/64		0.2969	3-1/16	4-3/8	1
DR53020	5/16		0.3125	3-3/16	4-1/2	1
DR53021	21/64		0.3281	3-5/16	4-5/8	1
DR53022	11/32		0.3438	3-7/16	4-3/4	1
DR53023	23/64		0.3594	3-1/2	4-7/8	1
DR53024	3/8		0.3750	3-5/8	5	1
DR53025	25/64		0.3906	3-3/4	5-1/8	1
DR53026	13/32		0.4062	3-7/8	5-1/4	1
DR53027	27/64		0.4219	3-15/16	5-3/8	1
DR53028	7/16		0.4375	4-1/16	5-1/2	1
DR53029	29/64		0.4531	4-3/16	5-5/8	1
DR53030	15/32		0.4688	4-5/16	5-3/4	1
DR53031	31/64		0.4844	4-3/8	5-7/8	1
DR53032	1/2		0.5000	4-1/2	6	1



Drill Blanks - DR75

Jobber Length

- Premium HSS
- Bright Finish
- Made to the same length as jobber length drills
- Can be used as punches, gauges, pins or ground for special tools

CODE	FRAC	NO	MM	DEC	OA	PKG
DR75280		80		0.0135	3/4	10
DR75279		79		0.0145	3/4	10
DR75001	1/64			0.0156	3/4	10
DR75278		78		0.0160	7/8	10
DR75277		77		0.0180	7/8	10
DR75276		76		0.0200	7/8	10
DR75275		75		0.0210	1	10
DR75274		74		0.0225	1	10
DR75273		73		0.0240	1-1/8	10
DR75272		72		0.0250	1-1/8	10
DR75271		71		0.0260	1-1/4	10
DR75270		70		0.0280	1-1/4	10
DR75269		69		0.0292	1-3/8	10
DR75268		68		0.0310	1-3/8	10
DR75002	1/32			0.0312	1-3/8	10
DR75267		67		0.0320	1-3/8	10
DR75266		66		0.0330	1-3/8	10
DR75265		65		0.0350	1-1/2	10
DR75264		64		0.0360	1-1/2	10
DR75263		63		0.0370	1-1/2	10
DR75262		62		0.0380	1-1/2	10
DR75261		61		0.0390	1-5/8	10
DR75510			1.00	0.0394	34.0	10
DR75260		60		0.0400	1-5/8	10
DR75259		59		0.0410	1-5/8	10
DR75258		58		0.0420	1-5/8	10
DR75257		57		0.0430	1-3/4	10
DR75511			1.10	0.0433	36.0	10
DR75256		56		0.0465	1-3/4	10
DR75003	3/64			0.0469	1-3/4	10
DR75512			1.20	0.0472	38.0	10
DR75513			1.30	0.0512	38.0	10
DR75255		55		0.0520	1-7/8	10
DR75254		54		0.0550	1-7/8	10
DR75514			1.40	0.0551	40.0	10
DR75515			1.50	0.0591	40.0	10

Longueur du Jobber

- HSS Premium
- Finition brillante
- Fabriqué à la même longueur que les forets à queue cylindrique
- Peut être utilisé comme poinçons, jauges, épingles ou au sol pour des outils spéciaux

CODE	FRAC	NO	MM	DEC	OA	PKG
DR75253		53		0.0595	1-7/8	10
DR75004	1/16			0.0625	1-7/8	10
DR75516			1.60	0.0630	43.0	10
DR75252		52		0.0635	1-7/8	10
DR75517			1.70	0.0669	43.0	10
DR75251		51		0.0670	2	10
DR75250		50		0.0700	2	10
DR75518			1.80	0.0709	46.0	10
DR75249		49		0.0730	2	10
DR75519			1.90	0.0748	46.0	10
DR75248		48		0.0760	2	10
DR75005	5/64			0.0781	2	10
DR75247		47		0.0785	2	10
DR75520			2.00	0.0787	49.0	10
DR75246		46		0.0810	2-1/8	10
DR75245		45		0.0820	2-1/8	10
DR75521			2.10	0.0827	49.0	10
DR75244		44		0.0860	2-1/8	10
DR75522			2.20	0.0866	53.0	10
DR75243		43		0.0890	2-1/4	10
DR75523			2.30	0.0906	53.0	10
DR75242		42		0.0935	2-1/4	10
DR75006	3/32			0.0938	2-1/4	10
DR75524			2.40	0.0945	57.0	10
DR75241		41		0.0960	2-3/8	10
DR75240		40		0.0980	2-3/8	10
DR75525			2.50	0.0984	57.0	10
DR75239		39		0.0995	2-3/8	10
DR75238		38		0.1015	2-1/2	10
DR75526			2.60	0.1024	2-1/2	10
DR75237		37		0.1040	2-1/2	10
DR75527			2.70	0.1043	57.0	10
DR75236		36		0.1065	2-1/2	10
DR75007	7/64			0.1094	2-5/8	10
DR75235		35		0.1100	2-5/8	10
DR75528			2.80	0.1102	61.0	10



Drill Blanks - DR75

CODE	FRAC	NO	MM	DEC	OA	PKG
DR75234		34		0.1110	2-5/8	10
DR75233		33		0.1130	2-5/8	10
DR75529			2.90	0.1142	61.0	10
DR75232		32		0.1160	2-3/4	10
DR75530			3.00	0.1181	61.0	10
DR75231		31		0.1200	2-3/4	10
DR75531			3.10	0.1220	65.0	10
DR75008	1/8			0.1250	2-3/4	10
DR75532			3.20	0.1260	65.0	10
DR75230		30		0.1285	2-3/4	10
DR75533			3.30	0.1299	65.0	10
DR75534			3.40	0.1339	70.0	10
DR75229		29		0.1360	2-7/8	10
DR75535			3.50	0.1378	70.0	10
DR75228		28		0.1405	2-7/8	10
DR75009	9/64			0.1406	2-7/8	10
DR75536			3.60	0.1417	70.0	10
DR75227		27		0.1440	3	10
DR75537			3.70	0.1457	70.0	10
DR75226		26		0.1470	3	10
DR75225		25		0.1495	3	10
DR75538			3.80	0.1496	75.0	10
DR75224		24		0.1520	3-1/8	10
DR75539			3.90	0.1535	75.0	10
DR75223		23		0.1540	3-1/8	10
DR75010	5/32			0.1562	3-1/8	10
DR75222		22		0.1570	3-1/8	10
DR75540			4.00	0.1575	75.0	10
DR75221		21		0.1590	3-1/4	10
DR75220		20		0.1610	3-1/4	10
DR75541			4.10	0.1614	75.0	10
DR75542			4.20	0.1654	75.0	10
DR75219		19		0.1660	3-1/4	10
DR75543			4.30	0.1693	80.0	10
DR75218		18		0.1695	3-1/4	10
DR75011	11/64			0.1719	3-1/4	10
DR75217		17		0.1730	3-3/8	10
DR75544			4.40	0.1732	80.0	10
DR75216		16		0.1770	3-3/8	10
DR75545			4.50	0.1772	80.0	10
DR75215		15		0.1800	3-3/8	10
DR75546			4.60	0.1811	80.0	10

CODE	FRAC	NO	MM	DEC	OA	PKG
DR75214		14		0.1820	3-3/8	10
DR75547			4.70	0.1850	80.0	10
DR75213		13		0.1850	3-1/2	10
DR75012	3/16			0.1875	86.0	10
DR75548			4.80	0.1890	86.0	10
DR75212		12		0.1890	3-1/2	10
DR75211		11		0.1910	3-1/2	10
DR75549			4.90	0.1929	86.0	10
DR75210		10		0.1935	3-5/8	10
DR75209		9		0.1960	3-5/8	10
DR75550			5.00	0.1968	86.0	10
DR75208		8		0.1990	3-5/8	10
DR75551			5.10	0.2008	86.0	10
DR75207		7		0.2010	3-5/8	10
DR75013	13/64			0.2031	3-5/8	10
DR75206		6		0.2040	3-3/4	10
DR75552			5.20	0.2047	86.0	10
DR75205		5		0.2055	3-3/4	10
DR75553			5.30	0.2087	86.0	10
DR75204		4		0.2090	3-3/4	10
DR75554			5.40	0.2126	93.0	10
DR75203		3		0.2130	3-3/4	10
DR75555			5.50	0.2165	93.0	10
DR75014	7/32			0.2188	3-3/4	10
DR75556			5.60	0.2205	93.0	10
DR75202		2		0.2210	3-7/8	10
DR75557			5.70	0.2244	93.0	10
DR75201		1		0.2280	3-7/8	10
DR75558			5.80	0.2283	93.0	10
DR75559			5.90	0.2323	93.0	10
DR75101		A		0.2340	3-7/8	10
DR75015	15/64			0.2344	3-7/8	10
DR75560			6.00	0.2362	93.0	10
DR75102		B		0.2380	4	10
DR75561			6.10	0.2402	101.0	10
DR75103		C		0.2420	4	10
DR75562			6.20	0.2441	101.0	10
DR75104		D		0.2460	4	10
DR75563			6.30	0.2480	101.0	10
DR75016	1/4	E		0.2500	4	10
DR75564			6.40	0.2520	101.0	10
DR75565			6.50	0.2559	101.0	10

Continued



Drill Blanks - DR75

CODE	FRAC	NO	MM	DEC	OA	PKG
DR75106		F		0.2570	4-1/8	10
DR75566			6.60	0.2598	101.0	10
DR75107		G		0.2610	4-1/8	10
DR75567			6.70	0.2638	101.0	10
DR75017	17/64			0.2656	109.0	10
DR75108		H		0.2660	4-1/8	10
DR75568			6.80	0.2677	109.0	10
DR75569			6.90	0.2717	109.0	10
DR75109		I		0.2720	4-1/8	10
DR75570			7.00	0.2756	109.0	10
DR75110		J		0.2770	4-1/8	10
DR75571			7.10	0.2795	109.0	10
DR75111		K		0.2810	4-1/4	10
DR75018	9/32			0.2812	4-1/4	10
DR75572			7.20	0.2835	109.0	10
DR75573			7.30	0.2874	109.0	10
DR75112		L		0.2900	4-1/4	10
DR75574			7.40	0.2913	109.0	10
DR75113		M		0.2950	4-3/8	10
DR75575			7.50	0.2953	109.0	10
DR75019	19/64			0.2969	117.0	10
DR75576			7.60	0.2992	117.0	10
DR75114		N		0.3020	4-3/8	10
DR75577			7.70	0.3031	117.0	10
DR75578			7.80	0.3071	117.0	10
DR75579			7.90	0.3110	117.0	10
DR75020	5/16			0.3125	117.0	10
DR75580			8.00	0.3150	117.0	10
DR75115		O		0.3160	4-1/2	10
DR75581			8.10	0.3189	117.0	10
DR75582			8.20	0.3228	117.0	10
DR75116		P		0.3230	4-5/8	10
DR75583			8.30	0.3268	117.0	10
DR75021	21/64			0.3281	4-5/8	10
DR75584			8.40	0.3307	117.0	10
DR75117		Q		0.3320	4-3/4	10
DR75585			8.50	0.3346	117.0	10
DR75586			8.60	0.3386	125.0	5
DR75118		R		0.3390	4-3/4	5
DR75587			8.70	0.3425	125.0	5
DR75022	11/32			0.3438	4-3/4	5
DR75588			8.80	0.3465	125.0	5

CODE	FRAC	NO	MM	DEC	OA	PKG
DR75119		S		0.3480	4-7/8	5
DR75589			8.90	0.3504	125.0	5
DR75590			9.00	0.3543	125.0	5
DR75120		T		0.3580	4-7/8	5
DR75591			9.10	0.3583	125.0	5
DR75023	23/64			0.3594	125.0	5
DR75121		U		0.3680	5	5
DR75595			9.50	0.3740	125.0	5
DR75024	3/8			0.3750	133.0	5
DR75122		V		0.3770	5	5
DR75123		W		0.3860	5-1/8	5
DR75025	25/64			0.3906	133.0	5
DR75600			10.00	0.3937	133.0	5
DR75124		X		0.3970	5-1/8	5
DR75125		Y		0.4040	5-1/4	5
DR75026	13/32			0.4062	133.0	5
DR75126		Z		0.4130	5-1/4	5
DR75605			10.50	0.4134	133.0	5
DR75027	27/64			0.4219	5-3/8	5
DR75610			11.00	0.4331	142.0	5
DR75028	7/16			0.4375	142.0	5
DR75615			11.50	0.4528	142.0	5
DR75029	29/64			0.4531	5-5/8	5
DR75030	15/32			0.4688	151.0	5
DR75620			12.00	0.4724	151.0	5
DR75031	31/64			0.4844	151.0	5
DR75625			12.50	0.4921	151.0	5
DR75032	1/2			0.5000	6	5
DR75630			13.00	0.5118	151.0	5
DR75033	33/64			0.5156	6	1
DR75034	17/32			0.5312	6	1
DR75035	35/64			0.5469	6	1
DR75036	9/16			0.5625	6	1
DR75037	37/64			0.5781	6	1
DR75038	19/32			0.5938	6	1
DR75039	39/64			0.6094	6	1
DR75040	5/8			0.6250	6	1
DR75041	41/64			0.6406	6	1
DR75042	21/32			0.6562	6	1
DR75043	43/64			0.6719	6	1
DR75044	11/16			0.6875	6	1
DR75048	3/4			0.7500	6	1

Continued



Drill Blanks - DR75

CODE	FRAC	NO	MM	DEC	OA	PKG
DR75049	49/64			0.7656	6	1
DR75050	25/32			0.7813	6	1
DR75051	51/64			0.7969	6	1
DR75052	13/16			0.8125	6	1
DR75053	53/64			0.8281	6	1
DR75054	27/32			0.8438	6	1
DR75055	55/64			0.8594	6	1
DR75056	7/8			0.8750	6	1

CODE	FRAC	NO	MM	DEC	OA	PKG
DR75057	57/64			0.8906	6	1
DR75058	29/32			0.9063	6	1
DR75059	59/64			0.9219	6	1
DR75060	15/16			0.9375	6	1
DR75061	61/64			0.9531	6	1
DR75062	31/32			0.9688	6	1
DR75063	63/64			0.9844	6	1
DR75100	1			1.0000	6	1



Mechanic Length Drills - DF17

Mechanic Length Drills

- Special Hi-Molybdenum tool steel
- Flats on shank give positive chuck-grip (3/16" and Larger)
- 135 Deg split point for fast penetration and accurate starting (self-centering) which eliminates "Walking" and reduces the thrust force needed
- Body and clearance are gold surface treated for maximum lubricity
- Mechanics Length drills have a shorter flute length and overall length vs jobber drills which makes them less prone to breakage

CODE	FRAC	DEC	FLT	OA	PKG
DF17004	1/16	0.0625	7/8	1-7/8	10
DF17005	5/64	0.0781	1	2	10
DF17006	3/32	0.0938	1-1/4	2-1/4	10
DF17007	7/64	0.1094	1-5/16	2-3/8	10
DF17008	1/8	0.1250	1-7/16	2-1/2	10
DF17009	9/64	0.1406	1-9/16	2-5/8	10
DF17010	5/32	0.1562	1-11/16	2-3/4	10
DF17011	11/64	0.1719	1-13/16	2-7/8	10
DF17012	3/16	0.1875	1-7/8	3	10
DF17013	13/64	0.2031	1-15/16	3-1/8	10
DF17014	7/32	0.2188	2	3-1/4	10
DF17015	15/64	0.2344	2-1/16	3-3/8	10
DF17016	1/4	0.2500	2	3-1/2	10
DF17017	17/64	0.2656	2-1/8	3-5/8	10

Forets Longueur Mechanique

- Acier à outils spécial Hi-Molybdène
- Les méplats sur la tige offrent une prise en main positive (3/16" et plus)
- Point de partage à 135 degrés pour une pénétration rapide et un démarrage précis (auto-centrage) qui élimine la «marche» et réduit la force de poussée nécessaire
- Le corps et le dégagement sont traités en surface dorée pour un pouvoir lubrifiant maximal
- Les forets de longueur mécanique ont une longueur de flûte et une longueur totale plus courtes que les forets Jobber, ce qui les rend moins sujets à la rupture

CODE	FRAC	DEC	FLT	OA	PKG
DF17018	9/32	0.2812	2-1/4	3-3/4	10
DF17019	19/64	0.2969	1	2	10
DF17020	5/16	0.3125	2-1/2	4	10
DF17021	21/64	0.3281	2-9/16	4-1/16	10
DF17022	11/32	0.3438	2-5/8	4-1/8	5
DF17023	23/64	0.3594	2-11/16	4-3/16	5
DF17024	3/8	0.3750	2-11/16	4-1/4	5
DF17025	25/64	0.3906	2-3/4	4-5/16	5
DF17026	13/32	0.4062	2-13/16	3	5
DF17027	27/64	0.4219	2-7/8	4-7/16	5
DF17028	7/16	0.4375	2	4-1/2	5
DF17029	29/64	0.4531	3	4-5/8	5
DF17030	15/32	0.4688	2	4-3/4	5
DF17031	31/64	0.4844	3-1/4	4-7/8	5
DF17032	1/2	0.5000	3-3/8	5	5



Stub Drills - DR12

Screw Machine Length

- HSS
- Black oxide finish for increased wear resistance and added lubricity
- 135 Deg split point for fast penetration and accurate starting (self-centering) which eliminates "Walking" and reduces the thrust force needed
- Steam Oxide surface treatment increases lubricant retention and wear resistance and reduces chip welding
- The short flute and overall length provide maximum rigidity, hole accuracy, and tool life
- Suitable for various steels, stainless steel and sheet metal

Longueur de la Machine à vis

- HSS
- Finition oxyde noir pour une résistance accrue à l'usure et un pouvoir lubrifiant accru
- Point de partage à 135 degrés pour une pénétration rapide et un démarrage précis (auto-centrage) qui élimine la «marche» et réduit la force de poussée nécessaire
- Le traitement de surface à l'oxyde de vapeur augmente la rétention de lubrifiant et la résistance à l'usure et réduit le soudage des copeaux
- La flûte courte et la longueur totale offrent une rigidité, une précision des trous et une durée de vie maximales
- Convient pour divers aciers, acier inoxydable, tôle

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR12260		60	0.0400	1/2	1-3/8	10
DR12259		59	0.0410	1/2	1-3/8	10
DR12258		58	0.0420	1/2	1-3/8	10
DR12257		57	0.0430	1/2	1-3/8	10
DR12256		56	0.0465	1/2	1-3/8	10
DR12003	3/64		0.0469	1/2	1-3/8	10
DR12255		55	0.0520	5/8	1-5/8	10
DR12254		54	0.0550	5/8	1-5/8	10
DR12253		53	0.0595	5/8	1-5/8	10
DR12004	1/16		0.0625	13/32	1-11/32	10
DR12252		52	0.0635	11/16	1-11/16	10
DR12251		51	0.0670	11/16	1-11/16	10
DR12250		50	0.0700	11/16	1-11/16	10
DR12249		49	0.0730	11/16	1-11/16	10
DR12248		48	0.0760	11/16	1-11/16	10
DR12005	5/64		0.0781	15/32	1-1/2	10
DR12247		47	0.0785	3/4	1-3/4	10
DR12246		46	0.0810	3/4	1-3/4	10
DR12245		45	0.0820	3/4	1-3/4	10
DR12244		44	0.0860	3/4	1-3/4	10
DR12243		43	0.0890	3/4	1-3/4	10
DR12242		42	0.0935	3/4	1-3/4	10
DR12006	3/32		0.0938	9/16	1-11/16	10
DR12241		41	0.0960	13/16	1-13/16	10
DR12240		40	0.0980	13/16	1-13/16	10
DR12239		39	0.0995	13/16	1-13/16	10
DR12238		38	0.1015	13/16	1-13/16	10
DR12237		37	0.1040	13/16	1-13/16	10

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR12236		36	0.1065	13/16	1-13/16	10
DR12007	7/64		0.1094	5/8	1-13/16	10
DR12235		35	0.1100	7/8	1-7/8	10
DR12234		34	0.1110	7/8	1-7/8	10
DR12233		33	0.1130	7/8	1-7/8	10
DR12232		32	0.1160	7/8	1-7/8	10
DR12231		31	0.1200	7/8	1-7/8	10
DR12008	1/8		0.1250	11/16	1-15/16	10
DR12230		30	0.1285	15/16	1-15/16	10
DR12229		29	0.1360	15/16	1-15/16	10
DR12228		28	0.1405	15/16	1-15/16	10
DR12009	9/64		0.1406	25/32	1-1/16	10
DR12227		27	0.1440	1	2-1/16	10
DR12226		26	0.1470	1	2-1/16	10
DR12225		25	0.1495	1	2-1/16	10
DR12224		24	0.1520	1	2-1/16	10
DR12223		23	0.1540	1	2-1/16	10
DR12010	5/32		0.1562	7/8	2-5/32	10
DR12222		22	0.1570	1-1/16	2-1/8	10
DR12221		21	0.1590	1-1/16	2-1/8	10
DR12220		20	0.1610	1-1/16	2-1/8	10
DR12219		19	0.1660	1-1/16	2-1/8	10
DR12218		18	0.1695	1-1/16	2-1/8	10
DR12011	11/64		0.1719	15/16	2-9/32	10
DR12217		17	0.1730	1-1/8	2-3/16	10
DR12216		16	0.1770	1-1/8	2-3/16	10
DR12215		15	0.1800	1-1/8	2-3/16	10
DR12214		14	0.1820	1-1/8	2-3/16	10



Stub Drills - DR12

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR12213		13	0.1850	1-1/8	2-3/16	10
DR12012	3/16		0.1875	1-1/32	2-7/16	10
DR12212		12	0.1890	1-3/16	2-1/4	10
DR12211		11	0.1910	1-3/16	2-1/4	10
DR12210		10	0.1935	1-3/16	2-1/4	10
DR12209		9	0.1960	1-3/16	2-1/4	10
DR12208		8	0.1990	1-3/16	2-1/4	10
DR12207		7	0.2010	1-3/16	2-1/4	10
DR12013	13/64		0.2031	1-1/32	2-7/16	10
DR12206		6	0.2040	1-1/4	2-3/8	10
DR12205		5	0.2055	1-1/4	2-3/8	10
DR12204		4	0.2090	1-1/4	2-3/8	10
DR12203		3	0.2130	1-1/4	2-3/8	10
DR12014	7/32		0.2188	1-1/8	2-19/32	10
DR12202		2	0.2210	1-5/16	2-7/16	10
DR12201		1	0.2280	1-5/16	2-7/16	10
DR12301		A	0.2340	1-5/16	2-7/16	10
DR12015	15/64		0.2344	1-1/8	2-19/32	10
DR12302		B	0.2380	1-3/8	2-1/2	10
DR12303		C	0.2420	1-3/8	2-1/2	10
DR12304		D	0.2460	1-3/8	2-1/2	10
DR12016	1/4	E	0.2500	1-7/32	2-3/4	10
DR12306		F	0.2570	1-3/8	2-1/2	10
DR12307		G	0.2610	1-7/16	2-5/8	10
DR12017	17/64		0.2656	1-7/16	2-5/8	10
DR12308		H	0.2660	1-5/16	2-29/32	10
DR12309		I	0.2720	1-1/2	2-11/16	10
DR12310		J	0.2770	1-1/2	2-11/16	10
DR12311		K	0.2810	1-1/2	2-11/16	10
DR12018	9/32		0.2812	1-1/2	2-11/16	10
DR12312		L	0.2900	1-5/16	2-29/32	10
DR12313		M	0.2950	1-9/16	2-3/4	10
DR12019	19/64		0.2969	1-9/16	2-3/4	10
DR12314		N	0.3020	1-7/16	3-1/8	10
DR12020	5/16		0.3125	1-5/8	2-13/16	10
DR12315		O	0.3160	1-7/16	3-1/8	10

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR12316		P	0.3230	1-11/16	2-15/16	10
DR12021	21/64		0.3281	1-11/16	2-15/16	10
DR12317		Q	0.3320	1-7/16	3-1/8	5
DR12318		R	0.3390	1-11/16	3	5
DR12022	11/32		0.3438	1-11/16	3	5
DR12319		S	0.3480	1-9/16	3-5/16	5
DR12320		T	0.3580	1-3/4	3-1/16	5
DR12023	23/64		0.3594	1-3/4	3-1/16	5
DR12321		U	0.3680	1-9/16	3-5/16	5
DR12024	3/8		0.3750	1-11/16	3-1/2	5
DR12322		V	0.3770	1-7/8	3-1/4	5
DR12323		W	0.3860	1-7/8	3-1/4	5
DR12025	25/64		0.3906	1-11/16	3-1/2	5
DR12324		X	0.3970	1-15/16	3-5/16	5
DR12325		Y	0.4040	1-15/16	3-5/16	5
DR12026	13/32		0.4062	1-11/16	3-1/2	5
DR12326		Z	0.4130	2	3-3/8	5
DR12027	27/64		0.4219	1-27/32	3-3/4	5
DR12028	7/16		0.4375	1-27/32	3-3/4	5
DR12029	29/64		0.4531	1-27/32	3-3/4	5
DR12030	15/32		0.4688	2	4	5
DR12031	31/64		0.4844	2	4	5
DR12032	1/2		0.5000	2	4	5
DR12036	9/16		0.5625	2-7/32	4-3/8	1
DR12040	5/8		0.6250	2-9/32	4-17/32	1
DR12044	11/16		0.6875	2-7/16	4-27/32	1
DR12048	3/4		0.7500	2-19/32	5-5/32	1
DR12052	13/16		0.8125	2-11/16	5-11/32	1
DR12056	7/8		0.8750	2-3/4	5-17/32	1
DR12060	15/16		0.9375	2-15/16	5-15/16	1
DR12100	1		1.0000	3-1/16	6-5/32	1
DR12104	1-1/16		1.0625	3-3/16	6-3/8	1
DR12108	1-1/8		1.1250	3-5/16	6-5/8	1
DR12112	1-3/16		1.1875	3-13/32	6-27/32	1
DR12116	1-1/4		1.2500	3-17/32	7-3/32	1



Stub Drills - DR82•83

Screw Machine Length - Metric

- HSS
- Black oxide finish for increased wear resistance and added lubricity
- 135 Deg split point for fast penetration and accurate starting (self-centering) which eliminates “Walking” and reduces the thrust force needed
- Steam Oxide surface treatment increases lubricant retention and wear resistance and reduces chip welding
- The short flute and overall length provide maximum rigidity, hole accuracy, and tool life
- Suitable for various steels, stainless steel, sheet metal

Longueur de la Machine à vis - Metrique

- HSS
- Finition oxyde noir pour une résistance accrue à l'usure et un pouvoir lubrifiant accru
- Point de partage à 135 degrés pour une pénétration rapide et un démarrage précis (auto-centrage) qui élimine la «marche» et réduit la force de poussée nécessaire
- Le traitement de surface à l'oxyde de vapeur augmente la rétention de lubrifiant et la résistance à l'usure et réduit le soudage des copeaux
- La flûte courte et la longueur totale offrent une rigidité, une précision des trous et une durée de vie maximales
- Convient pour divers aciers, acier inoxydable, tôle

CODE	MM	DEC	FLT	OA	PKG
DR82100	1.00	0.0394	6.0	26.0	10
DR82105	1.05	0.0413	6.0	26.0	10
DR82110	1.10	0.0433	7.0	28.0	10
DR82120	1.20	0.0472	8.0	30.0	10
DR82130	1.30	0.0512	8.0	30.0	10
DR82140	1.40	0.0551	9.0	32.0	10
DR82150	1.50	0.0591	9.0	32.0	10
DR82160	1.60	0.0630	10.0	34.0	10
DR82170	1.70	0.0669	10.0	34.0	10
DR82180	1.80	0.0709	11.0	36.0	10
DR82185	1.85	0.0728	11.0	36.0	10
DR82190	1.90	0.0748	11.0	36.0	10
DR82195	1.95	0.0768	12.0	38.0	10
DR82200	2.00	0.0787	12.0	38.0	10
DR82205	2.05	0.0807	12.0	38.0	10
DR82210	2.10	0.0827	12.0	38.0	10
DR82220	2.20	0.0866	13.0	40.0	10
DR82230	2.30	0.0906	13.0	40.0	10
DR82240	2.40	0.0945	14.0	43.0	10
DR82250	2.50	0.0984	14.0	43.0	10
DR82260	2.60	0.1024	14.0	43.0	10
DR82270	2.70	0.1063	16.0	46.0	10
DR82280	2.80	0.1102	16.0	46.0	10
DR82290	2.90	0.1142	16.0	46.0	10
DR82300	3.00	0.1181	16.0	46.0	10
DR82310	3.10	0.1220	18.0	49.0	10
DR82320	3.20	0.1260	18.0	49.0	10
DR82325	3.25	0.1280	18.0	49.0	10
DR82330	3.30	0.1299	18.0	49.0	10
DR82340	3.40	0.1339	20.0	52.0	10

CODE	MM	DEC	FLT	OA	PKG
DR82350	3.50	0.1378	20.0	52.0	10
DR82360	3.60	0.1417	20.0	52.0	10
DR82370	3.70	0.1457	20.0	52.0	10
DR82375	3.75	0.1476	22.0	55.0	10
DR82380	3.80	0.1496	22.0	55.0	10
DR82390	3.90	0.1535	22.0	55.0	10
DR82400	4.00	0.1575	22.0	55.0	10
DR82410	4.10	0.1614	22.0	55.0	10
DR82420	4.20	0.1654	22.0	55.0	10
DR82430	4.30	0.1693	24.0	58.0	10
DR82440	4.40	0.1732	24.0	58.0	10
DR82450	4.50	0.1772	24.0	58.0	10
DR82460	4.60	0.1811	24.0	58.0	10
DR82470	4.70	0.1850	24.0	58.0	10
DR82480	4.80	0.1890	26.0	62.0	10
DR82490	4.90	0.1929	26.0	62.0	10
DR82500	5.00	0.1968	26.0	62.0	10
DR82510	5.10	0.2008	26.0	62.0	10
DR82520	5.20	0.2047	26.0	62.0	10
DR82530	5.30	0.2087	26.0	62.0	10
DR82540	5.40	0.2126	28.0	66.0	10
DR82550	5.50	0.2165	28.0	66.0	10
DR82560	5.60	0.2205	28.0	66.0	10
DR82570	5.70	0.2244	28.0	66.0	10
DR82580	5.80	0.2283	28.0	66.0	10
DR82590	5.90	0.2323	28.0	66.0	10
DR82600	6.00	0.2362	28.0	66.0	10
DR82610	6.10	0.2402	31.0	70.0	10
DR82620	6.20	0.2441	31.0	70.0	10
DR82630	6.30	0.2480	31.0	70.0	10



Stub Drills - DR82·83

CODE	MM	DEC	FLT	OA	PKG
DR82640	6.40	0.2520	31.0	70.0	10
DR82650	6.50	0.2559	31.0	70.0	10
DR82660	6.60	0.2598	31.0	70.0	10
DR82670	6.70	0.2638	31.0	70.0	10
DR82680	6.80	0.2677	34.0	74.0	10
DR82690	6.90	0.2717	34.0	74.0	10
DR82700	7.00	0.2756	34.0	74.0	10
DR82710	7.10	0.2795	34.0	74.0	10
DR82720	7.20	0.2835	34.0	74.0	10
DR82730	7.30	0.2874	34.0	74.0	10
DR82740	7.40	0.2913	34.0	74.0	10
DR82750	7.50	0.2953	34.0	74.0	10
DR82760	7.60	0.2992	37.0	79.0	10
DR82770	7.70	0.3031	37.0	79.0	10
DR82780	7.80	0.3071	37.0	79.0	10
DR82790	7.90	0.3110	37.0	79.0	10
DR82800	8.00	0.3150	37.0	79.0	10
DR82810	8.10	0.3189	37.0	79.0	10
DR82820	8.20	0.3228	37.0	79.0	10
DR82830	8.30	0.3268	37.0	79.0	10
DR82840	8.40	0.3307	37.0	79.0	10
DR82850	8.50	0.3346	37.0	79.0	10
DR82860	8.60	0.3386	40.0	84.0	5
DR82870	8.70	0.3425	40.0	84.0	5
DR82880	8.80	0.3465	40.0	84.0	5
DR82890	8.90	0.3504	40.0	84.0	5
DR82900	9.00	0.3543	40.0	84.0	5
DR82910	9.10	0.3583	40.0	84.0	5
DR82920	9.20	0.3622	40.0	84.0	5
DR82930	9.30	0.3661	40.0	84.0	5
DR82940	9.40	0.3701	40.0	84.0	5
DR82950	9.50	0.3740	40.0	84.0	5
DR82960	9.60	0.3780	43.0	89.0	5
DR82970	9.70	0.3819	43.0	89.0	5
DR82980	9.80	0.3858	43.0	89.0	5
DR82990	9.90	0.3898	43.0	89.0	5
DR83000	10.00	0.3937	43.0	89.0	5
DR83010	10.10	0.3976	43.0	89.0	5
DR83020	10.20	0.4016	43.0	89.0	5
DR83030	10.30	0.4055	43.0	89.0	5
DR83050	10.50	0.4135	43.0	89.0	5
DR83060	10.60	0.4173	43.0	89.0	5

CODE	MM	DEC	FLT	OA	PKG
DR83070	10.70	0.4213	47.0	95.0	5
DR83080	10.80	0.4252	47.0	95.0	5
DR83090	10.90	0.4291	47.0	95.0	5
DR83100	11.00	0.4331	47.0	95.0	5
DR83120	11.20	0.4409	47.0	95.0	5
DR83140	11.40	0.4488	47.0	95.0	5
DR83150	11.50	0.4528	47.0	95.0	5
DR83160	11.60	0.4567	47.0	95.0	5
DR83170	11.70	0.4606	47.0	95.0	5
DR83180	11.80	0.4646	47.0	95.0	5
DR83190	11.90	0.4685	51.0	102.0	5
DR83200	12.00	0.4724	51.0	102.0	5
DR83210	12.10	0.4764	51.0	102.0	5
DR83220	12.20	0.4803	51.0	102.0	5
DR83230	12.30	0.4843	51.0	102.0	5
DR83240	12.40	0.4882	51.0	102.0	5
DR83250	12.50	0.4921	51.0	102.0	5
DR83260	12.60	0.4961	51.0	102.0	5
DR83270	12.70	0.5000	51.0	102.0	5
DR83280	12.80	0.5039	51.0	102.0	5
DR83290	12.90	0.5079	51.0	102.0	5
DR83300	13.00	0.5118	51.0	102.0	5
DR83350	13.50	0.5315	54.0	107.0	1
DR83400	14.00	0.5512	54.0	107.0	1
DR83450	14.50	0.5709	56.0	111.0	1
DR83500	15.00	0.5906	56.0	111.0	1
DR83550	15.50	0.6102	58.0	115.0	1
DR83600	16.00	0.6299	58.0	115.0	1
DR83650	16.50	0.6496	60.0	119.0	1
DR83700	17.00	0.6693	60.0	119.0	1
DR83750	17.50	0.6890	62.0	123.0	1
DR83800	18.00	0.7087	62.0	123.0	1
DR83850	18.50	0.7283	64.0	127.0	1
DR83900	19.00	0.7480	64.0	127.0	1
DR83950	19.50	0.7677	66.0	131.0	1
DR83960	20.00	0.7874	66.0	131.0	1
DR83961	21.00	0.8268	68.0	136.0	1
DR83962	22.00	0.8661	70.0	141.0	1
DR83963	23.00	0.9055	72.0	146.0	1
DR83964	24.00	0.9449	75.0	151.0	1
DR83965	25.00	0.9842	75.0	151.0	1



Stub Drills - DR78

Screw Machine Length - Fractional

- HSS
- Bright Finish
- 118 Deg split point for fast penetration and accurate starting (self-centering) which eliminates "Walking" and reduces the thrust force needed
- The short flute and overall length provide maximum rigidity, hole accuracy, and tool life
- The bright finish polished flutes provide better chip flow for Aluminum and other non-ferrous materials as well as low tensile strength steels

Longueur de la Machine à vis Fractionnel

- HSS
- Finition brillante
- Point de partage à 135 degrés pour une pénétration rapide et un démarrage précis (auto-centrage) qui élimine la «marche» et réduit la force de poussée nécessaire
- La flûte courte et la longueur totale offrent une rigidité, une précision des trous et une durée de vie maximales
- Les cannelures polies au fini brillant offrent un meilleur écoulement des copeaux pour l'aluminium et d'autres matériaux non ferreux ainsi que pour les aciers à faible résistance à la traction

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR78460		60	0.0400	1/2	1-3/8	10
DR78459		59	0.0410	1/2	1-3/8	10
DR78458		58	0.0420	1/2	1-3/8	10
DR78457		57	0.0430	1/2	1-3/8	10
DR78456		56	0.0465	1/2	1-3/8	10
DR78003	3/64		0.0469	1/2	1-3/8	10
DR78455		55	0.0520	5/8	1-5/8	10
DR78454		54	0.0550	5/8	1-5/8	10
DR78453		53	0.0595	5/8	1-5/8	10
DR78004	1/16		0.0625	5/8	1-5/8	10
DR78452		52	0.0635	11/16	1-11/16	10
DR78451		51	0.0670	11/16	1-11/16	10
DR78450		50	0.0700	11/16	1-11/16	10
DR78449		49	0.0730	11/16	1-11/16	10
DR78448		48	0.0760	11/16	1-11/16	10
DR78005	5/64		0.0781	11/16	1-11/16	10
DR78447		47	0.0785	3/4	1-3/4	10
DR78446		46	0.0810	3/4	1-3/4	10
DR78445		45	0.0820	3/4	1-3/4	10
DR78444		44	0.0860	3/4	1-3/4	10
DR78443		43	0.0890	3/4	1-3/4	10
DR78442		42	0.0935	3/4	1-3/4	10
DR78006	3/32		0.0938	3/4	1-3/4	10
DR78441		41	0.0960	13/16	1-13/16	10
DR78440		40	0.0980	13/16	1-13/16	10
DR78439		39	0.0995	13/16	1-13/16	10
DR78438		38	0.1015	13/16	1-13/16	10
DR78437		37	0.1040	13/16	1-13/16	10

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR78436		36	0.1065	13/16	1-13/16	10
DR78007	7/64		0.1094	13/16	1-13/16	10
DR78435		35	0.1100	7/8	1-7/8	10
DR78434		34	0.1110	7/8	1-7/8	10
DR78433		33	0.1130	7/8	1-7/8	10
DR78432		32	0.1160	7/8	1-7/8	10
DR78431		31	0.1200	7/8	1-7/8	10
DR78008	1/8		0.1250	7/8	1-7/8	10
DR78430		30	0.1285	15/16	1-15/16	10
DR78429		29	0.1360	15/16	1-15/16	10
DR78428		28	0.1405	15/16	1-15/16	10
DR78009	9/64		0.1406	15/16	1-15/16	10
DR78427		27	0.1440	1	2-1/16	10
DR78426		26	0.1470	1	2-1/16	10
DR78425		25	0.1495	1	2-1/16	10
DR78424		24	0.1520	1	2-1/16	10
DR78423		23	0.1540	1	2-1/16	10
DR78010	5/32		0.1562	1	2-1/16	10
DR78422		22	0.1570	1-1/16	2-1/8	10
DR78421		21	0.1590	1-1/16	2-1/8	10
DR78420		20	0.1610	1-1/16	2-1/8	10
DR78419		19	0.1660	1-1/16	2-1/8	10
DR78418		18	0.1695	1-1/16	2-1/8	10
DR78011	11/64		0.1719	1-1/16	2-1/8	10
DR78417		17	0.1730	1-1/8	2-3/16	10
DR78416		16	0.1770	1-1/8	2-3/16	10
DR78415		15	0.1800	1-1/8	2-3/16	10
DR78414		14	0.1820	1-1/8	2-3/16	10



Stub Drills - DR78

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR78413		13	0.1850	1-1/8	2-3/16	10
DR78012	3/16		0.1875	1-1/8	2-3/16	10
DR78412		12	0.1890	1-3/16	2-1/4	10
DR78411		11	0.1910	1-3/16	2-1/4	10
DR78410		10	0.1935	1-3/16	2-1/4	10
DR78409		9	0.1960	1-3/16	2-1/4	10
DR78408		8	0.1990	1-3/16	2-1/4	10
DR78407		7	0.2010	1-3/16	2-1/4	10
DR78013	13/64		0.2031	1-3/16	2-1/4	10
DR78406		6	0.2040	1-1/4	2-3/8	10
DR78405		5	0.2055	1-1/4	2-3/8	10
DR78404		4	0.2090	1-1/4	2-3/8	10
DR78403		3	0.2130	1-1/4	2-3/8	10
DR78014	7/32		0.2188	1-1/4	2-3/8	10
DR78402		2	0.2210	1-5/16	2-7/16	10
DR78401		1	0.2280	1-5/16	2-7/16	10
DR78301		A	0.2340	1-5/16	2-7/16	10
DR78015	15/64		0.2344	1-5/16	2-7/16	10
DR78302		B	0.2380	1-3/8	2-1/2	10
DR78303		C	0.2420	1-3/8	2-1/2	10
DR78304		D	0.2460	1-3/8	2-1/2	10
DR78016	1/4	E	0.2500	1-3/8	2-1/2	10
DR78306		F	0.2570	1-7/16	2-5/8	10
DR78307		G	0.2610	1-7/16	2-5/8	10
DR78017	17/64		0.2656	1-7/16	2-5/8	10
DR78308		H	0.2660	1-1/2	2-11/16	10
DR78309		I	0.2720	1-1/2	2-11/16	10
DR78310		J	0.2770	1-1/2	2-11/16	10
DR78311		K	0.2810	1-1/2	2-11/16	10
DR78018	9/32		0.2812	1-1/2	2-11/16	10
DR78312		L	0.2900	1-9/16	2-3/4	10
DR78313		M	0.2950	1-9/16	2-3/4	10
DR78019	19/64		0.2969	1-9/16	2-3/4	10
DR78314		N	0.3020	1-5/8	2-13/16	10
DR78020	5/16		0.3125	1-5/8	2-13/16	10
DR78315		O	0.3160	1-11/16	2-15/16	10
DR78316		P	0.3230	1-11/16	2-15/16	10
DR78021	21/64		0.3281	1-11/16	2-15/16	10

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR78317		Q	0.3320	1-11/16	3	5
DR78318		R	0.3390	1-11/16	3	5
DR78022	11/32		0.3438	1-11/16	3	5
DR78319		S	0.3480	1-3/4	3-1/16	5
DR78320		T	0.3580	1-3/4	3-1/16	5
DR78023	23/64		0.3594	1-3/4	3-1/16	5
DR78321		U	0.3680	1-13/16	3-1/8	5
DR78024	3/8		0.3750	1-13/16	3-1/8	5
DR78322		V	0.3770	1-7/8	3-1/4	5
DR78323		W	0.3860	1-7/8	3-1/4	5
DR78025	25/64		0.3906	1-7/8	3-1/4	5
DR78324		X	0.3970	1-15/16	3-5/16	5
DR78325		Y	0.4040	1-15/16	3-5/16	5
DR78026	13/32		0.4062	1-15/16	3-5/16	5
DR78326		Z	0.4130	2	3-3/8	5
DR78027	27/64		0.4219	2	3-3/8	5
DR78028	7/16		0.4375	2-1/16	3-7/16	5
DR78029	29/64		0.4531	2-1/8	3-9/16	5
DR78030	15/32		0.4688	2-1/8	3-5/8	5
DR78031	31/64		0.4844	2-3/16	3-11/16	5
DR78032	1/2		0.5000	2-1/4	3-3/4	5
DR78033	33/64		0.5156	2-3/8	3-7/8	1
DR78034	17/32		0.5312	2-3/8	3-7/8	1
DR78035	35/64		0.5469	2-1/2	4	1
DR78036	9/16		0.5625	2-1/2	4	1
DR78037	37/64		0.5781	2-5/8	4-1/8	1
DR78038	19/32		0.5938	2-5/8	4-1/8	1
DR78039	39/64		0.6094	2-3/4	4-1/4	1
DR78040	5/8		0.6250	2-3/4	4-1/4	1
DR78041	41/64		0.6406	2-7/8	4-1/2	1
DR78042	21/32		0.6562	2-7/8	4-1/2	1
DR78043	43/64		0.6719	2-7/8	4-5/8	1
DR78044	11/16		0.6875	2-7/8	4-5/8	1
DR78045	45/64		0.7031	3	4-3/4	1
DR78046	23/32		0.7188	3	4-3/4	1
DR78047	47/64		0.7344	3-1/8	5	1
DR78048	3/4		0.7500	3-1/8	5	1
DR78049	49/64		0.7656	3-1/4	5-1/8	1

Continued



Stub Drills - DR78

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR78050	25/32		0.7813	3-1/4	5-1/8	1
DR78051	51/64		0.7969	3-3/8	5-1/4	1
DR78052	13/16		0.8125	3-3/8	5-1/4	1
DR78053	53/64		0.8281	3-1/2	5-3/8	1
DR78054	27/32		0.8438	3-1/2	5-3/8	1
DR78055	55/64		0.8594	3-1/2	5-1/2	1
DR78056	7/8		0.8750	3-1/2	5-1/2	1
DR78057	57/64		0.8906	3-5/8	5-5/8	1
DR78058	29/32		0.9063	3-5/8	5-5/8	1
DR78059	59/64		0.9219	3-3/4	5-3/4	1
DR78060	15/16		0.9375	3-3/4	5-3/4	1
DR78061	61/64		0.9531	3-7/8	5-7/8	1
DR78062	31/32		0.9688	3-7/8	5-7/8	1
DR78063	63/64		0.9844	4	6	1
DR78100	1		1.0000	4	6	1
DR78101	1-1/64		1.0156	4	6-1/4	1
DR78102	1-1/32		1.0313	4	6-1/4	1
DR78103	1-3/64		1.0469	4	6-1/4	1
DR78104	1-1/16		1.0625	4	6-1/4	1
DR78105	1-5/64		1.0781	4	6-3/8	1
DR78106	1-3/32		1.0938	4	6-3/8	1
DR78107	1-7/64		1.1094	4	6-3/8	1
DR78108	1-1/8		1.1250	4	6-3/8	1
DR78109	1-9/64		1.1406	4	6-5/8	1
DR78110	1-5/32		1.1562	4-1/4	6-5/8	1
DR78111	1-11/64		1.1719	4-1/4	6-5/8	1
DR78112	1-3/16		1.1875	4-1/4	6-5/8	1
DR78113	1-13/64		1.2031	4-3/8	6-3/4	1
DR78114	1-7/32		1.2188	4-3/8	6-3/4	1
DR78115	1-15/64		1.2344	4-3/8	6-3/4	1
DR78116	1-1/4		1.2500	4-3/8	6-3/4	1
DR78117	1-17/64		1.2656	4-3/8	7	1
DR78118	1-9/32		1.2812	4-3/8	7	1
DR78119	1-19/64		1.2969	4-3/8	7	1
DR78120	1-5/16		1.3125	4-3/8	7	1
DR78121	1-21/64		1.3281	4-1/2	7-1/8	1

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR78122	1-11/32		1.3438	4-1/2	7-1/8	1
DR78123	1-23/64		1.3594	4-1/2	7-1/8	1
DR78124	1-3/8		1.3750	4-1/2	7-1/8	1
DR78126	1-13/32		1.4062	4-3/4	7-3/8	1
DR78127	1-27/64		1.4219	4-3/4	7-3/8	1
DR78128	1-7/16		1.4375	4-3/4	7-3/8	1
DR78129	1-29/64		1.4531	4-7/8	7-1/2	1
DR78130	1-15/32		1.4688	4-7/8	7-1/2	1
DR78131	1-31/64		1.4844	4-7/8	7-1/2	1
DR78132	1-1/2		1.5000	4-7/8	7-1/2	1
DR78134	1-17/32		1.5313	4-7/8	7-3/4	1
DR78136	1-9/16		1.5625	4-7/8	7-3/4	1
DR78138	1-19/32		1.5938	4-7/8	7-3/4	1
DR78140	1-5/8		1.6250	4-7/8	7-3/4	1
DR78142	1-21/32		1.6563	5-1/8	8	1
DR78144	1-11/16		1.6875	5-1/8	8	1
DR78146	1-23/32		1.7188	5-1/8	8	1
DR78148	1-3/4		1.7500	5-1/8	8	1
DR78150	1-25/32		1.7813	5-3/8	8-1/4	1
DR78152	1-13/16		1.8125	5-3/8	8-1/4	1
DR78154	1-27/32		1.8438	5-3/8	8-1/4	1
DR78156	1-7/8		1.8750	5-3/8	8-1/4	1
DR78158	1-29/32		1.9063	5-5/8	8-1/2	1
DR78160	1-15/16		1.9375	5-5/8	8-1/2	1
DR78162	1-31/32		1.9688	5-5/8	8-1/2	1
DR78200	2		2.0000	5-5/8	8-1/2	1
DR78204	2-1/16		2.0625	5-5/8	8-1/2	1
DR78208	2-1/8		2.1250	5-5/8	8-1/2	1
DR78212	2-3/16		2.1875	5-5/8	8-1/2	1
DR78216	2-1/4		2.2500	5-5/8	8-1/2	1
DR78220	2-5/16		2.3125	5-5/8	8-1/2	1
DR78224	2-3/8		2.3750	5-5/8	8-1/2	1
DR78228	2-7/16		2.4375	5-5/8	8-1/2	1
DR78232	2-1/2		2.5000	5-5/8	8-1/2	1



Stub Drills - DR126

Screw Machine Length – Cobalt – Fractional

- Cobalt Stub drills offer increased hardness, toughness and better wear resistance compared to regular HSS
- Gold Oxide surface finish provides a polished finish and prevents chip building, galling and welding on a workpiece
- 135 Deg split point for fast penetration and accurate starting (self-centering) which eliminates “Walking” and reduces the thrust force needed
- The short flute and overall length provide maximum rigidity, hole accuracy, and tool life
- Cobalt drills are suitable for harder material including alloy steels, Stainless Steel and other difficult to drill materials

Longueur de la Machine à vis – Cobalt Fractionnel

- Les forets à talon en cobalt offrent une dureté et une ténacité accrues et une meilleure résistance à l’usure par rapport au HSS ordinaire
- La finition de surface en oxyde d’or offre une finition polie et empêche la formation de copeaux, le grippage et le soudage sur une pièce
- Point de partage à 135 degrés pour une pénétration rapide et un démarrage précis (auto-centrage) qui élimine la «marche» et réduit la force de poussée nécessaire
- La flûte courte et la longueur totale offrent une rigidité, une précision des trous et une durée de vie maximales
- Les forets au cobalt conviennent aux matériaux plus durs, notamment les aciers alliés, l’acier inoxydable et autres matériaux difficiles à percer

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR12860		60	0.0400	1/2	1-3/8	10
DR12859		59	0.0410	1/2	1-3/8	10
DR12858		58	0.0420	1/2	1-3/8	10
DR12857		57	0.0430	1/2	1-3/8	10
DR12856		56	0.0465	1/2	1-3/8	10
DR12603	3/64		0.0469	1/2	1-3/8	10
DR12855		55	0.0520	5/8	1-5/8	10
DR12854		54	0.0550	5/8	1-5/8	10
DR12853		53	0.0595	5/8	1-5/8	10
DR12604	1/16		0.0625	5/8	1-5/8	10
DR12852		52	0.0635	11/16	1-11/16	10
DR12851		51	0.0670	11/16	1-11/16	10
DR12850		50	0.0700	11/16	1-11/16	10
DR12849		49	0.0730	11/16	1-11/16	10
DR12848		48	0.0760	11/16	1-11/16	10
DR12605	5/64		0.0781	11/16	1-11/16	10
DR12847		47	0.0785	3/4	1-3/4	10
DR12846		46	0.0810	3/4	1-3/4	10
DR12845		45	0.0820	3/4	1-3/4	10
DR12844		44	0.0860	3/4	1-3/4	10
DR12843		43	0.0890	3/4	1-3/4	10
DR12842		42	0.0935	3/4	1-3/4	10
DR12606	3/32		0.0938	3/4	1-3/4	10
DR12841		41	0.0960	13/16	1-13/16	10
DR12840		40	0.0980	13/16	1-13/16	10
DR12839		39	0.0995	13/16	1-13/16	10

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR12838		38	0.1015	13/16	1-13/16	10
DR12837		37	0.1040	13/16	1-13/16	10
DR12836		36	0.1065	13/16	1-13/16	10
DR12607	7/64		0.1094	13/16	1-13/16	10
DR12835		35	0.1100	7/8	1-7/8	10
DR12834		34	0.1110	7/8	1-7/8	10
DR12833		33	0.1130	7/8	1-7/8	10
DR12832		32	0.1160	7/8	1-7/8	10
DR12831		31	0.1200	7/8	1-7/8	10
DR12608	1/8		0.1250	7/8	1-7/8	10
DR12830		30	0.1285	15/16	1-15/16	10
DR12829		29	0.1360	15/16	1-15/16	10
DR12828		28	0.1405	15/16	1-15/16	10
DR12609	9/64		0.1406	15/16	1-15/16	10
DR12827		27	0.1440	1	2-1/16	10
DR12826		26	0.1470	1	2-1/16	10
DR12825		25	0.1495	1	2-1/16	10
DR12824		24	0.1520	1	2-1/16	10
DR12823		23	0.1540	1	2-1/16	10
DR12610	5/32		0.1562	1	2-1/16	10
DR12822		22	0.1570	1-1/16	2-1/8	10
DR12821		21	0.1590	1-1/16	2-1/8	10
DR12820		20	0.1610	1-1/16	2-1/8	10
DR12819		19	0.1660	1-1/16	2-1/8	10
DR12818		18	0.1695	1-1/16	2-1/8	10
DR12611	11/64		0.1719	1-1/16	2-1/8	10

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Stub Drills - DR126

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR12817		17	0.1730	1-1/8	2-3/16	10
DR12816		16	0.1770	1-1/8	2-3/16	10
DR12815		15	0.1800	1-1/8	2-3/16	10
DR12814		14	0.1820	1-1/8	2-3/16	10
DR12813		13	0.1850	1-1/8	2-3/16	10
DR12612	3/16		0.1875	1-1/8	2-3/16	10
DR12812		12	0.1890	1-3/16	2-1/4	10
DR12811		11	0.1910	1-3/16	2-1/4	10
DR12810		10	0.1935	1-3/16	2-1/4	10
DR12809		9	0.1960	1-3/16	2-1/4	10
DR12808		8	0.1990	1-3/16	2-1/4	10
DR12807		7	0.2010	1-3/16	2-1/4	10
DR12613	13/64		0.2031	1-3/16	2-1/4	10
DR12806		6	0.2040	1-1/4	2-3/8	10
DR12805		5	0.2055	1-1/4	2-3/8	10
DR12804		4	0.2090	1-1/4	2-3/8	10
DR12803		3	0.2130	1-1/4	2-3/8	10
DR12614	7/32		0.2188	1-1/4	2-3/8	10
DR12802		2	0.2210	1-5/16	2-7/16	10
DR12801		1	0.2280	1-5/16	2-7/16	10
DR12701		A	0.2340	1-5/16	2-7/16	10
DR12615	15/64		0.2344	1-5/16	2-7/16	10
DR12702		B	0.2380	1-3/8	2-1/2	10
DR12703		C	0.2420	1-3/8	2-1/2	10
DR12704		D	0.2460	1-3/8	2-1/2	10
DR12616	1/4	E	0.2500	1-3/8	2-1/2	10
DR12706		F	0.2570	1-7/16	2-5/8	10
DR12707		G	0.2610	1-7/16	2-5/8	10
DR12617	17/64		0.2656	1-7/16	2-5/8	10
DR12708		H	0.2660	1-1/2	2-11/16	10
DR12709		I	0.2720	1-1/2	2-11/16	10
DR12710		J	0.2770	1-1/2	2-11/16	10

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR12711		K	0.2810	1-1/2	2-11/16	10
DR12618	9/32		0.2812	1-1/2	2-11/16	10
DR12712		L	0.2900	1-9/16	2-3/4	10
DR12713		M	0.2950	1-9/16	2-3/4	10
DR12619	19/64		0.2969	1-9/16	2-3/4	10
DR12714		N	0.3020	1-5/8	2-13/16	10
DR12620	5/16		0.3125	1-5/8	2-13/16	10
DR12715		O	0.3160	1-11/16	2-15/16	10
DR12716		P	0.3230	1-11/16	2-15/16	10
DR12621	21/64		0.3281	1-11/16	2-15/16	10
DR12717		Q	0.3320	1-11/16	3	5
DR12718		R	0.3390	1-11/16	3	5
DR12622	11/32		0.3438	1-11/16	3	5
DR12719		S	0.3480	1-3/4	3-1/16	5
DR12720		T	0.3580	1-3/4	3-1/16	5
DR12623	23/64		0.3594	1-3/4	3-1/16	5
DR12721		U	0.3680	1-13/16	3-1/8	5
DR12624	3/8		0.3750	1-13/16	3-1/8	5
DR12722		V	0.3770	1-7/8	3-1/4	5
DR12723		W	0.3860	1-7/8	3-1/4	5
DR12625	25/64		0.3906	1-7/8	3-1/4	5
DR12724		X	0.3970	1-15/16	3-5/16	5
DR12725		Y	0.4040	1-15/16	3-5/16	5
DR12626	13/32		0.4062	1-15/16	3-5/16	5
DR12726		Z	0.4130	2	3-3/8	5
DR12627	27/64		0.4219	2	3-3/8	5
DR12628	7/16		0.4375	2-1/16	3-7/16	5
DR12629	29/64		0.4531	2-1/8	3-9/16	5
DR12630	15/32		0.4688	2-1/8	3-5/8	5
DR12631	31/64		0.4844	2-3/16	3-11/16	5
DR12632	1/2		0.5000	2-1/4	3-3/4	5



Stub Drills - DR79

Screw Machine Length - Cobalt - Metric

- Cobalt Stub drills offer increased hardness, toughness and better wear resistance compared to regular HSS
- Gold Oxide surface finish provides a polished finish and prevents chip building, galling and welding on a workpiece
- 135 Deg split point for fast penetration and accurate starting (self-centering) which eliminates "Walking" and reduces the thrust force needed
- The short flute and overall length provide maximum rigidity, hole accuracy, and tool life
- Cobalt drills are suitable for harder material including alloy steels, Stainless Steel and other difficult to drill materials

Longueur de la Machine à vis Cobalt Metrique

- Les forets à talon en cobalt offrent une dureté et une ténacité accrues et une meilleure résistance à l'usure par rapport au HSS ordinaire
- La finition de surface en oxyde d'or offre une finition polie et empêche la formation de copeaux, le grippage et le soudage sur une pièce
- Point de partage à 135 degrés pour une pénétration rapide et un démarrage précis (auto-centrage) qui élimine la «marche» et réduit la force de poussée nécessaire
- La flûte courte et la longueur totale offrent une rigidité, une précision des trous et une durée de vie maximales
- Les forets au cobalt conviennent aux matériaux plus durs, notamment les aciers alliés, l'acier inoxydable et autres matériaux difficiles à percer

CODE	MM	DEC	FLT	OA	PKG
DR79020	2.00	0.0787	12.0	38.0	10
DR79023	2.30	0.0906	13.0	40.0	10
DR79024	2.40	0.0945	14.0	43.0	10
DR79025	2.50	0.0984	14.0	43.0	10
DR79027	2.70	0.1063	16.0	46.0	10
DR79029	2.90	0.1142	16.0	46.0	10
DR79030	3.00	0.1181	16.0	46.0	10
DR79032	3.20	0.1260	18.0	49.0	10
DR79033	3.30	0.1299	18.0	49.0	10
DR79035	3.50	0.1378	20.0	52.0	10
DR79037	3.70	0.1457	20.0	52.0	10
DR79040	4.00	0.1575	22.0	55.0	10
DR79041	4.10	0.1614	22.0	55.0	10
DR79042	4.20	0.1654	22.0	55.0	10
DR79045	4.50	0.1772	24.0	58.0	10
DR79047	4.70	0.1850	24.0	58.0	10
DR79048	4.80	0.1890	26.0	62.0	10
DR79049	4.90	0.1929	26.0	62.0	10
DR79050	5.00	0.1968	26.0	62.0	10
DR79051	5.10	0.2008	26.0	62.0	10
DR79052	5.20	0.2047	26.0	62.0	10
DR79053	5.30	0.2087	26.0	62.0	10
DR79054	5.40	0.2126	28.0	66.0	10
DR79055	5.50	0.2165	28.0	66.0	10
DR79058	5.80	0.2283	28.0	66.0	10
DR79060	6.00	0.2362	28.0	66.0	10
DR79062	6.20	0.2441	31.0	70.0	10
DR79065	6.50	0.2559	31.0	70.0	10
DR79066	6.60	0.2598	31.0	70.0	10
DR79067	6.70	0.2638	31.0	70.0	10
DR79068	6.80	0.2677	34.0	74.0	10
DR79069	6.90	0.2717	34.0	74.0	10
DR79070	7.00	0.2756	34.0	74.0	10
DR79072	7.20	0.2835	34.0	74.0	10
DR79074	7.40	0.2913	34.0	74.0	10
DR79075	7.50	0.2953	34.0	74.0	10

CODE	MM	DEC	FLT	OA	PKG
DR79076	7.60	0.2992	37.0	79.0	10
DR79077	7.70	0.3031	37.0	79.0	10
DR79078	7.80	0.3071	37.0	79.0	10
DR79079	7.90	0.3110	37.0	79.0	10
DR79080	8.00	0.3150	37.0	79.0	10
DR79081	8.10	0.3189	37.0	79.0	10
DR79082	8.20	0.3228	37.0	79.0	10
DR79083	8.30	0.3268	37.0	79.0	10
DR79084	8.40	0.3307	37.0	79.0	10
DR79085	8.50	0.3346	37.0	79.0	10
DR79086	8.60	0.3386	40.0	84.0	5
DR79087	8.70	0.3425	40.0	84.0	5
DR79088	8.80	0.3465	40.0	84.0	5
DR79089	8.90	0.3504	40.0	84.0	5
DR79090	9.00	0.3543	40.0	84.0	5
DR79091	9.10	0.3583	40.0	84.0	5
DR79092	9.20	0.3622	40.0	84.0	5
DR79093	9.30	0.3661	40.0	84.0	5
DR79094	9.40	0.3701	40.0	84.0	5
DR79095	9.50	0.3740	40.0	84.0	5
DR79096	9.60	0.3780	43.0	89.0	5
DR79097	9.70	0.3819	43.0	89.0	5
DR79098	9.80	0.3858	43.0	89.0	5
DR79099	9.90	0.3898	43.0	89.0	5
DR79100	10.00	0.3937	43.0	89.0	5
DR79102	10.20	0.4016	43.0	89.0	5
DR79105	10.50	0.4134	43.0	89.0	5
DR79108	10.80	0.4252	47.0	95.0	5
DR79110	11.00	0.4331	47.0	95.0	5
DR79115	11.50	0.4528	47.0	95.0	5
DR79118	11.80	0.4646	47.0	95.0	5
DR79120	12.00	0.4724	51.0	102.0	5
DR79125	12.50	0.4921	51.0	102.0	5
DR79130	13.00	0.5118	51.0	102.0	5



Spotting Drills - DR84

NC Spotting Drills - Cobalt

- Cobalt for increased hardness, toughness and better wear resistance
- NC spot drills are high precision drills designed specifically for creating an accurate hole location for a secondary drilling operation
- NC spot drills do not have body clearance and are not designed to drill greater than the depth of the point angle
- 90° & 120° points

CODE	MM	DEC	FLT	OA	PKG
90 DEGREE POINT					
DR84006	6.00	0.2362	20.0	70.0	1
DR84008	8.00	0.3150	25.0	79.0	1
DR84010	10.00	0.3937	25.0	89.0	1
DR84012	12.00	0.4724	30.0	102.0	1
DR84016	16.00	0.6299	35.0	115.0	1
DR84020	20.00	0.7874	55.0	131.0	1

Forets A Pointer - NC - Cobalt

- Cobalt pour une dureté et une ténacité accrues et une meilleure résistance à l'usure
- Les forets à points NC sont des forets de haute précision conçus spécifiquement pour créer un emplacement de trou précis pour une opération de forage secondaire
- Les forets à points NC ne doivent pas avoir de dégagement corporel et ne sont pas conçus pour forer plus que la profondeur de l'angle de pointe
- Points 90° et 120°

CODE	MM	DEC	FLT	OA	PKG
120 DEGREE POINT					
DR84106	6.00	0.2362	20.0	70.0	1
DR84108	8.00	0.3150	25.0	79.0	1
DR84110	10.00	0.3937	25.0	89.0	1
DR84112	12.00	0.4724	30.0	102.0	1
DR84116	16.00	0.6299	35.0	115.0	1
DR84120	20.00	0.7874	55.0	131.0	1



Carbide Tipped Masonry Drills - DR52

Carbide Tipped Masonry Drills

- Bright finish
- Straight shank
- For drilling brick, stone, cement, concrete

CODE	FRAC	MM	DEC	FLT	OA	PKG
DR52008	1/8	3.00	0.1250	1-9/16	2-3/4	10
DR52010	5/32	4.00	0.1562	1-9/16	2-3/4	10
DR52012	3/16	5.00	0.1875	1-31/32	3-5/32	10
DR52014	7/32	5.50	0.2188	2-3/8	3-15/16	10
DR52016	1/4	6.50	0.2500	2-3/8	3-15/16	10
DR52018	9/32	7.00	0.2812	2-3/8	4-11/32	10
DR52020	5/16	8.00	0.3125	3-5/32	4-15/16	10
DR52024	3/8	10.00	0.3750	3-5/32	4-15/16	5

Mèche À Maçonnerie carbure

- Finition brillante
- Tige droite
- Pour percer la brique, la pierre, le ciment, le béton

CODE	FRAC	MTS	DEC	FLT	OA	PKG
DR52028	7/16	11.00	0.4375	3-17/32	5-1/2	5
DR52030	15/32	12.00	0.4688	3-17/32	5-1/2	5
DR52032	1/2	13.00	0.5000	3-17/32	5-1/2	5
DR52036	9/16	14.00	0.5625	3-17/32	5-1/2	1
DR52040	5/8	16.00	0.6250	3-17/32	5-1/2	1
DR52048	3/4	20.00	0.7500	3-15/16	6-5/16	1
DR52056	7/8	22.00	0.8750	3-15/16	6-5/16	1
DR52100	1	25.00	1.0000	3-15/16	6-5/16	1



Pan-L Drills - DR76

Pan-L Drills

- HSS
- Black oxide finish for increased wear resistance and added lubricity
- 135 Deg split point for fast penetration and accurate starting (self-centering) which eliminates "Walking" and reduces the thrust force needed
- Intended for hand drilling in sheet metal, thin wall tubing, or other shallow hole drilling
- Due to their short flute design and heavy web construction, they are more rigid and durable than Jobber or Stub drills

CODE	FRAC	MM	DEC	FLT	OA	PKG
DR76006	3/32		0.0938	9.0	43.0	1
DR76300		3.00	0.1181	11.0	46.0	1
DR76008	1/8		0.1250	12.0	49.0	1
DR76325		3.25	0.1280	12.0	49.0	1
DR76350		3.50	0.1378	15.0	52.0	1
DR76375		3.75	0.1476	15.0	52.0	1
DR76010	5/32		0.1562	16.0	55.0	1
DR76400		4.00	0.1575	16.0	55.0	1

Forets - Pan-L

- HSS
- Finition oxyde noir pour une résistance accrue à l'usure et un pouvoir lubrifiant accru
- Point de partage à 135 degrés pour une pénétration rapide et un démarrage précis (auto-centrage) qui élimine la «marche» et réduit la force de poussée nécessaire
- Destiné au perçage à la main dans la tôle, les tubes à paroi mince ou tout autre perçage de trous peu profonds
- En raison de leur conception à cannelure courte et de leur construction de bande lourde, ils sont plus rigides et durables que les forets Jobber ou Stub

CODE	FRAC	MM	DEC	FLT	OA	PKG
DR76450		4.50	0.1772	17.0	62.0	1
DR76475		4.75	0.1870	17.0	62.0	1
DR76012	3/16		0.1875	17.0	62.0	1
DR76500		5.00	0.1968	17.0	62.0	1
DR76625		6.25	0.2461	20.0	70.0	1
DR76016	1/4		0.2500	20.0	70.0	1



Pan-L Drills - DR77

Pan-L Drills - Right Hand - Double End

- HSS
- Black oxide finish for increased wear resistance and added lubricity
- 135 Deg split point for fast penetration and accurate starting (self-centering) which eliminates "Walking" and reduces the thrust force needed
- Intended for hand drilling in sheet metal, thin wall tubing, or other shallow hole drilling
- Due to their short flute design and heavy web construction, they are more rigid and durable than Jobber or Stub drills

CODE	FRAC	MM	DEC	FLT	OA	PKG
DR77006	3/32		0.0938	11.0	43.0	1
DR77250		2.50	0.0984	11.0	43.0	1
DR77260		2.60	0.1024	11.0	43.0	1
DR77270		2.70	0.1063	13.0	46.0	1
DR77007	7/64		0.1094	13.0	46.0	1
DR77290		2.90	0.1142	13.0	46.0	1
DR77300		3.00	0.1181	13.0	46.0	1
DR77008	1/8		0.1250	13.0	49.0	1

Forets A Queue Cylindrique - Pan-L - Doubles

- HSS
- Finition oxyde noir pour une résistance accrue à l'usure et un pouvoir lubrifiant accru
- Point de partage à 135 degrés pour une pénétration rapide et un démarrage précis (auto-centrage) qui élimine la «marche» et réduit la force de poussée nécessaire
- Destiné au perçage à la main dans la tôle, les tubes à paroi mince ou tout autre perçage de trous peu profonds
- En raison de leur conception à cannelure courte et de leur construction de bande lourde, ils sont plus rigides et durables que les forets Jobber ou Stub

CODE	FRAC	MM	DEC	FLT	OA	PKG
DR77320		3.20	0.1260	13.0	49.0	1
DR77325		3.25	0.1280	13.0	49.0	1
DR77326		3.26	0.1283	13.0	49.0	1
DR77330		3.30	0.1299	13.0	49.0	1
DR77340		3.40	0.1339	14.0	52.0	1
DR77350		3.50	0.1378	14.0	52.0	1
DR77009	9/64		0.1406	14.0	52.0	1
DR77400		4.00	0.1575	16.0	55.0	1

Continued



Pan-L Drills - DR77

CODE	FRAC	MM	DEC	FLT	OA	PKG
DR77410		4.10	0.1614	16.0	55.0	1
DR77420		4.20	0.1654	16.0	55.0	1
DR77012	3/16		0.1875	19.0	62.0	1
DR77490		4.90	0.1929	19.0	62.0	1
DR77500		5.00	0.1968	19.0	62.0	1
DR77520		5.20	0.2047	19.0	62.0	1
DR77014	7/32		0.2188	22.0	66.0	1
DR77600		6.00	0.2362	22.0	66.0	1

CODE	FRAC	MM	DEC	FLT	OA	PKG
DR77016	1/4		0.2500	22.0	70.0	1
DR77650		6.50	0.2559	22.0	70.0	1
DR77680		6.80	0.2677	22.0	74.0	1
DR77700		7.00	0.2756	22.0	74.0	1
DR77018	9/32		0.2812	22.0	74.0	1
DR77020	5/16		0.3125	25.0	79.0	1
DR77800		8.00	0.3150	25.0	79.0	1
DR77024	3/8		0.3750	29.0	89.0	1



Solid Carbide Center Drill - SC07

Solid Carbide Center Drill (Combined Drill & Countersink)

- Premium Submicron Grain Carbide
- Bright Finish
- 60 Deg included angle
- Solid Carbide offers excellent wear and heat resistance
- Often called Center Drills – used for drilling center holes in components or workpieces that require machining between centers

NO	SM DIA MIN	LG DIA MAX	LENGTH	CODE
00	0.025	1/8	1-1/4	SC07010
0	1/32	1/8	1-1/4	SC07000
1	3/64	1/8	1-1/4	SC07001
2	5/64	3/16	1-7/8	SC07002

Forets A Centrer - En Carbure

- Carbure de grain submicronique de qualité supérieure
- Finition brillante
- Angle de 60 degrés inclus
- Le carbure solide offre une excellente résistance à l'usure et à la chaleur
- Souvent appelés forets centraux - sont destinés au perçage de trous centraux dans des composants ou des pièces nécessitant un usinage entre centres

NO	SM DIA MIN	LG DIA MAX	LENGTH	CODE
3	7/64	1/4	2"	SC07003
4	1/8	5/16	2-1/8	SC07004
5	3/16	7/16	2-3/4	SC07005
6	7/32	1/2	3"	SC07006



Center Drills - DR62

Center Drills (Combined Drill & Countersink) - HSS

- HSS • Bright Finish
- 60 Deg included angle
- Often called Center Drills – used for drilling center holes in components or workpieces that require machining between centers

CODE	NO	<	D1	D2	OA	PKG
DR62201	1	60	3/64	1/8	1-1/4	1
DR62202	2	60	5/64	3/16	1-7/8	1
DR62203	3	60	7/64	1/4	2	1
DR62204	4	60	1/8	5/16	2-1/8	1

Forets A Centrer

- HSS • Finition brillante
- Angle de 60 degrés inclus
- Souvent appelés forets centraux - sont destinés au perçage de trous centraux dans des composants ou des pièces nécessitant un usinage entre centres

CODE	NO	<	D1	D2	OA	PKG
DR62205	5	60	3/16	7/16	2-3/4	1
DR62206	6	60	7/32	1/2	3	1
DR62207	7	60	1/4	5/8	3-1/4	1
DR62008	8	60	5/16	3/4	3-1/2	1

Taper Length Drills

DR20 • 46 • 47 • 48



Taper Length Drills – Long Series

- HSS
- Straight Shank
- Black oxide finish for increased wear resistance and added lubricity
- 118 Deg point
- Taper Length drills have the same flute length as taper shank drills for deeper hole drilling
- Suitable for a wide range of materials
- Fractional and Metric sizes

Forets A Queue Cylindrique – Serie Longue

- HSS
- Queue droite
- Finition oxyde noir pour une résistance accrue à l'usure et un pouvoir lubrifiant accru
- Point de 118 degrés
- Les forets à longueur conique ont la même longueur de cannelure que les forets à queue conique pour un forage de trous plus profond
- Convient à une large gamme de matériaux
- Tailles fractionnaires et métriques

CODE	FRAC	NO	MM	DEC	FLT	OA	PKG
DR20280		80		0.0135	5/16	1-1/2	1
DR20279		79		0.0145	5/16	1-1/2	1
DR20278		78		0.0160	5/16	1-1/2	1
DR20277		77		0.0180	5/16	1-1/2	1
DR20276		76		0.0200	5/16	1-1/2	1
DR20275		75		0.0210	5/16	1-1/2	1
DR20274		74		0.0225	5/16	1-1/2	1
DR20273		73		0.0240	5/16	1-1/2	1
DR20272		72		0.0250	5/16	1-1/2	1
DR20271		71		0.0260	3/4	2	1
DR20270		70		0.0280	3/4	2	1
DR20269		69		0.0292	3/4	2	1
DR20268		68		0.0310	3/4	2	1
DR20267		67		0.0320	3/4	2	1
DR20266		66		0.0330	3/4	2	1
DR20265		65		0.0350	3/4	2	1
DR20264		64		0.0360	3/4	2	1
DR20263		63		0.0370	3/4	2	1
DR20262		62		0.0380	3/4	2	1
DR20261		61		0.0390	1-1/8	2-1/4	1
DR46100			1.00	0.0394	33	56	1
DR20260		60		0.0400	1-1/8	2-1/4	1
DR20259		59		0.0410	1-1/8	2-1/4	1
DR20258		58		0.0420	1-1/8	2-1/4	1
DR20257		57		0.0430	1-1/8	2-1/4	1
DR20256		56		0.0465	1-1/8	2-1/4	1
DR46120			1.20	0.0472	41	65	1
DR46130			1.30	0.0512	41	65	1
DR20255		55		0.0520	1-3/4	3	1
DR20254		54		0.0550	1-3/4	3	1
DR46140			1.40	0.0551	45	70	1
DR46150			1.50	0.0591	45	70	1

CODE	FRAC	NO	MM	DEC	FLT	OA	PKG
DR20253		53		0.0595	1-3/4	3	1
DR20004	1/16			0.0625	1-3/4	3	1
DR46160			1.60	0.0630	50	76	1
DR20252		52		0.0635	2	3-3/4	1
DR46170			1.70	0.0669	50	76	1
DR20251		51		0.0670	2	3-3/4	1
DR46175			1.75	0.0689	53	80	1
DR20250		50		0.0700	2	3-3/4	1
DR46180			1.80	0.0709	53	80	1
DR20249		49		0.0730	2	3-3/4	1
DR46190			1.90	0.0748	53	80	1
DR20248		48		0.0760	2	3-3/4	1
DR20005	5/64			0.0781	2	3-3/4	1
DR20247		47		0.0785	2-1/4	4-1/4	1
DR46200			2.00	0.0787	56	85	1
DR46205			2.05	0.0807	56	85	1
DR20246		46		0.0810	2-1/4	4-1/4	1
DR20245		45		0.0820	2-1/4	4-1/4	1
DR46210			2.10	0.0827	56	85	1
DR46215			2.15	0.0846	59	90	1
DR20244		44		0.0860	2-1/4	4-1/4	1
DR46220			2.20	0.0866	59	90	1
DR46225			2.25	0.0886	59	90	1
DR20243		43		0.0890	2-1/4	4-1/4	1
DR46230			2.30	0.0906	59	90	1
DR46235			2.35	0.0925	59	90	1
DR20242		42		0.0935	2-1/4	4-1/4	1
DR20006	3/32			0.0938	2-1/4	4-1/4	1
DR46240			2.40	0.0945	62	95	1
DR20241		41		0.0960	2-1/2	4-5/8	1
DR46245			2.45	0.0965	62	95	1
DR20240		40		0.0980	2-1/2	4-5/8	1

Continued



Taper Length Drills

DR20 • 46 • 47 • 48

CODE	FRAC	NO	MM	DEC	FLT	OA	PKG
DR46250			2.50	0.0984	62	95	1
DR20239		39		0.0995	2-1/2	4-5/8	1
DR46255			2.55	0.1004	62	95	1
DR20238		38		0.1015	2-1/2	4-5/8	1
DR46260			2.60	0.1024	62	95	1
DR20237		37		0.1040	2-1/2	4-5/8	1
DR46265			2.65	0.1043	62	95	1
DR46270			2.70	0.1063	66	100	1
DR20236		36		0.1065	2-1/2	4-5/8	1
DR46275			2.75	0.1083	66	100	1
DR20007	7/64			0.1094	2-1/2	4-5/8	1
DR20235		35		0.1100	2-3/4	5-1/8	1
DR46280			2.80	0.1102	66	100	1
DR20234		34		0.1110	2-3/4	5-1/8	1
DR46285			2.85	0.1122	66	100	1
DR20233		33		0.1130	2-3/4	5-1/8	1
DR46290			2.90	0.1142	66	100	1
DR20232		32		0.1160	2-3/4	5-1/8	1
DR46295			2.95	0.1161	66	100	1
DR46300			3.00	0.1181	66	100	1
DR20231		31		0.1200	2-3/4	5-1/8	1
DR46310			3.10	0.1220	69	106	1
DR20008	1/8			0.1250	2-3/4	5-1/8	1
DR46320			3.20	0.1260	69	106	1
DR46325			3.25	0.1280	69	106	1
DR20230		30		0.1285	3	5-3/8	1
DR46330			3.30	0.1299	69	106	1
DR46340			3.40	0.1339	73	112	1
DR20229		29		0.1360	3	5-3/8	1
DR46350			3.50	0.1378	73	112	1
DR20228		28		0.1405	3	5-3/8	1
DR20009	9/64			0.1406	3	5-3/8	1
DR46360			3.60	0.1417	73	112	1
DR20227		27		0.1440	3	5-3/8	1
DR46370			3.70	0.1457	73	112	1
DR20226		26		0.1470	3	5-3/8	1
DR46375			3.75	0.1476	73	112	1
DR20225		25		0.1495	3	5-3/8	1
DR46380			3.80	0.1496	78	119	1
DR20224		24		0.1520	3	5-3/8	1
DR46390			3.90	0.1535	78	119	1
DR20223		23		0.1540	3	5-3/8	1

CODE	FRAC	NO	MM	DEC	FLT	OA	PKG
DR20010	5/32			0.1562	3	5-3/8	1
DR20222		22		0.1570	3-3/8	5-3/4	1
DR46400			4.00	0.1575	78	119	1
DR20221		21		0.1590	3-3/8	5-3/4	1
DR20220		20		0.1610	3-3/8	5-3/4	1
DR46410			4.10	0.1614	78	119	1
DR46420			4.20	0.1654	78	119	1
DR20219		19		0.1660	3-3/8	5-3/4	1
DR46425			4.25	0.1673	78	119	1
DR46430			4.30	0.1693	82	126	1
DR20218		18		0.1695	3-3/8	5-3/4	1
DR20011	11/64			0.1719	3-3/8	5-3/4	1
DR20217		17		0.1730	3-3/8	5-3/4	1
DR46440			4.40	0.1732	82	126	1
DR20216		16		0.1770	3-3/8	5-3/4	1
DR46450			4.50	0.1772	82	126	1
DR20215		15		0.1800	3-3/8	5-3/4	1
DR46460			4.60	0.1811	82	126	1
DR20214		14		0.1820	3-3/8	5-3/4	1
DR20213		13		0.1850	3-3/8	5-3/4	1
DR46470			4.70	0.1850	82	126	1
DR46475			4.75	0.1870	82	126	1
DR20012	3/16			0.1875	3-3/8	5-3/4	1
DR20212		12		0.1890	3-5/8	6	1
DR46480			4.80	0.1890	87	132	1
DR20211		11		0.1910	3-5/8	6	1
DR46490			4.90	0.1929	87	132	1
DR20210		10		0.1935	3-5/8	6	1
DR20209		9		0.1960	3-5/8	6	1
DR46500			5.00	0.1968	87	132	1
DR20208		8		0.1990	3-5/8	6	1
DR46510			5.10	0.2008	87	132	1
DR20207		7		0.2010	3-5/8	6	1
DR20013	13/64			0.2031	3-5/8	6	1
DR20206		6		0.2040	3-5/8	6	1
DR46520			5.20	0.2047	87	132	1
DR20205		5		0.2055	3-5/8	6	1
DR46525			5.25	0.2067	87	132	1
DR46530			5.30	0.2087	87	132	1
DR20204		4		0.2090	3-5/8	6	1
DR46540			5.40	0.2126	91	139	1
DR20203		3		0.2130	3-5/8	6	1

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CODE	FRAC	NO	MM	DEC	FLT	OA	PKG
DR46550			5.50	0.2165	91	139	1
DR20014	7/32			0.2188	3-5/8	6	1
DR46560			5.60	0.2205	91	139	1
DR20202	2			0.2210	3-3/4	6-1/8	1
DR46570			5.70	0.2244	91	139	1
DR46575			5.75	0.2264	91	139	1
DR20201	1			0.2280	3-3/4	6-1/8	1
DR46580			5.80	0.2283	91	139	1
DR46590			5.90	0.2323	91	139	1
DR20301	A			0.2340	3-3/4	6-1/8	1
DR20015	15/64			0.2344	3-3/4	6-1/8	1
DR46600			6.00	0.2362	6	139	1
DR20302	B			0.2380	3-3/4	6-1/8	1
DR46610			6.10	0.2402	97	148	1
DR20303	C			0.2420	3-3/4	6-1/8	1
DR46620			6.20	0.2441	97	148	1
DR20304	D			0.2460	3-3/4	6-1/8	1
DR46630			6.30	0.2480	97	148	1
DR20016	1/4	E		0.2500	3-3/4	6-1/8	1
DR46640			6.40	0.2520	97	148	1
DR46650			6.50	0.2559	97	148	1
DR20306	F			0.2570	3-7/8	6-1/4	1
DR46660			6.60	0.2598	97	148	1
DR20307	G			0.2610	3-7/8	6-1/4	1
DR46670			6.70	0.2638	97	148	1
DR20017	17/64			0.2656	3-7/8	6-1/4	1
DR46675			6.75	0.2657	102	156	1
DR20308	H			0.2660	3-7/8	6-1/4	1
DR46680			6.80	0.2677	102	156	1
DR46690			6.90	0.2717	102	156	1
DR20309	I			0.2720	3-7/8	6-1/4	1
DR46700			7.00	0.2756	102	156	1
DR20310	J			0.2770	3-7/8	6-1/4	1
DR46710			7.10	0.2795	102	156	1
DR20311	K			0.2810	3-7/8	6-1/4	1
DR20018	9/32			0.2812	3-7/8	6-1/4	1
DR46720			7.20	0.2835	102	156	1
DR46725			7.25	0.2854	102	156	1
DR46730			7.30	0.2874	102	156	1
DR20312	L			0.2900	4	6-3/8	1
DR46740			7.40	0.2913	102	6	1
DR20313	M			0.2950	4	6-3/8	1

CODE	FRAC	NO	MM	DEC	FLT	OA	PKG
DR46750			7.50	0.2953	102	156	1
DR20019	19/64			0.2969	4	6-3/8	1
DR46760			7.60	0.2992	109	165	1
DR20314	N			0.3020	4	6-3/8	1
DR46770			7.70	0.3031	109	165	1
DR46775			7.75	0.3051	109	165	1
DR46780			7.80	0.3071	109	165	1
DR46790			7.90	0.3110	109	165	1
DR20020	5/32			0.3125	4	6-3/8	1
DR46800			8.00	0.3150	109	165	1
DR20315	O			0.3160	4-1/8	6-1/2	1
DR46810			8.10	0.3189	109	165	1
DR46820			8.20	0.3228	109	165	1
DR20316	P			0.3230	4-1/8	6-1/2	1
DR46830			8.30	0.3268	109	165	1
DR20021	21/64			0.3281	4-1/8	6-1/2	1
DR46840			8.40	0.3307	109	165	1
DR20317	Q			0.3320	4-1/8	6-1/2	1
DR46850			8.50	0.3346	109	165	1
DR46860			8.60	0.3386	115	175	1
DR20318	R			0.3390	4-1/8	6-1/2	1
DR46870			8.70	0.3425	115	175	1
DR20022	11/32			0.3438	4-1/8	6-1/2	1
DR46875			8.75	0.3445	115	175	1
DR46880			8.80	0.3465	115	175	1
DR20319	S			0.3480	4-1/4	6-3/4	1
DR46890			8.90	0.3504	115	175	1
DR46900			9.00	0.3543	115	175	1
DR20320	T			0.3580	4-1/4	6-3/4	1
DR46910			9.10	0.3583	115	175	1
DR20023	23/64			0.3594	4-1/4	6-3/4	1
DR46920			9.20	0.3622	115	175	1
DR46925			9.25	0.3642	115	175	1
DR46930			9.30	0.3661	115	175	1
DR20321	U			0.3680	4-1/4	6-3/4	1
DR46940			9.40	0.3701	115	175	1
DR46950			9.50	0.3740	115	175	1
DR20024	3/8			0.3750	4-1/4	6-3/4	1
DR20322	V			0.3770	4-3/8	7	1
DR46960			9.60	0.3780	121	184	1
DR46970			9.70	0.3819	121	184	1
DR46975			9.75	0.3839	121	184	1

Continued



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CODE	FRAC	NO	MM	DEC	FLT	OA	PKG
DR46980			9.80	0.3858	121	184	1
DR20323	W			0.3860	4-3/8	7	1
DR46990			9.90	0.3898	121	184	1
DR20025	25/64			0.3906	4-3/8	7	1
DR47000			10.00	0.3937	121	184	1
DR20324	X			0.3970	4-3/8	7	1
DR47010			10.10	0.3976	121	184	1
DR47020			10.20	0.4016	121	184	1
DR47025			10.25	0.4035	121	184	1
DR20325	Y			0.4040	4-3/8	7	1
DR47030			10.30	0.4055	121	184	1
DR20026	13/32			0.4062	4-3/8	7	1
DR47040			10.40	0.4094	121	184	1
DR20326	Z			0.4130	4-5/8	7	1
DR47050			10.50	0.4134	121	184	1
DR47060			10.60	0.4173	121	184	1
DR47070			10.70	0.4213	128	195	1
DR20027	27/64			0.4219	4-5/8	7-1/4	1
DR47075			10.75	0.4232	128	195	1
DR47080			10.80	0.4252	128	195	1
DR47090			10.90	0.4291	128	195	1
DR47100			11.00	0.4331	128	195	1
DR47110			11.10	0.4370	128	195	1
DR20028	7/16			0.4375	4-5/8	7-1/4	1
DR47120			11.20	0.4409	128	195	1
DR47130			11.30	0.4449	128	195	1
DR47140			11.40	0.4488	128	195	1
DR47150			11.50	0.4528	128	195	1
DR20029	29/64			0.4531	4-3/4	7-1/2	1
DR47160			11.60	0.4567	128	195	1
DR47170			11.70	0.4606	128	195	1
DR47180			11.80	0.4646	128	195	1
DR47190			11.90	0.4685	134	205	1
DR20030	15/32			0.4688	4-3/4	7-1/2	1
DR47200			12.00	0.4724	134	205	1
DR47210			12.10	0.4764	134	205	1
DR47220			12.20	0.4803	134	205	1
DR47230			12.30	0.4843	134	205	1
DR20031	31/64			0.4844	4-3/4	7-1/2	1
DR47240			12.40	0.4882	134	205	1
DR47250			12.50	0.4921	134	205	1
DR47260			12.60	0.4961	134	205	1

CODE	FRAC	NO	MM	DEC	FLT	OA	PKG
DR20032	1/2			0.5000	4-3/4	7-3/4	1
DR47280			12.80	0.5039	134	205	1
DR47290			12.90	0.5079	134	205	1
DR47300			13.00	0.5118	134	205	1
DR20033	33/64			0.5156	4-3/4	8	1
DR47310			13.10	0.5157	134	205	1
DR47320			13.20	0.5197	134	205	1
DR47330			13.30	0.5236	140	214	1
DR47340			13.40	0.5276	140	214	1
DR20034	17/32			0.5312	4-3/4	8	1
DR47350			13.50	0.5315	140	214	1
DR47360			13.60	0.5354	140	214	1
DR47370			13.70	0.5394	140	214	1
DR47375			13.75	0.5413	140	214	1
DR47380			13.80	0.5433	140	214	1
DR20035	35/64			0.5469	4-7/8	8-1/4	1
DR47390			13.90	0.5472	140	214	1
DR47400			14.00	0.5512	140	214	1
DR47425			14.25	0.5610	144	220	1
DR20036	9/16			0.5625	4-7/8	8-1/4	1
DR47450			14.50	0.5709	144	220	1
DR20037	37/64			0.5781	4-7/8	8-3/4	1
DR47475			14.75	0.5807	144	220	1
DR47500			15.00	0.5906	144	220	1
DR20038	19/32			0.5938	4-7/8	8-3/4	1
DR47525			15.25	0.6004	149	227	1
DR20039	39/64			0.6094	4-7/8	8-3/4	1
DR47550			15.50	0.6102	149	227	1
DR47575			15.75	0.6201	149	227	1
DR20040	5/8			0.6250	4-7/8	8-3/4	1
DR47600			16.00	0.6299	149	227	1
DR47625			16.25	0.6398	154	235	1
DR20041	41/64			0.6406	5-1/8	9	1
DR47650			16.50	0.6496	154	235	1
DR20042	21/32			0.6562	5-1/8	9	1
DR47675			16.75	0.6594	154	235	1
DR47700			17.00	0.6693	158	241	1
DR20043	43/64			0.6719	5-3/8	9-1/4	1
DR47725			17.25	0.6791	158	241	1
DR20044	11/16			0.6875	5-3/8	9-1/4	1
DR47750			17.50	0.6890	158	241	1
DR47775			17.75	0.6988	158	241	1

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CODE	FRAC	NO	MM	DEC	FLT	OA	PKG
DR20045	45/64			0.7031	5-5/8	9-1/2	1
DR47800			18.00	0.7087	158	241	1
DR47825			18.25	0.7185	162	247	1
DR20046	23/32			0.7188	5-5/8	9-1/2	1
DR47850			18.50	0.7283	162	247	1
DR20047	47/64			0.7344	5-7/8	9-3/4	1
DR47875			18.75	0.7382	162	247	1
DR47900			19.00	0.7480	162	247	1
DR20048	3/4			0.7500	5-7/8	9-3/4	1
DR47925			19.25	0.7579	166	254	1
DR20049	49/64			0.7656	6	9-7/8	1
DR47950			19.50	0.7677	166	254	1
DR47975			19.75	0.7776	166	254	1
DR20050	25/32			0.7812	6	9-7/8	1
DR48000			20.00	0.7874	166	254	1
DR20051	51/64			0.7969	6-1/8	10	1
DR48025			20.25	0.7972	171	261	1
DR48050			20.50	0.8071	171	261	1
DR20052	13/16			0.8125	6-1/8	10	1
DR48075			20.75	0.8169	171	261	1
DR48100			21.00	0.8268	171	261	1
DR20053	53/64			0.8281	6-1/8	10	1
DR48125			21.25	0.8366	176	268	1
DR20054	27/32			0.8438	6-1/8	10	1
DR48150			21.50	0.8465	176	268	1
DR48175			21.75	0.8563	176	268	1
DR20055	55/64			0.8594	6-1/8	10	1
DR48200			22.00	0.8661	176	268	1
DR20056	7/8			0.8750	6-1/8	10	1
DR48225			22.25	0.8760	176	268	1
DR48250			22.50	0.8858	180	275	1
DR20057	57/64			0.8906	6-1/8	10	1
DR48275			22.75	0.8957	180	275	1
DR48300			23.00	0.9055	180	275	1
DR20058	29/32			0.9062	6-1/8	10	1
DR48325			23.25	0.9154	180	275	1
DR20059	59/64			0.9219	6-1/8	10-3/4	1
DR48350			23.50	0.9252	180	275	1
DR48375			23.75	0.9350	185	282	1
DR20060	15/16			0.9375	6-1/8	10-3/4	1
DR48400			24.00	0.9449	185	282	1
DR20061	61/64			0.9531	6-3/8	11	1

CODE	FRAC	NO	MM	DEC	FLT	OA	PKG
DR48425			24.25	0.9547	185	282	1
DR48450			24.50	0.9646	185	282	1
DR20062	31/32			0.9688	6-3/8	11	1
DR48475			24.75	0.9744	185	282	1
DR48500			25.00	0.9843	185	282	1
DR20063	63/64			0.9844	6-3/8	11	1
DR20100	1			1.0000	6-3/8	11	1
DR20101	1-1/64			1.0156	6-1/2	11-1/8	1
DR48600			26.00	1.0236	190	290	1
DR20102	1-1/32			1.0312	6-1/2	11-1/8	1
DR20103	1-3/64			1.0469	6-5/8	11-1/4	1
DR20104	1-1/16			1.0625	6-1/2	11-1/4	1
DR48700			27.00	1.0630	195	298	1
DR20105	1-5/64			1.0781	6-7/8	11-1/2	1
DR20106	1-3/32			1.0938	6-7/8	11-1/2	1
DR48800			28.00	1.1024	195	298	1
DR20107	1-7/64			1.1094	7-1/8	11-3/4	1
DR20108	1-1/8			1.1250	7-1/8	11-3/4	1
DR20109	1-9/64			1.1406	7-1/4	11-7/8	1
DR48900			29.00	1.1417	201	307	1
DR20110	1-5/32			1.1562	7-1/4	11-7/8	1
DR20111	1-11/64			1.1719	7-3/8	12	1
DR48990			30.00	1.1811	201	307	1
DR20112	1-3/16			1.1875	7-3/8	12	1
DR20113	1-13/64			1.2031	7-1/2	12-1/8	1
DR20114	1-7/32			1.2188	7-1/2	12-1/8	1
DR20115	1-15/64			1.2344	7-7/8	12-1/2	1
DR20116	1-1/4			1.2500	7-7/8	12-1/2	1
DR20118	1-9/32			1.2812	8-1/2	14-1/8	1
DR20120	1-5/16			1.3125	8-5/8	14-1/4	1
DR20122	1-11/32			1.3438	8-3/4	14-3/8	1
DR20124	1-3/8			1.3750	8-7/8	14-1/2	1
DR20126	1-13/32			1.4062	9	14-5/8	1
DR20128	1-7/16			1.4375	9-1/8	14-3/4	1
DR20130	1-15/32			1.4688	9-1/4	14-7/8	1
DR20132	1-1/2			1.5000	9-3/8	15	1
DR20136	1-9/16			1.5625	9-5/8	15-1/4	1
DR20140	1-5/8			1.6250	9-7/8	15-5/8	1
DR20144	1-11/16			1.6875	10-1/8	16	1
DR20148	1-3/4			1.7500	10-1/2	16-1/4	1
DR20152	1-13/16			1.8125	10-1/2	16-1/4	1
DR20156	1-7/8			1.8700	10-5/8	16-1/4	1
DR20160	1-15/16			1.9375	10-3/4	16-5/8	1
DR20200	2			2.0000	10-3/4	17-1/4	1



Taper Length Drills - DR29

Taper Length Drills - Cobalt

- Cobalt drills offer increased hardness, toughness and better wear resistance compared to regular HSS
- Gold Oxide surface finish provides a polished finish and prevents chip building, galling and welding on a workpiece
- 135 Deg split point for fast penetration and accurate starting (self-centering) which eliminates "Walking" and reduces the thrust force needed
- Taper Length drills have the same flute length as taper shank drills for deeper hole drilling
- Cobalt drills are suitable for harder material including alloy steels, Stainless Steel and other difficult to drill materials

Forets A Queue Cylindrique Serie Longue - Cobalt

- Les forets au cobalt offrent une dureté, une ténacité et une meilleure résistance à l'usure accrues par rapport au HSS ordinaire
- La finition de surface en oxyde d'or offre une finition polie et empêche la formation de copeaux, le grippage et le soudage sur une pièce
- Point de partage à 135 degrés pour une pénétration rapide et un démarrage précis (auto-centrage) qui élimine la «marche» et réduit la force de poussée nécessaire
- Les forets à longueur conique ont la même longueur de cannelure que les forets à queue conique pour un forage de trous plus profond
- Les forets au cobalt conviennent aux matériaux plus durs, notamment les aciers alliés, l'acier inoxydable et autres matériaux difficiles à percer

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR29260		60	0.0400	1-1/8	2-1/4	1
DR29259		59	0.0410	1-1/8	2-1/4	1
DR29258		58	0.0420	1-1/8	2-1/4	1
DR29257		57	0.0430	1-1/8	2-1/4	1
DR29256		56	0.0465	1-1/8	2-1/4	1
DR29255		55	0.0520	1-3/4	3	1
DR29254		54	0.0550	1-3/4	3	1
DR29253		53	0.0595	1-3/4	3	1
DR29004	1/16		0.0625	1-3/4	3	1
DR29252		52	0.0635	2	3-3/4	1
DR29251		51	0.0670	2	3-3/4	1
DR29250		50	0.0700	2	3-3/4	1
DR29249		49	0.0730	2	3-3/4	1
DR29248		48	0.0760	2	3-3/4	1
DR29005	5/64		0.0781	2	3-3/4	1
DR29247		47	0.0785	2-1/4	4-1/4	1
DR29246		46	0.0810	2-1/4	4-1/4	1
DR29245		45	0.0820	2-1/4	4-1/4	1
DR29244		44	0.0860	2-1/4	4-1/4	1
DR29243		43	0.0890	2-1/4	4-1/4	1
DR29242		42	0.0935	2-1/4	4-1/4	1
DR29006	3/32		0.0938	2-1/4	4-1/4	1
DR29241		41	0.0960	2-1/2	4-5/8	1
DR29240		40	0.0980	2-1/2	4-5/8	1
DR29239		39	0.0995	2-1/2	4-5/8	1
DR29238		38	0.1015	2-1/2	4-5/8	1
DR29237		37	0.1040	2-1/2	4-5/8	1
DR29236		36	0.1065	2-1/2	4-5/8	1
DR29007	7/64		0.1094	2-1/2	4-5/8	1
DR29235		35	0.1100	2-3/4	5-1/8	1

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR29234		34	0.1110	2-3/4	5-1/8	1
DR29233		33	0.1130	2-3/4	5-1/8	1
DR29232		32	0.1160	2-3/4	5-1/8	1
DR29231		31	0.1200	2-3/4	5-1/8	1
DR29008	1/8		0.1250	2-3/4	5-1/8	1
DR29230		30	0.1285	3	5-3/8	1
DR29229		29	0.1360	3	5-3/8	1
DR29228		28	0.1405	3	5-3/8	1
DR29009	9/64		0.1406	3	5-3/8	1
DR29227		27	0.1440	3	5-3/8	1
DR29226		26	0.1470	3	5-3/8	1
DR29225		25	0.1495	3	5-3/8	1
DR29224		24	0.1520	3	5-3/8	1
DR29223		23	0.1540	3	5-3/8	1
DR29010	5/32		0.1562	3	5-3/8	1
DR29222		22	0.1570	3-3/8	5-3/4	1
DR29221		21	0.1590	3-3/8	5-3/4	1
DR29220		20	0.1610	3-3/8	5-3/4	1
DR29219		19	0.1660	3-3/8	5-3/4	1
DR29218		18	0.1695	3-3/8	5-3/4	1
DR29011	11/64		0.1719	3-3/8	5-3/4	1
DR29217		17	0.1730	3-3/8	5-3/4	1
DR29216		16	0.1770	3-3/8	5-3/4	1
DR29215		15	0.1800	3-3/8	5-3/4	1
DR29214		14	0.1820	3-3/8	5-3/4	1
DR29213		13	0.1850	3-3/8	5-3/4	1
DR29012	3/16		0.1875	3-3/8	5-3/4	1
DR29212		12	0.1890	3-5/8	6	1
DR29211		11	0.1910	3-5/8	6	1
DR29210		10	0.1935	3-5/8	6	1



Taper Length Drills - DR29

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR29209		9	0.1960	3-5/8	6	1
DR29208		8	0.1990	3-5/8	6	1
DR29207		7	0.2010	3-5/8	6	1
DR29013	13/64		0.2031	3-5/8	6	1
DR29206		6	0.2040	3-5/8	6	1
DR29205		5	0.2055	3-5/8	6	1
DR29204		4	0.2090	3-5/8	6	1
DR29203		3	0.2130	3-5/8	6	1
DR29014	7/32		0.2188	3-5/8	6	1
DR29202		2	0.2210	3-3/4	6-1/8	1
DR29201		1	0.2280	3-3/4	6-1/8	1
DR29101		A	0.2340	3-3/4	6-1/8	1
DR29015	15/64		0.2344	3-3/4	6-1/8	1
DR29102		B	0.2380	3-3/4	6-1/8	1
DR29103		C	0.2420	3-3/4	6-1/8	1
DR29104		D	0.2460	3-3/4	6-1/8	1
DR29016	1/4	E	0.2500	3-3/4	6-1/8	1
DR29106		F	0.2570	3-7/8	6-1/4	1
DR29107		G	0.2610	3-7/8	6-1/4	1
DR29017	17/64		0.2656	3-7/8	6-1/4	1
DR29108		H	0.2660	3-7/8	6-1/4	1
DR29109		I	0.2720	3-7/8	6-1/4	1
DR29110		J	0.2770	3-7/8	6-1/4	1
DR29111		K	0.2810	3-7/8	6-1/4	1
DR29018	9/32		0.2812	3-7/8	6-1/4	1
DR29112		L	0.2900	4	6-3/8	1
DR29113		M	0.2950	4	6-3/8	1
DR29019	19/64		0.2969	4	6-3/8	1
DR29114		N	0.3020	4	6-3/8	1
DR29020	5/16		0.3125	4	6-3/8	1
DR29115		O	0.3160	4-1/8	6-1/2	1
DR29116		P	0.3230	4-1/8	6-1/2	1
DR29021	21/64		0.3281	4-1/8	6-1/2	1
DR29117		Q	0.3320	4-1/8	6-1/2	1
DR29118		R	0.3390	4-1/8	6-1/2	1
DR29022	11/32		0.3438	4-1/8	6-1/2	1
DR29119		S	0.3480	4-1/4	6-3/4	1
DR29120		T	0.3580	4-1/4	6-3/4	1
DR29023	23/64		0.3594	4-1/4	6-3/4	1
DR29121		U	0.3680	4-1/4	6-3/4	1
DR29024	3/8		0.3750	4-1/4	6-3/4	1
DR29122		V	0.3770	4-3/8	7	1

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR29123		W	0.3860	4-3/8	7	1
DR29025	25/64		0.3906	4-3/8	7	1
DR29124		X	0.3970	4-3/8	7	1
DR29125		Y	0.4040	4-3/8	7	1
DR29026	13/32		0.4062	4-3/8	7	1
DR29126		Z	0.4130	4-5/8	7-1/4	1
DR29027	27/64		0.4219	4-5/8	7-1/4	1
DR29028	7/16		0.4375	4-5/8	7-1/4	1
DR29029	29/64		0.4531	4-3/4	7-1/2	1
DR29030	15/32		0.4688	4-3/4	7-1/2	1
DR29031	31/64		0.4844	4-3/4	7-1/2	1
DR29032	1/2		0.5000	4-3/4	7-3/4	1
DR29033	33/64		0.5156	4-3/4	8	1
DR29034	17/32		0.5312	4-3/4	8	1
DR29035	35/64		0.5469	4-7/8	8-1/4	1
DR29036	9/16		0.5625	4-7/8	8-1/4	1
DR29037	37/64		0.5781	4-7/8	8-3/4	1
DR29038	19/32		0.5938	4-7/8	8-3/4	1
DR29039	39/64		0.6094	4-7/8	8-3/4	1
DR29040	5/8		0.6250	4-7/8	8-3/4	1
DR29041	41/64		0.6406	5-1/8	9	1
DR29042	21/32		0.6562	5-1/8	9	1
DR29043	43/64		0.6719	5-3/8	9-1/4	1
DR29044	11/16		0.6875	5-3/8	9-1/4	1
DR29045	45/64		0.7031	5-5/8	9-1/2	1
DR29046	23/32		0.7188	5-5/8	9-1/2	1
DR29047	47/64		0.7344	5-7/8	9-3/4	1
DR29048	3/4		0.7500	5-7/8	9-3/4	1
DR29049	49/64		0.7656	6	9-7/8	1
DR29050	25/32		0.7813	6	9-7/8	1
DR29051	51/64		0.7969	6-1/8	10	1
DR29052	13/16		0.8125	6-1/8	10	1
DR29053	53/64		0.8281	6-1/8	10	1
DR29054	27/32		0.8438	6-1/8	10	1
DR29055	55/64		0.8594	6-1/8	10	1
DR29056	7/8		0.8750	6-1/8	10	1
DR29057	57/64		0.8906	6-1/8	10	1
DR29058	29/32		0.9063	6-1/8	10	1
DR29059	59/64		0.9219	6-1/8	10-3/4	1
DR29060	15/16		0.9375	6-1/8	10-3/4	1
DR29061	61/64		0.9531	6-3/8	11	1
DR29062	31/32		0.9688	6-3/8	11	1
DR29063	63/64		0.9844	6-3/8	11	1
DR29100	1		1.0000	6-3/8	11	1



Extra Long Drills - DR40

Extra Long Drills

- HSS
- Straight Shank
- Black oxide finish for increased wear resistance and added lubricity
- 118 Deg Point
- Fractional and Metric sizes in various Overall Lengths / Flute Lengths for each diameter
- For general purpose deep drilling or applications where extra reach is required in a wide range of materials
- Not suitable for hand drilling

SIZES TAGGED WITH AN ASTERIX HAVE A 1/2" REDUCED SHANK

CODE	FRAC	MM	DEC	FLT	OA	PKG
DR40204	1/16		0.0625	4	6	1
DR40218		1.80	0.0709	3-15/16	6	1
DR40205	5/64		0.0781	4	6	1
DR40120		2.00	0.0787	3-9/64	5	1
DR40220		2.00	0.0787	3-15/16	6	1
DR40222		2.20	0.0866	3-15/16	6	1
DR40106	3/32		0.0938	3-9/64	5	1
DR40206	3/32		0.0938	4	6	1
DR40306	3/32		0.0938	5-1/2	8	1
DR40125		2.50	0.0984	3-9/64	5	1
DR40225		2.50	0.0984	3-15/16	6	1
DR40207	7/64		0.1094	4	6	1
DR40307	7/64		0.1094	5-1/2	8	1
DR40507	7/64		0.1094	9	12	1
DR40230		3.00	0.1181	3-15/16	6	1
DR40333		3.00	0.1181	5-1/2	8	1
DR40433		3.00	0.1181	7-1/2	10	1
DR40573		3.00	0.1181	9	12	1
DR40208	1/8		0.1250	4	6	1
DR40308	1/8		0.1250	5-1/2	8	1
DR40408	1/8		0.1250	7-1/2	10	1
DR40508	1/8		0.1250	9	12	1
DR40808	1/8		0.1250	12	18	1
DR40233		3.30	0.1299	3-15/16	6	1
DR40235		3.50	0.1378	3-15/16	6	1
DR40335		3.50	0.1378	5-29/32	8	1

Forets - Ultra Longue

- HSS
- Queue droite
- Finition oxyde noir pour une résistance accrue à l'usure et un pouvoir lubrifiant accru
- 118 degrés
- Tailles fractionnaires et métriques dans différentes longueurs hors tout / longueurs de cannelure pour chaque diamètre
- Pour le forage en profondeur à usage général ou les applications où une portée supplémentaire est requise dans une large gamme de matériaux
- Ne convient pas au perçage manuel

TAILLES AVEC * LE FORET À TIGE RÉDUITE DE 1/2

CODE	FRAC	MM	DEC	FLT	OA	PKG
DR40435		3.50	0.1378	7-7/8	10	1
DR40209	9/64		0.1406	4	6	1
DR40309	9/64		0.1406	5-1/2	8	1
DR40409	9/64		0.1406	7-1/2	10	1
DR40509	9/64		0.1406	9	12	1
DR40237		3.70	0.1457	3-15/16	6	1
DR40210	5/32		0.1562	4	6	1
DR40310	5/32		0.1562	5-1/2	8	1
DR40410	5/32		0.1562	7-1/2	10	1
DR40510	5/32		0.1562	9	12	1
DR40810	5/32		0.1562	12	18	1
DR40240		4.00	0.1575	3-15/16	6	1
DR40340		4.00	0.1575	5-29/32	8	1
DR40440		4.00	0.1575	7-7/8	10	1
DR40574		4.00	0.1575	9	12	1
DR40211	11/64		0.1719	4	6	1
DR40311	11/64		0.1719	5-1/2	8	1
DR40411	11/64		0.1719	7-1/2	10	1
DR40511	11/64		0.1719	9	12	1
DR40245		4.50	0.1772	3-15/16	6	1
DR40345		4.50	0.1772	5-29/32	8	1
DR40445		4.50	0.1772	7-7/8	10	1
DR40212	3/16		0.1875	4	6	1
DR40312	3/16		0.1875	5-1/2	8	1
DR40412	3/16		0.1875	7-1/2	10	1
DR40512	3/16		0.1875	9	12	1



Extra Long Drills - DR40

CODE	FRAC	MM	DEC	FLT	OA	PKG
DR40612	3/16		0.1875	11	15	1
DR40812	3/16		0.1875	12	18	1
DR40250		5.00	0.1968	3-15/16	6	1
DR40350		5.00	0.1968	5-29/32	8	1
DR40450		5.00	0.1968	7-7/8	10	1
DR40575		5.00	0.1968	9	12	1
DR40313	13/64		0.2031	5-1/2	8	1
DR40413	13/64		0.2031	7-1/2	10	1
DR40513	13/64		0.2031	9	12	1
DR40813	13/64		0.2031	12	18	1
DR40355		5.50	0.2165	5-29/32	8	1
DR40455		5.50	0.2165	7-7/8	10	1
DR40314	7/32		0.2188	5-1/2	8	1
DR40414	7/32		0.2188	7-1/2	10	1
DR40514	7/32		0.2188	9	12	1
DR40714	7/32		0.2188	11	15	1
DR40814	7/32		0.2188	12	18	1
DR40315	15/64		0.2344	5-1/2	8	1
DR40415	15/64		0.2344	7-1/2	10	1
DR40515	15/64		0.2344	9	12	1
DR40815	15/64		0.2344	12	18	1
DR40360		6.00	0.2362	5-29/32	8	1
DR40460		6.00	0.2362	7-7/8	10	1
DR40576		6.00	0.2362	9	12	1
DR40316	1/4		0.2500	5-1/2	8	1
DR40416	1/4		0.2500	7-1/2	10	1
DR40516	1/4		0.2500	9	12	1
DR40616	1/4		0.2500	11	15	1
DR40816	1/4		0.2500	12	18	1
DR40975	1/4		0.2500	18	24	1
DR40990	1/4		0.2500	5-1/2	48	1
DR40365		6.50	0.2559	5-29/32	8	1
DR40465		6.50	0.2559	7-7/8	10	1
DR40317	17/64		0.2656	5-1/2	8	1
DR40417	17/64		0.2656	7-1/2	10	1
DR40517	17/64		0.2656	9	12	1
DR40817	17/64		0.2656	12	18	1
DR40370		7.00	0.2756	5-29/32	8	1

CODE	FRAC	MM	DEC	FLT	OA	PKG
DR40470		7.00	0.2756	7-7/8	10	1
DR40577		7.00	0.2756	9	12	1
DR40318	9/32		0.2813	5-1/2	8	1
DR40418	9/32		0.2813	7-1/2	10	1
DR40518	9/32		0.2813	9	12	1
DR40718	9/32		0.2813	11	15	1
DR40818	9/32		0.2813	12	18	1
DR40375		7.50	0.2953	5-29/32	8	1
DR40475		7.50	0.2953	7-7/8	10	1
DR40319	19/64		0.2969	5-1/2	8	1
DR40419	19/64		0.2969	7-1/2	10	1
DR40519	19/64		0.2969	9	12	1
DR40819	19/64		0.2969	12	18	1
DR40320	5/16		0.3125	5-1/2	8	1
DR40420	5/16		0.3125	7-1/2	10	1
DR40520	5/16		0.3125	9	12	1
DR40620	5/16		0.3125	11	15	1
DR40820	5/16		0.3125	12	18	1
DR40976	5/16		0.3125	18	24	1
DR40991	5/16		0.3125	5-1/2	48	1
DR40480		8.00	0.3150	7-7/8	10	1
DR40578		8.00	0.3150	9	12	1
DR40321	21/64		0.3281	5-1/2	8	1
DR40421	21/64		0.3281	7-1/2	10	1
DR40521	21/64		0.3281	9	12	1
DR40821	21/64		0.3281	12	18	1
DR40485		8.50	0.3346	7-7/8	10	1
DR40322	11/32		0.3438	5-1/2	8	1
DR40422	11/32		0.3438	7-1/2	10	1
DR40522	11/32		0.3438	9	12	1
DR40722	11/32		0.3438	11	15	1
DR40822	11/32		0.3438	12	18	1
DR40490		9.00	0.3543	7-7/8	10	1
DR40579		9.00	0.3543	9	12	1
DR40323	23/64		0.3594	5-1/2	8	1
DR40423	23/64		0.3594	7-1/2	10	1
DR40523	23/64		0.3594	9	12	1
DR40823	23/64		0.3594	12	18	1

Continued



Extra Long Drills - DR40

CODE	FRAC	MM	DEC	FLT	OA	PKG
DR40491		9.50	0.3740	7-7/8	10	1
DR40324	3/8		0.3750	5-1/2	8	1
DR40424	3/8		0.3750	7-1/2	10	1
DR40524	3/8		0.3750	9	12	1
DR40624	3/8		0.3750	11	15	1
DR40824	3/8		0.3750	12	18	1
DR40977	3/8		0.3750	18	24	1
DR40992	3/8		0.3750	5-1/2	48	1
DR40325	25/64		0.3906	5-1/2	8	1
DR40425	25/64		0.3906	7-1/2	10	1
DR40525	25/64		0.3906	9	12	1
DR40825	25/64		0.3906	12	18	1
DR40492		10.00	0.3937	7-1/2	10	1
DR40592		10.00	0.3937	9	12	1
DR40326	13/32		0.4062	5-1/2	8	1
DR40426	13/32		0.4062	7-1/2	10	1
DR40526	13/32		0.4062	9	12	1
DR40726	13/32		0.4062	11	15	1
DR40826	13/32		0.4062	12	18	1
DR40493		10.50	0.4134	7-1/2	10	1
DR40581		10.50	0.4134	9	12	1
DR40327	27/64		0.4219	5-1/2	8	1
DR40427	27/64		0.4219	7-1/2	10	1
DR40527	27/64		0.4219	9	12	1
DR40827	27/64		0.4219	12	18	1
DR40494		11.00	0.4331	7-1/2	10	1
DR40582		11.00	0.4331	9	12	1
DR40328	7/16		0.4375	5-1/2	8	1
DR40428	7/16		0.4375	7-1/2	10	1
DR40528	7/16		0.4375	9	12	1
DR40628	7/16		0.4375	11	15	1
DR40828	7/16		0.4375	12	18	1
DR40978	7/16		0.4375	18	24	1
DR40993	7/16		0.4375	5-1/2	48	1
DR40329	29/64		0.4531	5-1/2	8	1
DR40429	29/64		0.4531	7-1/2	10	1
DR40529	29/64		0.4531	9	12	1
DR40729	29/64		0.4531	11	15	1

CODE	FRAC	MM	DEC	FLT	OA	PKG
DR40829	29/64		0.4531	12	18	1
DR40330	15/32		0.4688	5-1/2	8	1
DR40430	15/32		0.4688	7-1/2	10	1
DR40530	15/32		0.4688	9	12	1
DR40730	15/32		0.4688	11	15	1
DR40830	15/32		0.4688	12	18	1
DR40495		12.00	0.4724	7-1/2	10	1
DR40595		12.00	0.4724	9	12	1
DR40331	31/64		0.4844	5-1/2	8	1
DR40431	31/64		0.4844	7-1/2	10	1
DR40531	31/64		0.4844	9	12	1
DR40831	31/64		0.4844	12	18	1
DR40332	1/2		0.5000	5-1/2	8	1
DR40432	1/2		0.5000	7-1/2	10	1
DR40532	1/2		0.5000	9	12	1
DR40632	1/2		0.5000	11	15	1
DR40832	1/2		0.5000	12	18	1
DR40979	1/2		0.5000	18	24	1
DR40994	1/2		0.5000	5-1/2	48	1
DR40596		13.00	0.5118	9	12	1
DR40533	33/64		0.5156	9	12	1
DR40901	33/64*		0.5156	9	12	1
DR40833	33/64		0.5156	12	18	1
DR40940	33/64*		0.5156	12	18	1
DR40434	17/32		0.5312	7-1/2	10	1
DR40534	17/32		0.5312	9	12	1
DR40902	17/32*		0.5312	9	12	1
DR40734	17/32		0.5312	11	15	1
DR40834	17/32		0.5312	12	18	1
DR40941	17/32*		0.5312	12	18	1
DR40583		13.80	0.5433	9	12	1
DR40535	35/64		0.5469	9	12	1
DR40903	35/64*		0.5469	9	12	1
DR40835	35/64		0.5469	12	18	1
DR40942	35/64*		0.5469	12	18	1
DR40597		14.00	0.5512	9	12	1
DR40436	9/16		0.5625	7-1/2	10	1
DR40536	9/16		0.5625	9	12	1



Extra Long Drills - DR40

CODE	FRAC	MM	DEC	FLT	OA	PKG
DR40904	9/16*		0.5625	9	12	1
DR40736	9/16		0.5625	11	15	1
DR40836	9/16		0.5625	12	18	1
DR40943	9/16*		0.5625	12	18	1
DR40980	9/16		0.5625	18	24	1
DR40537	37/64		0.5781	9	12	1
DR40905	37/64*		0.5781	9	12	1
DR40837	37/64		0.5781	12	18	1
DR40944	37/64*		0.5781	12	18	1
DR40584		15.00	0.5906	9	12	1
DR40538	19/32		0.5938	9	12	1
DR40906	19/32*		0.5938	9	12	1
DR40738	19/32		0.5938	11	15	1
DR40838	19/32		0.5938	12	18	1
DR40945	19/32*		0.5938	12	18	1
DR40539	39/64		0.6094	9	12	1
DR40907	39/64*		0.6094	9	12	1
DR40839	39/64		0.6094	12	18	1
DR40946	39/64*		0.6094	12	18	1
DR40540	5/8		0.6250	9	12	1
DR40908	5/8*		0.6250	9	12	1
DR40740	5/8		0.6250	11	15	1
DR40840	5/8		0.6250	12	18	1
DR40947	5/8*		0.6250	12	18	1
DR40981	5/8		0.6250	18	24	1
DR40995	5/8		0.6250	5-1/2	48	1
DR40585		16.00	0.6299	9	12	1
DR40541	41/64		0.6406	9	12	1
DR40909	41/64*		0.6406	9	12	1
DR40841	41/64		0.6406	12	18	1
DR40948	41/64*		0.6406	12	18	1
DR40542	21/32		0.6562	9	12	1
DR40910	21/32*		0.6562	9	12	1
DR40742	21/32		0.6562	11	15	1
DR40842	21/32		0.6562	12	18	1
DR40949	21/32*		0.6562	12	18	1
DR40586		17.00	0.6693	9	12	1
DR40543	43/64		0.6719	9	12	1

CODE	FRAC	MM	DEC	FLT	OA	PKG
DR40911	43/64*		0.6719	9	12	1
DR40843	43/64		0.6719	12	18	1
DR40950	43/64*		0.6719	12	18	1
DR40544	11/16		0.6875	9	12	1
DR40912	11/16*		0.6875	9	12	1
DR40744	11/16		0.6875	11	15	1
DR40844	11/16		0.6875	12	18	1
DR40951	11/16*		0.6875	12	18	1
DR40982	11/16		0.6875	18	24	1
DR40587		17.50	0.6890	9	12	1
DR40545	45/64		0.7031	9	12	1
DR40913	45/64*		0.7031	9	12	1
DR40845	45/64		0.7031	12	18	1
DR40952	45/64*		0.7031	12	18	1
DR40546	23/32		0.7188	9	12	1
DR40914	23/32*		0.7188	9	12	1
DR40746	23/32		0.7188	11	15	1
DR40846	23/32		0.7188	12	18	1
DR40953	23/32		0.7188	12	18	1
DR40547	47/64		0.7344	9	12	1
DR40915	47/64*		0.7344	9	12	1
DR40847	47/64		0.7344	12	18	1
DR40954	47/64*		0.7344	12	18	1
DR40548	3/4		0.7500	9	12	1
DR40916	3/4*		0.7500	9	12	1
DR40748	3/4		0.7500	11	15	1
DR40848	3/4		0.7500	12	18	1
DR40955	3/4*		0.7500	12	18	1
DR40983	3/4		0.7500	18	24	1
DR40996	3/4		0.7500	5-1/2	48	1
DR40549	49/64		0.7656	9	12	1
DR40917	49/64*		0.7656	9	12	1
DR40849	49/64		0.7656	12	18	1
DR40956	49/64*		0.7656	12	18	1
DR40550	25/32		0.7812	9	12	1
DR40918	25/32*		0.7812	9	12	1
DR40750	25/32		0.7812	11	15	1
DR40850	25/32		0.7812	12	18	1

Continued



Extra Long Drills - DR40

CODE	FRAC	MM	DEC	FLT	OA	PKG
DR40957	25/32*		0.7812	12	18	1
DR40984	25/32		0.7812	18	24	1
DR40588		20.00	0.7874	9	12	1
DR40551	51/64		0.7969	9	12	1
DR40919	51/64*		0.7969	9	12	1
DR40851	51/64		0.7969	12	18	1
DR40958	51/64*		0.7969	12	18	1
DR40552	13/16		0.8125	9	12	1
DR40920	13/16*		0.8125	9	12	1
DR40752	13/16		0.8125	11	15	1
DR40852	13/16		0.8125	12	18	1
DR40959	13/16*		0.8125	12	18	1
DR40986	13/16		0.8125	18	24	1
DR40553	53/64		0.8281	9	12	1
DR40921	53/64*		0.8281	9	12	1
DR40853	53/64		0.8281	12	18	1
DR40960	53/64*		0.8281	12	18	1
DR40554	27/32		0.8438	9	12	1
DR40922	27/32*		0.8438	9	12	1
DR40854	27/32		0.8438	12	18	1
DR40961	27/32*		0.8438	12	18	1
DR40987	27/32		0.8438	18	24	1
DR40555	55/64		0.8594	9	12	1
DR40923	55/64*		0.8594	9	12	1
DR40855	55/64		0.8594	12	18	1
DR40962	55/64*		0.8594	12	18	1
DR40556	7/8		0.8750	9	12	1
DR40924	7/8*		0.8750	9	12	1
DR40756	7/8		0.8750	11	15	1
DR40856	7/8		0.8750	12	18	1
DR40963	7/8*		0.8750	12	18	1
DR40988	7/8		0.8750	18	24	1
DR40589		22.50	0.8858	9	12	1
DR40557	57/64		0.8906	9	12	1
DR40925	57/64*		0.8906	9	12	1
DR40857	57/64		0.8906	12	18	1
DR40964	57/64*		0.8906	12	18	1
DR40558	29/32		0.9062	9	12	1

CODE	FRAC	MM	DEC	FLT	OA	PKG
DR40926	29/32*		0.9062	9	12	1
DR40858	29/32		0.9062	12	18	1
DR40965	29/32*		0.9062	12	18	1
DR40559	59/64		0.9219	9	12	1
DR40927	59/64*		0.9219	9	12	1
DR40859	59/64		0.9219	12	18	1
DR40966	59/64*		0.9219	12	18	1
DR40560	15/16		0.9375	9	12	1
DR40928	15/16*		0.9375	9	12	1
DR40760	15/16		0.9375	11	15	1
DR40860	15/16		0.9375	12	18	1
DR40967	15/16*		0.9375	12	18	1
DR40997	15/16		0.9375	18	24	1
DR40561	61/64		0.9531	9	12	1
DR40929	61/64*		0.9531	9	12	1
DR40861	61/64		0.9531	12	18	1
DR40968	61/64*		0.9531	12	18	1
DR40562	31/32		0.9688	9	12	1
DR40930	31/32*		0.9688	9	12	1
DR40862	31/32		0.9688	12	18	1
DR40969	31/32*		0.9688	12	18	1
DR40563	63/64		0.9844	9	12	1
DR40931	63/64*		0.9844	9	12	1
DR40863	63/64		0.9844	12	18	1
DR40970	63/64*		0.9844	12	18	1
DR40564	1		1.0000	9	12	1
DR40932	1*		1.0000	9	12	1
DR40764	1		1.0000	11	15	1
DR40864	1		1.0000	12	18	1
DR40971	1*		1.0000	12	18	1
DR40998	1		1.0000	18	24	1
DR40872	1-1/8		1.1250	12	18	1
DR40999	1-1/8		1.1250	18	24	1
DR40876	1-3/16		1.1875	12	18	1
DR40939	1-3/16		1.1875	18	24	1
DR40880	1-1/4		1.2500	12	18	1
DR40985	1-1/4		1.2500	18	24	1

Aircraft Extension Drills - DR64 • 65



Aircraft Extension Drills - 6" & 12" OAL

- HSS
- Black oxide finish for increased wear resistance and added lubricity
- 135 Deg split point for fast penetration and accurate starting (self-centering) which eliminates "Walking" and reduces the thrust force needed
- Longer Overall Length but Shorter Flute Length for maximum rigidity
- Used where extra reach is required or for drilling holes in hard-to-reach places
- Ideal for a wide range of materials

Forets - Rallonges Pour L'Aeronautique 6" & 12" OAL

- HSS
- Finition oxyde noir pour une résistance accrue à l'usure et un pouvoir lubrifiant accru
- Point de partage à 135 degrés pour une pénétration rapide et un démarrage précis (auto-centrage) qui élimine la «marche» et réduit la force de poussée nécessaire
- Longueur totale plus longue mais longueur de flûte plus courte pour une rigidité maximale
- Utilisé là où une portée supplémentaire est requise ou pour percer des trous dans des endroits difficiles d'accès
- Idéal pour une large gamme de matériaux

6" CODE	12" CODE	FRAC	NO	DEC	FLT	PKG
DR64260	DR65260		60	0.0400	11/16	1
DR64259	DR65259		59	0.0410	11/16	1
DR64258	DR65258		58	0.0420	11/16	1
DR64257	DR65257		57	0.0430	3/4	1
DR64256	DR65256		56	0.0465	3/4	1
DR64003	DR65003	3/64		0.0469	3/4	1
DR64255	DR65255		55	0.0520	7/8	1
DR64254	DR65254		54	0.0550	7/8	1
DR64253	DR65253		53	0.0595	7/8	1
DR64004	DR65004	1/16		0.0625	7/8	1
DR64252	DR65252		52	0.0635	7/8	1
DR64251	DR65251		51	0.0670	1	1
DR64250	DR65250		50	0.0700	1	1
DR64249	DR65249		49	0.0730	1	1
DR64248	DR65248		48	0.0760	1	1
DR64005	DR65005	5/64		0.0781	1	1
DR64247	DR65247		47	0.0785	1	1
DR64246	DR65246		46	0.0810	1-1/8	1
DR64245	DR65245		45	0.0820	1-1/8	1
DR64244	DR65244		44	0.0860	1-1/8	1
DR64243	DR65243		43	0.0890	1-1/4	1
DR64242	DR65242		42	0.0935	1-1/4	1
DR64006	DR65006	3/32		0.0938	1-1/4	1
DR64241	DR65241		41	0.0960	1-3/8	1
DR64240	DR65240		40	0.0980	1-3/8	1
DR64239	DR65239		39	0.0995	1-3/8	1

6" CODE	12" CODE	FRAC	NO	DEC	FLT	PKG
DR64238	DR65238		38	0.1015	1-7/16	1
DR64237	DR65237		37	0.1040	1-7/16	1
DR64236	DR65236		36	0.1065	1-7/16	1
DR64007	DR65007	7/64		0.1094	1-1/2	1
DR64235	DR65235		35	0.1100	1-1/2	1
DR64234	DR65234		34	0.1110	1-1/2	1
DR64233	DR65233		33	0.1130	1-1/2	1
DR64232	DR65232		32	0.1160	1-5/8	1
DR64231	DR65231		31	0.1200	1-5/8	1
DR64008	DR65008	1/8		0.1250	1-5/8	1
DR64230	DR65230		30	0.1285	1-5/8	1
DR64229	DR65229		29	0.1360	1-3/4	1
DR64228	DR65228		28	0.1405	1-3/4	1
DR64009	DR65009	9/64		0.1406	1-3/4	1
DR64227	DR65227		27	0.1440	1-7/8	1
DR64226	DR65226		26	0.1470	1-7/8	1
DR64225	DR65225		25	0.1495	1-7/8	1
DR64224	DR65224		24	0.1520	2	1
DR64223	DR65223		23	0.1540	2	1
DR64010	DR65010	5/32		0.1563	2	1
DR64222	DR65222		22	0.1570	2	1
DR64221	DR65221		21	0.1590	2-1/8	1
DR64220	DR65220		20	0.1610	2-1/8	1
DR64219	DR65219		19	0.1660	2-1/8	1
DR64218	DR65218		18	0.1695	2-1/8	1
DR64011	DR65011	11/64		0.1719	2-1/8	1

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6" CODE	12" CODE	FRAC	NO	DEC	FLT	PKG
DR64217	DR65217		17	0.1730	2-3/16	1
DR64216	DR65216		16	0.1770	2-3/16	1
DR64215	DR65215		15	0.1800	2-3/16	1
DR64214	DR65214		14	0.1820	2-3/16	1
DR64213	DR65213		13	0.1850	2-5/16	1
DR64012	DR65012	3/16		0.1875	2-5/16	1
DR64212	DR65212		12	0.1890	2-5/16	1
DR64211	DR65211		11	0.1910	2-5/16	1
DR64210	DR65210		10	0.1935	2-7/16	1
DR64209	DR65209		9	0.1960	2-7/16	1
DR64208	DR65208		8	0.1990	2-7/16	1
DR64207	DR65207		7	0.2010	2-7/16	1
DR64013	DR65013	13/64		0.2031	2-7/16	1
DR64206	DR65206		6	0.2040	2-1/2	1
DR64205	DR65205		5	0.2055	2-1/2	1
DR64204	DR65204		4	0.2090	2-1/2	1
DR64203	DR65203		3	0.2130	2-1/2	1
DR64014	DR65014	7/32		0.2188	2-1/2	1
DR64202	DR65202		2	0.2210	2-5/8	1
DR64201	DR65201		1	0.2280	2-5/8	1
DR64101	DR65101		A	0.2340	2-5/8	1
DR64015	DR65015	15/64		0.2344	2-5/8	1
DR64102	DR65102		B	0.2380	2-3/4	1
DR64103	DR65103		C	0.2420	2-3/4	1
DR64104	DR65104		D	0.2460	2-3/4	1
DR64016	DR65016	1/4	E	0.2500	2-3/4	1
DR64106	DR65106		F	0.2570	2-7/8	1
DR64107	DR65107		G	0.2610	2-7/8	1
DR64017	DR65017	17/64		0.2656	2-7/8	1
DR64108	DR65108		H	0.2660	2-7/8	1
DR64109	DR65109		I	0.2720	2-7/8	1
DR64110	DR65110		J	0.2770	2-7/8	1

6" CODE	12" CODE	FRAC	NO	DEC	FLT	PKG
DR64111	DR65111		K	0.2810	2-15/16	1
DR64018	DR65018	9/32		0.2813	2-15/16	1
DR64112	DR65112		L	0.2900	2-15/16	1
DR64113	DR65113		M	0.2950	3-1/16	1
DR64019	DR65019	19/64		0.2969	3-1/16	1
DR64114	DR65114		N	0.3020	3-1/16	1
DR64020	DR65020	5/16		0.3125	3-3/16	1
DR64115	DR65115		O	0.3160	3-3/16	1
DR64116	DR65116		P	0.3230	3-5/16	1
DR64021	DR65021	21/64		0.3281	3-5/16	1
DR64117	DR65117		Q	0.3320	3-7/16	1
DR64118	DR65118		R	0.3390	3-7-16	1
DR64022	DR65022	11/32		0.3438	3-7/16	1
DR64119	DR65119		S	0.3480	3-1/2	1
DR64120	DR65120		T	0.3580	3-1/2	1
DR64023	DR65023	23/64		0.3594	3-1/2	1
DR64121	DR65121		U	0.3680	3-5/8	1
DR64024	DR65024	3/8		0.3750	3-5/8	1
DR64122	DR65122		V	0.3770	3-5/8	1
DR64123	DR65123		W	0.3860	3-3/4	1
DR64025	DR65025	25/64		0.3906	3-3/4	1
DR64124	DR65124		X	0.3970	3-3/4	1
DR64125	DR65125		Y	0.4040	3-7/8	1
DR64026	DR65026	13/32		0.4063	3-7/8	1
DR64126	DR65126		Z	0.4130	3-7/8	1
DR64027	DR65027	27/64		0.4219	3-15/16	1
DR64028	DR65028	7/16		0.4375	4-1/16	1
DR64029	DR65029	29/64		0.4531	4-3/16	1
DR64030	DR65030	15/32		0.4688	4-5/16	1
DR64031	DR65031	31/64		0.4844	4-3/8	1
DR64032	DR65032	1/2		0.5000	4-1/2	1

Aircraft Extension Drills - DR645



Aircraft Extension Drills - 6" OAL - Cobalt

- Cobalt drills offer increased hardness, toughness and better wear resistance compared to regular HSS
- Gold Oxide surface finish provides a polished finish and prevents chip building, galling and welding on a workpiece
- 135 Deg split point for fast penetration and accurate starting (self-centering) which eliminates "Walking" and reduces the thrust force needed
- Longer Overall Length but Shorter Flute Length for maximum rigidity
- Used where extra reach is required or for drilling holes in hard-to-reach places
- Ideal for low carbon, stainless steel and other ferrous metals.

Forets - Rallonges Pour L'Aeronautique 6" OAL - Cobalt

- Les forets au cobalt offrent une dureté, une ténacité et une meilleure résistance à l'usure accrues par rapport au HSS ordinaire
- La finition de surface en oxyde d'or offre une finition polie et empêche la formation de copeaux, le grippage et le soudage sur une pièce
- Point de partage à 135 degrés pour une pénétration rapide et un démarrage précis (auto-centrage) qui élimine la « marche » et réduit la force de poussée nécessaire
- Longueur totale plus longue mais longueur de flûte plus courte pour une rigidité maximale
- Utilisé là où une portée supplémentaire est requise ou pour percer des trous dans des endroits difficiles d'accès
- Idéal pour faible teneur en carbone, acier inoxydable et autres métaux ferreux.

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR64760		60	0.0400	11/16	6	1
DR64759		59	0.0410	11/16	6	1
DR64758		58	0.0420	11/16	6	1
DR64757		57	0.0430	3/4	6	1
DR64756		56	0.0465	3/4	6	1
DR64503	3/64		0.0469	3/4	6	1
DR64755		55	0.0520	7/8	6	1
DR64754		54	0.0550	7/8	6	1
DR64753		53	0.0595	7/8	6	1
DR64504	1/16		0.0625	7/8	6	1
DR64752		52	0.0635	7/8	6	1
DR64751		51	0.0670	1	6	1
DR64750		50	0.0700	1	6	1
DR64749		49	0.0730	1	6	1
DR64748		48	0.0760	1	6	1
DR64505	5/64		0.0781	1	6	1
DR64747		47	0.0785	1	6	1
DR64746		46	0.0810	1-1/8	6	1
DR64745		45	0.0820	1-1/8	6	1
DR64744		44	0.0860	1-1/8	6	1
DR64743		43	0.0890	1-1/4	6	1
DR64742		42	0.0935	1-1/4	6	1
DR64506	3/32		0.0938	1-1/4	6	1
DR64741		41	0.0960	1-3/8	6	1
DR64740		40	0.0980	1-3/8	6	1
DR64739		39	0.0995	1-3/8	6	1
DR64738		38	0.1015	1-7/16	6	1
DR64737		37	0.1040	1-7/16	6	1

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR64736		36	0.1065	1-7/16	6	1
DR64507	7/64		0.1094	1-1/2	6	1
DR64735		35	0.1100	1-1/2	6	1
DR64734		34	0.1110	1-1/2	6	1
DR64733		33	0.1130	1-1/2	6	1
DR64732		32	0.1160	1-5/8	6	1
DR64731		31	0.1200	1-5/8	6	1
DR64508	1/8		0.1250	1-5/8	6	1
DR64730		30	0.1285	1-5/8	6	1
DR64729		29	0.1360	1-3/4	6	1
DR64728		28	0.1405	1-3/4	6	1
DR64509	9/64		0.1406	1-3/4	6	1
DR64727		27	0.1440	1-7/8	6	1
DR64726		26	0.1470	1-7/8	6	1
DR64725		25	0.1495	1-7/8	6	1
DR64724		24	0.1520	2	6	1
DR64723		23	0.1540	2	6	1
DR64510	5/32		0.1563	2	6	1
DR64722		22	0.1570	2	6	1
DR64721		21	0.1590	2-1/8	6	1
DR64720		20	0.1610	2-1/8	6	1
DR64719		19	0.1660	2-1/8	6	1
DR64718		18	0.1695	2-1/8	6	1
DR64511	11/64		0.1719	2-1/8	6	1
DR64717		17	0.1730	2-3/16	6	1
DR64716		16	0.1770	2-3/16	6	1
DR64715		15	0.1800	2-3/16	6	1
DR64714		14	0.1820	2-3/16	6	1

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Aircraft Extension Drills - DR645

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR64713		13	0.1850	2-5/16	6	1
DR64512	3/16		0.1875	2-5/16	6	1
DR64712		12	0.1890	2-5/16	6	1
DR64711		11	0.1910	2-5/16	6	1
DR64710		10	0.1935	2-7/16	6	1
DR64709		9	0.1960	2-7/16	6	1
DR64708		8	0.1990	2-7/16	6	1
DR64707		7	0.2010	2-7/16	6	1
DR64513	13/64		0.2031	2-7/16	6	1
DR64706		6	0.2040	2-1/2	6	1
DR64705		5	0.2055	2-1/2	6	1
DR64704		4	0.2090	2-1/2	6	1
DR64703		3	0.2130	2-1/2	6	1
DR64514	7/32		0.2188	2-1/2	6	1
DR64702		2	0.2210	2-5/8	6	1
DR64701		1	0.2280	2-5/8	6	1
DR64601	A		0.2340	2-5/8	6	1
DR64515	15/64		0.2344	2-5/8	6	1

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR64602		B	0.2380	2-3/4	6	1
DR64603		B	0.2420	2-3/4	6	1
DR64604		D	0.2460	2-3/4	6	1
DR64516	1/4	E	0.2500	2-3/4	6	1
DR64606		F	0.2570	2-7/8	6	1
DR64517	17/64		0.2656	2-7/8	6	1
DR64611		K	0.2810	2-15/16	6	1
DR64518	9/32		0.2813	2-15/16	6	1
DR64519	19/64		0.2969	3-1/16	6	1
DR64520	5/16		0.3125	3-3/16	6	1
DR64618		R	0.3390	3-7/16	6	1
DR64619		S	0.3480	3-1/2	6	1
DR64620		T	0.3580	3-1/2	6	1
DR64523	23/64		0.3594	3-1/2	6	1
DR64621		U	0.3680	3-5/8	6	1
DR64624		X	0.3970	3-3/4	6	1
DR64532	1/2		0.5000	4-1/2	6	1



Shank Adapter Drills - DR66

Threaded Shank Adapter Drills Stub Length

- 1/4-28 Threaded Shank provides a secure fit in the tool holder
- HSS
- Black oxide finish for increased wear resistance and added lubricity
- 135 Deg split point for fast penetration and accurate starting (self-centering) which eliminates "Walking" and reduces the thrust force needed
- Used in portable angle drilling tools drilling low tensile strength materials in confined areas

Forets - Serie Extra Courte - Queue Filetée

- La tige filetée 1/4-28 offre un ajustement sûr dans le porte-outil
- HSS
- Finition oxyde noir pour une résistance accrue à l'usure et un pouvoir lubrifiant accru
- Point de partage à 135 degrés pour une pénétration rapide et un démarrage précis (auto-centrage) qui élimine la «marche» et réduit la force de poussée nécessaire
- Utilisé dans les outils de forage angulaire portables forant des matériaux à faible résistance à la traction dans des zones confinées

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR66260		60	0.0400	5/16	1/2	1
DR66255		55	0.0520	5/16	1/2	1
DR66254		54	0.0550	5/16	1/2	1
DR66253		53	0.0595	5/16	1/2	1
DR66250		50	0.0700	5/16	1/2	1
DR66240		40	0.0980	5/16	1/2	1

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR66238		38	0.1015	5/16	1/2	1
DR66008	1/8		0.1250	5/16	1/2	1
DR66230		30	0.1285	5/16	9/16	1
DR66229		29	0.1360	5/16	9/16	1
DR66228		28	0.1405	5/16	9/16	1
DR66227		27	0.1440	5/16	9/16	1

Continued



Shank Adapter Drills - DR66

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR66010	5/32		0.1563	5/16	9/16	1
DR66221		21	0.1590	5/16	9/16	1
DR66220		20	0.1610	5/16	9/16	1
DR66219		19	0.1660	5/16	9/16	1
DR66216		16	0.1770	5/16	9/16	1
DR66213		13	0.1850	5/16	9/16	1
DR66012	3/16		0.1875	5/16	9/16	1
DR66212		12	0.1890	5/16	9/16	1

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR66211		11	0.1910	5/16	9/16	1
DR66210		10	0.1935	5/16	9/16	1
DR66206		6	0.2040	5/16	9/16	1
DR66203		3	0.2130	5/16	9/16	1
DR66014	7/32		0.2188	5/16	5/8	1
DR66018	9/32		0.2813	5/16	5/8	1
DR66021	21/64		0.3281	5/16	5/8	1
DR66022	11/32		0.3438	5/16	5/8	1



Shank Adapter Drills - DR66

Threaded Shank Adapter Drills Stub Length - Cobalt

- 1/4-28 Threaded Shank provides a secure fit in the tool holder
- M42 (8% Cobalt) - Cobalt drills offer increased hardness, toughness and better wear resistance compared to regular HSS
- Black oxide finish for increased wear resistance and added lubricity
- 135 Deg split point for fast penetration and accurate starting (self-centering) which eliminates "Walking" and reduces the thrust force needed
- Used in portable angle drilling tools for drilling harder, tough high tensile materials in confined areas
- When drilling low tensile strength materials, these drills will have significantly greater tool life vs standard HSS

Forets - Serie Extra Courte - Queue Filetée Cobalt

- La tige filetée 1/4-28 offre un ajustement sûr dans le porte-outil
- M42 (8% de cobalt) - Les forets en cobalt offrent une dureté, une ténacité et une meilleure résistance à l'usure accrues par rapport au HSS ordinaire
- Finition oxyde noir pour une résistance accrue à l'usure et un pouvoir lubrifiant accru
- Point de partage à 135 degrés pour une pénétration rapide et un démarrage précis (auto-centrage) qui élimine la «marche» et réduit la force de poussée nécessaire
- Utilisé dans les outils de forage angulaire portables pour percer des matériaux à haute résistance plus durs et durs dans des zones confinées
- Lors du perçage de matériaux à faible résistance à la traction, ces forets auront une durée de vie de l'outil nettement supérieure à celle du HSS standard

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR66740		40	0.0980	5/16	1/2	1
DR66738		38	0.1015	5/16	1/2	1
DR66508	1/8		0.1250	5/16	1/2	1
DR66730		30	0.1285	5/16	9/16	1
DR66729		29	0.1360	5/16	9/16	1
DR66728		28	0.1405	5/16	9/16	1
DR66727		27	0.1440	5/16	9/16	1
DR66510	5/32		0.1563	5/16	9/16	1
DR66721		21	0.1590	5/16	9/16	1
DR66720		20	0.1610	5/16	9/16	1

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR66719		19	0.1660	5/16	9/16	1
DR66716		16	0.1770	5/16	9/16	1
DR66713		13	0.1850	5/16	9/16	1
DR66512	3/16		0.1875	5/16	9/16	1
DR66712		12	0.1890	5/16	9/16	1
DR66711		11	0.1910	5/16	9/16	1
DR66710		10	0.1935	5/16	9/16	1
DR66706		6	0.2040	5/16	9/16	1
DR66703		3	0.2130	5/16	9/16	1
DR66514	7/32		0.2188	5/16	5/8	1
DR66518	9/32		0.2813	5/16	5/8	1



Shank Adapter Drills - DR67

Threaded Shank Adapter Drills Short Length

- 1/4-28 Threaded Shank provides a secure fit in the tool holder
- HSS
- Black oxide finish for increased wear resistance and added lubricity
- 135 Deg split point for fast penetration and accurate starting (self-centering) which eliminates "Walking" and reduces the thrust force needed
- Used in portable angle drilling tools for drilling low tensile strength materials in confined areas

Forets - Serie Courte - Queue Filetée

- La tige filetée 1/4-28 offre un ajustement sûr dans le porte-outil
- HSS
- Finition oxyde noir pour une résistance accrue à l'usure et un pouvoir lubrifiant accru
- Point de partage à 135 degrés pour une pénétration rapide et un démarrage précis (auto-centrage) qui élimine la «marche» et réduit la force de poussée nécessaire
- Utilisé dans les outils de forage angulaire portables pour percer des matériaux à faible résistance à la traction dans des zones confinées

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR67240		40	0.0980	9/16	1	1
DR67238		38	0.1015	9/16	1	1
DR67008	1/8		0.1250	9/16	1	1
DR67230		30	0.1285	9/16	1-1/4	1
DR67229		29	0.1360	9/16	1-1/4	1
DR67228		28	0.1405	9/16	1-1/4	1
DR67009	9/64		0.1406	9/16	1-1/4	1
DR67227		27	0.1440	9/16	1-1/4	1
DR67010	5/32		0.1563	9/16	1-1/4	1
DR67222		22	0.1570	9/16	1-1/4	1
DR67221		21	0.1590	9/16	1-1/4	1
DR67220		20	0.1610	9/16	1-1/4	1
DR67219		19	0.1660	9/16	1-1/4	1
DR67011	11/64		0.1719	9/16	1-1/4	1
DR67217		17	0.1730	9/16	1-1/4	1
DR67216		16	0.1770	9/16	1-1/4	1

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR67213		13	0.1850	9/16	1-1/4	1
DR67012	3/16		0.1875	9/16	1-1/4	1
DR67212		12	0.1890	9/16	1-1/4	1
DR67211		11	0.1910	9/16	1-1/4	1
DR67210		10	0.1935	9/16	1-1/4	1
DR67209		9	0.1960	9/16	1-1/4	1
DR67208		8	0.1990	9/16	1-1/4	1
DR67206		6	0.2040	9/16	1-1/4	1
DR67205		5	0.2055	9/16	1-1/4	1
DR67014	7/32		0.2188	9/16	1-1/4	1
DR67201		1	0.2280	9/16	1-1/4	1
DR67015	15/64		0.2344	9/16	1-1/4	1
DR67016	1/4		0.2500	9/16	1-1/4	1
DR67018	9/32		0.2813	9/16	1-1/4	1
DR67021	21/64		0.3281	9/16	1-1/4	1
DR67022	11/32		0.3438	9/16	1-1/4	1
DR67024	3/8		0.3750	9/16	1-1/4	1w



Shank Adapter Drills - DR67

Threaded Shank Adapter Drills Short Length - Cobalt

- 1/4-28 Threaded Shank provides a secure fit in the tool holder
- M42 (8% Cobalt) - Cobalt drills offer increased hardness, toughness and better wear resistance compared to regular HSS
- Black oxide finish for increased wear resistance and added lubricity
- 135 Deg split point for fast penetration and accurate starting (self-centering) which eliminates "Walking" and reduces the thrust force needed
- Used in portable angle drilling tools for drilling harder, tough high tensile materials in confined areas
- When drilling low tensile strength materials, these drills will have significantly greater tool life vs standard HSS

Forets - Serie Courte - Queue Filetée Cobalt

- La tige filetée 1/4-28 offre un ajustement sûr dans le porte-outil
- M42 (8% de cobalt) - Les forets en cobalt offrent une dureté, une ténacité et une meilleure résistance à l'usure accrues par rapport au HSS ordinaire
- Finition oxyde noir pour une résistance accrue à l'usure et un pouvoir lubrifiant accru
- Point de partage à 135 degrés pour une pénétration rapide et un démarrage précis (auto-centrage) qui élimine la « marche » et réduit la force de poussée nécessaire
- Utilisé dans les outils de forage angulaire portables pour percer des matériaux à haute résistance plus durs et durs dans des zones confinées
- Lors du perçage de matériaux à faible résistance à la traction, ces forets auront une durée de vie de l'outil nettement supérieure à celle du HSS standard

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR67740		40	0.0980	9/16	1	1
DR67738		38	0.1015	9/16	1	1
DR67508	1/8		0.1250	9/16	1	1
DR67730		30	0.1285	9/16	1-1/4	1
DR67729		29	0.1360	9/16	1-1/4	1
DR67728		28	0.1405	9/16	1-1/4	1
DR67509	9/64		0.1406	9/16	1-1/4	1
DR67727		27	0.1440	9/16	1-1/4	1
DR67510	5/32		0.1563	9/16	1-1/4	1
DR67722		22	0.1570	9/16	1-1/4	1
DR67721		21	0.1590	9/16	1-1/4	1
DR67720		20	0.1610	9/16	1-1/4	1
DR67719		19	0.1660	9/16	1-1/4	1
DR67511	11/64		0.1719	9/16	1-1/4	1
DR67717		17	0.1730	9/16	1-1/4	1
DR67716		16	0.1770	9/16	1-1/4	1

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR67713		13	0.1850	9/16	1-1/4	1
DR67512	3/16		0.1875	9/16	1-1/4	1
DR67712		12	0.1890	9/16	1-1/4	1
DR67711		11	0.1910	9/16	1-1/4	1
DR67710		10	0.1935	9/16	1-1/4	1
DR67709		9	0.1960	9/16	1-1/4	1
DR67708		8	0.1990	9/16	1-1/4	1
DR67706		6	0.2040	9/16	1-1/4	1
DR67705		5	0.2055	9/16	1-1/4	1
DR67514	7/32		0.2188	9/16	1-1/4	1
DR67701		1	0.2280	9/16	1-1/4	1
DR67515	15/64		0.2344	9/16	1-1/4	1
DR67516	1/4		0.2500	9/16	1-1/4	1
DR67518	9/32		0.2813	9/16	1-1/4	1
DR67521	21/64		0.3281	9/16	1-1/4	1
DR67522	11/32		0.3438	9/16	1-1/4	1
DR67524	3/8		0.3750	9/16	1-1/4	1



Shank Adapter Drills - DR68

Threaded Shank Adapter Drills Long Length

- 1/4-28 Threaded Shank provides a secure fit in the tool holder
- HSS
- Black oxide finish for increased wear resistance and added lubricity
- 135 Deg split point for fast penetration and accurate starting (self-centering) which eliminates "Walking" and reduces the thrust force needed
- Used in portable angle drilling tools for drilling low tensile strength materials in confined areas

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR68249		49	0.0730	7/8	2-1/8	1
DR68245		45	0.0820	7/8	2-1/8	1
DR68243		43	0.0890	7/8	2-1/8	1
DR68242		42	0.0935	7/8	2-1/8	1
DR68241		41	0.0960	7/8	2-1/8	1
DR68240		40	0.0980	7/8	2-1/8	1
DR68239		39	0.0995	7/8	2-1/8	1
DR68007	7/64		0.1094	7/8	2-1/8	1
DR68231		31	0.1200	7/8	2-1/8	1
DR68008	1/8		0.1250	7/8	2-1/8	1
DR68230		30	0.1285	1-1/8	2-1/8	1
DR68229		29	0.1360	1-1/8	2-1/8	1
DR68009	9/64		0.1406	1-1/8	2-1/8	1
DR68227		27	0.1440	1-1/8	2-1/8	1
DR68225		25	0.1495	1-1/8	2-1/8	1
DR68223		23	0.1540	1-1/8	2-1/8	1
DR68010	5/32		0.1563	1-1/8	2-1/8	1
DR68221		21	0.1590	1-1/8	2-1/8	1
DR68220		20	0.1610	1-1/8	2-1/8	1
DR68219		19	0.1660	1-1/8	2-1/8	1

Forets - Serie Longue - Queue Filetée

- La tige filetée 1/4-28 offre un ajustement sûr dans le porte-outil
- HSS
- Finition oxyde noir pour une résistance accrue à l'usure et un pouvoir lubrifiant accru
- Point de partage à 135 degrés pour une pénétration rapide et un démarrage précis (auto-centrage) qui élimine la «marche» et réduit la force de poussée nécessaire
- Utilisé dans les outils de forage angulaire portables pour percer des matériaux à faible résistance à la traction dans des zones confinées

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR68218		18	0.1695	1-1/8	2-1/8	1
DR68011	11/64		0.1719	1-1/8	2-1/8	1
DR68216		16	0.1770	1-1/8	2-1/8	1
DR68215		15	0.1800	1-1/8	2-1/8	1
DR68214		14	0.1820	1-1/8	2-1/8	1
DR68213		13	0.1850	1-1/8	2-1/8	1
DR68012	3/16		0.1875	1-1/8	2-1/8	1
DR68212		12	0.1890	1-1/8	2-1/8	1
DR68211		11	0.1910	1-1/8	2-1/8	1
DR68210		10	0.1935	1-1/8	2-1/8	1
DR68208		8	0.1990	1-1/8	2-1/8	1
DR68205		5	0.2055	1-1/8	2-1/8	1
DR68203		3	0.2130	1-1/8	2-1/8	1
DR68014	7/32		0.2188	1-1/8	2-1/8	1
DR68016	1/4		0.2500	1-1/8	2-1/8	1
DR68021	21/64		0.3281	1-1/8	2-1/8	1
DR68022	11/32		0.3438	1-1/8	2-1/8	1
DR68024	3/8		0.3750	1-1/8	2-1/8	1



Shank Adapter Drills - DR68

Threaded Shank Adapter Drills Long Length - Cobalt

- 1/4-28 Threaded Shank provides a secure fit in the tool holder
- M42 (8% Cobalt)
- Black oxide finish for increased wear resistance and added lubricity
- 135 Deg split point for fast penetration and accurate starting (self-centering) which eliminates "Walking" and reduces the thrust force needed
- Used in portable angle drilling tools for drilling harder, tough high tensile materials in confined areas
- When drilling low tensile strength materials, these drills will have significantly greater tool life vs standard HSS

Forets Serie Longue - Queue Filetée Cobalt

- La tige filetée 1/4-28 offre un ajustement sûr dans le porte-outil
- M42 (8% de cobalt)
- Finition oxyde noir pour une résistance accrue à l'usure et un pouvoir lubrifiant accru
- Point de partage à 135 degrés pour une pénétration rapide et un démarrage précis (auto-centrage) qui élimine la «marche» et réduit la force de poussée nécessaire
- Utilisé dans les outils de forage angulaire portables pour percer des matériaux à haute résistance plus durs et durs dans des zones confinées
- Lors du perçage de matériaux à faible résistance à la traction, ces forets auront une durée de vie de l'outil nettement supérieure à celle du HSS standard

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR68740		40	0.0980	7/8	2-1/8	1
DR68739		39	0.0995	7/8	2-1/8	1
DR68507	7/64		0.1094	7/8	2-1/8	1
DR68731		31	0.1200	7/8	2-1/8	1
DR68508	1/8		0.1250	7/8	2-1/8	1
DR68730		30	0.1285	1-1/8	2-1/8	1
DR68729		29	0.1360	1-1/8	2-1/8	1
DR68509	9/64		0.1406	1-1/8	2-1/8	1
DR68727		27	0.1440	1-1/8	2-1/8	1
DR68725		25	0.1495	1-1/8	2-1/8	1
DR68723		23	0.1540	1-1/8	2-1/8	1
DR68510	5/32		0.1563	1-1/8	2-1/8	1
DR68721		21	0.1590	1-1/8	2-1/8	1
DR68720		20	0.1610	1-1/8	2-1/8	1
DR68719		19	0.1660	1-1/8	2-1/8	1
DR68718		18	0.1695	1-1/8	2-1/8	1

CODE	FRAC	NO	DEC	FLT	OA	PKG
DR68511	11/64		0.1719	1-1/8	2-1/8	1
DR68716		16	0.1770	1-1/8	2-1/8	1
DR68715		15	0.1800	1-1/8	2-1/8	1
DR68714		14	0.1820	1-1/8	2-1/8	1
DR68713		13	0.1850	1-1/8	2-1/8	1
DR68512	3/16		0.1875	1-1/8	2-1/8	1
DR68712		12	0.1890	1-1/8	2-1/8	1
DR68711		11	0.1910	1-1/8	2-1/8	1
DR68710		10	0.1935	1-1/8	2-1/8	1
DR68708		8	0.1990	1-1/8	2-1/8	1
DR68705		5	0.2055	1-1/8	2-1/8	1
DR68703		3	0.2130	1-1/8	2-1/8	1
DR68514	7/32		0.2188	1-1/8	2-1/8	1
DR68516	1/4		0.2500	1-1/8	2-1/8	1
DR68521	21/64		0.3281	1-1/8	2-1/8	1
DR68522	11/32		0.3438	1-1/8	2-1/8	1
DR68524	3/8		0.3750	1-1/8	2-1/8	1



Prentice Drills - DR50

Prentice (Silver & Deming) Drills 1/2" Shank

- HSS
- 118 Deg point, 3 Flats on the shank
- Black and Gold surface treatment for maximum lubricity
- 1/2" Standard Reduced Shank to expand the size range capacity of 1/2" drill chucks
- Recommended for drilling a wide range of low to medium strength materials

Forets Queue Reduit A 1/2"

- HSS
- Point de 118 degrés
- Traitement de surface noir et or pour un pouvoir lubrifiant maximal
- Tige réduite standard de 1/2 po pour étendre la capacité de la plage de tailles des mandrins de perçage de 1/2 po
- Recommandé pour percer une large gamme de matériaux de résistance faible à moyenne

CODE	FRAC	MM	DEC	FLT	OA	PKG
DR50530		13.00	0.5118	75	150	1
DR50033	33/64		0.5156	3	6	1
DR50034	17/32		0.5312	3	6	1
DR50535		13.50	0.5315	75	150	1
DR50035	35/64		0.5469	75	150	1
DR50540		14.00	0.5512	3	6	1
DR50036	9/16		0.5625	3	6	1
DR50545		14.50	0.5709	75	150	1
DR50037	37/64		0.5781	3	6	1
DR50550		15.00	0.5906	75	150	1
DR50038	19/32		0.5938	3	6	1
DR50039	39/64		0.6094	3	6	1
DR50555		15.50	0.6102	75	150	1
DR50040	5/8		0.6250	3	6	1
DR50560		16.00	0.6299	75	150	1
DR50041	41/64		0.6406	3	6	1
DR50565		16.50	0.6496	75	150	1
DR50042	21/32		0.6562	3	6	1
DR50570		17.00	0.6693	75	150	1
DR50043	43/64		0.6719	3	6	1
DR50044	11/16		0.6875	3	6	1
DR50575		17.50	0.6890	75	150	1
DR50045	45/64		0.7031	3	6	1
DR50580		18.00	0.7087	75	150	1
DR50046	23/32		0.7188	3	6	1
DR50585		18.50	0.7283	75	150	1
DR50047	47/64		0.7344	3	6	1
DR50590		19.00	0.7480	75	150	1
DR50048	3/4		0.7500	3	6	1
DR50049	49/64		0.7656	3	6	1

CODE	FRAC	MM	DEC	FLT	OA	PKG
DR50595		19.50	0.7677	75	150	1
DR50050	25/32		0.7812	3	6	1
DR50600		20.00	0.7874	75	150	1
DR50051	51/64		0.7969	3	6	1
DR50052	13/16		0.8125	3	6	1
DR50610		21.00	0.8268	75	150	1
DR50053	53/64		0.8281	3	6	1
DR50054	27/32		0.8438	3	6	1
DR50055	55/64		0.8594	3	6	1
DR50620		22.00	0.8661	75	150	1
DR50056	7/8		0.8750	3	6	1
DR50057	57/64		0.8906	3	6	1
DR50630		23.00	0.9055	75	150	1
DR50058	29/32		0.9062	3	6	1
DR50059	59/64		0.9219	3	6	1
DR50060	15/16		0.9375	3	6	1
DR50640		24.00	0.9449	75	150	1
DR50061	61/64		0.9531	3	6	1
DR50062	31/32		0.9688	3	6	1
DR50650		25.00	0.9842	75	150	1
DR50063	63/64		0.9844	3	6	1
DR50100	1		1.0000	3	6	1
DR50101	1-1/64		1.0156	3	6	1
DR50102	1-1/32		1.0312	3	6	1
DR50103	1-3/64		1.0469	3	6	1
DR50104	1-1/16		1.0625	3	6	1
DR50105	1-5/64		1.0781	3	6	1
DR50106	1-3/32		1.0938	3	6	1
DR50107	1-7/64		1.1094	3	6	1
DR50108	1-1/8		1.1250	3	6	1



Prentice Drills - DR50

CODE	FRAC	MM	DEC	FLT	OA	PKG
DR50109	1-9/64		1.1406	3	6	1
DR50110	1-5/32		1.1562	3	6	1
DR50111	1-11/64		1.1719	3	6	1
DR50112	1-3/16		1.1875	3	6	1
DR50113	1-13/64		1.2031	3	6	1
DR50114	1-7/32		1.2188	3	6	1
DR50115	1-15/64		1.2344	3	6	1
DR50116	1-1/4		1.2500	3	6	1
DR50117	1-17/64		1.2656	3	6	1
DR50119	1-19/64		1.2969	3	6	1
DR50120	1-5/16		1.3125	3	6	1
DR50121	1-21/64		1.3281	3	6	1

CODE	FRAC	MM	DEC	FLT	OA	PKG
DR50122	1-11/32		1.3438	3	6	1
DR50123	1-23/64		1.3594	3	6	1
DR50124	1-3/8		1.3750	3	6	1
DR50125	1-25/64		1.3905	3	6	1
DR50126	1-13/32		1.4062	3	6	1
DR50127	1-27/64		1.4219	3	6	1
DR50128	1-7/16		1.4375	3	6	1
DR50129	1-29/64		1.4531	3	6	1
DR50130	1-15/32		1.4688	3	6	1
DR50131	1-31/64		1.4844	3	6	1
DR50132	1-1/2		1.5000	3	6	1



Prentice Drills - DR51

Prentice (Silver & Deming) Drills 1/2" Shank - Cobalt

- Cobalt Prentice Drills offer increased hardness, toughness and better wear resistance compared to regular HSS
- Gold Oxide surface finish provides a polished finish and prevents chip building, galling and welding on a workpiece
- 135 Deg split point for fast penetration and accurate starting (self-centering) which eliminates "Walking" and reduces the thrust force needed
- 1/2" Standard Reduced Shank to expand the size range capacity of 1/2" drill chucks
- Ideal for harder steels, heat treated and high temperature alloys, and stainless

CODE	FRAC	DEC	FLT	OA	PKG
DR51033	33/64	0.5156	3	6	1
DR51034	17/32	0.5312	3	6	1
DR51035	35/64	0.5469	3	6	1
DR51036	9/16	0.5625	3	6	1
DR51037	37/64	0.5781	3	6	1
DR51038	19/32	0.5938	3	6	1
DR51039	39/64	0.6094	3	6	1
DR51040	5/8	0.6250	3	6	1

Forets Queue Reduit A 1/2" - Cobalt

- Les forets Cobalt Prentice offrent une dureté et une ténacité accrues et une meilleure résistance à l'usure par rapport au HSS ordinaire
- La finition de surface en oxyde d'or offre une finition polie et empêche la formation de copeaux, le grippage et le soudage sur une pièce
- Point de partage à 135 degrés pour une pénétration rapide et un démarrage précis (auto-centrage) qui élimine la «marche» et réduit la force de poussée nécessaire
- Tige réduite standard de 1/2 po pour étendre la capacité de la plage de tailles des mandrins de perçage de 1/2 po
- Idéal pour les aciers plus durs, les alliages traités thermiquement et à haute température, et l'acier inoxydable

CODE	FRAC	DEC	FLT	OA	PKG
DR51041	41/64	0.6406	3	6	1
DR51042	21/32	0.6562	3	6	1
DR51043	43/64	0.6719	3	6	1
DR51044	11/16	0.6875	3	6	1
DR51045	45/64	0.7031	3	6	1
DR51046	23/32	0.7188	3	6	1
DR51047	47/64	0.7344	3	6	1
DR51048	3/4	0.7500	3	6	1

Continued



Prentice Drills - DR51

CODE	FRAC	DEC	FLT	OA	PKG
DR51049	49/64	0.7656	3	6	1
DR51050	25/32	0.7812	3	6	1
DR51051	51/64	0.7969	3	6	1
DR51052	13/16	0.8125	3	6	1
DR51053	53/64	0.8281	3	6	1
DR51054	27/32	0.8438	3	6	1
DR51055	55/64	0.8594	3	6	1
DR51056	7/8	0.8750	3	6	1
DR51057	57/64	0.8906	3	6	1
DR51058	29/32	0.9063	3	6	1
DR51059	59/64	0.9219	3	6	1
DR51060	15/16	0.9375	3	6	1
DR51061	61/64	0.9531	3	6	1
DR51062	31/32	0.9688	3	6	1

CODE	FRAC	DEC	FLT	OA	PKG
DR51063	63/64	0.9844	3	6	1
DR51100	1	1.0000	3	6	1
DR51102	1-1/32	1.0313	3	6	1
DR51104	1-1/16	1.0625	3	6	1
DR51106	1-3/32	1.0938	3	6	1
DR51108	1-1/8	1.1250	3	6	1
DR51109	1-9/64	1.1406	3	6	1
DR51110	1-5/32	1.1563	3	6	1
DR51112	1-3/16	1.1875	3	6	1
DR51114	1-7/32	1.2188	3	6	1
DR51116	1-1/4	1.2500	3	6	1
DR51120	1-5/16	1.3125	3	6	1
DR51124	1-3/8	1.3750	3	6	1
DR51128	1-7/16	1.4375	3	6	1
DR51132	1-1/2	1.5000	3	6	1



Prentice Drills - DR07

Prentice Drills - 1/4" Shank

- HSS
- 118 Deg point
- Bright finish
- 1/4" reduced shank drill is designed for use in portable air or electric drilling equipment with 1/4" chuck
- For use in a wide range of normal ferrous and non-ferrous materials

Forets Queue Reduit A 1/4"

- HSS
- Point de 118 degrés
- Finition brillante
- Le foret à tige réduite de 1/4 po est conçu pour être utilisé dans un équipement de forage portatif à air ou électrique avec mandrin de 1/4 po
- Pour une utilisation dans une large gamme de matériaux ferreux et non ferreux normaux

CODE	FRAC	DEC	FLT	OA	PKG
DR07017	17/64	0.2656	2-3/4	4	1
DR07018	9/32	0.2812	2-15/16	4-1/4	1
DR07019	19/64	0.2969	3-1/16	4-3/8	1
DR07020	5/16	0.3125	3-3/16	4-1/2	1
DR07021	21/64	0.3281	3-5/16	4-5/8	1
DR07022	11/32	0.3438	3-7/16	4-3/4	1
DR07023	23/64	0.3594	3-1/2	4-7/8	1
DR07024	3/8	0.3750	3-5/8	5	1

CODE	FRAC	DEC	FLT	OA	PKG
DR07025	25/64	0.3906	3-3/4	5-1/8	1
DR07026	13/32	0.4062	3-7/8	5-1/4	1
DR07027	27/64	0.4219	3-15/16	5-3/8	1
DR07028	7/16	0.4375	4-1/16	5-1/2	1
DR07029	29/64	0.4531	4-3/16	5-5/8	1
DR07030	15/32	0.4688	4-5/16	5-3/4	1
DR07031	31/64	0.4844	4-3/8	5-7/8	1
DR07032	1/2	0.5000	4-1/2	6	1



Prentice Drills - DR074

Prentice Drills - 3/8" Shank

- HSS
- 118 Deg Point
- Black oxide finish for increased wear resistance and added lubricity
- 3/8" reduced shank drill is designed for use in portable air or electric drilling equipment with 3/8" chuck
- For use in a wide range of normal ferrous and non-ferrous materials

CODE	FRAC	DEC	FLT	OA	PKG
DR07425	25/64	0.3906	3-3/4	5-1/8	1
DR07426	13/32	0.4062	3-7/8	5-1/4	1
DR07427	27/64	0.4219	3-15/16	5-3/8	1
DR07428	7/16	0.4375	4-1/16	5-1/2	1
DR07429	29/64	0.4531	4-3/16	5-5/8	1
DR07430	15/32	0.4688	4-5/16	5-3/4	1
DR07431	31/64	0.4844	4-3/8	5-7/8	1
DR07432	1/2	0.5000	4-1/2	6	1
DR07433	33/64	0.5156	4-13/16	6	1
DR07434	17/32	0.5313	4-13/16	6	1
DR07435	35/64	0.5469	4-13/16	6	1
DR07436	9/16	0.5625	4-13/16	6	1

Forets Queue Reduit A 3/8"

- HSS
- 118 degrés
- Finition oxyde noir pour une résistance accrue à l'usure et un pouvoir lubrifiant accru
- Le foret à tige réduite de 3/8 po est conçue pour être utilisée dans un équipement de forage portatif à air ou électrique avec mandrin de 3/8 po
- Pour une utilisation dans une large gamme de matériaux ferreux et non ferreux normaux

CODE	FRAC	DEC	FLT	OA	PKG
DR07437	37/64	0.5781	4-13/16	6	1
DR07438	19/32	0.5938	5-3/16	6	1
DR07439	39/64	0.6094	5-3/16	6	1
DR07440	5/8	0.6250	5-3/16	6	1
DR07441	41/64	0.6406	5-3/16	6	1
DR07442	21/32	0.6563	5-3/16	6	1
DR07443	43/64	0.6719	5-5/8	6	1
DR07444	11/16	0.6875	5-5/8	6	1
DR07446	23/32	0.7188	5-5/8	6	1
DR07448	3/4	0.7500	5-5/8	6	1



Taper Shank Drills - DR30

Morse Taper Shank Drills - Fractional

- HSS
- 118 Deg Point
- Black oxide finish for increased wear resistance and added lubricity
- Made to fit American Standard (Morse) taper shank holders
- Recommended for general purpose use in a wide range of materials

CODE	FRAC	MTS	DEC	FLT	OA	PKG
DR30004	1/16	1	0.0625	1-1/4	4-5/8	1
DR30005	5/64	1	0.0781	1-3/8	4-3/4	1
DR30008	1/8	1	0.1250	1-7/8	5-1/8	1
DR30009	9/64	1	0.1406	2-1/8	5-3/8	1

Forets A Queue Conique - Fractionnelles

- HSS
- 118 degrés
- Finition oxyde noir pour une résistance accrue à l'usure et un pouvoir lubrifiant accru
- Conçu pour s'adapter aux porte-queues coniques American Standard (Morse)
- Recommandé pour une utilisation générale dans une large gamme de matériaux

CODE	FRAC	MTS	DEC	FLT	OA	PKG
DR30010	5/32	1	0.1562	2-1/8	5-3/8	1
DR30011	11/64	1	0.1719	2-1/2	5-3/4	1
DR30012	3/16	1	0.1875	2-1/2	5-3/4	1
DR30013	13/64	1	0.2031	2-3/4	6	1

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Taper Shank Drills - DR30

CODE	FRAC	MTS	DEC	FLT	OA	PKG
DR30014	7/32	1	0.2188	2-3/4	6	1
DR30015	15/64	1	0.2344	2-7/8	6-1/8	1
DR30016	1/4	1	0.2500	2-7/8	6-1/8	1
DR30017	17/64	1	0.2656	3	6-1/4	1
DR30018	9/32	1	0.2812	3	6-1/4	1
DR30019	19/64	1	0.2969	3-1/8	6-3/8	1
DR30020	5/16	1	0.3125	3-1/8	6-3/8	1
DR30021	21/64	1	0.3281	3-1/4	6-1/2	1
DR30022	11/32	1	0.3438	3-1/4	6-1/2	1
DR30023	23/64	1	0.3594	3-1/2	6-3/4	1
DR30024	3/8	1	0.3750	3-1/2	6-3/4	1
DR30025	25/64	1	0.3906	3-5/8	7	1
DR30026	13/32	1	0.4062	3-5/8	7	1
DR30027	27/64	1	0.4219	3-7/8	7-1/4	1
DR30028	7/16	1	0.4375	3-7/8	7-1/4	1
DR30029	29/64	1	0.4531	4-1/8	7-1/2	1
DR30030	15/32	1	0.4688	4-1/8	7-1/2	1
DR30031	31/64	2	0.4844	4-3/8	8-1/4	1
DR30032	1/2	2	0.5000	4-3/8	8-1/4	1
DR30033	33/64	2	0.5156	4-5/8	8-1/2	1
DR30034	17/32	2	0.5312	4-5/8	8-1/2	1
DR30035	35/64	2	0.5469	4-7/8	8-3/4	1
DR30036	9/16	2	0.5625	4-7/8	8-3/4	1
DR30037	37/64	2	0.5781	4-7/8	8-3/4	1
DR30038	19/32	2	0.5938	4-7/8	8-3/4	1
DR30039	39/64	2	0.6094	4-7/8	8-3/4	1
DR30040	5/8	2	0.6250	4-7/8	8-3/4	1
DR30041	41/64	2	0.6406	5-1/8	9	1
DR30042	21/32	2	0.6562	5-1/8	9	1
DR30043	43/64	2	0.6719	5-3/8	9-1/4	1
DR30044	11/16	2	0.6875	5-3/8	9-1/4	1
DR30045	45/64	2	0.7031	5-5/8	9-1/2	1
DR30046	23/32	2	0.7188	5-5/8	9-1/2	1
DR30047	47/64	2	0.7344	5-7/8	9-3/4	1
DR30048	3/4	2	0.7500	5-7/8	9-3/4	1
DR30049	49/64	2	0.7656	6	9-7/8	1
DR30050	25/32	2	0.7812	6	9-7/8	1
DR30051	51/64	3	0.7969	6-1/8	10-3/4	1

CODE	FRAC	MTS	DEC	FLT	OA	PKG
DR30052	13/16	3	0.8125	6-1/8	10-3/4	1
DR30053	53/64	3	0.8281	6-1/8	10-3/4	1
DR30054	27/32	3	0.8438	6-1/8	10-3/4	1
DR30055	55/64	3	0.8594	6-1/8	10-3/4	1
DR30056	7/8	3	0.8750	6-1/8	10-3/4	1
DR30057	57/64	3	0.8906	6-1/8	10-3/4	1
DR30058	29/32	3	0.9062	6-1/8	10-3/4	1
DR30059	59/64	3	0.9219	6-1/8	10-3/4	1
DR30060	15/16	3	0.9375	6-1/8	10-3/4	1
DR30061	61/64	3	0.9531	6-3/8	11	1
DR30062	31/32	3	0.9688	6-3/8	11	1
DR30063	63/64	3	0.9844	6-3/8	11	1
DR30100	1	3	1.0000	6-3/8	11	1
DR30101	1-1/64	3	1.0156	6-1/2	11-1/8	1
DR30102	1-1/32	3	1.0312	6-1/2	11-1/8	1
DR30103	1-3/64	3	1.0469	6-5/8	11-1/4	1
DR30104	1-1/16	3	1.0625	6-5/8	11-1/4	1
DR30105	1-5/64	4	1.0781	6-7/8	12-1/2	1
DR30106	1-3/32	4	1.0938	6-7/8	12-1/2	1
DR30107	1-7/64	4	1.1094	7-1/8	12-3/4	1
DR30108	1-1/8	4	1.1250	7-1/8	12-3/4	1
DR30109	1-9/64	4	1.1406	7-1/4	12-7/8	1
DR30110	1-5/32	4	1.1562	7-1/4	12-7/8	1
DR30111	1-11/64	4	1.1719	7-3/8	13	1
DR30112	1-3/16	4	1.1875	7-3/8	13	1
DR30113	1-13/64	4	1.2031	7-1/2	13-1/8	1
DR30114	1-7/32	4	1.2188	7-1/2	13-1/8	1
DR30115	1-15/64	4	1.2344	7-7/8	13-1/2	1
DR30116	1-1/4	4	1.2500	7-7/8	13-1/2	1
DR30117	1-17/64	4	1.2656	8-1/2	14-1/8	1
DR30118	1-9/32	4	1.2812	8-1/2	14-1/8	1
DR30119	1-19/64	4	1.2969	8-5/8	14-1/4	1
DR30120	1-5/16	4	1.3125	8-5/8	14-1/4	1
DR30121	1-21/64	4	1.3281	8-3/4	14-3/8	1
DR30122	1-11/32	4	1.3438	8-3/4	14-3/8	1
DR30123	1-23/64	4	1.3594	8-7/8	14-1/2	1
DR30124	1-3/8	4	1.3750	8-7/8	14-1/2	1
DR30125	1-25/64	4	1.3906	9	14-5/8	1



Taper Shank Drills - DR30

CODE	FRAC	MTS	DEC	FLT	OA	PKG
DR30126	1-13/32	4	1.4062	9	14-5/8	1
DR30127	1-27/64	4	1.4219	9-1/8	14-1/4	1
DR30128	1-7/16	4	1.4375	9-1/8	14-1/4	1
DR30129	1-29/64	4	1.4531	9-1/4	14-7/8	1
DR30130	1-15/32	4	1.4688	9-1/4	14-7/8	1
DR30131	1-31/64	4	1.4844	9-3/8	15	1
DR30132	1-1/2	4	1.5000	9-3/8	15	1
DR30133	1-33/64	5	1.5156	9-3/8	16-3/8	1
DR30134	1-17/32	5	1.5312	9-3/8	16-3/8	1
DR30135	1-35/64	5	1.5469	9-5/8	16-5/8	1
DR30136	1-9/16	5	1.5625	9-5/8	16-5/8	1
DR30137	1-37/64	5	1.5781	9-7/8	16-7/8	1
DR30138	1-19/32	5	1.5938	9-7/8	16-7/8	1
DR30139	1-39/64	5	1.6094	10	17	1
DR30140	1-5/8	5	1.6250	10	17	1
DR30141	1-41/64	5	1.6406	10-1/8	17-1/8	1
DR30142	1-21/32	5	1.6562	10-1/8	17-1/8	1
DR30143	1-43/64	5	1.6719	10-1/8	17-1/8	1
DR30144	1-11/16	5	1.6875	10-1/8	17-1/8	1
DR30145	1-45/64	5	1.7031	10-1/8	17-1/8	1
DR30146	1-23/32	5	1.7188	10-1/8	17-1/8	1
DR30147	1-47/64	5	1.7344	10-1/8	17-1/8	1
DR30148	1-3/4	5	1.7500	10-1/8	17-1/8	1
DR30149	1-49/64	5	1.7656	10-1/8	17-1/8	1
DR30150	1-25/32	5	1.7812	10-1/8	17-1/8	1
DR30151	1-51/64	5	1.7969	10-1/8	17-1/8	1
DR30152	1-13/16	5	1.8125	10-1/8	17-1/8	1
DR30153	1-53/64	5	1.8281	10-1/8	17-1/8	1
DR30154	1-27/32	5	1.8438	10-1/8	17-1/8	1
DR30155	1-55/64	5	1.8594	10-3/8	17-3/8	1
DR30156	1-7/8	5	1.8750	10-3/8	17-3/8	1
DR30157	1-57/64	5	1.8906	10-3/8	17-3/8	1
DR30158	1-29/32	5	1.9062	10-3/8	17-3/8	1
DR30159	1-59/64	5	1.9219	10-3/8	17-3/8	1
DR30160	1-15/16	5	1.9375	10-3/8	17-3/8	1
DR30161	1-61/64	5	1.9531	10-3/8	17-3/8	1
DR30162	1-31/32	5	1.9688	10-3/8	17-3/8	1
DR30163	1-63/64	5	1.9844	10-3/8	17-3/8	1

CODE	FRAC	MTS	DEC	FLT	OA	PKG
DR30200	2	5	2.0000	10-3/8	17-3/8	1
DR30201	2-1/64	5	2.0156	10-3/8	17-3/8	1
DR30202	2-1/32	5	2.0313	10-3/8	17-3/8	1
DR30203	2-3/64	5	2.0469	10-1/4	17-3/8	1
DR30204	2-1/16	5	2.0625	10-1/4	17-3/8	1
DR30206	2-3/32	5	2.0938	10-1/4	17-3/8	1
DR30208	2-1/8	5	2.1250	10-1/4	17-3/8	1
DR30210	2-5/32	5	2.1563	10-1/4	17-3/8	1
DR30212	2-3/16	5	2.1875	10-1/4	17-3/8	1
DR30214	2-7/32	5	2.2188	10-1/8	17-3/8	1
DR30216	2-1/4	5	2.2500	10-1/8	17-3/8	1
DR30218	2-9/32	5	2.2813	10-1/8	17-3/8	1
DR30220	2-5/16	5	2.3125	10-1/8	17-3/8	1
DR30222	2-11/32	5	2.3438	10-1/8	17-3/8	1
DR30224	2-3/8	5	2.3750	10-1/8	17-3/8	1
DR30226	2-13/32	5	2.4063	11-1/4	18-3/4	1
DR30228	2-7/16	5	2.4375	11-1/4	18-3/4	1
DR30230	2-15/32	5	2.4688	11-1/4	18-3/4	1
DR30232	2-1/2	5	2.5000	11-1/4	18-3/4	1
DR30234	2-17/32	5	2.5313	11-7/8	19-1/2	1
DR30236	2-9/16	5	2.5625	11-7/8	19-1/2	1
DR30238	2-19/32	5	2.5938	11-7/8	19-1/2	1
DR30240	2-5/8	5	2.6250	11-7/8	19-1/2	1
DR30242	2-21/32	5	2.6563	12-3/4	20-3/8	1
DR30244	2-11/16	5	2.6875	12-3/4	20-3/8	1
DR30246	2-23/32	5	2.7188	12-3/4	20-3/8	1
DR30248	2-3/4	5	2.7500	12-3/4	20-3/8	1
DR30250	2-25/32	5	2.7813	13-3/8	21-1/8	1
DR30252	2-13/16	5	2.8125	13-3/8	21-1/8	1
DR30254	2-27/32	5	2.8438	13-3/8	21-1/8	1
DR30256	2-7/8	5	2.8750	13-3/8	21-1/8	1
DR30258	2-29/32	5	2.9063	13-3/8	21-1/8	1
DR30260	2-15/16	5	2.9375	14	21-3/4	1
DR30262	2-31/32	5	2.9688	14	21-3/4	1
DR30300	3	5	3.0000	14	21-3/4	1
DR30304	3-1/16	6	3.0625	14-5/8	24-1/2	1
DR30308	3-1/8	6	3.1250	14-5/8	24-1/2	1
DR30312	3-3/16	6	3.1875	14-5/8	24-1/2	1

Continued



Taper Shank Drills - DR30

CODE	FRAC	MTS	DEC	FLT	OA	PKG
DR30316	3-1/4	6	3.2500	15-1/2	25-1/2	1
DR30320	3-5/16	6	3.3125	15-1/2	25-1/2	1
DR30324	3-3/8	6	3.3750	15-1/2	25-1/2	1
DR30328	3-7/16	6	3.4375	15-1/2	25-1/2	1

CODE	FRAC	MTS	DEC	FLT	OA	PKG
DR30332	3-1/2	6	3.5000	16-3/8	26-1/2	1
DR30340	3-5/8	6	3.6250	16-3/8	26-1/2	1
DR30348	3-3/4	6	3.7500	16-3/8	26-1/2	1
DR30356	3-7/8	6	3.8750	16-3/8	26-1/2	1
DR30400	4	6	4.0000	17-1/2	27-1/2	1



Taper Shank Drills - DR35

Morse Taper Shank Drills - Metric

- HSS
- 118 Deg Point
- Black oxide finish for increased wear resistance and added lubricity
- Made to fit American Standard (Morse) taper shank holders
- Recommended for general purpose use in a wide range of materials

Forets A Queue Conique - Metrique

- HSS
- 118 degrés
- Finition oxyde noir pour une résistance accrue à l'usure et un pouvoir lubrifiant accru
- Conçu pour s'adapter aux porte-queues coniques American Standard (Morse)
- Recommandé pour une utilisation générale dans une large gamme de matériaux

CODE	MM	MTS	DEC	FLT	OA	PKG
DR35020	2.00	1	0.0787	24	105	1
DR35025	2.50	1	0.0984	30	111	1
DR35030	3.00	1	0.1181	33	114	1
DR35035	3.50	1	0.1378	39	120	1
DR35040	4.00	1	0.1575	43	123	1
DR35045	4.50	1	0.1772	47	128	1
DR35050	5.00	1	0.1968	53	133	1
DR35054	5.40	1	0.2126	57	138	1
DR35055	5.50	1	0.2165	57	138	1
DR35060	6.00	1	0.2362	57	138	1
DR35065	6.50	1	0.2559	63	144	1
DR35067	6.75	1	0.2657	69	150	1
DR35068	6.80	1	0.2677	69	150	1
DR35069	6.90	1	0.2717	69	150	1
DR35070	7.00	1	0.2756	69	150	1
DR35075	7.50	1	0.2953	69	150	1
DR35078	7.80	1	0.3071	75	156	1
DR35080	8.00	1	0.3150	75	156	1
DR35082	8.25	1	0.3248	75	156	1
DR35085	8.50	1	0.3346	75	156	1

CODE	MM	MTS	DEC	FLT	OA	PKG
DR35087	8.75	1	0.3445	81	162	1
DR35088	8.80	1	0.3465	81	162	1
DR35090	9.00	1	0.3543	81	162	1
DR35092	9.20	1	0.3622	81	162	1
DR35095	9.50	1	0.3740	81	162	1
DR35096	9.60	1	0.3780	87	168	1
DR35100	10.00	1	0.3937	87	168	1
DR35102	10.20	1	0.4016	87	168	1
DR35103	10.25	1	0.4035	87	168	1
DR35105	10.50	1	0.4134	87	168	1
DR35106	10.60	1	0.4173	87	168	1
DR35107	10.75	1	0.4232	94	175	1
DR35108	10.80	1	0.4252	94	175	1
DR35110	11.00	1	0.4331	94	175	1
DR35112	11.25	1	0.4429	94	175	1
DR35115	11.50	1	0.4528	94	175	1
DR35116	11.60	1	0.4567	94	175	1
DR35117	11.75	1	0.4626	94	175	1
DR35120	12.00	1	0.4724	101	182	1
DR35122	12.25	1	0.4823	101	182	1



Taper Shank Drills - DR35

CODE	MM	MTS	DEC	FLT	OA	PKG
DR35125	12.50	1	0.4921	101	182	1
DR35127	12.75	1	0.5020	101	182	1
DR35130	13.00	1	0.5118	101	182	1
DR35132	13.25	1	0.5217	108	189	1
DR35135	13.50	1	0.5315	108	189	1
DR35137	13.75	1	0.5413	108	189	1
DR35140	14.00	1	0.5512	108	189	1
DR35142	14.25	2	0.5610	114	212	1
DR35145	14.50	2	0.5709	114	212	1
DR35147	14.75	2	0.5807	114	212	1
DR35150	15.00	2	0.5906	114	212	1
DR35152	15.25	2	0.6004	120	218	1
DR35155	15.50	2	0.6102	120	218	1
DR35157	15.75	2	0.6201	120	218	1
DR35160	16.00	2	0.6299	120	218	1
DR35162	16.25	2	0.6398	125	223	1
DR35165	16.50	2	0.6496	125	223	1
DR35167	16.75	2	0.6594	125	223	1
DR35170	17.00	2	0.6693	125	223	1
DR35172	17.25	2	0.6791	130	228	1
DR35175	17.50	2	0.6890	130	228	1
DR35177	17.75	2	0.6988	130	228	1
DR35180	18.00	2	0.7087	130	228	1
DR35182	18.25	2	0.7185	135	233	1
DR35185	18.50	2	0.7283	135	233	1
DR35187	18.75	2	0.7382	135	233	1
DR35190	19.00	2	0.7480	135	233	1
DR35192	19.25	2	0.7579	140	238	1
DR35195	19.50	2	0.7677	140	238	1
DR35197	19.75	2	0.7776	140	238	1
DR35200	20.00	2	0.7874	140	238	1
DR35202	20.25	2	0.7972	145	243	1
DR35205	20.50	2	0.8071	145	243	1
DR35207	20.75	2	0.8169	145	243	1
DR35210	21.00	2	0.8268	145	243	1
DR35212	21.25	2	0.8366	150	248	1
DR35215	21.50	2	0.8465	150	248	1
DR35217	21.75	2	0.8563	150	248	1

CODE	MM	MTS	DEC	FLT	OA	PKG
DR35220	22.00	2	0.8661	150	248	1
DR35222	22.25	2	0.8760	150	248	1
DR35225	22.50	2	0.8858	155	253	1
DR35227	22.75	2	0.8957	155	253	1
DR35230	23.00	2	0.9055	155	253	1
DR35232	23.25	3	0.9154	155	276	1
DR35235	23.50	3	0.9252	155	276	1
DR35237	23.75	3	0.9350	160	281	1
DR35240	24.00	3	0.9449	160	281	1
DR35242	24.25	3	0.9547	160	281	1
DR35245	24.50	3	0.9646	160	281	1
DR35247	24.75	3	0.9744	160	281	1
DR35250	25.00	3	0.9842	160	281	1
DR35252	25.25	3	0.9941	165	286	1
DR35255	25.50	3	1.0039	165	286	1
DR35257	25.75	3	1.0138	165	286	1
DR35260	26.00	3	1.0236	165	286	1
DR35265	26.50	3	1.0433	165	286	1
DR35270	27.00	3	1.0630	170	291	1
DR35272	27.25	3	1.0728	170	291	1
DR35275	27.50	3	1.0827	170	291	1
DR35280	28.00	3	1.1024	170	291	1
DR35282	28.25	3	1.1122	175	296	1
DR35285	28.50	3	1.1220	175	296	1
DR35290	29.00	3	1.1417	175	296	1
DR35295	29.50	3	1.1614	175	296	1
DR35297	29.75	3	1.1713	175	296	1
DR35300	30.00	3	1.1811	175	296	1
DR35305	30.50	3	1.2008	180	301	1
DR35310	31.00	3	1.2205	180	301	1
DR35315	31.50	3	1.2402	180	301	1
DR35317	31.75	3	1.2500	185	306	1
DR35320	32.00	4	1.2598	185	334	1
DR35325	32.50	4	1.2795	185	334	1
DR35330	33.00	4	1.2992	185	334	1
DR35335	33.50	4	1.3189	185	334	1
DR35340	34.00	4	1.3386	190	339	1
DR35345	34.50	4	1.3583	190	339	1

Continued



Taper Shank Drills - DR35

CODE	MM	MTS	DEC	FLT	OA	PKG
DR35350	35.00	4	1.3780	190	339	1
DR35355	35.50	4	1.3976	190	339	1
DR35360	36.00	4	1.4173	195	344	1
DR35365	36.50	4	1.4370	195	344	1
DR35370	37.00	4	1.4567	195	344	1
DR35375	37.50	4	1.4764	195	344	1
DR35380	38.00	4	1.4961	200	349	1
DR35385	38.50	4	1.5157	200	349	1
DR35390	39.00	4	1.5354	200	349	1
DR35395	39.50	4	1.5551	200	349	1
DR35400	40.00	4	1.5748	200	349	1
DR35405	40.50	4	1.5945	205	354	1
DR35410	41.00	4	1.6142	205	354	1
DR35415	41.50	4	1.6339	205	354	1
DR35420	42.00	4	1.6535	205	354	1
DR35425	42.50	4	1.6732	205	354	1
DR35430	43.00	4	1.6929	210	359	1
DR35435	43.50	4	1.7126	210	359	1
DR35440	44.00	4	1.7323	210	359	1
DR35445	44.50	4	1.7520	210	359	1
DR35450	45.00	4	1.7716	210	359	1
DR35455	45.50	4	1.7913	215	364	1
DR35460	46.00	4	1.8110	215	364	1
DR35465	46.50	4	1.8307	215	364	1
DR35470	47.00	4	1.8504	215	364	1
DR35475	47.50	4	1.8701	215	364	1
DR35480	48.00	4	1.8898	220	369	1
DR35485	48.50	4	1.9094	220	369	1
DR35490	49.00	4	1.9291	220	369	1
DR35495	49.50	4	1.9488	220	369	1

CODE	MM	MTS	DEC	FLT	OA	PKG
DR35500	50.00	4	1.9685	220	369	1
DR35505	50.50	4	1.9882	225	374	1
DR35510	51.00	5	2.0079	225	412	1
DR35520	52.00	5	2.0472	225	412	1
DR35530	53.00	5	2.0866	225	412	1
DR35540	54.00	5	2.1260	230	417	1
DR35550	55.00	5	2.1654	230	417	1
DR35560	56.00	5	2.2047	230	417	1
DR35570	57.00	5	2.2441	235	422	1
DR35580	58.00	5	2.2835	235	422	1
DR35590	59.00	5	2.3228	235	422	1
DR35600	60.00	5	2.3622	235	422	1
DR35610	61.00	5	2.4016	240	427	1
DR35620	62.00	5	2.4409	240	427	1
DR35630	63.00	5	2.4803	240	427	1
DR35640	64.00	5	2.5197	245	432	1
DR35650	65.00	5	2.5591	245	432	1
DR35660	66.00	5	2.5984	245	432	1
DR35670	67.00	5	2.6378	245	432	1
DR35680	68.00	5	2.6772	250	437	1
DR35690	69.00	5	2.7165	250	437	1
DR35700	70.00	5	2.7559	250	437	1
DR35710	71.00	5	2.7953	250	437	1
DR35720	72.00	5	2.8346	255	442	1
DR35730	73.00	5	2.8740	255	442	1
DR35740	74.00	5	2.9134	255	442	1
DR35750	75.00	5	2.9527	255	442	1
DR35760	76.00	5	2.9921	260	447	1
DR35800	80.00	6	3.1496	260	514	1



Taper Shank Drills - DR36

Morse Taper Shank Drills - Heavy Duty Cobalt

- Cobalt Taper Shank Drills offer increased hardness, toughness and better wear resistance compared to regular HSS
- Gold Oxide surface finish provides a polished finish and prevents chip building, galling and welding on a workpiece
- 135° Notched Point
- Made to fit American Standard (Morse) taper shank holders
- Ideal for tough, high tensile strength steels and stainless steels

Forets A Queue Conique - Robuste - Cobalt

- Les forets A Queue Conique offrent une dureté et une ténacité accrues et une meilleure résistance à l'usure par rapport au HSS ordinaire
- La finition de surface en oxyde d'or offre une finition polie et empêche la formation de copeaux, le grippage et le soudage sur une pièce
- Pointe crantée à 135 °
- Conçu pour s'adapter aux porte-queues coniques American Standard (Morse)
- Idéal pour les aciers durs à haute résistance à la traction et les aciers inoxydables

CODE	FRAC	MTS	DEC	FLT	OA	PKG
DR36016	1/4	1	0.2500	2-7/8	6-1/8	1
DR36017	17/64	1	0.2656	3	6-1/4	1
DR36018	9/32	1	0.2812	3	6-1/4	1
DR36019	19/64	1	0.2969	3-1/8	6-3/8	1
DR36020	5/16	1	0.3125	3-1/8	6-3/8	1
DR36021	21/64	1	0.3281	3-1/4	6-1/2	1
DR36022	11/32	1	0.3438	3-1/4	6-1/2	1
DR36023	23/64	1	0.3594	3-1/2	6-3/4	1
DR36024	3/8	1	0.3750	3-1/2	6-3/4	1
DR36025	25/64	1	0.3906	3-5/8	7	1
DR36026	13/32	1	0.4062	3-5/8	7	1
DR36027	27/64	1	0.4219	3-7/8	7-1/4	1
DR36028	7/16	1	0.4375	3-7/8	7-1/4	1
DR36029	29/64	1	0.4531	4-1/8	7-1/2	1
DR36030	15/32	1	0.4688	4-1/8	7-1/2	1
DR36031	31/64	2	0.4844	4-3/8	8-1/4	1
DR36032	1/2	2	0.5000	4-3/8	8-1/4	1
DR36033	33/64	2	0.5156	4-5/8	8-1/2	1
DR36034	17/32	2	0.5312	4-5/8	8-1/2	1
DR36035	35/64	2	0.5469	4-7/8	8-3/4	1
DR36036	9/16	2	0.5625	4-7/8	8-3/4	1
DR36037	37/64	2	0.5781	4-7/8	8-3/4	1
DR36038	19/32	2	0.5938	4-7/8	8-3/4	1
DR36039	39/64	2	0.6094	4-7/8	8-3/4	1
DR36040	5/8	2	0.6250	4-7/8	8-3/4	1
DR36041	41/64	2	0.6406	5-1/8	9	1
DR36042	21/32	2	0.6562	5-1/8	9-3/4	1
DR36043	43/64	2	0.6719	5-3/8	9-1/4	1

CODE	FRAC	MTS	DEC	FLT	OA	PKG
DR36044	11/16	2	0.6875	5-3/8	10	1
DR36045	45/64	2	0.7031	5-5/8	9-1/2	1
DR36046	23/32	2	0.7188	5-5/8	10-1/4	1
DR36047	47/64	2	0.7344	5-7/8	9-3/4	1
DR36048	3/4	2	0.7500	5-7/8	10-1/2	1
DR36049	49/64	2	0.7656	6	9-7/8	1
DR36050	25/32	2	0.7812	6	10-5/8	1
DR36051	51/64	3	0.7969	6-1/8	10-3/4	1
DR36052	13/16	3	0.8125	6-1/8	10-3/4	1
DR36053	53/64	3	0.8281	6-1/8	10-3/4	1
DR36054	27/32	3	0.8438	6-1/8	10-3/4	1
DR36055	55/64	3	0.8594	6-1/8	10-3/4	1
DR36056	7/8	3	0.8750	6-1/8	10-3/4	1
DR36057	57/64	3	0.8906	6-1/8	10-3/4	1
DR36058	29/32	3	0.9062	6-1/8	10-3/4	1
DR36059	59/64	3	0.9219	6-1/8	10-3/4	1
DR36060	15/16	3	0.9375	6-1/8	10-3/4	1
DR36061	61/64	3	0.9531	6-3/8	11	1
DR36062	31/32	3	0.9688	6-1/8	10-3/4	1
DR36063	63/64	3	0.9844	6-3/8	11	1
DR36100	1	3	1.0000	6-3/8	11	1
DR36101	1-1/64	3	1.0156	6-1/2	11-1/8	1
DR36102	1-1/32	3	1.0312	6-1/2	11-1/8	1
DR36103	1-3/64	3	1.0469	6-5/8	11-1/4	1
DR36104	1-1/16	4	1.0625	6-5/8	12-5/32	1
DR36105	1-5/64	4	1.0781	6-7/8	12-1/2	1
DR36106	1-3/32	4	1.0938	6-7/8	12-1/2	1
DR36107	1-7/64	4	1.1094	7-1/8	12-3/4	1

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Taper Shank Drills - DR36

CODE	FRAC	MTS	DEC	FLT	OA	PKG
DR36108	1-1/8	4	1.1250	7-1/8	12-3/4	1
DR36109	1-9/64	4	1.1406	7-1/4	12-7/8	1
DR36110	1-5/32	4	1.1562	7-1/4	12-7/8	1
DR36111	1-11/64	4	1.1719	7-3/8	13	1
DR36112	1-3/16	4	1.1875	7-3/8	13	1
DR36113	1-13/64	4	1.2031	7-1/2	13-1/8	1
DR36114	1-7/32	4	1.2188	7-1/2	13-1/8	1
DR36115	1-15/64	4	1.2344	7-7/8	13-1/2	1
DR36116	1-1/4	4	1.2500	7-7/8	13-1/2	1
DR36117	1-17/64	4	1.2656	8-1/2	14-1/8	1
DR36118	1-9/32	4	1.2812	8-1/2	14-1/8	1
DR36119	1-19/64	4	1.2969	8-5/8	14-1/4	1
DR36120	1-5/16	4	1.3125	8-5/8	14-1/4	1
DR36121	1-21/64	4	1.3281	8-3/4	14-3/8	1

CODE	FRAC	MTS	DEC	FLT	OA	PKG
DR36122	1-11/32	4	1.3438	8-3/4	14-3/8	1
DR36123	1-23/64	4	1.3594	8-7/8	14-1/2	1
DR36124	1-3/8	4	1.3750	8-7/8	15-7/8	1
DR36125	1-25/64	4	1.3906	9	14-5/8	1
DR36126	1-13/32	4	1.4062	9	14-5/8	1
DR36127	1-27/64	4	1.4219	9-1/8	14-1/4	1
DR36128	1-7/16	4	1.4375	9-1/8	14-1/4	1
DR36129	1-29/64	4	1.4531	9-1/4	14-7/8	1
DR36130	1-15/32	4	1.4688	9-1/4	14-7/8	1
DR36131	1-31/64	4	1.4844	9-3/8	15	1
DR36132	1-1/2	4	1.5000	9-3/8	16-3/8	1
DR36140	1-5/8	5	1.6250	10	17	1
DR36148	1-3/4	5	1.7500	10-1/8	17-1/8	1
DR36152	1-13/16	5	1.8125	10-1/8	17-1/8	1
DR36200	2	5	2.0000	10-3/8	17-3/8	1



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Extra Long Taper Shank Drills - HSS

- HSS
- 118 Deg Point
- Black oxide finish for increased wear resistance and added lubricity
- Made to fit American Standard (Morse) taper shank holders
- Various Overall Lengths / Flute Lengths available for each size
- Recommended for drilling deep holes in a wide range of materials

Forets A Queue Conique - Ultra Longue

- HSS
- 118 degrés
- Finition oxyde noir pour une résistance accrue à l'usure et un pouvoir lubrifiant accru
- Conçu pour s'adapter aux porte-queue coniques American Standard (Morse)
- Différentes longueurs hors tout / longueurs de flûte disponibles pour chaque taille
- Recommandé pour percer des trous profonds dans une large gamme de matériaux

CODE	FRAC	MM	MTS	DEC	FLT	OA	PKG
DR42101	1/8		1	0.1250	5	8	1
DR43008	1/8		1	0.1250	9	12	1
DR42102	9/64		1	0.1406	5	8	1
DR42103	5/32		1	0.1563	5	8	1
DR42010	5/32		1	0.1563	7	10	1
DR43010	5/32		1	0.1563	9	12	1
DR42104	11/64		1	0.1719	5	8	1
DR42011	11/64		1	0.1719	7	10	1

CODE	FRAC	MM	MTS	DEC	FLT	OA	PKG
DR43011	11/64		1	0.1719	9	12	1
DR42105	3/16		1	0.1875	5	8	1
DR43012	3/16		1	0.1875	7	10	1
DR44012	3/16		1	0.1875	9	12	1
DR42106	13/64		1	0.2031	5	8	1
DR42013	13/64		1	0.2031	7	10	1
DR43013	13/64		1	0.2031	9	12	1
DR44013	13/64		1	0.2031	12	15	1

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CODE	FRAC	MM	MTS	DEC	FLT	OA	PKG
DR42107	7/32		1	0.2188	5	8	1
DR42014	7/32		1	0.2188	7	10	1
DR43014	7/32		1	0.2188	9	12	1
DR44014	7/32		1	0.2188	12	15	1
DR42108	15/64		1	0.2344	5	8	1
DR42015	15/64		1	0.2344	7	10	1
DR43015	15/64		1	0.2344	9	12	1
DR44015	15/64		1	0.2344	12	15	1
DR42001	1/4		1	0.2500	5	8	1
DR42016	1/4		1	0.2500	7	10	1
DR43016	1/4		1	0.2500	9	12	1
DR44016	1/4		1	0.2500	12	15	1
DR45016	1/4		1	0.2500	15	18	1
DR42109	17/64		1	0.2656	5	8	1
DR43017	17/64		1	0.2656	9	12	1
DR44017	17/64		1	0.2656	12	15	1
DR45017	17/64		1	0.2656	15	18	1
DR42110	9/32		1	0.2813	5	8	1
DR42018	9/32		1	0.2813	7	10	1
DR43018	9/32		1	0.2813	9	12	1
DR44018	9/32		1	0.2813	12	15	1
DR45018	9/32		1	0.2813	15	18	1
DR42111	19/64		1	0.2969	5	8	1
DR42019	19/64		1	0.2969	7	10	1
DR43019	19/64		1	0.2969	9	12	1
DR44019	19/64		1	0.2969	12	15	1
DR45019	19/64		1	0.2969	15	18	1
DR42002	5/16		1	0.3125	5	8	1
DR43020	5/16		1	0.3125	9	12	1
DR43720	5/16		1	0.3125	10	14	1
DR44020	5/16		1	0.3125	12	15	1
DR45020	5/16		1	0.3125	15	18	1
DR42112	21/64		1	0.3281	5	8	1
DR42021	21/64		1	0.3281	7	10	1
DR43021	21/64		1	0.3281	9	12	1
DR44021	21/64		1	0.3281	12	15	1
DR45021	21/64		1	0.3281	15	18	1
DR42003	11/32		1	0.3438	5	8	1

CODE	FRAC	MM	MTS	DEC	FLT	OA	PKG
DR43022	11/32		1	0.3438	9	12	1
DR44022	11/32		1	0.3438	12	15	1
DR45022	11/32		1	0.3438	15	18	1
DR42113	23/64		1	0.3594	5	8	1
DR42023	23/64		1	0.3594	7	10	1
DR43023	23/64		1	0.3594	9	12	1
DR44023	23/64		1	0.3594	12	15	1
DR45023	23/64		1	0.3594	15	18	1
DR42004	3/8		1	0.3750	5	8	1
DR42024	3/8		1	0.3750	7	10	1
DR43024	3/8		1	0.3750	9	12	1
DR44024	3/8		1	0.3750	12	15	1
DR45024	3/8		1	0.3750	15	18	1
DR45401	3/8		1	0.3750	21	24	1
DR43025	25/64		1	0.3906	9	12	1
DR44025	25/64		1	0.3906	12	15	1
DR45025	25/64		1	0.3906	15	18	1
DR45402	25/64		1	0.3906	21	24	1
DR43026	13/32		1	0.4063	9	12	1
DR44026	13/32		1	0.4063	12	15	1
DR45026	13/32		1	0.4063	15	18	1
DR45403	13/32		1	0.4063	21	24	1
DR43027	27/64		1	0.4219	7	10	1
DR44027	27/64		1	0.4219	9	12	1
DR45027	27/64		1	0.4219	15	18	1
DR45404	27/64		1	0.4219	21	24	1
DR42028	7/16		1	0.4375	7	10	1
DR43028	7/16		1	0.4375	9	12	1
DR43728	7/16		1	0.4375	11	14	1
DR44028	7/16		1	0.4375	12	15	1
DR45028	7/16		1	0.4375	15	18	1
DR45405	7/16		1	0.4375	21	24	1
DR42114	29/64		1	0.4531	5	8	1
DR42029	29/64		1	0.4531	7	10	1
DR43029	29/64		1	0.4531	9	12	1
DR44029	29/64		1	0.4531	12	15	1
DR45029	29/64		1	0.4531	15	18	1
DR45406	29/64		1	0.4531	21	24	1

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CODE	FRAC	MM	MTS	DEC	FLT	OA	PKG
DR42115	15/32		1	0.4688	5	8	1
DR42030	15/32		1	0.4688	7	10	1
DR43030	15/32		1	0.4688	9	12	1
DR43730	15/32		1	0.4688	11	14	1
DR44030	15/32		1	0.4688	12	15	1
DR45030	15/32		1	0.4688	15	18	1
DR45407	15/32		1	0.4688	21	24	1
DR42031	31/64		2	0.4844	7	10	1
DR43031	31/64		2	0.4844	8	12	1
DR43731	31/64		2	0.4844	10	14	1
DR44031	31/64		2	0.4844	11	15	1
DR45031	31/64		2	0.4844	14	18	1
DR45408	31/64		2	0.4844	20	24	1
DR42032	1/2		2	0.5000	6	10	1
DR43032	1/2		2	0.5000	8	12	1
DR43732	1/2		2	0.5000	10	14	1
DR44032	1/2		2	0.5000	11	15	1
DR45032	1/2		2	0.5000	14	18	1
DR45409	1/2		2	0.5000	20	24	1
DR43630		13.00	1	0.5118	205	310	1
DR44630		13.00	1	0.5118	260	395	1
DR42033	33/64		2	0.5156	6	10	1
DR43033	33/64		2	0.5156	8	12	1
DR43733	33/64		2	0.5156	10	14	1
DR44033	33/64		2	0.5156	11	15	1
DR45033	33/64		2	0.5156	14	18	1
DR45233	33/64		2	0.5156	14	20	1
DR45410	33/64		2	0.5156	20	24	1
DR42034	17/32		2	0.5313	6	10	1
DR43034	17/32		2	0.5313	8	12	1
DR43734	17/32		2	0.5313	10	14	1
DR44034	17/32		2	0.5313	11	15	1
DR45034	17/32		2	0.5313	14	18	1
DR45411	17/32		2	0.5313	20	24	1
DR43635		13.50	1	0.5315	220	325	1
DR44635		13.50	1	0.5315	275	410	1
DR42035	35/64		2	0.5469	6	10	1
DR43035	35/64		2	0.5469	8	12	1

CODE	FRAC	MM	MTS	DEC	FLT	OA	PKG
DR43735	35/64		2	0.5469	10	14	1
DR44035	35/64		2	0.5469	11	15	1
DR45035	35/64		2	0.5469	14	18	1
DR45412	35/64		2	0.5469	20	24	1
DR43640		14.00	1	0.5512	220	325	1
DR44640		14.00	1	0.5512	275	410	1
DR42036	9/16		2	0.5625	6	10	1
DR43036	9/16		2	0.5625	8	12	1
DR43736	9/16		2	0.5625	10	14	1
DR44036	9/16		2	0.5625	11	15	1
DR45036	9/16		2	0.5625	14	18	1
DR45236	9/16		2	0.5625	14	20	1
DR45413	9/16		2	0.5625	20	24	1
DR44645		14.50	2	0.5709	220	340	1
DR45645		14.50	2	0.5709	275	425	1
DR42037	37/64		2	0.5781	6	10	1
DR43037	37/64		2	0.5781	8	12	1
DR43737	37/64		2	0.5781	10	14	1
DR44037	37/64		2	0.5781	11	15	1
DR45037	37/64		2	0.5781	14	18	1
DR45414	37/64		2	0.5781	20	24	1
DR44650		15.00	2	0.5906	220	340	1
DR45650		15.00	2	0.5906	275	425	1
DR42038	19/32		2	0.5938	6	10	1
DR43038	19/32		2	0.5938	8	12	1
DR43738	19/32		2	0.5938	10	14	1
DR44038	19/32		2	0.5938	11	15	1
DR45038	19/32		2	0.5938	14	18	1
DR45238	19/32		2	0.5938	14	20	1
DR45415	19/32		2	0.5938	20	24	1
DR42039	39/64		2	0.6094	6	10	1
DR43039	39/64		2	0.6094	8	12	1
DR43739	39/64		2	0.6094	10	14	1
DR44039	39/64		2	0.6094	11	15	1
DR45039	39/64		2	0.6094	14	18	1
DR45416	39/64		2	0.6094	20	24	1
DR42040	5/8		2	0.6102	6	10	1
DR43040	5/8		2	0.6102	8	12	1



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CODE	FRAC	MM	MTS	DEC	FLT	OA	PKG
DR43740	5/8		2	0.6250	10	14	1
DR44040	5/8		2	0.6250	11	15	1
DR45040	5/8		2	0.6250	14	18	1
DR45417	5/8		2	0.6250	20	24	1
DR44660		16.00	2	0.6299	230	355	1
DR45660		16.00	2	0.6299	295	445	1
DR43041	41/64		2	0.6299	8	12	1
DR43741	41/64		2	0.6299	10	14	1
DR44041	41/64		2	0.6406	11	15	1
DR45041	41/64		2	0.6406	14	18	1
DR45418	41/64		2	0.6406	20	24	1
DR44665		16.50	2	0.6496	230	355	1
DR45665		16.50	2	0.6496	295	445	1
DR43042	21/32		2	0.6563	8	12	1
DR43742	21/32		2	0.6563	10	14	1
DR44042	21/32		2	0.6563	11	15	1
DR45042	21/32		2	0.6563	14	18	1
DR45242	21/32		2	0.6563	14	20	1
DR45419	21/32		2	0.6563	20	24	1
DR44670		17.00	2	0.6693	230	355	1
DR45670		17.00	2	0.6693	295	445	1
DR43043	43/64		2	0.6719	8	12	1
DR44043	43/64		2	0.6719	11	15	1
DR45043	43/64		2	0.6719	14	18	1
DR45420	43/64		2	0.6719	20	24	1
DR43044	11/16		2	0.6875	8	12	1
DR43744	11/16		2	0.6875	10	14	1
DR44044	11/16		2	0.6875	11	15	1
DR45044	11/16		2	0.6875	14	18	1
DR45421	11/16		2	0.6875	20	24	1
DR44675		17.50	2	0.6890	245	370	1
DR45675		17.50	2	0.6890	310	465	1
DR43045	45/64		2	0.7031	8	12	1
DR43745	45/64		2	0.7031	10	14	1
DR44045	45/64		2	0.7031	11	15	1
DR45045	45/64		2	0.7031	14	18	1
DR45422	45/64		2	0.7031	20	24	1
DR44680		18.00	2	0.7087	245	370	1

CODE	FRAC	MM	MTS	DEC	FLT	OA	PKG
DR45680		18.00	2	0.7087	310	465	1
DR43046	23/32		2	0.7188	8	12	1
DR43746	23/32		2	0.7188	10	14	1
DR44046	23/32		2	0.7188	11	15	1
DR45046	23/32		2	0.7188	14	18	1
DR45423	23/32		2	0.7188	20	24	1
DR44685		18.50	2	0.7283	245	370	1
DR45685		18.50	2	0.7283	310	465	1
DR43047	47/64		2	0.7344	8	12	1
DR43747	47/64		2	0.7344	10	14	1
DR44047	47/64		2	0.7344	11	15	1
DR45047	47/64		2	0.7344	14	18	1
DR45247	47/64		2	0.7344	14	20	1
DR45424	47/64		2	0.7344	20	24	1
DR44690		19.00	2	0.7480	245	370	1
DR45690		19.00	2	0.7480	310	465	1
DR43048	3/4		2	0.7500	8	12	1
DR43748	3/4		2	0.7500	10	14	1
DR44048	3/4		2	0.7500	11	15	1
DR45048	3/4		2	0.7500	14	18	1
DR45425	3/4		2	0.7500	20	24	1
DR45501	3/4		2	0.7500	26	30	1
DR43049	49/64		2	0.7656	8	12	1
DR43749	49/64		2	0.7656	10	14	1
DR44049	49/64		2	0.7656	11	15	1
DR45049	49/64		2	0.7656	14	18	1
DR45426	49/64		2	0.7656	20	24	1
DR44695		19.50	2	0.7677	260	385	1
DR45695		19.50	2	0.7677	325	490	1
DR43050	25/32		2	0.7813	8	12	1
DR43750	25/32		2	0.7813	10	14	1
DR44050	25/32		2	0.7813	11	15	1
DR45050	25/32		2	0.7813	14	18	1
DR45427	25/32		2	0.7813	20	24	1
DR44700		20.00	2	0.7874	260	385	1
DR45700		20.00	2	0.7874	325	490	1
DR43051	51/64		3	0.7969	7	12	1
DR44051	51/64		3	0.7969	10	15	1

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CODE	FRAC	MM	MTS	DEC	FLT	OA	PKG
DR45051	51/64		3	0.7969	13	18	1
DR45428	51/64		3	0.7969	19	24	1
DR44705		20.50	2	0.8071	260	385	1
DR45705		20.50	2	0.8071	325	490	1
DR43052	13/16		3	0.8125	7	12	1
DR44052	13/16		3	0.8125	10	15	1
DR45052	13/16		3	0.8125	13	18	1
DR45252	13/16		3	0.8125	15	20	1
DR45429	13/16		3	0.8125	19	24	1
DR45502	13/16		3	0.8125	25	30	1
DR44710		21.00	2	0.8268	260	385	1
DR45710		21.00	2	0.8268	325	490	1
DR43053	53/64		3	0.8281	7	12	1
DR44053	53/64		3	0.8281	10	15	1
DR45053	53/64		3	0.8281	13	18	1
DR45430	53/64		3	0.8281	19	24	1
DR43054	27/32		3	0.8438	7	12	1
DR43754	27/32		3	0.8438	9	14	1
DR44054	27/32		3	0.8438	10	15	1
DR45054	27/32		3	0.8438	13	18	1
DR45254	27/32		3	0.8438	15	20	1
DR45431	27/32		3	0.8438	19	24	1
DR44715		21.50	2	0.8465	270	405	1
DR45715		21.50	2	0.8465	345	515	1
DR43055	55/64		3	0.8594	7	12	1
DR44055	55/64		3	0.8594	10	15	1
DR45055	55/64		3	0.8594	13	18	1
DR45432	55/64		3	0.8594	19	24	1
DR44720		22.00	2	0.8661	270	405	1
DR45720		22.00	2	0.8661	345	515	1
DR43056	7/8		3	0.8750	7	12	1
DR43756	7/8		3	0.8750	9	14	1
DR44056	7/8		3	0.8750	10	15	1
DR45056	7/8		3	0.8750	13	18	1
DR45256	7/8		3	0.8750	15	20	1
DR45433	7/8		3	0.8750	19	24	1
DR45504	7/8		3	0.8750	25	30	1
DR44725		22.50	2	0.8858	270	405	1

CODE	FRAC	MM	MTS	DEC	FLT	OA	PKG
DR45725		22.50	2	0.8858	345	515	1
DR43057	57/64		3	0.8906	7	12	1
DR43757	57/64		3	0.8906	9	14	1
DR44057	57/64		3	0.8906	10	15	1
DR45057	57/64		3	0.8906	13	18	1
DR45434	57/64		3	0.8906	19	24	1
DR44730		23.00	2	0.9055	270	405	1
DR45730		23.00	2	0.9055	345	515	1
DR43058	29/32		3	0.9063	7	12	1
DR44058	29/32		3	0.9063	10	15	1
DR45058	29/32		3	0.9063	13	18	1
DR45258	29/32		3	0.9063	15	20	1
DR45435	29/32		3	0.9063	19	24	1
DR43059	59/64		3	0.9219	7	12	1
DR44059	59/64		3	0.9219	10	15	1
DR45059	59/64		3	0.9219	13	18	1
DR45436	59/64		3	0.9219	19	24	1
DR44735		23.50	3	0.9252	270	425	1
DR45735		23.50	3	0.9252	345	535	1
DR43060	15/16		3	0.9375	7	12	1
DR44060	15/16		3	0.9375	10	15	1
DR45060	15/16		3	0.9375	13	18	1
DR45260	15/16		3	0.9375	15	20	1
DR45437	15/16		3	0.9375	19	24	1
DR45503	15/16		3	0.9375	25	30	1
DR44740		24.00	3	0.9449	290	440	1
DR45740		24.00	3	0.9449	365	555	1
DR44061	61/64		3	0.9531	10	15	1
DR45061	61/64		3	0.9531	13	18	1
DR45438	61/64		3	0.9531	19	24	1
DR44745		24.50	3	0.9646	290	440	1
DR45745		24.50	3	0.9646	365	555	1
DR43062	31/32		3	0.9688	7	12	1
DR43762	31/32		3	0.9688	9	14	1
DR44062	31/32		3	0.9688	10	15	1
DR45062	31/32		3	0.9688	13	18	1
DR45262	31/32		3	0.9688	15	20	1
DR45439	31/32		3	0.9688	19	24	1



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CODE	FRAC	MM	MTS	DEC	FLT	OA	PKG
DR44750		25.00	3	0.9842	290	440	1
DR45750		25.00	3	0.9842	365	555	1
DR43763	63/64		3	0.9844	9	14	1
DR44063	63/64		3	0.9844	10	15	1
DR45063	63/64		3	0.9844	13	18	1
DR45440	63/64		3	0.9844	19	24	1
DR43100	1		3	1.0000	7	12	1
DR44100	1		3	1.0000	10	15	1
DR45100	1		3	1.0000	13	18	1
DR45441	1		3	1.0000	19	24	1
DR45505	1		3	1.0000	25	30	1
DR44101	1-1/64		3	1.0156	9	15	1
DR45101	1-1/64		3	1.0156	12	18	1
DR45442	1-1/64		3	1.0156	19	24	1
DR44760		26.00	3	1.0236	290	440	1
DR45760		26.00	3	1.0236	365	555	1
DR44102	1-1/32		3	1.0313	9	15	1
DR45102	1-1/32		3	1.0313	13	18	1
DR45443	1-1/32		3	1.0313	19	24	1
DR44103	1-3/64		3	1.0469	9	15	1
DR45103	1-3/64		3	1.0469	13	18	1
DR45444	1-3/64		3	1.0469	19	24	1
DR44104	1-1/16		3	1.0625	10	15	1
DR45104	1-1/16		3	1.0625	13	18	1
DR45304	1-1/16		3	1.0625	15	20	1
DR45445	1-1/16		3	1.0625	19	24	1
DR45506	1-1/16		3	1.0625	25	30	1
DR44770		27.00	3	1.0630	305	460	1
DR45770		27.00	3	1.0630	385	580	1
DR44105	1.5/64		4	1.0781	9	15	1
DR45105	1-5/64		4	1.0781	12	18	1
DR45446	1-5/64		4	1.0781	18	24	1
DR44106	1-3/32		4	1.0938	9	15	1
DR45106	1-3/32		4	1.0938	12	18	1
DR45306	1-3/32		4	1.0938	14	20	1
DR45447	1-3/32		4	1.0938	18	24	1
DR44780		28.00	3	1.1024	305	460	1
DR45780		28.00	3	1.1024	385	580	1

CODE	FRAC	MM	MTS	DEC	FLT	OA	PKG
DR44107	1-7/64		4	1.1094	9	15	1
DR45107	1-7/64		4	1.1094	12	18	1
DR44108	1-1/8		4	1.1250	9	15	1
DR45108	1-1/8		4	1.1250	12	18	1
DR45308	1-1/8		4	1.1250	14	20	1
DR45448	1-1/8		4	1.1250	18	24	1
DR45507	1-1/8		4	1.1250	24	30	1
DR44109	1-9/64		4	1.1406	9	15	1
DR45109	1-9/64		4	1.1406	12	18	1
DR45449	1-9/64		4	1.1406	18	24	1
DR44790		29.00	3	1.1417	305	460	1
DR45790		29.00	3	1.1417	385	580	1
DR44110	1-5/32		4	1.1563	9	15	1
DR45110	1-5/32		4	1.1563	12	18	1
DR45310	1-5/32		4	1.1563	14	20	1
DR45450	1-5/32		4	1.1563	18	24	1
DR44111	1-11/64		4	1.1719	9	15	1
DR45111	1-11/64		4	1.1719	12	18	1
DR45451	1-11/64		4	1.1719	18	24	1
DR44800		30.00	3	1.1811	305	460	1
DR45800		30.00	3	1.1811	385	580	1
DR44112	1-3/16		4	1.1875	9	15	1
DR45112	1-3/16		4	1.1875	12	18	1
DR45312	1-3/16		4	1.1875	14	20	1
DR45452	1-3/16		4	1.1875	18	24	1
DR45508	1-3/16		4	1.1875	24	30	1
DR45313	1-13/64		4	1.2031	14	20	1
DR45453	1-13/64		4	1.2031	18	24	1
DR44114	1-7/32		4	1.2188	9	15	1
DR45114	1-7/32		4	1.2188	12	18	1
DR45314	1-7/32		4	1.2188	14	20	1
DR45454	1-7/32		4	1.2188	18	24	1
DR44831		31.00	3	1.2205	320	480	1
DR45831		31.00	3	1.2205	410	610	1
DR44115	1-15/64		4	1.2344	9	15	1
DR45115	1-15/64		4	1.2344	12	18	1
DR45455	1-15/64		4	1.2344	18	24	1
DR44116	1-1/4		4	1.2500	9	15	1

Continued



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CODE	FRAC	MM	MTS	DEC	FLT	OA	PKG
DR45116	1-1/4		4	1.2500	12	18	1
DR45316	1-1/4		4	1.2500	14	20	1
DR45456	1-1/4		4	1.2500	18	24	1
DR45509	1-1/4		4	1.2500	24	30	1
DR44832		32.00	4	1.2598	320	505	1
DR45832		32.00	4	1.2598	410	610	1
DR45117	1-17/64		4	1.2656	12	18	1
DR45457	1-17/64		4	1.2656	18	24	1
DR45118	1-9/32		4	1.2813	12	18	1
DR45458	1-9/32		4	1.2813	18	24	1
DR44833		33.00	4	1.2992	320	505	1
DR45833		33.00	4	1.2992	410	635	1
DR45120	1-5/16		4	1.3125	12	18	1
DR45459	1-5/16		4	1.3125	18	24	1
DR45510	1-5/16		4	1.3125	24	30	1
DR44834		34.00	4	1.3386	340	530	1
DR45834		34.00	4	1.3386	430	635	1
DR45122	1-11/32		4	1.3438	12	18	1
DR45322	1-11/32		4	1.3438	14	20	1
DR45460	1-11/32		4	1.3438	18	24	1
DR45123	1-23/64		4	1.3594	12	18	1
DR45461	1-23/64		4	1.3594	18	24	1
DR45124	1-3/8		4	1.3750	12	18	1
DR45324	1-3/8		4	1.3750	14	20	1
DR45462	1-3/8		4	1.3750	18	24	1
DR45511	1-3/8		4	1.3750	24	30	1
DR44835		35.00	4	1.3780	340	530	1
DR45835		35.00	4	1.3780	430	665	1
DR45126	1-13/32		4	1.4063	12	18	1
DR45326	1-13/32		4	1.4063	14	20	1
DR45463	1-13/32		4	1.4063	18	24	1
DR44836		36.00	4	1.4173	340	530	1
DR45836		36.00	4	1.4173	430	665	1
DR45128	1-7/16		4	1.4375	12	18	1
DR45328	1-7/16		4	1.4375	14	20	1
DR45464	1-7/16		4	1.4375	18	24	1
DR45512	1-7/16		4	1.4375	24	30	1
DR44837		37.00	4	1.4567	340	530	1

CODE	FRAC	MM	MTS	DEC	FLT	OA	PKG
DR45837		37.00	4	1.4567	430	665	1
DR45130	1-15/32		4	1.4688	12	18	1
DR45330	1-15/32		4	1.4688	14	20	1
DR45465	1-15/32		4	1.4688	18	24	1
DR44838		38.00	4	1.4961	360	555	1
DR45838		38.00	4	1.4961	460	695	1
DR45132	1-1/2		4	1.5000	12	18	1
DR45466	1-1/2		4	1.5000	18	24	1
DR45513	1-1/2		4	1.5000	24	30	1
DR45601	1-1/2		4	1.5000	30	36	1
DR44839		39.00	4	1.5354	360	555	1
DR45839		39.00	4	1.5354	460	695	1
DR45136	1-9/16		5	1.5625	10	18	1
DR45467	1-9/16		5	1.5625	17	24	1
DR45514	1-9/16		5	1.5625	23	30	1
DR44840		40.00	4	1.5748	360	555	1
DR45840		40.00	4	1.5748	460	695	1
DR44841		41.00	4	1.6142	360	555	1
DR45841		41.00	4	1.6142	460	695	1
DR45140	1-5/8		5	1.6250	10	18	1
DR45468	1-5/8		5	1.6250	17	24	1
DR45515	1-5/8		5	1.6250	23	30	1
DR44842		42.00	4	1.6535	360	555	1
DR45842		42.00	4	1.6535	460	695	1
DR45144	1-11/16		5	1.6875	10	18	1
DR45469	1-11/16		5	1.6875	17	24	1
DR45516	1-11/16		5	1.6875	23	30	1
DR44843		43.00	4	1.6929	385	585	1
DR45843		43.00	4	1.6929	490	735	1
DR44844		44.00	4	1.7323	385	585	1
DR45844		44.00	4	1.7323	490	735	1
DR45148	1-3/4		5	1.7500	10	18	1
DR45348	1-3/4		5	1.7500	13	20	1
DR45470	1-3/4		5	1.7500	17	24	1
DR45517	1-3/4		5	1.7500	23	30	1
DR45602	1-3/4		5	1.7500	29	36	1
DR44845		45.00	4	1.7717	385	585	1
DR45845		45.00	4	1.7717	490	735	1

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CODE	FRAC	MM	MTS	DEC	FLT	OA	PKG
DR45350	1-25/32		5	1.7813	13	20	1
DR45471	1-25/32		5	1.7813	17	24	1
DR44846		46.00	4	1.8110	385	585	1
DR45846		46.00	4	1.8110	490	735	1
DR45152	1-13/16		5	1.8125	10	18	1
DR45472	1-13/16		5	1.8125	17	24	1
DR45518	1-13/16		5	1.8125	23	30	1
DR44847		47.00	4	1.8504	385	585	1
DR45847		47.00	4	1.8504	490	735	1
DR45156	1-7/8		5	1.8750	10	18	1
DR45473	1-7/8		5	1.8750	17	24	1
DR45519	1-7/8		5	1.8750	23	30	1
DR44848		48.00	4	1.8898	405	605	1
DR45848		48.00	4	1.8898	510	765	1
DR44849		49.00	4	1.9291	405	605	1
DR45849		49.00	4	1.9291	510	765	1
DR45474	1-15/16		5	1.9375	17	24	1
DR45520	1-15/16		5	1.9375	23	30	1
DR44850		50.00	4	1.9685	405	605	1
DR45850		50.00	4	1.9685	510	765	1
DR45475	2		5	2.0000	17	24	1
DR45521	2		5	2.0000	23	30	1
DR45603	2		5	2.0000	29	36	1
DR45476	2-1/16		5	2.0625	17	24	1
DR45522	2-1/16		5	2.0625	23	30	1
DR45477	2-1/8		5	2.1250	17	24	1
DR45523	2-1/8		5	2.1250	23	30	1
DR45604	2-1/8		5	2.1250	29	36	1
DR45478	2-3/16		5	2.1875	17	24	1
DR45524	2-3/16		5	2.1875	23	30	1
DR45479	2-7/32		5	2.2188	17	24	1
DR45480	2-1/4		5	2.2500	17	24	1
DR45525	2-1/4		5	2.2500	23	30	1
DR45605	2-1/4		5	2.2500	29	36	1

CODE	FRAC	MM	MTS	DEC	FLT	OA	PKG
DR45481	2-5/16		5	2.3125	17	24	1
DR45526	2-5/16		5	2.3125	23	30	1
DR45482	2-3/8		5	2.3750	17	24	1
DR45527	2-3/8		5	2.3750	23	30	1
DR45606	2-3/8		5	2.3750	29	36	1
DR45483	2-7/16		5	2.4375	17	24	1
DR45528	2-7/16		5	2.4375	23	30	1
DR45484	2-1/2		5	2.5000	17	24	1
DR45529	2-1/2		5	2.5000	23	30	1
DR45607	2-1/2		5	2.5000	29	36	1
DR45485	2-9/16		5	2.5625	17	24	1
DR45530	2-9/16		5	2.5625	23	30	1
DR45486	2-5/8		5	2.6250	17	24	1
DR45531	2-5/8		5	2.6250	23	30	1
DR45608	2-5/8		5	2.6250	29	36	1
DR45487	2-11/16		5	2.6875	17	24	1
DR45488	2-3/4		5	2.7500	17	24	1
DR45532	2-3/4		5	2.7500	23	30	1
DR45609	2-3/4		5	2.7500	29	36	1
DR45489	2-13/16		5	2.8125	17	24	1
DR45490	2-7/8		5	2.8750	17	24	1
DR45533	2-7/8		5	2.8750	23	30	1
DR45491	2-15/16		5	2.9375	17	24	1
DR45492	3		5	3.0000	17	24	1
DR45534	3		5	3.0000	23	30	1
DR45610	3		5	3.0000	29	36	1
DR45535	3-1/8		5	3.1250	23	30	1
DR45611	3-1/8		5	3.1250	29	36	1
DR45536	3-1/4		5	3.2500	23	30	1
DR45612	3-1/4		5	3.2500	29	36	1
DR45537	3-3/8		5	3.3750	23	30	1
DR45613	3-3/8		5	3.3750	29	36	1
DR45538	3-1/2		5	3.5000	23	30	1
DR45614	3-1/2		5	3.5000	29	36	1



Armour Piercing Drills - DR34

Armour Piercing Drills - Taper Shank Cobalt

- Premium Cobalt (8%)
- 130° Notched Point
- Cobalt substrate for increased hardness and toughness
- Black oxide finish for increased wear resistance and added lubricity
- Slow Spiral (15° Helix) for added strength and rigidity when drilling harder materials
- Designed for Heavy Duty drilling in work hardened and heat-treated steels such as Hardox 400 and Hardox 500.

CODE	FRAC	MTS	DEC	FLT	OA	PKG
DR34012	3/16	1	0.1875	1-1/2	4-13/16	1
DR34014	7/32	1	0.2188	1-5/8	4-15/16	1
DR34016	1/4	1	0.2500	2	5-5/16	1
DR34018	9/32	1	0.2812	2	5-5/16	1
DR34020	5/16	1	0.3125	2-1/8	5-7/16	1
DR34022	11/32	1	0.3438	2-1/8	5-7/16	1
DR34024	3/8	1	0.3750	2-3/16	5-1/2	1
DR34028	7/16	2	0.4375	3	6-7/8	1
DR34032	1/2	2	0.5000	3-3/16	7-1/16	1
DR34036	9/16	2	0.5625	3-3/8	7-1/4	1



Reducing Sleeves - DR58•DR59

MTS Drill Sleeves

- Type A – Oil Toughened (workshop grade) are manufactured from carbon steel - these are ground on the outside and have a reamed finish on the inside
- Type B – Hardened & Ground (premium grade) are manufactured from case hardened Hi Tensile steel - these are fully hardened and are ground on the inside and outside
- Drill Sleeves are used to adapt smaller Morse Taper Shank tools to larger machine spindles

TYPE A CODE	A	B	PKG
DR58001	0 MTS	1 MTS	1
DR58012	1 MTS	2 MTS	1
DR58013	1 MTS	3 MTS	1
DR58014	1 MTS	4 MTS	1
DR58023	2 MTS	3 MTS	1
DR58024	2 MTS	4 MTS	1
DR58034	3 MTS	4 MTS	1
DR58045	4 MTS	5 MTS	1

Forets A Armure Percante - Queue Conique Cobalt

- Cobalt premium (8%)
- Pointe crantée à 130 °
- Substrat en cobalt pour une dureté et une ténacité accrues
- Finition oxyde noir pour une résistance accrue à l'usure et un pouvoir lubrifiant accru
- Spirale lente (hélice à 15 °) pour plus de résistance et de rigidité lors du perçage de matériaux plus durs
- Conçu pour le perçage intensif dans des aciers trempés et traités thermiquement tels que Hardox 400 et Hardox 500.

CODE	FRAC	MTS	DEC	FLT	OA	PKG
DR34040	5/8	2	0.6250	3-1/2	7-3/8	1
DR34044	11/16	2	0.6875	3-5/8	7-1/2	1
DR34048	3/4	3	0.7500	3-3/4	8-3/8	1
DR34052	13/16	3	0.8125	4	8-5/8	1
DR34056	7/8	3	0.8750	4-1/8	8-3/4	1
DR34060	15/16	3	0.9375	4-1/8	8-3/4	1
DR34100	1	3	1.0000	4-1/4	8-7/8	1
DR34108	1-1/8	4	1.1250	4-7/8	10-5/8	1
DR34116	1-1/4	4	1.2500	5-1/4	11	1
DR34124	1-3/8	4	1.3750	5-3/4	11-1/2	1
DR34132	1-1/2	4	1.5000	6	11-3/4	1

Manchons

- Type A - trempé à l'huile (qualité atelier) sont fabriqués en acier au carbone - ils sont meulés à l'extérieur et ont une finition alésée à l'intérieur
- Type B - trempé et rectifié (qualité supérieure) sont fabriqués à partir d'acier Hi Tensile cimenté - ils sont entièrement trempés et rectifiés à l'intérieur et à l'extérieur
- Les douilles de perçage sont utilisées pour adapter les petits outils à queue cône Morse aux broches de machine plus grandes

TYPE B CODE	A	B	PKG
DR59001	0 MTS	1 MTS	1
DR59012	1 MTS	2 MTS	1
DR59013	1 MTS	3 MTS	1
DR59023	2 MTS	3 MTS	1
DR59034	3 MTS	4 MTS	1
DR59045	4 MTS	5 MTS	1



Drill Drifts - DR63

Drill Drifts - Center Keys

- Used to remove Taper Shank drills and reamers from sockets and sleeves
- Drop forged from medium carbon steel, these drift keys are hardened for increased wear resistance

Chasse Forets

- Utilisé pour retirer les forets et les alésoirs à queue conique des douilles et des douilles
- Forgées en acier au carbone moyen, ces clés de dérive sont durcies pour une résistance accrue à l'usure

CODE	NO	PKG
DR63201	1	1
DR63202	2	1
DR63203	3	1
DR63204	4	1



Jobber Drill Sets - DR06

Jobber Drills - Right Hand Straight Shank - Sets

- Available in 13, 15, 21, 25, 29, & 115-piece configurations
- Counter Drill Displays are available with either Two-Tone jobber drills (DR02), Hyper jobber drills (ZD16), or Cobalt jobber drills (DR09)

Foret A Queue Cylindrique - Ensembles

- Disponible en configurations de 13, 15, 21, 25, 29 et 115 pièces
- Les comptoirs de foret sont disponibles avec des forets de travail à deux tons (DR02), des forets Hyper de travail (ZD16) ou des forets de travail Cobalt (DR09)

CODE	NO	MATERIAL	FROM	TO	BY	PCS
DR06213	B13	HSS	1/16	1/4	1/64	13
DR06413	LH13	HSS LH	1/16	1/4	1/64	13
DR06713	#13	HSS BRIGHT	1/16	1/4	1/64	13
DR06013	T13	HSS TiN	1/16	1/4	1/64	13
DR06313	C13	COBALT	1/16	1/4	1/64	13
DR06215	15F	HSS	1/16	1/2	1/32	15
DR06415	15LH	HSS LH	1/16	1/2	1/32	15
DR06715	15B	HSS BRIGHT	1/16	1/2	1/32	15
DR06015	15T	HSS TiN	1/16	1/2	1/32	15
DR06315	15C	COBALT	1/16	1/2	1/32	15
DR06221	B21	HSS	1/16	3/8	1/64	21
DR06421	21LH	HSS LH	1/16	3/8	1/64	21
DR06721	21B	HSS BRIGHT	1/16	3/8	1/64	21
DR06021	21T	HSS TiN	1/16	3/8	1/64	21
DR06321	21C	COBALT	1/16	3/8	1/64	21
DR06228	29F	HSS	1/16	1/2	1/64	29
DR06429	29LH	HSS LH	1/16	1/2	1/64	29
DR06729	29B	HSS BRIGHT	1/16	1/2	1/64	29
DR06029	29T	HSS TiN	1/16	1/2	1/64	29
DR06329	29C	COBALT	1/16	1/2	1/64	29

Continued



Jobber Drill Sets - DR06

CODE	NO	MATERIAL	FROM	TO	BY	PCS
DR06260	B60	HSS	# 1	# 60		60
DR06460	60LH	HSS LH	# 1	# 60		60
DR06760	60B	HSS BRIGHT	# 1	# 60		60
DR06060	60T	HSS TiN	# 1	# 60		60
DR06360	60C	COBALT	# 1	# 60		60
DR06220	B20	HSS	# 61	# 80		20
DR06020	T20	HSS TiN	# 61	# 80		20
DR06320	C20	COBALT	# 61	# 80		20
DR06226	B26	HSS	A	Z		26
DR06426	26LH	HSS LH	A	Z		26
DR06726	26B	HSS BRIGHT	A	Z		26
DR06026	26T	HSS TiN	A	Z		26
DR06326	26C	COBALT	A	Z		26
DR06115	#115	HSS	1/16-1/2, A-Z, #1-#60			115
DR06055	115T	HSS TiN	1/16-1/2, A-Z, #1-#60			115
DR06355	115C	COBALT	1/16-1/2, A-Z, #1-#60			115
DR06201	M1	HSS	1.5	6.5	0.5	13
DR06204	M4	HSS	1.0	5.9	0.1	50
DR06205	M5	HSS	6.0	10.0	0.1	41
DR06219	M19	HSS	1.0	10.0	0.5	19
DR06019	T19	HSS TiN	1.0	10.0	0.5	19
DR06319	C19	COBALT	1.0	10.0	0.5	19
DR06224	M25	HSS	1.0	13.0	0.5	25
DR06025	M25T	HSS TiN	1.0	13.0	0.5	25
DR06325	M25C	COBALT	1.0	13.0	0.5	25
DR06328	29C	COBALT	1/16	1/2	1/64	235
			10 X (1/16 TO 21/64)			
			5 X (11/32 TO 1/2)			
DR06528	29D	HSS	1/16	1/2	1/64	235
			10 X (1/16 TO 21/64)			
			5 X (11/32 TO 1/2)			
DR06529	D29F	HSS	1/8	1/2	1/64	345
			40 X (1/8), 30 X (1/16, 3/32, 5/32, 3/16)			
			10 X (5/64, 7/64, 9/64, 11/64, 13/64 TO 21/64)			
			5 X (11/32 TO 1/2)			
DR06629	D29M	HSS	0.5	12.5		365
			40 X (5.0MM), 30 X (2.0, 3.0, 4.0, 6.0MM)			
			10 X (0.50, 0.60, 0.70, 0.80, 0.90, 1.0, 1.5, 2.5, 3.5MM)			
			10 X (4.5, 5.5, 6.5, 7.0, 7.5, 8.0, 8.5, 10.0MM)			
			5 X (9.0, 9.5, 10.5, 11.0, 11.5, 12.0, 12.5MM)			



Hyper Sets - ZD16

Hyper Jobber Drill Sets

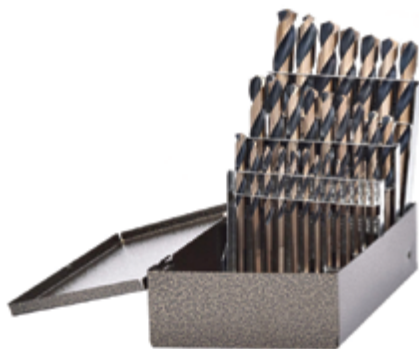
- Premium HSS
- 118 Deg point suitable for general purpose drilling in a wide range of materials
- Steam Oxide surface treatment increases lubricant retention and wear resistance and reduces chip welding

Jeux De Forets A Queue Cylindrique Hyper

- Premium HSS
- 118 ° C approprié pour le perçage général dans une large gamme de matériaux
- Le traitement de surface à l'oxyde de vapeur augmente la rétention de lubrifiant et la résistance à l'usure et réduit le soudage des copeaux

CODE	NO	MTL	FROM	TO	X	CASE	
ZD16813	#13	HSS	1/16	1/4	1/64	METAL	
ZD16815	#15	HSS	1/16	1/2	1/32	METAL	
ZD16821	#21	HSS	1/16	3/8	1/64	METAL	
ZD16829	#29	HSS	1/16	1/2	1/64	METAL	
ZD16826	#26	HSS	A	Z		METAL	
ZD16860	#60	HSS	#1	#60		METAL	
ZD16915	#115	HSS	1/16 - 1/2 X 1/64, A - Z, #1 - #60				METAL
ZD16828	#276	HSS	1/16	1/2	1/64	METAL	

12 X (1/16 TO 5/16)
6 X (21/64 TO 1/2)



Mechanic Length Drill Sets - DF17

Mechanic Length Drill Sets

- Mechanics Length drills (DF17) are available in 13, 15, 21, & 29-piece configurations

Jeux De Forets

- Foret Mécanique Longueur (DF17) disponible en configurations de 13, 15, 21, 25, 29 et 115 pièces

CODE	NO	MTL	FROM	TO	BY	PCS
DF17813	13FD	HSS	1/16	1/4	1/64	13
DF17815	15FD	HSS	1/16	1/2	1/32	15
DF17821	21FD	HSS	1/16	3/8	1/64	21
DF17829	29FD	HSS	1/16	1/2	1/64	29



Prentice Drill Sets - DR50•DR51

Prentice Drill Sets

- Prentice drills (DR50 / DR51) are available in either 5 or 8-piece sets

Jeux De Forets

- Foret Prentice (DR50 / DR51) disponible en configurations de 5 et 8 pièces

CODE	NO	MTL	INCLUDES	PCS
DR50705	5P	HSS	9/16 5/8 3/4 7/8 1	5
DR51705	5CP	M42	9/16 5/8 3/4 7/8 1	5
DR50901	8P	HSS	9/16 5/8 11/16 3/4 13/16 7/8 15/16 1	8
DR51900	8CP	M42	9/16 5/8 11/16 3/4 13/16 7/8 15/16 1	8



Empty Containers - DR08

Drill Sets - Empty Containers

- Empty drill set containers are available

Jeux De Forets

- Des conteneurs de jeu de forets vides sont disponibles

PART NUMBER	RANGE	PCS
DR08013	1/16-1/4 by 1/64	13
DR08015	1/16-1/2 by 1/32	15
DR08021	1/16-3/8 by 1/64	21
DR08029	1/16-1/2 by 1/64	29
DR08060	#1-#60	60
DR08020	#61-#80	20
DR08026	A - Z	26
DR08116	1/16-1/2, A-Z, #1-#60	115
DR08019	1.5MM-6.5MM X 0.5MM	13
DR08004	1MM-5.9MM X 0.1MM	50
DR08005	6MM-10MM X 0.1MM	41
DR08019	1MM-10MM X 0.5MM	19

PART NUMBER	RANGE	PCS
DR08025	1MM-13MM X 0.5MM	25
DR08428	EMPTY COUNTER DISPLAY	
DR08429	EMPTY COUNTER DISPLAY	
PRENTICE		
DR08009	9/16,5/8,11/16,3/4,13/16,7/8,15/16,1"	8
TAP & DRILL		
DR08950	NC Set 6-32 to 1/2-13	18
DR08918	NF Set 6-40 to 1/2-20	18
DR08958	Metric M2.5 to M12.0	18

Taps Tarauds



Hand Taps - TA03

Warwick Hand Taps - Machine Screw Sizes

- Premium HSS Hand Tap • Ground Thread
- Bright Finish
- Available in Taper (7 – 10 thread chamfer), Plug (3 – 5 thread chamfer), and Bottoming Chamfer (1 – 2 thread chamfer)
- The Set part number includes one each of Taper, Plug and Bottoming chamfers
- Designed for Hand Tapping in wide variety of materials in both through hole and blind hole applications

Tarauds A Main Warwick - Tailles Numerique

- Taraud à main HSS Premium • Fil de masse
- Finition brillante
- Disponible en cône (chanfrein 7-10 fils), en bouchon (chanfrein 3-5 fils) et chanfrein inférieur (chanfrein 1-2 filets)
- Le numéro de pièce défini comprend un de chanfreins coniques, enfichables et inférieurs
- Conçu pour le taraudage à la main dans une grande variété de matériaux dans les applications de trou traversant et de trou borgne

SIZE DIM	TAPER EBAUCH	PLUG INTERM	BOTTOM FINISSEUR	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN	SETS JEUX
0-80 NF	TA03002	TA03003	TA03004	3/8	1-5/8	0.141	2	TA03001
1-64 NC	TA03012	TA03013	TA03014	7/16	1-11/16	0.141	2	TA03011
1-72 NF	TA03312	TA03313	TA03314	7/16	1-11/16	0.141	2	TA03311
2-56 NC	TA03022	TA03023	TA03024	1/2	1-3/4	0.141	3	TA03021
2-64 NF	TA03322	TA03323	TA03324	1/2	1-3/4	0.141	3	TA03321
3-48 NC	TA03032	TA03033	TA03034	9/16	1-13/16	0.141	3	TA03031
3-56 NF	TA03332	TA03333	TA03334	9/16	1-13/16	0.141	3	TA03331
4-40 NC	TA03042	TA03043	TA03044	5/8	1-7/8	0.141	3	TA03041
4-48 NF	TA03342	TA03343	TA03344	5/8	1-7/8	0.141	3	TA03341
5-40 NC	TA03052	TA03053	TA03054	11/16	1-15/16	0.141	3	TA03051
5-44 NF	TA03352	TA03353	TA03354	11/16	1-15/16	0.141	3	TA03351
6-32 NC	TA03062	TA03063	TA03064	11/16	2"	0.141	3	TA03061
6-40 NF	TA03362	TA03363	TA03364	11/16	2"	0.141	3	TA03361
8-32 NC	TA03082	TA03083	TA03084	3/4	2-1/8	0.168	4	TA03081
8-36 NF	TA03382	TA03383	TA03384	3/4	2-1/8	0.168	4	TA03381
10-24 NC	TA03102	TA03103	TA03104	7/8	2-3/8	0.194	4	TA03101
10-32 NF	TA03402	TA03403	TA03404	7/8	2-3/8	0.194	4	TA03401
12-24 NC	TA03122	TA03123	TA03124	15/16	2-3/8	0.220	4	TA03121
12-28 NF	TA03422	TA03423	TA03424	15/16	2-3/8	0.220	4	TA03421



Hand Taps - TA01

Warwick Hand Taps - Fractional

- Premium HSS Hand Tap • Ground Thread
- Bright Finish
- Available in Taper (7 – 10 thread chamfer), Plug (3 – 5 thread chamfer), and Bottoming Chamfer (1 – 2 thread chamfer)
- The Set part number includes one each of Taper, Plug and Bottoming chamfers
- Designed for Hand Tapping in wide variety of materials in both through hole and blind hole applications

Tarauds A Main Warwick - Fractionnel

- Taraud à main HSS Premium • Fil de masse
- Finition brillante
- Disponible en cône (chanfrein 7-10 fils), en bouchon (chanfrein 3-5 fils) et chanfrein inférieur (chanfrein 1-2 filets)
- Le numéro de pièce défini comprend un de chanfreins coniques, enfichables et inférieurs
- Conçu pour le taraudage à la main dans une grande variété de matériaux dans les applications de trou traversant et de trou borgne

SIZE DIM	TAPER EBAUCH	PLUG INTERM	BOTTOM FINISSEUR	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN	SETS JEUX
1/4-20 NC	TA01042	TA01043	TA01044	1"	2-1/2	0.255	4	TA01041
1/4-28 NF	TA01342	TA01343	TA01344	1"	2-1/2	0.255	4	TA01341
5/16-18 NC	TA01052	TA01053	TA01054	1-1/8	2-23/32	0.318	4	TA01051
5/16-24 NF	TA01352	TA01353	TA01354	1-1/8	2-23/32	0.318	4	TA01351
3/8-16 NC	TA01062	TA01063	TA01064	1-1/4	2-15/16	0.381	4	TA01061
3/8-24 NF	TA01362	TA01363	TA01364	1-1/4	2-15/16	0.381	4	TA01361
7/16-14 NC	TA01072	TA01073	TA01074	1-7/16	3-5/32	0.323	4	TA01071
7/16-20 NF	TA01372	TA01373	TA01374	1-7/16	3-5/32	0.323	4	TA01371
1/2-13 NC	TA01082	TA01083	TA01084	1-21/32	3-3/8	0.367	4	TA01081
1/2-20 NF	TA01382	TA01383	TA01384	1-21/32	3-3/8	0.367	4	TA01381
9/16-12 NC	TA01092	TA01093	TA01094	1-21/32	3-19/32	0.429	4	TA01091
9/16-18 NF	TA01392	TA01393	TA01394	1-21/32	3-19/32	0.429	4	TA01391
5/8-11 NC	TA01102	TA01103	TA01104	1-13/16	3-13/16	0.480	4	TA01101
5/8-18 NF	TA01402	TA01403	TA01404	1-13/16	3-13/16	0.480	4	TA01401
3/4-10 NC	TA01122	TA01123	TA01124	2"	4-1/4	0.590	4	TA01121
3/4-16 NF	TA01422	TA01423	TA01424	2"	4-1/4	0.590	4	TA01421
7/8-9 NC	TA01142	TA01143	TA01144	2-7/32	4-11/16	0.697	4	TA01141
7/8-14 NF	TA01442	TA01443	TA01444	2-7/32	4-11/16	0.697	4	TA01441
1"-8 NC	TA01162	TA01163	TA01164	2-1/2	5-1/8	0.800	4	TA01161
1"-12 NF	TA01462	TA01463	TA01464	2-1/2	5-1/8	0.800	4	TA01461
1"-14 NS	TA01762	TA01763	TA01764	2-1/2	5-1/8	0.800	4	TA01761
1-1/8 7 NC	TA01182	TA01183	TA01184	2-9/16	5-7/16	0.896	4	TA01181
1-1/8 12 NF	TA01482	TA01483	TA01484	2-9/16	5-7/16	0.896	4	TA01481
1-1/4 7 NC	TA01202	TA01203	TA01204	2-9/16	5-3/4	1.021	4	TA01201
1-1/4 12 NF	TA01502	TA01503	TA01504	2-9/16	5-3/4	1.021	4	TA01501
1-3/8 6 NC	TA01222	TA01223	TA01224	3"	6-1/16	1.080	4	TA01221
1-3/8 12 NF	TA01522	TA01523	TA01524	3"	6-1/16	1.080	4	TA01521
1-1/2 6 NC	TA01242	TA01243	TA01244	3"	6-3/8	1.233	4	TA01241
1-1/2 12 NF	TA01542	TA01543	TA01544	3"	6-3/8	1.233	4	TA01541
1-3/4 5 NC	TA01262	TA01263	TA01264	3-3/16	7"	1.430	6	TA01261
2"-4.5 NC	TA01282	TA01283	TA01284	3-9/16	7-5/8	1.644	6	TA01281



Hand Taps - TA35

Warwick Hand Taps - Metric

- Premium HSS Hand Tap • Ground Thread
- Bright Finish
- Available in Taper (7 – 10 thread chamfer), Plug (3 – 5 thread chamfer), and Bottoming Chamfer (1 – 2 thread chamfer)
- The Set part number includes one each of Taper, Plug and Bottoming chamfers
- Designed for Hand Tapping in wide variety of materials in both through hole and blind hole applications

Tarauds A Main Warwick - Metrique

- Taraud à main HSS Premium • Fil de masse
- Finition brillante
- Disponible en cône (chanfrein 7-10 fils), en bouchon (chanfrein 3-5 fils) et chanfrein inférieur (chanfrein 1-2 filets)
- Le numéro de pièce défini comprend un de chanfreins coniques, enfichables et inférieurs
- Conçu pour le taraudage à la main dans une grande variété de matériaux dans les applications de trou traversant et de trou borgne

SIZE DIM	TAPER EBAUCH	PLUG INTERIM	BOTTOM FINISSEUR	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN	SETS JEUX
M1.6 X 0.35	TA35010	TA35011	TA35012	8.0	41.0	2.5	3	TA35009
M2.0 X 0.40	TA35022	TA35023	TA35024	8.0	41.0	2.5	3	TA35021
M2.2 X 0.45	TA35018	TA35019	TA35020	9.5	44.5	2.8	3	TA35017
M2.5 X 0.45	TA35026	TA35027	TA35028	9.5	44.5	2.8	3	TA35025
M3.0 X 0.50	TA35032	TA35033	TA35034	15.0	48.0	3.2	3	TA35031
M3.5 X 0.60	TA35036	TA35037	TA35038	17.0	50.0	3.6	3	TA35035
M4.0 X 0.70	TA35042	TA35043	TA35044	17.0	53.0	4.0	3	TA35041
M4.5 X 0.75	TA35046	TA35047	TA35048	17.0	53.0	4.5	3	TA35045
M5.0 X 0.80	TA35052	TA35053	TA35054	16.0	58.0	5.0	3	TA35051
M6.0 X 1.00	TA35062	TA35063	TA35064	19.0	66.0	6.3	3	TA35061
M7.0 X 1.00	TA35072	TA35073	TA35074	19.0	66.0	7.1	4	TA35071
M8.0 X 1.25	TA35082	TA35083	TA35084	22.0	72.0	8.0	4	TA35081
M9.0 X 1.25	TA35092	TA35093	TA35094	22.0	72.0	9.0	4	TA35091
M10.0 X 1.50	TA35102	TA35103	TA35104	24.0	80.0	10.0	4	TA35101
M11.0 X 1.50	TA35112	TA35113	TA35114	25.0	85.0	8.0	4	TA35111
M12.0 X 1.75	TA35122	TA35123	TA35124	19.0	89.0	9.0	4	TA35121
M14.0 X 2.00	TA35142	TA35143	TA35144	30.0	95.0	11.2	4	TA35141
M16.0 X 2.00	TA35162	TA35163	TA35164	32.0	102.0	12.5	4	TA35161
M18.0 X 2.50	TA35185	TA35186	TA35187	37.0	112.0	14.0	4	TA35184
M20.0 X 2.50	TA35202	TA35203	TA35204	37.0	112.0	14.0	4	TA35201
M22.0 X 2.50	TA35222	TA35223	TA35224	38.0	118.0	16.0	4	TA35221
M24.0 X 3.00	TA35242	TA35243	TA35244	45.0	130.0	18.0	4	TA35241
M27.0 X 3.00	TA35272	TA35273	TA35274	45.0	135.0	20.0	4	TA35271
M30.0 X 3.50	TA35302	TA35303	TA35304	48.0	138.0	20.0	4	TA35301
M33.0 X 3.50	TA35332	TA35333	TA35334	51.0	151.0	22.4	4	TA35331
M36.0 X 4.00	TA35362	TA35363	TA35364	57.0	162.0	25.0	4	TA35361
M39.0 X 4.00	TA35392	TA35393	TA35394	60.0	170.0	28.0	4	TA35391
M42.0 X 4.50	TA35422	TA35423	TA35424	60.0	170.0	28.0	6	TA35421
M45.0 X 4.50	TA35452	TA35453	TA35454	67.0	187.0	31.5	6	TA35451
M48.0 X 5.00	TA35482	TA35483	TA35484	67.0	187.0	31.5	6	TA35481
M52.0 X 5.00	TA35522	TA35523	TA35524	70.0	200.0	31.5	6	TA35521
M56.0 X 5.50	TA35562	TA35563	TA35564	70.0	200.0	31.5	6	TA35561



Hand Taps - TA36

Warwick Hand Taps - Metric Fine

- Premium HSS Hand Tap • Ground Thread
- Bright Finish
- Available in Taper (7 – 10 thread chamfer), Plug (3 – 5 thread chamfer), and Bottoming Chamfer (1 – 2 thread chamfer)
- The Set part number includes one each of Taper, Plug and Bottoming chamfers
- Designed for Hand Tapping in wide variety of materials in both through hole and blind hole applications

Tarauds A Main Warwick - Metrique Fin

- Taraud à main HSS Premium • Fil de masse
- Finition brillante
- Disponible en cône (chanfrein 7-10 fils), en bouchon (chanfrein 3-5 fils) et chanfrein inférieur (chanfrein 1-2 filets)
- Le numéro de pièce défini comprend un de chanfreins coniques, enfichables et inférieurs
- Conçu pour le taraudage à la main dans une grande variété de matériaux dans les applications de trou traversant et de trou borgne

SIZE DIM	TAPER EBAUCH	PLUG INTERIM	BOTTOM FINISSEUR	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN	SETS JEUX
MF3.0 X 0.35	TA36032	TA36033	TA36034	15.0	48.0	3.2	3	TA36031
MF3.5 X 0.35	TA36036	TA36037	TA36038	17.0	50.0	3.6	3	TA36035
MF4.0 X 0.50	TA36042	TA36043	TA36044	17.0	53.0	4.0	3	TA36041
MF4.5 X 0.50	TA36046	TA36047	TA36048	17.0	53.0	4.5	3	TA36045
MF5.0 X 0.50	TA36052	TA36053	TA36054	16.0	58.0	5.0	3	TA36051
MF6.0 X 0.50	TA36062	TA36063	TA36064	19.0	66.0	6.3	3	TA36061
MF6.0 X 0.75	TA36066	TA36067	TA36068	19.0	66.0	6.3	3	TA36065
MF7.0 X 0.75	TA36072	TA36073	TA36074	19.0	66.0	7.1	4	TA36071
MF8.0 X 0.50	TA36082	TA36083	TA36084	19.0	69.0	8.0	4	TA36081
MF8.0 X 0.75	TA36086	TA36087	TA36088	22.0	72.0	8.0	4	TA36085
MF8.0 X 1.00	TA36089	TA36090	TA36091	22.0	72.0	8.1	4	TA36080
MF9.0 X 1.00	TA36092	TA36093	TA36094	22.0	72.0	9.0	4	TA36095
MF10.0 X 0.75	TA36102	TA36103	TA36104	24.0	80.0	10.0	4	TA36101
MF10.0 X 1.00	TA36105	TA36106	TA36107	24.0	80.0	10.0	4	TA36096
MF10.0 X 1.25	TA36108	TA36109	TA36110	24.0	80.0	10.0	4	TA36097
MF11.0 X 0.75	TA36112	TA36113	TA36114	22.0	82.0	8.0	4	TA36111
MF11.0 X 1.00	TA36116	TA36117	TA36118	22.0	82.0	8.0	4	TA36115
MF12.0 X 1.00	TA36122	TA36123	TA36124	29.0	89.0	9.0	4	TA36121
MF12.0 X 1.25	TA36126	TA36127	TA36128	29.0	89.0	9.0	4	TA36125
MF12.0 X 1.50	TA36130	TA36131	TA36132	29.0	89.0	9.0	4	TA36129
MF14.0 X 1.00	TA36142	TA36143	TA36144	30.0	95.0	11.2	4	TA36141
MF14.0 X 1.25	TA36146	TA36147	TA36148	30.0	95.0	11.2	4	TA36145
MF14.0 X 1.50	TA36150	TA36151	TA36152	30.0	95.0	11.2	4	TA36149
MF16.0 X 1.00	TA36162	TA36163	TA36164	32.0	102.0	12.5	4	TA36161
MF16.0 X 1.50	TA36166	TA36167	TA36168	32.0	102.0	12.5	4	TA36165
MF18.0 X 1.00	TA36185	TA36186	TA36187	37.0	112.0	14.0	4	TA36184
MF18.0 X 1.50	TA36189	TA36190	TA36191	37.0	112.0	14.0	4	TA36188
MF18.0 X 2.00	TA36193	TA36194	TA36195	37.0	112.0	14.0	4	TA36192
MF20.0 X 1.00	TA36202	TA36203	TA36204	37.0	112.0	14.0	4	TA36201
MF20.0 X 1.50	TA36206	TA36207	TA36208	37.0	112.0	14.0	4	TA36205
MF20.0 X 2.00	TA36210	TA36211	TA36212	37.0	112.0	14.0	4	TA36209
MF22.0 X 1.50	TA36222	TA36223	TA36224	38.0	118.0	16.0	4	TA36221
MF22.0 X 2.00	TA36226	TA36227	TA36228	38.0	118.0	16.0	4	TA36225
MF24.0 X 1.50	TA36242	TA36243	TA36244	45.0	130.0	18.0	4	TA36241
MF24.0 X 2.00	TA36246	TA36247	TA36248	45.0	130.0	18.0	4	TA36245
MF25.0 X 1.50	TA36252	TA36253	TA36254	35.0	120.0	18.0	4	TA36251
MF27.0 X 2.00	TA36272	TA36273	TA36274	37.0	127.0	20.0	4	TA36271
MF30.0 X 1.50	TA36302	TA36303	TA36304	37.0	127.0	20.0	4	TA36301
MF30.0 X 2.00	TA36306	TA36307	TA36308	37.0	127.0	20.0	4	TA36305
MF32.0 X 1.50	TA36322	TA36323	TA36324	37.0	127.0	22.4	4	TA36321
MF40.0 X 1.50	TA36402	TA36403	TA36404	39.0	149.0	28.0	4	TA36401



Hand Taps - TA37

Warwick Hand Taps - BSW

- Premium HSS Hand Tap • Ground Thread
- Bright Finish
- BSW (British Standard Whitworth) is similar to UNC but differs in that the thread form for a BSW is 55° vs the 60° for UNC
- Available in Taper (7 – 10 thread chamfer), Plug (3 – 5 thread chamfer), and Bottoming Chamfer (1 – 2 thread chamfer)
- The Set part number includes one each of Taper, Plug and Bottoming chamfers
- Designed for Hand Tapping in wide variety of materials in both through hole and blind hole applications

Tarauds A Main Warwick - BSW

- Taraud à main HSS Premium • Fil de masse
- Finition brillante
- BSW (British Standard Whitworth) est similaire à UNC mais diffère en ce que la forme du filetage pour un BSW est de 55 ° contre 60 ° pour UNC
- Disponible en cône (chanfrein 7-10 fils), en bouchon (chanfrein 3-5 fils) et chanfrein inférieur (chanfrein 1-2 filets)
- Le numéro de pièce défini comprend un de chanfreins coniques, enfichables et inférieurs
- Conçu pour le taraudage à la main dans une grande variété de matériaux dans les applications de trou traversant et de trou borgne

SIZE DIM	TAPER EBAUCH	PLUG INTERIM	BOTTOM FINISSEUR	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN	SETS JEUX
1/16-60 BSW	TA37022	TA37023	TA37024	8.0	41.0	2.5	3	TA37021
3/32-48 BSW	TA37032	TA37033	TA37034	9.5	44.5	2.8	3	TA37031
1/8-40 BSW	TA37042	TA37043	TA37044	15.0	48.0	3.2	3	TA37041
5/32-32 BSW	TA37052	TA37053	TA37054	17.0	53.0	4.0	3	TA37051
3/16-24 BSW	TA37062	TA37063	TA37064	16.0	58.0	5.0	3	TA37061
7/32-24 BSW	TA37072	TA37073	TA37074	17.0	62.0	5.6	3	TA37071
1/4-20 BSW	TA37082	TA37083	TA37084	19.0	66.0	6.3	4	TA37081
5/16-18 BSW	TA37102	TA37103	TA37104	22.0	72.0	8.0	4	TA37101
3/8-16 BSW	TA37122	TA37123	TA37124	24.0	80.0	10.0	4	TA37121
7/16-14 BSW	TA37142	TA37143	TA37144	25.0	85.0	8.0	4	TA37141
1/2-12 BSW	TA37162	TA37163	TA37164	29.0	89.0	9.0	4	TA37161
9/16-12 BSW	TA37182	TA37183	TA37184	30.0	95.0	11.2	4	TA37181
5/8-11 BSW	TA37202	TA37203	TA37204	32.0	102.0	12.5	4	TA37201
3/4-10 BSW	TA37242	TA37243	TA37244	37.0	112.0	14.0	4	TA37241
7/8-9 BSW	TA37282	TA37283	TA37284	38.0	118.0	16.0	4	TA37281
1"-8 BSW	TA37322	TA37323	TA37324	45.0	130.0	18.0	4	TA37321
1-1/8 7 BSW	TA37362	TA37363	TA37364	48.0	138.0	20.0	4	TA37361
1-1/4 7 BSW	TA37402	TA37403	TA37404	51.0	151.0	22.4	4	TA37401
1-1/2 6 BSW	TA37432	TA37433	TA37434	60.0	170.0	28.0	4	TA37431
1-3/4 5 BSW	TA37462	TA37463	TA37464	67.0	187.0	31.5	6	TA37461
2"-4.5 BSW	TA37482	TA37483	TA37484	70.0	200.0	35.5	6	TA37481



Hand Taps - TA37

Warwick Hand Taps - BSF

- Premium HSS Hand Tap • Ground Thread
- Bright Finish
- BSF (British Standard Fine) is a finer pitch series, also with a 55° Thread Form
- Available in Taper (7 – 10 thread chamfer), Plug (3 – 5 thread chamfer), and Bottoming (1 – 2 thread chamfer)
- The Set part number includes one each of Taper, Plug and Bottoming chamfers
- Designed for Hand Tapping in wide variety of materials in both through hole and blind hole applications

Tarauds A Main Warwick - BSF

- Taraud à main HSS Premium • Fil de masse
- Finition brillante
- BSF (British Standard Fine) est une série à inclinaison plus fine, également avec une forme de filetage à 55 °
- Disponible en cône (chanfrein 7-10 fils), en bouchon (chanfrein 3-5 fils) et inférieur (chanfrein 1-2 filets)
- Le numéro de pièce défini comprend un de chanfreins coniques, enfichables et inférieurs
- Conçu pour le taraudage à la main dans une grande variété de matériaux dans les applications de trou traversant et de trou borgne

SIZE DIM	TAPER EBAUCH	PLUG INTERIM	BOTTOM FINISSEUR	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN	SETS JEUX
3/16-32 BSF	TA37562	TA37563	TA37564	16.0	58.0	5.0	3	TA37561
1/4-26 BSF	TA37582	TA37583	TA37584	19.0	66.0	6.3	4	TA37581
5/16-22 BSF	TA37602	TA37603	TA37604	22.0	72.0	8.0	4	TA37601
3/8-20 BSF	TA37622	TA37623	TA37624	24.0	80.0	10.0	4	TA37621
7/16-18 BSF	TA37642	TA37643	TA37644	25.0	85.0	8.0	4	TA37641
1/2-16 BSF	TA37662	TA37663	TA37664	29.0	89.0	9.0	4	TA37661
9/16-16 BSF	TA37682	TA37683	TA37684	30.0	95.0	11.2	4	TA37681
5/8-14 BSF	TA37702	TA37703	TA37704	32.0	102.0	12.5	4	TA37701
3/4-12 BSF	TA37742	TA37743	TA37744	37.0	112.0	14.0	4	TA37741
7/8-11 BSF	TA37782	TA37783	TA37784	38.0	118.0	16.0	4	TA37781
1" -10 BSF	TA37822	TA37823	TA37824	45.0	130.0	18.0	4	TA37821
1-1/8 9 BSF	TA37862	TA37863	TA37864	48.0	138.0	20.0	4	TA37861
1-1/4 9 BSF	TA37902	TA37903	TA37904	51.0	151.0	22.4	4	TA37901
1-1/2 8 BSF	TA37932	TA37933	TA37934	60.0	170.0	28.0	4	TA37931
1-3/4 7 BSF	TA37962	TA37963	TA37964	67.0	187.0	31.5	6	TA37961
2" -7 BSF	TA37982	TA37983	TA37984	70.0	200.0	35.5	6	TA37981



Hand Taps - TA38

Warwick Hand Taps - BA

- Premium HSS Hand Tap • Ground Thread
- Bright Finish
- BA (British Association) is a metric thread system devised by the British for small screws used in components with a Thread Form of $47\frac{1}{2}^\circ$
- Available in Taper (7 – 10 thread chamfer), Plug (3 – 5 thread chamfer), and Bottoming (1 – 2 thread chamfer)
- The Set part number includes one each of Taper, Plug and Bottoming chamfers
- Designed for Hand Tapping in wide variety of materials in both through hole and blind hole applications

Tarauds A Main Warwick - BA

- Taraud à main HSS Premium • Fil de masse
- Finition brillante
- BA (British Association) est un système de filetage métrique conçu par les Britanniques pour les petites vis utilisées dans les composants avec une forme de filetage de $47\frac{1}{2}^\circ$
- Disponible en cône (chanfrein 7-10 fils), en bouchon (chanfrein 3-5 fils) et inférieur (chanfrein 1-2 filets)
- Le numéro de pièce défini comprend un de chanfreins coniques, enfichables et inférieurs
- Conçu pour le taraudage à la main dans une grande variété de matériaux dans les applications de trou traversant et de trou borgne

SIZE DIM	TAPER EBAUCH	PLUG INTERIM	BOTTOM FINISSEUR	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN	SETS JEUX
#0 X 1.00 BA	TA38002	TA38003	TA38004	19.0	66.0	2.5	3	TA38001
#1 X 0.90 BA	TA38012	TA38013	TA38014	17.0	62.0	2.5	3	TA38011
#2 X 0.81 BA	TA38022	TA38023	TA38024	16.0	58.0	2.5	3	TA38021
#3 X 0.73 BA	TA38032	TA38033	TA38034	17.0	53.0	2.8	3	TA38031
#4 X 0.66 BA	TA38042	TA38043	TA38044	17.0	50.0	2.8	3	TA38041
#5 X 0.59 BA	TA38052	TA38053	TA38054	15.0	48.0	2.8	3	TA38051
#6 X 0.53 BA	TA38062	TA38063	TA38064	9.5	44.5	3.2	3	TA38061
#7 X 0.48 BA	TA38072	TA38073	TA38074	9.5	44.5	3.6	3	TA38071
#8 X 0.43 BA	TA38082	TA38083	TA38084	9.5	44.5	4.5	3	TA38081
#9 X 0.39 BA	TA38092	TA38093	TA38094	8.0	41.0	5.0	3	TA38091
#10 X 0.35 BA	TA38102	TA38103	TA38104	8.0	41.0	5.6	3	TA38101
#12 X 0.28 BA	TA38122	TA38123	TA38124	7.0	40.0	6.3	3	TA38121



Hand Taps - Left Hand - TA02

Warwick Hand Taps - Left Hand

- Premium HSS Hand Tap • Ground Thread
- Bright Finish
- Left Hand thread
- Available in Taper (7 – 10 thread chamfer), Plug (3 – 5 thread chamfer), and Bottoming (1 – 2 thread chamfer)
- The Set part number includes one each of Taper, Plug and Bottoming chamfers
- Designed for Hand Tapping in wide variety of materials in both through hole and blind hole applications

Tarauds A Main Warwick - Coupe A Gauche

- Taraud à main HSS Premium • Fil de masse
- Finition brillante
- Filetage à gauche
- Disponible en cône (chanfrein 7-10 fils), en bouchon (chanfrein 3-5 fils) et inférieur (chanfrein 1-2 filets)
- Le numéro de pièce défini comprend un de chanfreins coniques, enfichables et inférieurs
- Conçu pour le taraudage à la main dans une grande variété de matériaux dans les applications de trou traversant et de trou borgne

SIZE DIM	TAPER EBAUCH	PLUG INTERIM	BOTTOM FINISSEUR	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN	SETS JEUX
6-32 NC	TA02012	TA02013	TA02014	11/16	2"	0.141	3	TA02011
8-32 NC	TA02022	TA02023	TA02024	3/4	2-1/8	0.168	4	TA02021
10-24 NC	TA02032	TA02033	TA02034	7/8	2-3/8	0.194	4	TA02031
10-32 NF	TA02302	TA02303	TA02304	7/8	2-3/8	0.194	4	TA02301
1/4-20 NC	TA02042	TA02043	TA02044	1"	2-1/2	0.255	4	TA02041
1/4-28 NF	TA02342	TA02343	TA02344	1"	2-1/2	0.255	4	TA02341
5/16-18 NC	TA02052	TA02053	TA02054	1-1/8	2-23/32	0.318	4	TA02051
5/16-24 NF	TA02352	TA02353	TA02354	1-1/8	2-23/32	0.318	4	TA02351
3/8-16 NC	TA02062	TA02063	TA02064	1-1/4	2-15/16	0.381	4	TA02061
3/8-24 NF	TA02362	TA02363	TA02364	1-1/4	2-15/16	0.381	4	TA02361
7/16-14 NC	TA02072	TA02073	TA02074	1-7/16	3-5/32	0.323	4	TA02071
7/16-20 NF	TA02372	TA02373	TA02374	1-7/16	3-5/32	0.323	4	TA02371
1/2-13 NC	TA02082	TA02083	TA02084	1-21/32	3-3/8	0.367	4	TA02081
1/2-20 NF	TA02382	TA02383	TA02384	1-21/32	3-3/8	0.367	4	TA02381
9/16-12 NC	TA02092	TA02093	TA02094	1-21/32	3-19/32	0.429	4	TA02091
9/16-18 NF	TA02392	TA02393	TA02394	1-21/32	3-19/32	0.429	4	TA02391
5/8-11 NC	TA02102	TA02103	TA02104	1-13/16	3-13/16	0.480	4	TA02101
5/8-18 NF	TA02402	TA02403	TA02404	1-13/16	3-13/16	0.480	4	TA02401
3/4-10 NC	TA02122	TA02123	TA02124	2"	4-1/4	0.590	4	TA02121
3/4-16 NF	TA02422	TA02423	TA02404	2"	4-1/4	0.590	4	TA02421
7/8-9 NC	TA02142	TA02143	TA02144	2-7/32	4-11/16	0.697	4	TA02141
7/8-14 NF	TA02442	TA02443	TA02444	2-7/32	4-11/16	0.697	4	TA02441
1"-8 NC	TA02162	TA02163	TA02164	2-1/2	5-1/8	0.800	4	TA02161
1"-12 NF	TA02462	TA02463	TA02464	2-1/2	5-1/8	0.800	4	TA02461
1"-14 NS	TA02472	TA02473	TA02474	2-1/2	5-1/8	0.800	4	TA02471



Extension Taps - TA06

Extension Hand Taps - Fractional

- HSS • Plug Chamfer
- Bright Finish
- Available as a "Pulley" style where the shank diameter is not reduced or as an "Extension" style with reduced shank
- Extension taps provide additional length for longer reach applications; however, the shank diameter is reduced to allow tapping beyond the ground thread length of the tap
- Pulley taps are used for tapping the hubs of pulleys for oil caps or set screws; however, the shank diameter is not reduced as it is with extension taps
- Designed for use in wide variety of materials in both through hole and blind hole applications

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
TA06006	6-32 NC	11/16	6"	0.141	3
TA06008	8-32 NC	3/4	6"	0.168	4
TA06010	10-24 NC	7/8	6"	0.194	4
TA06110	10-32 NF	7/8	6"	0.194	4
TA06016	1/4-20 NC	1"	6"	0.255	4
TA06416	1/4-20 NC	1"	6"	0.185	4
TA06116	1/4-28 NF	1"	6"	0.255	4
TA06020	5/16-18 NC	1-1/8	6"	0.318	4
TA06420	5/16-18 NC	1-1/8	6"	0.420	4
TA06120	5/16-24 NF	1-1/8	6"	0.318	4
TA06024	3/8-16 NC	1-1/4	6"	0.381	4
TA06424	3/8-16 NC	1-1/4	6"	0.275	4
TA06124	3/8-24 NF	1-1/4	6"	0.381	4
TA06028	7/16-14 NC	1-7/16	6"	0.323	4
TA06128	7/16-20 NF	1-7/16	6"	0.323	4
TA06032	1/2-13 NC	1-21/32	6"	0.367	4
TA06132	1/2-20 NF	1-21/32	6"	0.367	4
TA06036	9/16-12 NC	1-21/32	6"	0.429	4

Tarauds A Main Extension - Fractionnel

- HSS • Intermediaire chanfrein
- Finition brillante
- Disponible en style «Poulie» où le diamètre de tige n'est pas réduit ou en style «Extension» avec tige réduite
- Les tarauds d'extension offrent une longueur supplémentaire pour les applications à plus longue portée; cependant, le diamètre de la tige est réduit pour permettre le taraudage au-delà de la longueur de filetage du taraud
- Les tarauds de poulie sont utilisés pour tarauder les moyeux des poulies pour les bouchons d'huile ou les vis de réglage; cependant, le diamètre de la tige n'est pas réduit comme c'est le cas avec les tarauds d'extension
- Conçu pour une utilisation dans une grande variété de matériaux dans les applications de trou traversant et de trou borgne

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
TA06136	9/16-18 NF	1-21/32	6"	0.429	4
TA06040	5/8-11 NC	1-13/16	6"	0.480	4
TA06140	5/8-18 NF	1-13/16	6"	0.480	4
TA06048	3/4-10 NC	2"	6"	0.590	4
TA06216	1/4-20 NC	1"	8"	0.255	4
TA06220	5/16-18 NC	1-1/8	8"	0.318	4
TA06224	3/8-16 NC	1-1/4	8"	0.381	4
TA06232	1/2-13 NC	1-21/32	8"	0.367	4
TA06240	5/8-11 NC	1-13/16	8"	0.480	4
TA06248	3/4-10 NC	2"	8"	0.590	4
TA06256	7/8-9 NC	2-7/32	8"	0.697	4
TA06264	1"-8 NC	2-1/2	8"	0.800	4
TA06324	3/8-16 NC	1-1/4	10"	0.381	4
TA06348	3/4-10 NC	2"	10"	0.590	4
TA06364	1"-8 NC	2-1/2	10"	0.800	4

TA07 - PULLEY TAPS - TARAUDS POUR POULIES

TA07128	7/16-20 NF	1-7/16	6"	0.444	4
TA07132	1/2-20 NF	1-21/32	6"	0.507	4



Spiral Point Taps - CT72

Blue Wizard Spiral Point Machine Taps Fractional

- HSS
- Designed to produce a 2B Class of Fit
- Spiral point forces the chips ahead of the tap – designed for through hole applications
- Suitable for various steels (up to 32Rc) and stainless steel
- Ferrous Oxide surface treatment increases wear resistance, improves chip flow and reduces chip welding
- The Ferrous Oxide surface treatment also enables the tap to absorb the lubricant / cutting fluid

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT72100	0-80 NF	3/8	1-5/8	0.141	2
CT72001	1-64 NC	7/16	1-11/16	0.141	2
CT72101	1-72 NF	7/16	1-11/16	0.141	2
CT72002	2-56 NC	1/2	1-3/4	0.141	2
CT72102	2-64 NF	1/2	1-3/4	0.141	2
CT72003	3-48 NC	9/16	1-13/16	0.141	2
CT72103	3-56 NF	9/16	1-13/16	0.141	2
CT72004	4-40 NC	5/8	1-7/8	0.141	2
CT72104	4-48 NF	5/8	1-7/8	0.141	2
CT72005	5-40 NC	11/16	1-15/16	0.141	2
CT72105	5-44 NF	11/16	1-15/16	0.141	2
CT72006	6-32 NC	11/16	2"	0.141	2
CT72106	6-40 NF	11/16	2"	0.141	2
CT72008	8-32 NC	3/4	2-1/8	0.168	2
CT72108	8-36 NF	3/4	2-1/8	0.168	2
CT72010	10-24 NC	11/16	2-3/8	0.194	2
CT72110	10-32 NF	11/16	2-3/8	0.194	2
CT72012	12-24 NC	11/16	2-3/8	0.220	2
CT72120	12-28 NF	11/16	2-3/8	0.220	2
CT72404	1/4-20 NC	13/16	2-1/2	0.255	2
CT72504	1/4-28 NF	13/16	2-1/2	0.255	2
CT72405	5/16-18 NC	7/8	2-23/32	0.318	3
CT72505	5/16-24 NF	7/8	2-23/32	0.318	3
CT72406	3/8-16 NC	1"	2-15/16	0.381	3
CT72506	3/8-24 NF	1"	2-15/16	0.381	3
CT72407	7/16-14 NC	1-1/16	3-5/32	0.323	3

Tarauds A Machine Blue Wizard - Entree En Helice Fractionnel

- HSS
- Conçu pour produire une classe d'ajustement 2B
- Le point en spirale force les copeaux devant le taraud - conçu pour les applications à trou traversant
- Convient pour divers aciers (jusqu'à 32Rc) et acier inoxydable
- Le traitement de surface de l'oxyde ferreux augmente la résistance à l'usure, améliore l'écoulement des copeaux et réduit le soudage des copeaux
- Le traitement de surface de l'oxyde ferreux permet également au taraud d'absorber le lubrifiant / fluide de coupe

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT72507	7/16-20 NF	1-1/16	3-5/32	0.323	3
CT72408	1/2-13 NC	1-3/16	3-3/8	0.367	3
CT72508	1/2-20 NF	1-3/16	3-3/8	0.367	3
CT72409	9/16-12 NC	1-3/16	3-19/32	0.429	3
CT72509	9/16-18 NF	1-3/16	3-19/32	0.429	3
CT72410	5/8-11 NC	1-3/8	3-13/16	0.480	3
CT72510	5/8-18 NF	1-3/8	3-13/16	0.480	3
CT72412	3/4-10 NC	1-7/16	4-1/4	0.590	3
CT72512	3/4-16 NF	1-7/16	4-1/4	0.590	3
CT72414	7/8-9 NC	1-5/8	4-11/16	0.697	3
CT72514	7/8-14 NF	1-5/8	4-11/16	0.697	3
CT72416	1"-8 NC	1-3/4	5-1/8	0.800	4
CT72516	1"-12 NF	1-3/4	5-1/8	0.800	4
CT72616	1"-14 NS	1-3/4	5-1/8	0.800	4
CT72418	1-1/8 7 NC	2-9/16	5-7/16	0.896	4
CT72518	1-1/8 12 NF	2-9/16	5-7/16	0.896	4
CT72420	1-1/4 7 NC	2-9/16	5-3/4	1.021	4
CT72520	1-1/4 12 NF	2-9/16	5-3/4	1.021	4
CT72422	1-3/8 6 NC	3"	6-1/16	1.108	4
CT72522	1-3/8 12 NF	3"	6-1/16	1.108	4
CT72424	1-1/2 6 NC	3"	6-3/8	1.233	4
CT72524	1-1/2 12 NF	3"	6-3/8	1.233	4
CT72432	2" 4.5 NC	3-9/16	7-5/8	1.644	6



Spiral Point Machine Taps - CT72 +.005"

Blue Wizard Spiral Point Machine Taps +.005" Oversize

- HSS
- Designed to produce a 2B Class of Fit
- The +.005" oversize pitch diameter is primarily used for tapping parts that will be plated or heat treated after machining
- Spiral point forces the chips ahead of the tap – designed for through hole applications
- Suitable for various steels (up to 32Rc) and stainless steel
- Ferrous Oxide surface treatment increases wear resistance, improves chip flow and reduces chip welding
- The Ferrous Oxide surface treatment also enables the tap to absorb the lubricant / cutting fluid

Tarauds A Machine Blue Wizard +.005" Entrée En Helice

- HSS
- Conçu pour produire une classe d'ajustement 2B
- Le diamètre de pas surdimensionné de +.005 "est principalement utilisé pour tarauder les pièces qui seront plaquées ou traitées thermiquement après usinage
- Le point en spirale force les copeaux devant le taraud - conçu pour les applications à trou traversant
- Convient pour divers aciers (jusqu'à 32Rc) et acier inoxydable
- Le traitement de surface de l'oxyde ferreux augmente la résistance à l'usure, améliore l'écoulement des copeaux et réduit le soudage des copeaux
- Le traitement de surface de l'oxyde ferreux permet également au taraud d'absorber le lubrifiant / fluide de coupe

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT72206	6-32 NC	11/16	2"	0.141	2
CT72208	8-32 NC	3/4	2-1/8	0.168	2
CT72210	10-24 NC	11/16	2-3/8	0.194	2
CT72310	10-32 NF	11/16	2-3/8	0.194	2
CT72704	1/4-20 NC	13/16	2-1/2	0.255	2
CT72804	1/4-28 NF	13/16	2-1/2	0.255	2
CT72705	5/16-18 NC	7/8	2-23/32	0.318	3
CT72805	5/16-24 NF	7/8	2-23/32	0.318	3
CT72706	3/8-16 NC	1"	2-15/16	0.381	3
CT72806	3/8-24 NF	1"	2-15/16	0.381	3
CT72707	7/16-14 NC	1-1/16	3-5/32	0.323	3
CT72807	7/16-20 NF	1-1/16	3-5/32	0.323	3

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT72708	1/2-13 NC	1-3/16	3-3/8	0.367	3
CT72808	1/2-20 NF	1-3/16	3-3/8	0.367	3
CT72709	9/16-12 NC	1-3/16	3-19/32	0.429	3
CT72809	9/16-18 NF	1-3/16	3-19/32	0.429	3
CT72710	5/8-11 NC	1-3/8	3-13/16	0.480	3
CT72810	5/8-18 NF	1-3/8	3-13/16	0.480	3
CT72712	3/4-10 NC	1-7/16	4-1/4	0.590	3
CT72812	3/4-16 NF	1-7/16	4-1/4	0.590	3
CT72714	7/8-9 NC	1-5/8	4-11/16	0.697	3
CT72814	7/8-14 NF	1-5/8	4-11/16	0.697	3
CT72716	1"-8 NC	1-3/4	5-1/8	0.800	4
CT72816	1"-12 NF	1-3/4	5-1/8	0.800	4



Spiral Point Taps - CT71

Blue Wizard Spiral Point Machine Taps Metric

- HSS
- Designed to produce a 6H Class of Fit
- Spiral point forces the chips ahead of the tap – designed for through hole applications
- Suitable for various steels (up to 32Rc) and stainless steel
- Ferrous Oxide surface treatment increases wear resistance, improves chip flow and reduces chip welding
- The Ferrous Oxide surface treatment also enables the tap to absorb the lubricant / cutting fluid

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
METRIC COARSE					
CT71020	M2.0 X 0.40	8.0	41.0	2.50	3
CT71025	M2.5 X 0.45	9.5	44.5	2.80	3
CT71030	M3.0 X 0.50	15.0	48.0	3.15	3
CT71035	M3.5 X 0.60	17.0	50.0	3.55	3
CT71040	M4.0 X 0.70	17.0	53.0	4.00	3
CT71045	M4.5 X 0.75	17.0	53.0	4.50	3
CT71050	M5.0 X 0.80	16.0	58.0	5.00	3
CT71060	M6.0 X 1.00	19.0	66.0	6.30	3
CT71070	M7.0 X 1.00	19.0	66.0	7.10	3
CT71080	M8.0 X 1.25	22.0	72.0	8.00	3
CT71100	M10.0 X 1.50	24.0	80.0	10.00	3
CT71120	M12.0 X 1.75	29.0	89.0	9.00	3
CT71140	M14.0 X 2.00	30.0	95.0	11.20	3
CT71160	M16.0 X 2.00	32.0	102.0	12.50	3
CT71180	M18.0 X 2.50	37.0	112.0	14.00	3
CT71200	M20.0 X 2.50	37.0	112.0	14.00	3
CT71220	M22.0 X 2.50	38.0	118.0	16.00	3
CT71240	M24.0 X 3.00	45.0	130.0	18.00	3

Tarauds A Machine Blue Wizard Entrée En Helice Metrique

- HSS
- Conçu pour produire une classe d'ajustement 6H
- Le point en spirale force les copeaux devant le taraud - conçu pour les applications à trou traversant
- Convient pour divers aciers (jusqu'à 32Rc) et acier inoxydable
- Le traitement de surface de l'oxyde ferreux augmente la résistance à l'usure, améliore l'écoulement des copeaux et réduit le soudage des copeaux
- Le traitement de surface de l'oxyde ferreux permet également au taraud d'absorber le lubrifiant / fluide de coupe

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
METRIC FINE					
CT71540	MF4.0 X 0.50	17.0	53.0	4.00	3
CT71550	MF5.0 X 0.50	16.0	58.0	5.00	3
CT71560	MF6.0 X 0.75	19.0	66.0	6.30	3
CT71580	MF8.0 X 1.00	22.0	72.0	8.10	3
CT71600	MF10.0 X 1.00	24.0	80.0	10.00	3
CT71800	MF10.0 X 1.25	24.0	80.0	10.00	3
CT71620	MF12.0 X 1.25	29.0	89.0	9.00	3
CT71820	MF12.0 X 1.50	29.0	89.0	9.00	3
CT71640	MF14.0 X 1.25	30.0	95.0	11.20	3
CT71840	MF14.0 X 1.50	30.0	95.0	11.20	3
CT71660	MF16.0 X 1.50	32.0	102.0	12.50	3
CT71680	MF18.0 X 1.50	37.0	112.0	14.00	3
CT71700	MF20.0 X 1.50	37.0	112.0	14.00	3
CT71720	MF22.0 X 1.50	38.0	118.0	16.00	3



Spiral Point Taps - CT81

Blue Wizard Spiral Point Machine Tap BSW, BSF & BA

- HSS
- BSW (British Standard Whitworth) is similar to UNC but differs in that the thread form for a BSW is 55° vs the 60° for UNC
- BSF (British Standard Fine) is a finer pitch series, also with a 55° Thread Form
- BA (British Association) is a metric thread system devised by the British for small screws used in components with a Thread Form of 47 ½°
- Spiral point forces the chips ahead of the tap – designed for through hole applications
- Suitable for various steels (up to 32Rc) and stainless steel
- Ferrous Oxide surface treatment increases wear resistance, improves chip flow and reduces chip welding
- The Ferrous Oxide surface treatment also enables the tap to absorb the lubricant / cutting fluid

Tarauds A Machine Blue Wizard Entrée En Helice - BSW, BSF & BA

- HSS
- BSW (British Standard Whitworth) est similaire à UNC mais diffère en ce que la forme du filetage pour un BSW est de 55° contre 60° pour UNC
- BSF (British Standard Fine) est une série à pas plus fin, également avec une forme de filetage à 55°
- BA (British Association) est un système de filetage métrique conçu par les Britanniques pour les petites vis utilisées dans les composants avec une forme de filetage de 47 ½°
- Le point en spirale force les copeaux devant le taraud - conçu pour les applications à trou traversant
- Convient pour divers aciers (jusqu'à 32Rc) et acier inoxydable
- Le traitement de surface de l'oxyde ferreux augmente la résistance à l'usure, améliore l'écoulement des copeaux et réduit le soudage des copeaux
- Le traitement de surface de l'oxyde ferreux permet également au taraud d'absorber le lubrifiant / fluide de coupe

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
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BSW

CT81008	1/8-40 BSW	15.0	48.0	3.15	3
CT81012	3/16-24 BSW	16.0	58.0	5.00	3
CT81016	1/4-20 BSW	19.0	66.0	6.30	3
CT81020	5/16-18 BSW	22.0	72.0	8.00	3
CT81024	3/8-16 BSW	24.0	80.0	10.00	3
CT81028	7/16-14 BSW	25.0	85.0	8.00	3
CT81032	1/2-12 BSW	29.0	89.0	9.00	3
CT81036	9/16-12 BSW	30.0	95.0	11.20	3
CT81040	5/8-11 BSW	32.0	102.0	12.50	3
CT81048	3/4-10 BSW	37.0	112.0	14.00	3
CT81056	7/8-9 BSW	38.0	118.0	16.00	3
CT81064	1"-8 BSW	45.0	130.0	18.00	3

BA

CT81410	10 X 0.35 BA	8.0	41.0	2.50	3
CT81408	8 X 0.43 BA	9.5	44.5	2.80	3
CT81407	7 X 0.48 BA	9.5	44.5	2.80	3
CT81406	6 X 0.53 BA	9.5	44.5	2.80	3
CT81405	5 X 0.59 BA	15.0	48.0	3.15	3
CT81404	4 X 0.66 BA	17.0	50.0	3.55	3

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
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BSF

CT81212	3/16-32 BSF	16.0	58.0	5.00	3
CT81216	1/4-26 BSF	19.0	66.0	6.30	3
CT81220	5/16-22 BSF	22.0	72.0	8.00	3
CT81224	3/8-20 BSF	24.0	80.0	10.00	3
CT81228	7/16-18 BSF	25.0	85.0	8.00	3
CT81232	1/2-16 BSF	29.0	89.0	9.00	3
CT81236	9/16-16 BSF	30.0	95.0	11.20	3
CT81240	5/8-14 BSF	32.0	102.0	12.50	3
CT81248	3/4-12 BSF	37.0	112.0	14.00	3
CT81256	7/8-11 BSF	38.0	118.0	16.00	3
CT81264	1"-10 BSF	45.0	130.0	18.00	3

CT81403	3 X 0.73 BA	17.0	53.0	4.50	3
CT81402	2 X 0.81 BA	16.0	58.0	5.00	3
CT81401	1 X 0.90 BA	17.0	62.0	5.60	3
CT81400	0 X 1.00 BA	19.0	66.0	6.30	3



Spiral Point Extension Taps - CT68

Blue Wizard Spiral Point Extension Taps Fractional

- HSS
- Designed to produce a 2B Class of Fit
- Longer Overall Length (4 – 6" depending on size)
- Available as a "Pulley" style where the shank diameter is not reduced or an "Extension" style with reduced shank
- Spiral point forces the chips ahead of the tap – designed for through hole applications
- Suitable for various steels (up to 32Rc) and stainless steel
- Ferrous Oxide surface treatment increases wear resistance, improves chip flow and reduces chip welding
- The Ferrous Oxide surface treatment also enables the tap to absorb the lubricant / cutting fluid

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
PULLEY					
CT68006	6-32 NC	11/16	4"	0.141	2
CT68206	6-32 NC	11/16	6"	0.141	2
CT68008	8-32 NC	3/4	4"	0.168	2
CT68208	8-32 NC	3/4	6"	0.168	2
CT68010	10-24 NC	7/8	4"	0.194	2
CT68210	10-24 NC	7/8	6"	0.194	2
CT68110	10-32 NF	7/8	4"	0.194	2
CT68310	10-32 NF	7/8	6"	0.194	2
CT68016	1/4-20 NC	1"	4"	0.255	2
CT68216	1/4-20 NC	1"	6"	0.255	2
CT68316	1/4-28 NF	1"	6"	0.255	2
CT68020	5/16-18 NC	1-1/8	4"	0.318	2
CT68220	5/16-18 NC	1-1/8	6"	0.318	2
CT68320	5/16-24 NF	1-1/8	6"	0.318	2
CT68024	3/8-16 NC	1-1/4	4"	0.381	3
CT68224	3/8-16 NC	1-1/4	6"	0.381	3
CT68324	3/8-24 NF	1-1/4	6"	0.381	3

Tarauds Extra Longue A Machine Wizard Fractionnel

- HSS
- Conçu pour produire une classe d'ajustement 2B
- Longueur totale plus longue (4 - 6" selon la taille)
- Disponible en style «Poulie» où le diamètre de tige n'est pas réduit ou en style «Extension» avec tige réduite
- Le point en spirale force les copeaux devant le taraud - conçu pour les applications à trou traversant
- Convient pour divers aciers (jusqu'à 32Rc) et acier inoxydable
- Le traitement de surface de l'oxyde ferreux augmente la résistance à l'usure, améliore l'écoulement des copeaux et réduit le soudage des copeaux
- Le traitement de surface de l'oxyde ferreux permet également au taraud d'absorber le lubrifiant / fluide de coupe

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
EXTENSION					
CT68106	6-32 NC	11/16	6"	0.097	2
CT68108	8-32 NC	3/4	6"	0.123	2
CT68510	10-24 NC	7/8	6"	0.134	2
CT68410	10-32 NF	7/8	6"	0.134	2
CT68116	1/4-20 NC	1"	6"	0.185	2
CT68416	1/4-28 NF	1"	6"	0.185	2
CT68120	5/16-18 NC	1-1/8	6"	0.240	2
CT68420	5/16-24 NF	1-1/8	6"	0.240	2
CT68124	3/8-16 NC	1-1/4	6"	0.275	3
CT68228	7/16-14 NC	1-7/16	6"	0.323	3
CT68328	7/16-20 NF	1-7/16	6"	0.323	3
CT68232	1/2-13 NC	1-21/32	6"	0.367	3
CT68332	1/2-20 NF	1-21/32	6"	0.367	3



Spiral Point Taps Bright Finish - CT77

Bright Wizard Spiral Point Machine Taps Fractional & Metric

- HSS
- Designed to produce a 2B Class of Fit
- Spiral point forces the chips ahead of the tap – designed for through hole applications
- Bright Finish for tapping a wide range of materials but best suited for Non-Ferrous materials such as Aluminum
- The untreated surface on this tap gives lower friction and good chip flow for softer materials

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
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FRACTIONAL/FRACTIONNEL

CT77100	0-80 NF	3/8	1-5/8	0.141	2
CT77001	1-64 NC	7/16	1-11/16	0.141	2
CT77101	1-72 NF	7/16	1-11/16	0.141	2
CT77002	2-56 NC	1/2	1-3/4	0.141	2
CT77102	2-64 NF	1/2	1-3/4	0.141	2
CT77003	3-48 NC	9/16	1-13/16	0.141	2
CT77103	3-56 NF	9/16	1-13/16	0.141	2
CT77004	4-40 NC	5/8	1-7/8	0.141	2
CT77104	4-48 NF	5/8	1-7/8	0.141	2
CT77005	5-40 NC	11/16	1-15/16	0.141	2
CT77105	5-44 NF	11/16	1-15/16	0.141	2
CT77006	6-32 NC	11/16	2"	0.141	2
CT77106	6-40 NF	11/16	2"	0.141	2
CT77008	8-32NC	3/4	2-1/8	0.168	2
CT77108	8-36NF	3/4	2-1/8	0.168	2
CT77010	10-24NC	11/16	2-3/8	0.194	2
CT77110	10-32 NF	11/16	2-3/8	0.194	2
CT77012	12-24 NC	11/16	2-3/8	0.220	2
CT77120	12-28 NF	11/16	2-3/8	0.220	2
CT77404	1/4-20 NC	13/16	2-1/2	0.255	2
CT77504	1/4-28 NF	13/16	2-1/2	0.255	2
CT77405	5/16-18 NC	7/8	2-23/32	0.318	3
CT77505	5/16-24 NF	7/8	2-23/32	0.318	3
CT77406	3/8-16 NC	1"	2-15/16	0.381	3
CT77506	3/8-24 NF	1"	2-15/16	0.381	3
CT77407	7/16-14 NC	1-1/16	3-5/32	0.323	3
CT77507	7/16-20 NF	1-1/16	3-5/32	0.323	3
CT77408	1/2-13 NC	1-3/16	3-3/8	0.367	3
CT77508	1/2-20 NF	1-3/16	3-3/8	0.367	3
CT77409	9/16-12 NC	1-3/16	3-19/32	0.429	3

Tarauds A Machine Bright Wizard - Entrée En Helice Fractionnel & Metrique

- HSS
- Conçu pour produire une classe d'ajustement 2B
- Le point en spirale force les copeaux devant le taraud - conçu pour les applications à trou traversant
- Finition brillante pour tarauder une large gamme de matériaux, mais mieux adaptée aux matériaux non ferreux tels que l'aluminium
- La surface non traitée de ce taraud offre une friction plus faible et un bon écoulement des copeaux pour les matériaux plus tendre

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
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CT77509	9/16-18 NF	1-3/16	3-19/32	0.429	3
CT77410	5/8-11 NC	1-3/8	3-13/16	0.480	3
CT77510	5/8-18 NF	1-3/8	3-13/16	0.480	3
CT77412	3/4-10 NC	1-7/16	4-1/4	0.590	3
CT77512	3/4-16 NF	1-7/16	4-1/4	0.590	3
CT77414	7/8-9 NC	1-5/8	4-11/16	0.697	3
CT77514	7/8-14 NF	1-5/8	4-11/16	0.697	3
CT77416	1" - 8 NC	1-3/4	5-1/8	0.800	4
CT77516	1" - 12 NF	1-3/4	5-1/8	0.800	4

METRIC/METRIQUE

CT77720	M2.0 X 0.40	8.0	41.0	2.50	3
CT77725	M2.5 X 0.45	9.5	44.5	2.80	3
CT77730	M3.0 X 0.50	15.0	48.0	3.15	3
CT77735	M3.5 X 0.60	17.0	50.0	3.55	3
CT77740	M4.0 X 0.70	17.0	53.0	4.00	3
CT77745	M4.5 X 0.75	17.0	53.0	4.50	3
CT77750	M5.0 X 0.80	16.0	58.0	5.00	3
CT77760	M6.0 X 1.00	19.0	66.0	6.30	3
CT77770	M7.0 X 1.00	19.0	66.0	7.10	3
CT77780	M8.0 X 1.25	22.0	72.0	8.00	3
CT77800	M10.0 X 1.50	24.0	80.0	10.00	3
CT77820	M12.0 X 1.75	29.0	89.0	9.00	3
CT77840	M14.0 X 2.00	30.0	95.0	11.20	3
CT77860	M16.0 X 2.00	32.0	102.0	12.50	3
CT77880	M18.0 X 2.50	37.0	112.0	14.00	3
CT77900	M20.0 X 2.50	37.0	112.0	14.00	3
CT77920	M22.0 X 2.50	38.0	118.0	16.00	3
CT77940	M24.0 X 3.00	45.0	130.0	18.00	3



Spiral Point Taps Bright Finish - CT81

Bright Wizard Spiral Point Machine Tap BSW, BSF & BA

- HSS
- BSW (British Standard Whitworth) is similar to UNC but differs in that the thread form for a BSW is 55° vs the 60° for UNC
- BSF (British Standard Fine) is a finer pitch series, also with a 55° Thread Form
- BA (British Association) is a metric thread system devised by the British for small screws used in components with a Thread Form of 47 ½°
- Spiral point forces the chips ahead of the tap – designed for through hole applications
- Bright Finish for tapping a wide range of materials but best suited for Non-Ferrous materials such as Aluminum
- The untreated surface on this tap gives lower friction and good chip flow for softer materials

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
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BSW

CT81108	1/8-40 BSW	15.0	48.0	3.15	3
CT81112	3/16-24 BSW	16.0	58.0	5.00	3
CT81116	1/4-20 BSW	19.0	66.0	6.30	3
CT81120	5/16-18 BSW	22.0	72.0	8.00	3
CT81124	3/8-16 BSW	24.0	80.0	10.0	3
CT81128	7/16-14 BSW	25.0	85.0	8.00	3
CT81132	1/2-12 BSW	29.0	89.0	9.00	3

BSF

CT81312	3/16-32 BSF	16.0	58.0	5.00	3
CT81316	1/4-26 BSF	19.0	66.0	6.30	3
CT81320	5/16-22 BSF	22.0	72.0	8.00	3
CT81324	3/8-20 BSF	24.0	80.0	10.00	3
CT81328	7/16-18 BSF	25.0	85.0	8.00	3
CT81332	1/2-16 BSF	29.0	89.0	9.00	3
CT81336	9/16-16 BSF	30.0	95.0	11.20	3
CT81340	5/8-14 BSF	32.0	102.0	12.50	3
CT81348	3/4-12 BSF	37.0	112.0	14.00	3
CT81356	7/8-11 BSF	38.0	118.0	16.00	3
CT81364	1"-10 BSF	45.0	130.0	18.00	3

Tarauds A Machine Bright Wizard - Entrée En Helice - BSW, BSF & BA

- HSS
- BSW (British Standard Whitworth) est similaire à UNC mais diffère en ce que la forme du filetage pour un BSW est de 55° contre 60° pour UNC
- BSF (British Standard Fine) est une série à pas plus fin, également avec une forme de filetage à 55°
- BA (British Association) est un système de filetage métrique conçu par les Britanniques pour les petites vis utilisées dans les composants avec une forme de filetage de 47 ½°
- Le point en spirale force les copeaux devant le taraud - conçu pour les applications à trou traversant
- Finition brillante pour tarauder une large gamme de matériaux, mais mieux adaptée aux matériaux non ferreux tels que l'aluminium
- La surface non traitée de ce taraud offre une friction plus faible et un bon écoulement des copeaux pour les matériaux plus tendres

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
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BA

CT81500	0 X 1.00 BA	19.0	66.0	6.30	3
CT81501	1 X 0.90 BA	17.0	62.0	5.60	3
CT81502	2 X 0.81 BA	16.0	58.0	5.00	3
CT81503	3 X 0.73 BA	17.0	53.0	4.50	3
CT81505	5 X 0.59 BA	15.0	48.0	3.15	3
CT81506	6 X 0.53 BA	9.5	44.5	2.80	3
CT81507	7 X 0.48 BA	9.5	44.5	2.80	3
CT81508	8 X 0.43 BA	9.5	44.5	2.80	3
CT81510	10 X 0.35 BA	8.0	41.0	2.50	3



Spiral Point Taps - TiN Coated CT79 • CT78

Gold Wizard Spiral Point Machine Taps Fractional & Metric

- HSS
- Designed to produce a 2B Class of Fit (UNC/UNF) or 6H Class of Fit (Metric)
- Spiral point forces the chips ahead of the tap – designed for through hole applications
- Suitable for various steels (up to 35Rc) and stainless steel – not recommended for Aluminum and other non-ferrous materials
- The Titanium Nitride (TiN) surface treatment has very low frictional properties and high surface hardness which significantly increases the tap wear resistance

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
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FRACTIONAL/FRACTIONNEL

CT79100	0-80 NF	3/8	1-5/8	0.141	2
CT79001	1-64 NC	7/16	1-11/16	0.141	2
CT79101	1-72 NF	7/16	1-11/16	0.141	2
CT79002	2-56 NC	1/2	1-3/4	0.141	2
CT79102	2-64 NF	1/2	1-3/4	0.141	2
CT79003	3-48 NC	9/16	1-13/16	0.141	2
CT79103	3-56 NF	9/16	1-13/16	0.141	2
CT79004	4-40 NC	5/8	1-7/8	0.141	2
CT79104	4-48 NF	5/8	1-7/8	0.141	2
CT79005	5-40 NC	11/16	1-15/16	0.141	2
CT79105	5-44 NF	11/16	1-15/16	0.141	2
CT79006	6-32 NC	11/16	2"	0.141	2
CT79106	6-40 NF	11/16	2"	0.141	2
CT79008	8-32 NC	3/4	2-1/8	0.168	2
CT79108	8-36 NF	3/4	2-1/8	0.168	2
CT79010	10-24 NC	11/16	2-3/8	0.194	2
CT79110	10-32 NF	11/16	2-3/8	0.194	2
CT79012	12-24 NC	11/16	2-3/8	0.220	2
CT79120	12-28 NF	11/16	2-3/8	0.220	2
CT79404	1/4-20 NC	13/16	2-1/2	0.255	2
CT79504	1/4-28 NF	13/16	2-1/2	0.255	2
CT79405	5/16-18 NC	7/8	2-23/32	0.318	3
CT79505	5/16-24 NF	7/8	2-23/32	0.318	3
CT79406	3/8-16 NC	1"	2-15/16	0.381	3
CT79506	3/8-24 NF	1"	2-15/16	0.381	3
CT79407	7/16-14 NC	1-1/16	3-5/32	0.323	3
CT79507	7/16-20 NF	1-1/16	3-5/32	0.323	3
CT79408	1/2-13 NC	1-3/16	3-3/8	0.367	3
CT79508	1/2-20 NF	1-3/16	3-3/8	0.367	3
CT79409	9/16-12 NC	1-3/16	3-19/32	0.429	3

Tarauds A Machine Gold Wizard - Entrée En Helice Fractionnel & Metrique

- HSS
- Conçu pour produire une classe d'ajustement 2B (UNC/UNF) ou 6H (Metric)
- La pointe en spirale force les copeaux devant le taraud - conçu pour les applications à trou traversant
- Convient pour divers aciers (jusqu'à 35Rc) et acier inoxydable - déconseillé pour l'aluminium et autres matériaux non ferreux
- Le traitement de surface en nitrure de titane (TiN) confère des propriétés de friction très faibles et une dureté de surface élevée, ce qui augmente considérablement la résistance à l'usure du taraud

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
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CT79509	9/16-18 NF	1-3/16	3-19/32	0.429	3
CT79410	5/8-11 NC	1-3/8	3-13/16	0.480	3
CT79510	5/8-18 NF	1-3/8	3-13/16	0.480	3
CT79412	3/4-10 NC	1-7/16	4-1/4	0.590	3
CT79512	3/4-16 NF	1-7/16	4-1/4	0.590	3
CT79414	7/8-9 NC	1-5/8	4-11/16	0.697	3
CT79514	7/8-14 NF	1-5/8	4-11/16	0.697	3
CT79416	1"-8 NC	1-3/4	5-1/8	0.800	4
CT79516	1"-12 NF	1-3/4	5-1/8	0.800	4

METRIC/METRIQUE

CT78020	M2.0 X 0.40	8.0	41.0	2.50	3
CT78025	M2.5 X 0.45	9.5	44.5	2.80	3
CT78030	M3.0 X 0.50	15.0	48.0	3.15	3
CT78035	M3.5 X 0.60	17.0	50.0	3.55	3
CT78040	M4.0 X 0.70	17.0	53.0	4.00	3
CT78045	M4.5 X 0.75	17.0	53.0	4.50	3
CT78050	M5.0 X 0.80	16.0	58.0	5.00	3
CT78060	M6.0 X 1.00	19.0	66.0	6.30	3
CT78070	M7.0 X 1.00	19.0	66.0	7.10	3
CT78080	M8.0 X 1.25	22.0	72.0	8.00	3
CT78100	M10.0 X 1.50	24.0	80.0	10.00	3
CT78120	M12.0 X 1.75	29.0	89.0	9.00	3
CT78140	M14.0 X 2.00	30.0	95.0	11.20	3
CT78160	M16.0 X 2.00	32.0	102.0	12.50	3
CT78180	M18.0 X 2.50	37.0	112.0	14.00	3
CT78200	M20.0 X 2.50	37.0	112.0	14.00	3
CT78220	M22.0 X 2.50	38.0	118.0	16.00	3
CT78240	M24.0 X 3.00	45.0	130.0	18.00	3



Spiral Point Taps - Hard Chrome - CT73

White Wizard Spiral Point Machine Taps Fractional

- HSS
- Designed to produce a 2B Class of Fit
- Spiral point forces the chips ahead of the tap – designed for through hole applications
- The Hard Chrome coating improves chip flow
- The Hard Chrome coating also helps it to withstand extreme pressures which greatly improves tap life when threading abrasive Non-Ferrous materials such as Magnesium

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT73004	4-40 NC	5/8	1-7/8	0.141	2
CT73104	4-48 NF	5/8	1-7/8	0.141	2
CT73005	5-40 NC	11/16	1-15/16	0.141	2
CT73105	5-44 NF	11/16	1-15/16	0.141	2
CT73006	6-32 NC	11/16	2"	0.141	2
CT73106	6-40 NF	11/16	2"	0.141	2
CT73008	8-32 NC	3/4	2-1/8	0.168	2
CT73108	8-36 NF	3/4	2-1/8	0.168	2
CT73010	10-24 NC	11/16	2-3/8	0.194	2
CT73110	10-32 NF	11/16	2-3/8	0.194	2
CT73012	12-24 NC	11/16	2-3/8	0.220	2
CT73120	12-28 NF	11/16	2-3/8	0.220	2
CT73404	1/4-20 NC	13/16	2-1/2	0.255	2
CT73504	1-4-28 NF	13/16	2-1/2	0.255	2
CT73405	5/16-18 NC	7/8	2-23/32	0.318	3
CT73505	5/16-24 NF	7/8	2-23/32	0.318	3

Tarauds A Machine White Wizard - Entrée En Helice Fractionnel

- HSS
- Conçu pour produire une classe d'ajustement 2B
- Le point en spirale force les copeaux devant le taraud - conçu pour les applications à trou traversant
- Le revêtement en chrome dur améliore l'écoulement des copeaux
- Le revêtement en chrome dur lui permet de résister à des pressions extrêmes, ce qui améliore considérablement la durée de vie du taraud lors du filetage de matériaux non ferreux abrasifs tels que le magnésium

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT73406	3/8-16 NC	1"	2-15/16	0.381	3
CT73506	3/8-24 NF	1"	2-15/16	0.381	3
CT73407	7/16-14 NC	1-1/16	3-5/32	0.323	3
CT73507	7/16-20 NF	1-1/16	3-5/32	0.323	3
CT73408	1/2-13 NC	1-3/16	3-3/8	0.367	3
CT73508	1/2-20 NF	1-3/16	3-3/8	0.367	3
CT73409	9/16-12 NC	1-3/16	3-19/32	0.429	3
CT73509	9/16-18 NF	1-3/16	3-19/32	0.429	3
CT73410	5/8-11 NC	1-3/8	3-13/16	0.480	3
CT73510	5/8-18 NF	1-3/8	3-13/16	0.480	3
CT73412	3/4-10 NC	1-7/16	4-1/4	0.590	3
CT73512	3/4-16 NF	1-7/16	4-1/4	0.590	3
CT73414	7/8-9 NC	1-5/8	4-11/16	0.697	3
CT73514	7/8-14 NF	1-5/8	4-11/16	0.697	3
CT73416	1"-8 NC	1-3/4	5-1/8	0.800	4
CT73516	1"-12 NF	1-3/4	5-1/8	0.800	4



Thread Forming Taps CT69 • CT70

Mercury Thread Forming Taps - UNC & UNF, Metric

- HSS
- Designed to produce a 2B Class of Fit (UNC/UNF) or 6H Class of Fit (Metric)
- Plug style
- Bright Finish (TiN & TiALN coatings available)
- Thread Forming (Chipless Taps) create threads through a cold forming process rather than cut the threads – threads produced are stronger than conventional cut threads
- Ideal for Aluminum and other non-ferrous materials as well as mild steel or other ductile materials
- Not recommended for harder materials
- This style of tap does require a larger tap drill size vs conventional cut taps and lubrication is highly recommended

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
UNC/UNF					
CT70004	4-40 UNC	15.0	48.0	3.15	0
CT70005	5-40 UNC	15.0	48.0	3.15	0
CT70006	6-32 UNC	17.0	50.0	3.55	0
CT70008	8-32 UNC	17.0	53.0	4.50	0
CT70010	10-24 UNC	16.0	58.0	5.00	0
CT70210	10-32 UNF	16.0	58.0	5.00	0
CT70404	1/4-20 UNC	19.0	66.0	6.30	0
CT70504	1/4-28 UNF	19.0	66.0	6.30	0
CT70405	5/16-18 UNC	22.0	72.0	8.00	0
CT70505	5/16-24 UNF	22.0	72.0	8.00	0
CT70406	3/8-16 UNC	24.0	80.0	10.00	0
CT70506	3/8-24 UNF	24.0	80.0	10.00	0

Tarauds A Machine Mercury - Sans Goujure UNC & UNF, Metrique

- HSS
- Conçu pour produire une classe d'ajustement 2B (UNC/UNF) ou 6H (Metric)
- Style bouchon
- Finition brillante (revêtements TiN et TiALN disponibles)
- La formation de filets (tarauds sans copeaux) crée des filetages par un processus de formage à froid plutôt que de couper les filetages - les filetages produits sont plus solides que les filetages coupés conventionnels
- Idéal pour l'aluminium et autres matériaux non ferreux ainsi que l'acier doux ou d'autres matériaux ductiles
- Non recommandé pour les matériaux plus durs
- Ce type de taraud nécessite une plus grande taille de foret par rapport aux tarauds à coupe conventionnelle et une lubrification est fortement recommandée

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
METRIC/METRIQUE					
CT69030	M3.0 X 0.50	15.0	48.0	3.15	0
CT69035	M3.5 X 0.60	17.0	50.0	3.55	0
CT69040	M4.0 X 0.70	17.0	53.0	4.00	0
CT69050	M5.0 X 0.80	16.0	58.0	5.00	0
CT69060	M6.0 X 1.00	19.0	66.0	6.30	0
CT69080	M8.0 X 1.25	22.0	72.0	8.00	0
CT69100	M10.0 X 1.50	24.0	80.0	10.00	0
CT69120	M12.0 X 1.75	29.0	89.0	9.00	0



Spiral Flute Taps - CT75

Blue Merlin Spiral Flute Machine Taps Fractional

- HSS
- Designed to produce a 2B Class of Fit
- For general purpose applications
- Helix angle of 30° - 35° depending on size
- Spiral flute taps are designed for blind hole applications and lift chips out of the hole
- Suitable for various steels (up to 28Rc) and some stainless steel
- Ferrous Oxide surface treatment increases wear resistance, improves chip flow and reduces chip welding
- The Ferrous Oxide surface treatment also enables the tap to absorb the lubricant / cutting fluid

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT75004	4-40 NC	5/8	1-7/8	0.141	2
CT75104	4-48 NF	5/8	1-7/8	0.141	2
CT75005	5-40 NC	11/16	1-15/16	0.141	2
CT75105	5-44 NF	11/16	1-15/16	0.141	2
CT75006	6-32 NC	11/16	2"	0.141	3
CT75106	6-40 NF	11/16	2"	0.141	3
CT75008	8-32 NC	3/4	2-1/8	0.168	3
CT75108	8-36 NF	3/4	2-1/8	0.168	3
CT75010	10-24 NC	11/16	2-3/8	0.194	3
CT75310	10-32 NF	11/16	2-3/8	0.194	3
CT75012	12-24 NC	11/16	2-3/8	0.220	3
CT75312	12-28 NF	11/16	2-3/8	0.220	3
CT75404	1/4-20 NC	13/16	2-1/2	0.255	3
CT75704	1/4-28 NF	13/16	2-1/2	0.255	3
CT75405	5/16-18 NC	7/8	2-23/32	0.318	3
CT75705	5/16-24 NF	7/8	2-23/32	0.318	3

Tarauds A Machine Blue Merlin - Goujures Helicoidales - Fractionnel

- HSS
- Conçu pour produire une classe d'ajustement 2B
- Pour des applications générales
- Angle d'hélice de 30° - 35° selon la taille
- Les tarauds pour flûtes hélicoïdales sont conçus pour les applications de trous borgnes et soulèvent les copeaux hors du trou
- Convient pour divers aciers (jusqu'à 28Rc) et certains inox
- Le traitement de surface de l'oxyde ferreux augmente la résistance à l'usure, améliore l'écoulement des copeaux et réduit le soudage des copeaux
- Le traitement de surface de l'oxyde ferreux permet également au taraud d'absorber le lubrifiant / fluide de coupe

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT75406	3/8-16 NC	1"	2-15/16	0.381	3
CT75706	3/8-24 NF	1"	2-15/16	0.381	3
CT75407	7/16-14 NC	1-1/16	3-5/32	0.323	3
CT75707	7/16-20 NF	1-1/16	3-5/32	0.323	3
CT75408	1/2-13 NC	1-3/16	3-3/8	0.367	3
CT75708	1/2-20 NF	1-3/16	3-3/8	0.367	3
CT75409	9/16-12 NC	1-3/16	3-19/32	0.429	3
CT75709	9/16-18 NF	1-3/16	3-19/32	0.429	3
CT75410	5/8-11 NC	1-3/8	3-13/16	0.480	4
CT75710	5/8-18 NF	1-3/8	3-13/16	0.480	4
CT75412	3/4-10 NC	1-7/16	4-1/4	0.590	4
CT75712	3/4-16 NF	1-7/16	4-1/4	0.590	4
CT75414	7/8-9 NC	1-5/8	4-11/16	0.697	4
CT75714	7/8-14 NF	1-5/8	4-11/16	0.697	4
CT75416	1"-8 NC	1-3/4	5-1/8	0.800	4
CT75716	1"-12 NF	1-3/4	5-1/8	0.800	4



Spiral Flute Taps - CT76

Blue Merlin Spiral Flute Machine Taps Metric

- HSS
- Designed to produce a 6H Class of Fit
- For general purpose applications
- Helix angle of 30° - 35° depending on size
- Spiral flute taps are designed for blind hole applications and lift chips out of the hole
- Suitable for various steels (up to 28Rc) and some stainless steel
- Ferrous Oxide surface treatment increases wear resistance, improves chip flow and reduces chip welding
- The Ferrous Oxide surface treatment also enables the tap to absorb the lubricant / cutting fluid

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
METRIC COARSE - METRIQUE					
CT76030	M3.0 X 0.50	15.0	48.0	3.15	2
CT76035	M3.5 X 0.60	17.0	50.0	3.55	3
CT76040	M4.0 X 0.70	17.0	53.0	4.00	3
CT76050	M5.0 X 0.80	16.0	58.0	5.00	3
CT76060	M6.0 X 1.00	19.0	66.0	6.30	3
CT76070	M7.0 X 1.00	19.0	66.0	7.10	3
CT76080	M8.0 X 1.25	22.0	72.0	8.00	3
CT76100	M10.0 X 1.50	24.0	80.0	10.00	3
CT76120	M12.0 X 1.75	29.0	89.0	9.00	3
CT76140	M14.0 X 2.00	30.0	95.0	11.20	3
CT76160	M16.0 X 2.00	32.0	102.0	12.50	4
CT76180	M18.0 X 2.50	37.0	112.0	14.00	4
CT76200	M20.0 X 2.50	37.0	112.0	14.00	4
CT76220	M22.0 X 2.50	38.0	118.0	16.00	4
CT76240	M24.0 X 3.00	45.0	130.0	18.00	4

Tarauds A Machine Blue Merlin - Goujures Helicoidales - Metrique

- HSS
- Conçu pour produire une classe d'ajustement 6H
- Pour des applications générales
- Angle d'hélice de 30° - 35° selon la taille
- Les tarauds pour flûtes hélicoïdales sont conçus pour les applications de trous borgnes et soulèvent les copeaux hors du trou
- Convient pour divers aciers (jusqu'à 28Rc) et certains
- Le traitement de surface de l'oxyde ferreux augmente la résistance à l'usure, améliore l'écoulement des copeaux et réduit le soudage des copeaux
- Le traitement de surface de l'oxyde ferreux permet également au taraud d'absorber le lubrifiant / fluide de coupe

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
METRIC FINE - METRIQUE FIN					
CT76804	MF4.0 X 0.50	17.0	53.0	4.00	3
CT76805	MF5.0 X 0.50	16.0	58.0	5.00	3
CT76806	MF6.0 X 0.75	19.0	66.0	6.30	3
CT76808	MF8.0 X 1.00	22.0	72.0	8.10	3
CT76809	MF10.0 X 1.00	24.0	80.0	10.00	3
CT76810	MF10.0 X 1.25	24.0	80.0	10.00	3
CT76811	MF12.0 X 1.25	29.0	89.0	9.00	3
CT76812	MF12.0 X 1.50	29.0	89.0	9.00	3
CT76813	MF14.0 X 1.25	30.0	95.0	11.20	3
CT76814	MF14.0 X 1.50	30.0	95.0	11.20	3
CT76816	MF16.0 X 1.50	32.0	102.0	12.50	4
CT76818	MF18.0 X 1.50	37.0	112.0	14.00	4
CT76820	MF20.0 X 1.50	37.0	112.0	14.00	4
CT76822	MF22.0 X 1.50	38.0	118.0	16.00	4



Spiral Flute Taps - CT80

Blue Merlin Spiral Flute Machine Tap BSW, BSF & BA

- HSS
- For general purpose applications
- Helix angle of 30° - 35° depending on size
- BSW (British Standard Whitworth) is similar to UNC but differs in that the thread form for a BSW is 55° vs the 60° for UNC
- BSF (British Standard Fine) is a finer pitch series, also with a 55° Thread Form
- BA (British Association) is a metric thread system devised by the British for small screws used in components with a Thread Form of 47 ½°
- Spiral flute taps are designed for blind hole applications and lift chips out of the hole
- Suitable for various steels (up to 28Rc) and some stainless steel
- Ferrous Oxide surface treatment increases wear resistance, improves chip flow and reduces chip welding
- The Ferrous Oxide surface treatment also enables the tap to absorb the lubricant / cutting fluid applications and lift chips out of the hole

Tarauds A Machine Blue Merlin - Goujures Helicoidales - BSW, BSF & BA

- HSS
- Pour des applications générales
- Angle d'hélice de 30° - 35° selon la taille
- BSW (British Standard Whitworth) est similaire à UNC mais diffère en ce que la forme du filetage pour un BSW est de 55° contre 60° pour UNC
- BSF (British Standard Fine) est une série à pas plus fin, également avec une forme de filetage à 55°
- BA (British Association) est un système de filetage métrique conçu par les Britanniques pour les petites vis utilisées dans les composants avec une forme de filetage de 47 ½°
- Les tarauds pour flûtes hélicoïdales sont conçus pour les applications de trous borgnes et soulèvent les copeaux hors du trou
- Convient pour divers aciers (jusqu'à 28Rc) et certains inox
- Le traitement de surface de l'oxyde ferreux augmente la résistance à l'usure, améliore l'écoulement des copeaux et réduit le soudage des copeaux
- Le traitement de surface de l'oxyde ferreux permet également au taraud d'absorber les applications de lubrifiant / fluide de coupe et de retirer les copeaux du trou

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
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BSW

CT80008	1/8-40 BSW	15.0	48.0	3.15	3
CT80012	3/16-24 BSW	16.0	58.0	5.00	3
CT80016	1/4-20 BSW	19.0	66.0	6.30	3
CT80020	5/16-18 BSW	22.0	72.0	8.00	3
CT80024	3/8-16 BSW	24.0	80.0	10.00	3
CT80028	7/16-14 BSW	25.0	85.0	8.00	3
CT80032	1/2-12 BSW	29.0	89.0	9.00	3
CT80040	5/8-11 BSW	32.0	102.0	12.50	4
CT80048	3/4-10 BSW	37.0	112.0	14.00	4

BSF

CT80212	3/16-32 BSF	16.0	58.0	5.00	3
CT80216	1/4-26 BSF	19.0	66.0	6.30	3
CT80220	5/16-22 BSF	22.0	72.0	8.00	3
CT80224	3/8-20 BSF	24.0	80.0	10.00	3
CT80228	7/16-18 BSF	25.0	85.0	8.00	3
CT80232	1/2-16 BSF	29.0	89.0	9.00	3
CT80240	5/8-14 BSF	32.0	102.0	12.50	4
CT80248	3/4-12 BSF	37.0	112.0	14.00	4

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
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BA

CT80410	10 X 0.35 BA	8.0	41.0	2.50	3
CT80408	8 X 0.43 BA	9.5	44.5	2.80	3
CT80406	6 X 0.53 BA	9.5	44.5	2.80	3
CT80405	5 X 0.59 BA	15.0	48.0	3.15	3
CT80404	4 X 0.66 BA	17.0	50.0	3.55	3
CT80403	3 X 0.73 BA	17.0	53.0	4.50	3
CT80402	2 X 0.81 BA	16.0	58.0	5.00	3
CT80401	1 X 0.90 BA	17.0	62.0	5.60	3
CT80400	0 X 1.00 BA	19.0	66.0	6.30	3



Spiral Flute Taps Bright Finish - CT75 • CT76

Bright Merlin Spiral Flute Machine Taps Fractional & Metric

- HSS
- Designed to produce a 2B Class of Fit (UNC/UNF) or 6H class of Fit (Metric)
- For general purpose applications
- Helix angle of 30° - 35° depending on size
- Spiral flute taps are designed for blind hole applications and lift chips out of the hole
- Bright Finish for tapping a wide range of materials but best suited for Non-Ferrous materials such as Aluminum
- The untreated surface on this tap gives lower friction and good chip flow for softer materials

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
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FRACTIONAL/FRACTIONNEL

CT75804	4-40 NC	5/8	1-7/8	0.141	2
CT75904	4-48 NF	5/8	1-7/8	0.141	2
CT75805	5-40 NC	11/16	1-15/16	0.141	2
CT75905	5-44 NF	11/16	1-15/16	0.141	2
CT75806	6-32 NC	11/16	2"	0.141	3
CT75906	6-40 NF	11/16	2"	0.141	3
CT75808	8-32 NC	3/4	2-1/8	0.168	3
CT75908	8-36 NF	3/4	2-1/8	0.168	3
CT75810	10-24 NC	11/16	2-3/8	0.194	3
CT75910	10-32 NF	11/16	2-3/8	0.194	3
CT75812	12-24 NC	11/16	2-3/8	0.220	3
CT75912	12-28 NF	11/16	2-3/8	0.220	3
CT75504	1/4-20 NC	13/16	2-1/2	0.255	3
CT75604	1/4-28 NF	13/16	2-1/2	0.255	3
CT75505	5/16-18 NC	7/8	2-23/32	0.318	3
CT75605	5/16-24 NF	7/8	2-23/32	0.318	3
CT75506	3/8-16 NC	1"	2-15/16	0.381	3
CT75606	3/8-24 NF	1"	2-15/16	0.381	3
CT75507	7/16-14 NC	1-1/16	3-5/32	0.323	3
CT75607	7/16-20 NF	1-1/16	3-5/32	0.323	3
CT75508	1/2-13 NC	1-3/16	3-3/8	0.367	3
CT75608	1/2-20 NF	1-3/16	3-3/8	0.367	3
CT75509	9/16-12 NC	1-3/16	3-19/32	0.429	3
CT75609	9/16-18 NF	1-3/16	3-19/32	0.429	3
CT75510	5/8-11 NC	1-3/8	3-13/16	0.480	4
CT75610	5/8-18 NF	1-3/8	3-13/16	0.480	4

Tarauds A Machine Bright Merlin Goujures Helicoidales - Fractionnel & Metrique

- HSS
- Conçu pour produire une classe d'ajustement 2B (UNC/UNF) ou 6H (Metric)
- Pour des applications générales
- Angle d'hélice de 30° - 35° selon la taille
- Les tarauds pour flûtes hélicoïdales sont conçus pour les applications de trous borgnes et soulèvent les copeaux hors du trou
- Finition brillante pour tarauder une large gamme de matériaux, mais mieux adaptée aux matériaux non ferreux tels que l'aluminium
- La surface non traitée de ce taraud offre une friction plus faible et un bon écoulement des copeaux pour les matériaux plus tendres

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
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CT75512	3/4-10 NC	1-7/16	4-1/4	0.590	4
CT75612	3/4-16 NF	1-7/16	4-1/4	0.590	4
CT75514	7/8-9 NC	1-5/8	4-11/16	0.697	4
CT75614	7/8-14 NF	1-5/8	4-11/16	0.697	4
CT75516	1"-8 NC	1-3/4	5-1/8	0.800	4
CT75616	1"-12 NF	1-3/4	5-1/8	0.800	4

METRIC/METRIQUE

CT76530	M3.0 X 0.5015.0	48.0	3.15	3
CT76535	M3.5 X 0.6017.0	50.0	3.55	3
CT76540	M4.0 X 0.7017.0	53.0	4.00	3
CT76550	M5.0 X 0.8016.0	58.0	5.00	3
CT76560	M6.0 X 1.0019.0	66.0	6.30	3
CT76570	M7.0 X 1.0019.0	66.0	7.10	3
CT76580	M8.0 X 1.2522.0	72.0	8.00	3
CT76600	M10.0 X 1.5024.0	80.0	10.00	3
CT76620	M12.0 X 1.7529.0	89.0	9.00	3
CT76640	M14.0 X 2.0030.0	95.0	11.20	3
CT76660	M16.0 X 2.0032.0	102.0	12.50	4
CT76680	M18.0 X 2.5037.0	112.0	14.00	4
CT76700	M20.0 X 2.5037.0	112.0	14.00	4
CT76720	M22.0 X 2.5038.0	118.0	16.00	4
CT76740	M24.0 X 3.0045.0	130.0	18.00	4



Spiral Flute Taps - Bright Finish - CT80

Bright Merlin Spiral Flute Machine Tap BSW, BSF & BA

- HSS
- For general purpose applications
- Helix angle of 30° - 35° depending on size
- BSW (British Standard Whitworth) is similar to UNC but differs in that the thread form for a BSW is 55° vs the 60° for UNC
- BSF (British Standard Fine) is a finer pitch series, also with a 55° Thread Form
- BA (British Association) is a metric thread system devised by the British for small screws used in components with a Thread Form of 47 ½°
- Spiral flute taps are designed for blind hole applications and lift chips out of the hole
- Bright Finish for tapping a wide range of materials but best suited for Non-Ferrous materials such as Aluminum
- The untreated surface on this tap gives lower friction and good chip flow for softer materials

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
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BSW

CT80108	1/8-40 BSW	15.0	48.0	3.15	3
CT80112	3/16-24 BSW	16.0	58.0	5.00	3
CT80116	1/4-20 BSW	19.0	66.0	6.30	3
CT80120	5/16-18 BSW	22.0	72.0	8.00	3
CT80124	3/8-16 BSW	24.0	80.0	10.00	3
CT80128	7/16-14 BSW	25.0	85.0	8.00	3
CT80132	1/2-12 BSW	29.0	89.0	9.00	3
CT80140	5/8-11 BSW	32.0	102.0	12.50	4
CT80148	3/4-10 BSW	37.0	112.0	14.00	4

BSF

CT80312	3/16-32 BSF	16.0	58.0	5.00	3
CT80316	1/4-26 BSF	19.0	66.0	6.30	3
CT80320	5/16-22 BSF	22.0	72.0	8.00	3
CT80324	3/8-20 BSF	24.0	80.0	10.00	3
CT80328	7/16-18 BSF	25.0	85.0	8.00	3
CT80332	1/2-16 BSF	29.0	89.0	9.00	3
CT80340	5/8-14 BSF	32.0	102.0	12.50	4
CT80348	3/4-12 BSF	37.0	112.0	14.00	4

Tarauds A Machine Bright Merlin Goujures Helicoidales - BSW, BSF & BA

- HSS
- Pour des applications générales
- Angle d'hélice de 30° - 35° selon la taille
- BSW (British Standard Whitworth) est similaire à UNC mais diffère en ce que la forme du filetage pour un BSW est de 55° contre 60° pour UNC
- BSF (British Standard Fine) est une série à pas plus fin, également avec une forme de filetage à 55°
- BA (British Association) est un système de filetage métrique conçu par les Britanniques pour les petites vis utilisées dans les composants avec une forme de filetage de 47 ½°
- Les tarauds pour flûtes hélicoïdales sont conçus pour les applications de trous borgnes et soulèvent les copeaux hors du trou
- Finition brillante pour tarauder une large gamme de matériaux, mais mieux adaptée aux matériaux non ferreux tels que l'aluminium
- La surface non traitée de ce taraud offre une friction plus faible et un bon écoulement des copeaux pour les matériaux plus tendres

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
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BA

CT80510	10 X 0.35 BA	8.0	41.0	2.50	3
CT80508	8 X 0.43 BA	9.5	44.5	2.80	3
CT80506	6 X 0.53 BA	9.5	44.5	2.80	3
CT80505	5 X 0.59 BA	15.0	48.0	3.15	3
CT80504	4 X 0.66 BA	17.0	50.0	3.55	3
CT80503	3 X 0.73 BA	17.0	53.0	4.50	3
CT80502	2 X 0.81 BA	16.0	58.0	5.00	3
CT80501	1 X 0.90 BA	17.0	62.0	5.60	3
CT80500	0 X 1.00 BA	19.0	66.0	6.30	3



Spiral Point Taps - Red Ring CT52

Application Specific Taps - Red Ring Fractional

- HSSE - for toughness and increased wear resistance
- TiAIN coated - increases wear resistance, improves chip flow and reduces chip welding
- Designed to produce a 2B Class of Fit
- ANSI Shank / ISO Length
- Spiral point forces the chips ahead of the tap – designed for through hole applications
- Designed for high tensile materials such as Tool Steel, High Tensile Steel, Case Hardening Steel

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT52004	4-40 NC	5/8	1-7/8	0.141	3
CT52005	5-40 NC	5/8	1-7/8	0.141	3
CT52006	6-32 NC	11/16	2"	0.141	3
CT52106	6-40 NF	11/16	2"	0.141	3
CT52008	8-32 NC	3/4	2-1/8	0.168	3
CT52010	10-24 NC	11/16	2-3/8	0.194	3
CT52110	10-32 NF	11/16	2-3/8	0.194	3
CT52012	12-24 NC	11/16	2-3/8	0.220	3
CT52404	1/4-20 NC	13/16	2-1/2	0.255	3
CT52504	1/4-28 NF	13/16	2-1/2	0.255	3
CT52405	5/16-18 NC	7/8	2-23/32	0.318	3
CT52505	5/16-24 NF	7/8	2-23/32	0.318	3
CT52406	3/8-16 NC	1"	2-15/16	0.381	4
CT52506	3/8-24 NF	1"	2-15/16	0.381	4
CT52407	7/16-14 NC	1-1/16	3-5/32	0.323	4
CT52507	7/16-20 NF	1-1/16	3-5/32	0.323	4

Tarauds D'Application Special A Bague Rouge - Fractionnel

- HSSE - pour la ténacité et une résistance accrue à l'usure
- TiAIN revêtement augmente la résistance à l'usure, améliore l'écoulement des copeaux et réduit le soudage des copeaux
- Conçu pour produire une classe d'ajustement 2B
- Longueur de tige ANSI / ISO
- Le point en spirale force les copeaux devant le taraud - conçu pour les applications à trou traversant
- Conçu pour les matériaux à haute résistance tels que l'acier à outils, l'acier à haute résistance

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT52408	1/2-13 NC	1-3/16	3-3/8	0.367	4
CT52508	1/2-20 NF	1-3/16	3-3/8	0.367	4
CT52410	5/8-11 NC	1-3/8	3-13/16	0.480	4
CT52510	5/8-18 NF	1-3/8	3-13/16	0.480	4
CT52412	3/4-10 NC	1-7/16	4-1/4	0.590	4
CT52512	3/4-16 NF	1-7/16	4-1/4	0.590	4
CT52414	7/8-9 NC	1-5/8	4-11/16	0.697	4
CT52514	7/8-14 NF	1-5/8	4-11/16	0.697	4
CT52416	1"-8 NC	1-3/4	5-1/8	0.800	4
CT52516	1"-12 NF	1-3/4	5-1/8	0.800	4
CT52418	1-1/8 7 NC	2-9/16	5-7/16	0.896	4
CT52518	1-1/8-12 NF	2-9/16	5-7/16	0.896	4
CT52420	1-1/4 7 NC	2-9/16	5-3/4	1.021	4
CT52520	1-1/4 12 NF	2-9/16	5-3/4	1.021	4
CT52422	1-3/8 6 NC	3"	6-1/16	1.108	4
CT52522	1-3/8 12 NF	3"	6-1/16	1.108	4



Spiral Point Taps - Red Ring CT51

Application Specific Taps - Red Ring Metric

- HSSE - for toughness and increased wear resistance
- TiAIN coated - increases wear resistance, improves chip flow and reduces chip welding
- Designed to produce a 6H Class of Fit
- ANSI Shank / ISO Length
- Spiral point forces the chips ahead of the tap – designed for through hole applications
- Designed for high tensile materials such as Tool Steel, High Tensile Steel, Case Hardening Steel

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT51020	M2.0 X 0.40	8.0	41.0	2.50	3
CT51025	M2.5 X 0.45	9.5	44.5	2.80	3
CT51030	M3.0 X 0.50	11.0	48.0	3.15	3
CT51035	M3.5 X 0.60	13.0	50.0	3.55	3
CT51040	M4.0 X 0.70	13.0	53.0	4.00	3
CT51045	M4.5 X 0.75	13.0	53.0	4.50	3
CT51050	M5.0 X 0.80	16.0	58.0	5.00	3
CT51060	M6.0 X 1.00	19.0	66.0	6.30	3
CT51070	M7.0 X 1.00	19.0	66.0	7.10	3
CT51080	M8.0 X 1.25	22.0	72.0	8.00	3
CT51081	MF8.0 X 1.00	22.0	72.0	8.10	3
CT51100	M10.0 X 1.50	24.0	80.0	10.00	4
CT51101	MF10.0 X 1.25	24.0	80.0	10.00	4
CT51120	M12.0 X 1.75	29.0	89.0	9.00	4
CT51121	MF12.0 X 1.25	29.0	89.0	9.00	4
CT51140	M14.0 X 2.00	30.0	95.0	11.20	4

Tarauds D'Application Special A Bague Rouge - Metrique

- HSSE - pour la ténacité et une résistance accrue à l'usure
- TiAIN revêtement augmente la résistance à l'usure, améliore l'écoulement des copeaux et réduit le soudage des copeaux
- Conçu pour produire une classe d'ajustement 6H
- Longueur de tige ANSI / ISO
- Le point en spirale force les copeaux devant le taraud- conçu pour les applications à trou traversant
- Conçu pour les matériaux à haute résistance tels que l'acier à outils, l'acier à haute résistance

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT51141	MF14.0 X 1.50	30.0	95.0	11.20	4
CT51160	M16.0 X 2.00	32.0	102.0	12.50	4
CT51161	MF16.0 X 1.50	32.0	102.0	12.50	4
CT51180	M18.0 X 2.50	37.0	112.0	14.00	4
CT51181	MF18.0 X 1.50	37.0	112.0	14.00	4
CT51200	M20.0 X 2.50	37.0	112.0	14.00	4
CT51201	MF20.0 X 1.50	37.0	112.0	14.00	4
CT51220	M22.0 X 2.50	38.0	118.0	16.00	4
CT51221	MF22.0 X 1.50	38.0	118.0	16.00	4
CT51240	M24.0 X 3.00	45.0	130.0	18.00	4
CT51241	MF24.0 X 1.50	45.0	130.0	18.00	4
CT51270	M27.0 X 3.00	45.0	135.0	20.00	4
CT51271	MF27.0 X 1.50	45.0	135.0	20.00	4
CT51300	M30.0 X 3.50	48.0	138.0	20.00	4
CT51301	MF30.0 X 1.50	48.0	138.0	20.00	4



Spiral Flute Taps - Red Ring CT54

Application Specific Taps - Red Ring Fractional

- HSSE - for toughness and increased wear resistance
- TiAlN coated - increases wear resistance, improves chip flow and reduces chip welding
- 15° Helix
- Designed to produce a 2B Class of Fit
- Shorter Thread Length for better chip evacuation and reduced contact with workpiece
- ANSI Shank / ISO Length
- Spiral flute taps are designed for blind hole applications and lift chips out of the hole
- Designed for high tensile materials such as Tool Steel, High Tensile Steel, Case Hardening Steel

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT54004	4-40 NC	5/8	1-7/8	0.141	3
CT54006	6-32 NC	11/16	2"	0.141	3
CT54008	8-32 NC	3/4	2-1/8	0.168	3
CT54010	10-24 NC	11/16	2-3/8	0.194	3
CT54110	10-32 NF	11/16	2-3/8	0.194	3
CT54404	1/4-20 NC	13/16	2-1/2	0.255	3
CT54504	1/4-28 NF	13/16	2-1/2	0.255	3
CT54405	5/16-18 NC	7/8	2-23/32	0.318	3
CT54505	5/16-24 NF	7/8	2-23/32	0.318	3
CT54406	3/8-16 NC	1"	2-15/16	0.381	4
CT54506	3/8-24 NF	1"	2-15/16	0.381	4
CT54407	7/16-14 NC	1-1/16	3-5/32	0.323	4
CT54508	1/2-13 NC	1-3/16	3-3/8	0.367	4
CT54408	1/2-20 NF	1-3/16	3-3/8	0.367	4

Tarauds D'Application Special A Bague Rouge - Fractionnel

- HSSE - pour la ténacité et une résistance accrue à l'usure
- TiAlN revêtement augmente la résistance à l'usure, améliore l'écoulement des copeaux et réduit le soudage des copeaux
- Hélice 15 °
- Conçu pour produire une classe d'ajustement 2B
- Longueur de filetage plus courte pour une meilleure évacuation des copeaux et un contact réduit avec la pièce
- Longueur de tige ANSI / ISO
- Les tarauds pour flûtes hélicoïdales sont conçus pour les applications de trous borgnes et soulèvent les copeaux hors du trou
- Conçu pour les matériaux à haute résistance tels que l'acier à haute résistance

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT54410	5/8-11 NC	1-3/8	3-13/16	0.480	4
CT54510	5/8-18 NF	1-3/8	3-13/16	0.480	4
CT54412	3/4-10 NC	1-7/16	4-1/4	0.590	4
CT54512	3/4-16 NF	1-7/16	4-1/4	0.590	4
CT54414	7/8-9 NC	1-5/8	4-11/16	0.697	4
CT54514	7/8-14 NF	1-5/8	4-11/16	0.697	4
CT54416	1"-8 NC	1-3/4	5-1/8	0.800	4
CT54516	1"-12 NF	1-3/4	5-1/8	0.800	4
CT54418	1-1/8 7 NC	2-9/16	5-7/16	0.896	4
CT54518	1-1/8 12 NF	2-9/16	5-7/16	0.896	4
CT54420	1-1/4 7 NC	2-9/16	5-3/4	1.021	4
CT54520	1-1/4 12 NF	2-9/16	5-3/4	1.021	4
CT54422	1-3/8 6 NC	3"	6-1/16	1.108	4
CT54522	1-3/8 12 NF	3"	6-1/16	1.108	4



Spiral Flute Taps - Red Ring CT53

Application Specific Taps - Red Ring Metric

- HSSE - for toughness and increased wear resistance
- TiAlN coated - increases wear resistance, improves chip flow and reduces chip welding
- 15° Helix
- Designed to produce a 6H Class of Fit
- Shorter Thread Length for better chip evacuation and reduced contact with workpiece
- ANSI Shank / ISO Length
- Spiral flute taps are designed for blind hole applications and lift chips out of the hole
- Designed for high tensile materials such as Tool Steel, High Tensile Steel, Case Hardening Steel

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT53030	M3.0 X 0.50	11.0	48.0	3.15	3
CT53035	M3.5 X 0.60	13.0	50.0	3.55	3
CT53040	M4.0 X 0.70	13.0	53.0	4.00	3
CT53050	M5.0 X 0.80	16.0	58.0	5.00	3
CT53060	M6.0 X 1.00	19.0	66.0	6.30	3
CT53070	M7.0 X 1.00	19.0	66.0	7.10	3
CT53080	M8.0 X 1.25	22.0	72.0	8.00	3
CT53081	MF8.0 X 1.00	22.0	72.0	8.10	3
CT53100	M10.0 X 1.50	24.0	80.0	10.00	4
CT53101	MF10.0 X 1.25	24.0	80.0	10.00	4
CT53120	M12.0 X 1.75	29.0	89.0	9.00	4
CT53121	MF12.0 X 1.25	29.0	89.0	9.00	4
CT53140	M14.0 X 2.00	30.0	95.0	11.20	4
CT53141	MF14.0 X 1.50	30.0	95.0	11.20	4

Tarauds D'Application Special A Bague Rouge - Metrique

- HSSE - pour la ténacité et une résistance accrue à l'usure
- TiAlN revêtement augmente la résistance à l'usure, améliore l'écoulement des copeaux et réduit le soudage des copeaux
- Hélice 15 °
- Conçu pour produire une classe d'ajustement 6H
- Longueur de filetage plus courte pour une meilleure évacuation des copeaux et un contact réduit avec la pièce
- Longueur de tige ANSI / ISO
- Les tarauds pour flûtes hélicoïdales sont conçus pour les applications de trous borgnes et soulèvent les copeaux hors du trou
- Conçu pour les matériaux à haute résistance tels que l'acier à outils, l'acier à haute résistance

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT53160	M16.0 X 2.00	32.0	102.0	12.50	4
CT53161	MF16.0 X 1.50	32.0	102.0	12.50	4
CT53180	M18.0 X 2.50	37.0	112.0	14.00	4
CT53181	MF18.0 X 1.50	37.0	112.0	14.00	4
CT53200	M20.0 X 2.50	37.0	112.0	14.00	4
CT53201	MF20.0 X 1.50	37.0	112.0	14.00	4
CT53220	M22.0 X 2.50	38.0	118.0	16.00	4
CT53221	MF22.0 X 1.50	38.0	118.0	16.00	4
CT53240	M24.0 X 3.00	45.0	130.0	18.00	4
CT53241	MF24.0 X 1.50	45.0	130.0	18.00	4
CT53270	M27.0 X 3.00	45.0	135.0	20.00	4
CT53271	MF27.0 X 1.50	45.0	135.0	20.00	4
CT53300	M30.0 X 3.50	48.0	138.0	20.00	4
CT53301	MF30.0 X 1.50	48.0	138.0	20.00	4



Spiral Point Taps - Blue Ring CT56

Application Specific Taps - Blue Ring Fractional

- HSSE - for toughness and increased wear resistance
- TiAlN coated - increases wear resistance, improves chip flow and reduces chip welding
- Designed to produce a 2B Class of Fit
- ANSI Shank / ISO Length
- Spiral point forces the chips ahead of the tap – designed for through hole applications
- Designed for tough materials such as Stainless Steel and Tool Steel up to 38Rc

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT56004	4-40 NC	5/8	1-7/8	0.141	3
CT56006	6-32 NC	11/16	2"	0.141	3
CT56106	6-40 NF	11/16	2"	0.141	3
CT56008	8-32 NC	3/4	2-1/8	0.168	3
CT56010	10-24 NC	11/16	2-3/8	0.194	3
CT56110	10-32 NF	11/16	2-3/8	0.194	3
CT56012	12-24 NC	11/16	2-3/8	0.220	3
CT56404	1/4-20 NC	13/16	2-1/2	0.255	3
CT56504	1/4-28 NF	13/16	2-1/2	0.255	3
CT56405	5/16-18 NC	7/8	2-23/32	0.318	3
CT56505	5/16-24 NF	7/8	2-23/32	0.318	3
CT56406	3/8-16 NC	1"	2-15/16	0.381	3
CT56506	3/8-24 NF	1"	2-15/16	0.381	3
CT56407	7/16-14 NC	1-1/16	3-5/32	0.323	3
CT56507	7/16-20 NF	1-1/16	3-5/32	0.323	3
CT56408	1/2-13 NC	1-3/16	3-3/8	0.367	3

Tarauds D'Application Special A Bague Bleu - Fractionnel

- HSSE - pour la ténacité et une résistance accrue à l'usure
- TiAlN revêtement augmente la résistance à l'usure, améliore l'écoulement des copeaux et réduit le soudage des copeaux
- Conçu pour produire une classe d'ajustement 2B
- Longueur de tige ANSI / ISO
- Le point en spirale force les copeaux devant le taraud - conçu pour les applications à trou traversant
- Conçu pour les matériaux résistants tels que l'acier inoxydable et l'acier à outils jusqu'à 38 Rc

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT56508	1/2-20 NF	1-3/16	3-3/8	0.367	3
CT56410	5/8-11 NC	1-3/8	3-13/16	0.480	3
CT56510	5/8-18 NF	1-3/8	3-13/16	0.480	3
CT56412	3/4-10 NC	1-7/16	4-1/4	0.590	4
CT56512	3/4-16 NF	1-7/16	4-1/4	0.590	4
CT56414	7/8-9 NC	1-5/8	4-11/16	0.697	4
CT56514	7/8-14 NF	1-5/8	4-11/16	0.697	4
CT56416	1"-8 NC	1-3/4	5-1/8	0.800	4
CT56516	1"-12 NF	1-3/4	5-1/8	0.800	4
CT56418	1-1/8 7 NC	2-9/16	5-7/16	0.896	4
CT56518	1-1/8 12 NF	2-9/16	5-7/16	0.896	4
CT56420	1-1/4 7 NC	2-9/16	5-3/4	1.021	4
CT56520	1-1/4 12 NF	2-9/16	5-3/4	1.021	4
CT56422	1-3/8 6 NC	3"	6-1/16	1.108	4
CT56522	1-3/8 12 NF	3"	6-1/16	1.108	4



Spiral Point Taps - Blue Ring CT55

Application Specific Taps - Blue Ring Metric

- HSSE - for toughness and increased wear resistance
- TiAIN coated - increases wear resistance, improves chip flow and reduces chip welding
- Designed to produce a 6H Class of Fit
- ANSI Shank / ISO Length
- Spiral point forces the chips ahead of the tap – designed for through hole applications
- Designed for tough materials such as Stainless Steel and Tool Steel up to 38Rc

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT55020	M2.0 X 0.40	8.0	41.0	2.50	3
CT55025	M2.5 X 0.45	9.5	44.5	2.80	3
CT55030	M3.0 X 0.50	11.0	48.0	3.15	3
CT55035	M3.5 X 0.60	13.0	50.0	3.55	3
CT55040	M4.0 X 0.70	13.0	53.0	4.00	3
CT55045	M4.5 X 0.75	13.0	53.0	4.50	3
CT55050	M5.0 X 0.80	16.0	58.0	5.00	3
CT55060	M6.0 X 1.00	19.0	66.0	6.30	3
CT55070	M7.0 X 1.00	19.0	66.0	7.10	3
CT55080	M8.0 X 1.25	22.0	72.0	8.00	3
CT55081	MF8.0 X 1.00	22.0	72.0	8.10	3
CT55100	M10.0 X 1.50	24.0	80.0	10.00	3
CT55101	MF10.0 X 1.25	24.0	80.0	10.00	3
CT55120	M12.0 X 1.75	29.0	89.0	9.00	3
CT55121	MF12.0 X 1.25	29.0	89.0	9.00	3
CT55140	M14.0 X 2.00	30.0	95.0	11.20	3

Tarauds D'Application Special A Bague Bleu - Metrique

- HSSE - pour la ténacité et une résistance accrue à l'usure
- TiAIN revêtement augmente la résistance à l'usure, améliore l'écoulement des copeaux et réduit le soudage des copeaux
- Conçu pour produire une classe d'ajustement 6H
- Longueur de tige ANSI / ISO
- Le point en spirale force les copeaux devant le taraud - conçu pour les applications à trou traversant
- Conçu pour les matériaux résistants tels que l'acier inoxydable et l'acier à outils jusqu'à 38 Rc

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT55141	MF14.0 X 1.50	30.0	95.0	11.20	3
CT55160	M16.0 X 2.00	32.0	102.0	12.50	3
CT55161	MF16.0 X 1.50	32.0	102.0	12.50	3
CT55180	M18.0 X 2.50	37.0	112.0	14.00	4
CT55181	MF18.0 X 1.50	37.0	112.0	14.00	4
CT55200	M20.0 X 2.50	37.0	112.0	14.00	4
CT55201	MF20.0 X 1.50	37.0	112.0	14.00	4
CT55220	M22.0 X 2.50	38.0	118.0	16.00	4
CT55221	MF22.0 X 1.50	38.0	118.0	16.00	4
CT55240	M24.0 X 3.00	45.0	130.0	18.00	4
CT55241	MF24.0 X 1.50	45.0	130.0	18.00	4
CT55270	M27.0 X 3.00	45.0	135.0	20.00	4
CT55271	MF27.0 X 1.50	45.0	135.0	20.00	4
CT55300	M30.0 X 3.50	48.0	138.0	20.00	4
CT55301	MF30.0 X 1.50	48.0	138.0	20.00	4



Spiral Flute Taps - Blue Ring CT58

Application Specific Taps - Blue Ring Fractional

- HSSE - for toughness and increased wear resistance
- TiAlN coated - increases wear resistance, improves chip flow and reduces chip welding
- 40° Helix
- Designed to produce a 2B Class of Fit
- Shorter Thread Length for better chip evacuation and reduced contact with workpiece
- ANSI Shank / ISO Length
- Spiral flute taps are designed for blind hole applications and lift chips out of the hole
- Designed for tough materials such as Stainless Steel and Tool Steel up to 35Rc

Tarauds D'Application Special A Bague Bleu - Fractionnel

- HSSE - pour la ténacité et une résistance accrue à l'usure
- TiAlN revêtement augmente la résistance à l'usure, améliore l'écoulement des copeaux et réduit le soudage des copeaux
- Hélice 40°
- Conçu pour produire une classe d'ajustement 2B
- Longueur de filetage plus courte pour une meilleure évacuation des copeaux et un contact réduit avec la pièce
- Longueur de tige ANSI / ISO
- Les tarauds pour flûtes hélicoïdales sont conçus pour les applications de trous borgnes et soulèvent les copeaux hors du trou
- Conçu pour les matériaux résistants tels que l'acier inoxydable et l'acier à outils jusqu'à 35 Rc

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT58004	4-40 NC	5/8	1-7/8	0.141	3
CT58006	6-32 NC	11/16	2"	0.141	3
CT58008	8-32 NC	3/4	2-1/8	0.168	3
CT58010	10-24 NC	11/16	2-3/8	0.194	3
CT58110	10-32 NF	11/16	2-3/8	0.194	3
CT58404	1/4-20 NC	13/16	2-1/2	0.255	3
CT58504	1/4-28 NF	13/16	2-1/2	0.255	3
CT58405	5/16-18 NC	7/8	2-23/32	0.318	3
CT58505	5/16-24 NF	7/8	2-23/32	0.318	3
CT58406	3/8-16 NC	1"	2-15/16	0.381	3
CT58506	3/8-24 NF	1"	2-15/16	0.381	3
CT58407	7/16-14 NC	1-1/16	3-5/32	0.323	3
CT58408	1/2-13 NC	1-3/16	3-3/8	0.367	3
CT58508	1/2-20 NF	1-3/16	3-3/8	0.367	3

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT58410	5/8-11 NC	1-3/8	3-13/16	0.480	3
CT58510	5/8-18 NF	1-3/8	3-13/16	0.480	3
CT58412	3/4-10 NC	1-7/16	4-1/4	0.590	3
CT58512	3/4-16 NF	1-7/16	4-1/4	0.590	3
CT58414	7/8-9 NC	1-5/8	4-11/16	0.697	3
CT58514	7/8-14 NF	1-5/8	4-11/16	0.697	3
CT58416	1"-8 NC	1-3/4	5-1/8	0.800	4
CT58516	1"-12 NF	1-3/4	5-1/8	0.800	4
CT58418	1-1/8 7 NC	2-9/16	5-7/16	0.896	4
CT58518	1-1/8 12 NF	2-9/16	5-7/16	0.896	4
CT58420	1-1/4 7 NC	2-9/16	5-3/4	1.021	4
CT58520	1-1/4 12 NF	2-9/16	5-3/4	1.021	4
CT58422	1-3/8 6 NC	3"	6-1/16	1.108	4
CT58522	1-3/8 12 NF	3"	6-1/16	1.108	4



Spiral Flute Taps - Blue Ring CT57

Application Specific Taps - Blue Ring Metric

- HSSE - for toughness and increased wear resistance
- TiAlN coated - increases wear resistance, improves chip flow and reduces chip welding
- 40° Helix
- Designed to produce a 6H Class of Fit
- Shorter Thread Length for better chip evacuation and reduced contact with workpiece
- ANSI Shank / ISO Length
- Spiral flute taps are designed for blind hole applications and lift chips out of the hole
- Designed for tough materials such as Stainless Steel and Tool Steel up to 35Rc

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT57030	M3.0 X 0.50	11.0	48.0	3.15	3
CT57035	M3.5 X 0.60	13.0	50.0	3.55	3
CT57040	M4.0 X 0.70	13.0	53.0	4.00	3
CT57050	M5.0 X 0.80	16.0	58.0	5.00	3
CT57060	M6.0 X 1.00	19.0	66.0	6.30	3
CT57070	M7.0 X 1.00	19.0	66.0	7.10	3
CT57080	M8.0 X 1.25	22.0	72.0	8.10	3
CT57081	MF8.0 X 1.00	22.0	72.0	8.10	3
CT57100	M10.0 X 1.50	24.0	80.0	10.00	3
CT57101	MF10.0 X 1.25	24.0	80.0	10.00	3
CT57120	M12.0 X 1.75	29.0	89.0	9.00	3
CT57121	MF12.0 X 1.25	29.0	89.0	9.00	3
CT57140	M14.0 X 2.00	30.0	95.0	11.20	3
CT57141	MF14.0 X 1.50	30.0	95.0	11.20	3

Tarauds D'application Special A Bague Bleu - Metrique

- HSSE - pour la ténacité et une résistance accrue à l'usure
- TiAlN revêtement augmente la résistance à l'usure, améliore l'écoulement des copeaux et réduit le soudage des copeaux
- Hélice 40°
- Conçu pour produire une classe d'ajustement 6H
- Longueur de filetage plus courte pour une meilleure évacuation des copeaux et un contact réduit avec la pièce
- Longueur de tige ANSI / ISO
- Les tarauds pour flûtes hélicoïdales sont conçus pour les applications de trous borgnes et soulèvent les copeaux hors du trou
- Conçu pour les matériaux résistants tels que l'acier inoxydable et l'acier à outils jusqu'à 35 Rc

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT57160	M16.0 X 2.00	32.0	102.0	12.50	3
CT57161	MF16.0 X 1.50	32.0	102.0	12.50	3
CT57180	M18.0 X 2.50	37.0	112.0	14.00	3
CT57181	MF18.0 X 1.50	37.0	112.0	14.00	3
CT57200	M20.0 X 2.50	37.0	112.0	14.00	3
CT57201	MF20.0 X 1.50	37.0	112.0	14.00	3
CT57220	M22.0 X 2.50	38.0	118.0	16.00	3
CT57221	MF22.0 X 1.50	38.0	118.0	16.00	3
CT57240	M24.0 X 3.00	45.0	130.0	18.00	4
CT57241	MF24.0 X 1.50	45.0	130.0	18.00	4
CT57270	M27.0 X 3.00	45.0	135.0	20.00	4
CT57271	MF27.0 X 1.50	45.0	135.0	20.00	4
CT57300	M30.0 X 3.50	48.0	138.0	20.00	4
CT57301	MF30.0 X 1.50	48.0	138.0	20.00	4



Spiral Flute Taps - White Ring CT60

Application Specific Taps - White Ring Fractional

- HSSE - for toughness and increased wear resistance
- TiAlN coated - increases wear resistance, improves chip flow and reduces chip welding
- 15° Helix
- Designed to produce a 2B Class of Fit
- Shorter Thread Length for better chip evacuation and reduced contact with workpiece
- ANSI Shank / ISO Length
- Suitable for use on abrasive materials such as cast iron

Tarauds D'Application Special A Bague Blanc - Fractionnel

- HSSE - pour la ténacité et une résistance accrue à l'usure
- TiAlN revêtement augmente la résistance à l'usure, améliore l'écoulement des copeaux et réduit le soudage des copeaux
- Hélice 15°
- Conçu pour produire une classe d'ajustement 2B
- Longueur de filetage plus courte pour une meilleure évacuation des copeaux et un contact réduit avec la pièce
- Longueur de tige ANSI / ISO
- Approprié pour une utilisation sur les matériaux abrasifs tels que la fonte

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT60004	4-40 NC	5/8	1-7/8	0.141	3
CT60006	6-32 NC	11/16	2"	0.141	3
CT60008	8-32 NC	3/4	2-1/8	0.168	3
CT60010	10-24 NC	11/16	2-3/8	0.194	3
CT60110	10-32 NF	11/16	2-3/8	0.194	3
CT60404	1/4-20 NC	13/16	2-1/2	0.255	3
CT60504	1/4-28 NF	13/16	2-1/2	0.255	3
CT60405	5/16-18 NC	7/8	2-23/32	0.318	3
CT60505	5/16-24 NF	7/8	2-23/32	0.318	3
CT60406	3/8-16 NC	1"	2-15/16	0.381	4
CT60506	3/8-24 NF	1"	2-15/16	0.381	4
CT60407	7/16-14 NC	1-1/16	3-5/32	0.323	4
CT60408	1/2-13 NC	1-3/16	3-3/8	0.367	4
CT60508	1/2-20 NF	1-3/16	3-3/8	0.367	4

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT60410	5/8-11 NC	1-3/8	3-13/16	0.480	4
CT60510	5/8-18 NF	1-3/8	3-13/16	0.480	4
CT60412	3/4-10 NC	1-7/16	4-1/4	0.590	4
CT60512	3/4-16 NF	1-7/16	4-1/4	0.590	4
CT60414	7/8-9 NC	1-5/8	4-11/16	0.697	4
CT60514	7/8-14 NF	1-5/8	4-11/16	0.697	4
CT60416	1"-8 NC	1-3/4	5-1/8	0.800	4
CT60516	1"-12 NF	1-3/4	5-1/8	0.800	4
CT60418	1-1/8 7 NC	2-9/16	5-7/16	0.896	4
CT60518	1-1/8 12 NF	2-9/16	5-7/16	0.896	4
CT60420	1-1/4 7 NC	2-9/16	5-3/4	1.021	4
CT60520	1-1/4 12 NF	2-9/16	5-3/4	1.021	4
CT60422	1-3/8 6 NC	3"	6-1/16	1.108	4
CT60522	1-3/8-12 NF	3"	6-1/16	1.108	4



Spiral Flute Taps - White Ring CT59

Application Specific Taps - White Ring Metric

- HSSE - for toughness and increased wear resistance
- TiAlN coated - increases wear resistance, improves chip flow and reduces chip welding
- 15° Helix
- Designed to produce a 6H Class of Fit
- Shorter Thread Length for better chip evacuation and reduced contact with workpiece
- ANSI Shank / ISO Length
- Suitable for use on abrasive materials such as cast iron

Tarauds D'Application Special A Bague Blanc - Metrique

- HSSE - pour la ténacité et une résistance accrue à l'usure
- TiAlN revêtement augmente la résistance à l'usure, améliore l'écoulement des copeaux et réduit le soudage des copeaux
- Hélice 15 °
- Conçu pour produire une classe d'ajustement 6H
- Longueur de filetage plus courte pour une meilleure évacuation des copeaux et un contact réduit avec la pièce
- Longueur de tige ANSI / ISO
- Approprié pour une utilisation sur les matériaux abrasifs tels que la fonte

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT59030	M3.0 X 0.50	11.0	48.0	3.15	3
CT59035	M3.5 X 0.60	13.0	50.0	3.55	3
CT59040	M4.0 X 0.70	13.0	53.0	4.00	3
CT59050	M5.0 X 0.80	16.0	58.0	5.00	3
CT59060	M6.0 X 1.00	19.0	66.0	6.30	3
CT59070	M7.0 X 1.00	19.0	66.0	7.10	3
CT59080	M8.0 X 1.25	22.0	72.0	8.00	3
CT59081	MF8.0 X 1.00	22.0	72.0	8.10	3
CT59100	M10.0 X 1.50	24.0	80.0	10.00	4
CT59101	MF10.0 X 1.25	24.0	80.0	10.00	4
CT59120	M12.0 X 1.75	29.0	89.0	9.00	4
CT59121	MF12.0 X 1.25	29.0	89.0	9.00	4
CT59140	M14.0 X 2.00	30.0	95.0	11.20	4
CT59141	MF14.0 X 1.50	30.0	95.0	11.20	4

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT59160	M16.0 X 2.00	32.0	102.0	12.50	4
CT59161	MF16.0 X 1.50	32.0	102.0	12.50	4
CT59180	M18.0 X 2.50	37.0	112.0	14.00	3
CT59181	MF18.0 X 1.50	37.0	112.0	14.00	4
CT59200	M20.0 X 2.50	37.0	112.0	14.00	4
CT59201	MF20.0 X 1.50	37.0	112.0	14.00	4
CT59220	M22.0 X 2.50	38.0	118.0	16.00	4
CT59221	MF22.0 X 1.50	38.0	118.0	16.00	4
CT59240	M24.0 X 3.00	45.0	130.0	18.00	4
CT59241	MF24.0 X 1.50	45.0	130.0	18.00	4
CT59270	M27.0 X 3.00	45.0	135.0	20.00	4
CT59271	MF27.0 X 1.50	45.0	135.0	20.00	4
CT59300	M30.0 X 3.50	48.0	138.0	20.00	4
CT59301	MF30.0 X 1.50	48.0	138.0	20.00	4



Spiral Flute Taps - Yellow Ring CT62 • CT61

Application Specific Taps - Spiral Flute Yellow Ring

- HSSE - for toughness and increased wear resistance
- Bright Finish
- 40° Helix
- Designed to produce a 2B Class of Fit (UNC/UNF) or 6H Class of Fit (Metric)
- Shorter Thread Length for better chip evacuation and reduced contact with workpiece
- ANSI Shank / ISO Length
- Spiral flute taps are designed for blind hole applications and lift chips out of the hole
- Designed for ductile materials such as Aluminum, Magnesium, Soft Brass, Zinc Alloys and Copper

Tarauds D'Application Special A Bague Jaune

- HSSE - pour la ténacité et une résistance accrue à l'usure
- Finition brillante
- Hélice 40 °
- Conçu pour produire une classe d'ajustement 2B (UNC/UNF) ou 6H (Metric)
- Longueur de filetage plus courte pour une meilleure évacuation des copeaux et un contact réduit avec la pièce
- Longueur de tige ANSI / ISO
- Les tarauds pour flûtes hélicoïdales sont conçus pour les applications de trous borgnes et soulèvent les copeaux hors du trou
- Conçu pour les matériaux ductiles tels que l'aluminium, le magnésium, le laiton doux, les alliages de zinc et le cuivre

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
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UNC/UNF

CT62004	4-40 NC	5/8	1-7/8	0.141	2
CT62006	6-32 NC	11/16	2"	0.141	2
CT62008	8-32 NC	3/4	2-1/8	0.168	2
CT62010	10-24 NC	11/16	2-3/8	0.194	2
CT62110	10-32 NF	11/16	2-3/8	0.194	2
CT62404	1/4-20 NC	13/16	2-1/2	0.255	2

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
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CT62504	1/4-28 NF	13/16	2-1/2	0.255	2
CT62405	5/16-18 NC	7/8	2-23/32	0.318	2
CT62505	5/16-24 NF	7/8	2-23/32	0.318	2
CT62406	3/8-16 NC	1"	2-15/16	0.381	3
CT62506	3/8-24 NF	1"	2-15/16	0.381	3

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
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METRIC/METRIQUE

CT61030	M3.0 X 0.50	15.0	48.0	3.15	2
CT61040	M4.0 X 0.70	17.0	53.0	4.00	2
CT61050	M5.0 X 0.80	16.0	58.0	5.00	2
CT61060	M6.0 X 1.00	19.0	66.0	6.30	2

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
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CT61080	M8.0 X 1.25	22.0	72.0	8.00	2
CT61100	M10.0 X 1.50	24.0	80.0	10.00	3
CT61101	MF10.0 X 1.25	24.0	80.0	10.00	3



Pipe Taps (NPT) - CT10

Warwick Taper Pipe Taps - NPT

- HSS • Ground Thread
- Bright Finish
- NPT (Taper Pipe) are used to produce tapered pipe threads in a wide range of pipe connections. The thread produced will require the use of a thread sealant to ensure a tight seal
- Also available in Interrupted Thread which helps to reduce friction and increase chip capacity which reduces the chance of torn threads. These work well in Cast Aluminum and Cast Iron
- Pipe taps are the nominal size of the pipe fitting and not the actual size of the tap

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT10001	1/16-27 NPT	11/16	2-1/8	0.31	4.0
CT10002	1/8-27 NPT	3/4	2-1/8	0.44	3.0
CT10004	1/4-18 NPT	1-1/16	2-7/16	0.56	5.0
CT10006	3/8-18 NPT	1-1/16	2-9/16	0.70	5.0
CT10008	1/2-14 NPT	1-3/8	3-1/8	0.69	5.0
CT10012	3/4-14 NPT	1-3/8	3-1/4	0.91	5.0
CT10016	1"-11.5 NPT	1-3/4	3-3/4	1.13	5.0
CT10020	1-1/4 11.5 NPT	1-3/4	4"	1.31	5.0
CT10024	1-1/2 11.5 NPT	1-3/4	4-1/4	1.50	7.0
CT10032	2"-11.5 NPT	1-3/4	4-1/2	1.88	7.0

INTERRUPTED

CT10502	1/8-27 NPT	3/4	2-1/8	0.44	3.0
CT10504	1/4-18 NPT	1-1/16	2-7/16	0.56	5.0
CT10506	3/8-18 NPT	1-1/16	2-9/16	0.70	5.0
CT10508	1/2-14 NPT	1-3/8	3-1/8	0.69	5.0
CT10512	3/4-14 NPT	1-3/8	3-1/4	0.91	5.0
CT10516	1"-11.5 NPT	1-3/4	3-3/4	1.13	5.0
CT10520	1-1/4 11.5 NPT	1-3/4	4"	1.31	5.0
CT10524	1-1/2 11.5 NPT	1-3/4	4-1/4	1.50	7.0
CT10532	2"-11.5 NPT	1-3/4	4-1/2	1.88	7.0

Tarauds Conique Warwick - NPT

- HSS • Fil de masse
- Finition brillante
- NPT (Taper Pipe) est utilisé pour produire des filetages de tuyau coniques dans une large gamme de raccords de tuyaux. Le filetage produit nécessitera l'utilisation d'un produit d'étanchéité pour filetage afin d'assurer une étanchéité parfaite
- Également disponible en filetage interrompu qui aide à réduire le frottement et à augmenter la capacité des copeaux, ce qui réduit les risques de filetage déchiré. Ceux-ci fonctionnent bien en fonte d'aluminium et en fonte
- Les tarauds de tuyau sont la taille nominale du raccord de tuyau et non la taille réelle du taraud

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
SET	INCLUDES				
CT10107	7 PC	1/16-27 TO 1"-11.5 NPT			





Pipe Taps (NPTF) - CT10

Warwick Taper Pipe Taps - NPTF Dryseal

- HSS • Ground Thread
- Bright Finish
- NPTF Dryseal (Taper Pipe) are used to produce tapered pipe threads in a wide range of pipe connections. These taps produce a tight seal without the use of thread sealants
- Often used for fuel or fluid applications
- Pipe taps are the nominal size of the pipe fitting and not the actual size of the tap

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT10701	1/16-27 NPTF	11/16	2-1/8	0.312	4
CT10702	1/8-27 NPTF	3/4	2-1/8	0.437	4
CT10704	1/4-18 NPTF	1-1/16	2-7/16	0.562	4
CT10706	3/8-18 NPTF	1-1/16	2-9/16	0.700	4

Tarauds Conique Warwick - NPTF Dryseal

- HSS • Fil de masse
- Finition brillante
- NPTF Dryseal (Taper Pipe) est utilisé pour produire des filetages de tuyau coniques dans une large gamme de raccords de tuyaux. Ces tarauds produisent un joint étanche sans utiliser de produit d'étanchéité pour filetage
- Souvent utilisé pour les applications de carburant ou de fluide
- Les tarauds de tuyau sont la taille nominale du raccord de tuyau et non la taille réelle du taraud

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT10708	1/2-14 NPTF	1-3/8	3-1/8	0.687	4
CT10712	3/4-14 NPTF	1-3/8	3-1/4	0.906	5
CT10716	1"-11.5 NPTF	1-3/4	3-3/4	1.125	5
CT10720	1-1/4"-11.5 NPTF	1-3/4	4"	1.312	5



Pipe Taps (NPS/NPSF) - CT11

Warwick Straight Pipe Taps - NPS/NPSF

- HSS • Ground Thread
- Bright Finish
- NPS (Straight Pipe) taps produce a straight pipe thread for low pressure applications. The thread produced will require the use of a thread sealant to ensure a tight seal
- NPSF Dryseal (Straight Pipe) taps produce a straight pipe thread for low pressure applications. These taps produce a tight seal without the use of thread sealants
- Pipe taps are the nominal size of the pipe fitting and not the actual size of the tap

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
NPS					
CT11008	1/8-27 NPS	3/4	2-1/8	0.437	4
CT11016	1/4-18 NPS	1-1/16	2-7/16	0.562	4
CT11024	3/8-18 NPS	1-1/16	2-9/16	0.700	4
CT11032	1/2-14 NPS	1-3/8	3-1/8	0.687	4
CT11048	3/4-14 NPS	1-3/8	3-1/4	0.906	5
CT11100	1"-11.5 NPS	1-3/4	3-3/4	1.125	5

Tarauds Au Pas Du Gaz Warwick - NPS/NPSF

- HSS • Fil de masse
- Finition brillante
- Les tarauds NPS (Straight Pipe) produisent un filetage de tuyau droit pour les applications à basse pression. Le filetage produit nécessitera l'utilisation d'un produit d'étanchéité pour filetage afin d'assurer une étanchéité parfaite
- Les tarauds NPSF Dryseal (Straight Pipe) produisent un filetage de tuyau droit pour les applications à basse pression. Les tarauds produisent une étanchéité parfaite sans l'utilisation d'un produit d'étanchéité
- Les tarauds de tuyau sont la taille nominale du raccord de tuyau et non la taille réelle du taraud

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
NPSF DRYSEAL					
CT11408	1/8-27 NPSF	3/4	2-1/8	0.437	4
CT11416	1/4-18 NPSF	1-1/16	2-7/16	0.562	4
CT11424	3/8-18 NPSF	1-1/16	2-9/16	0.700	4
CT11432	1/2-14 NPSF	1-3/8	3-1/8	0.687	4
CT11448	3/4-14 NPSF	1-3/8	3-1/4	0.906	4
CT11464	1"-11.5 NPSF	1-3/4	3-3/4	1.125	6



Pipe Taps (BSPT) - CT12

Taper Pipe Taps - BSPT

- HSS • Ground Thread
- Bright Finish
- BSPT (British Standard Pipe Taper) - 55° Thread Form
- This thread is tapered, but with an 'interference' fit. Unlike BSPP, it needs no seals or gasket - pressure tight joints are achieved by the thread alone
- Pipe taps are the nominal size of the pipe fitting and not the actual size of the tap

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT12002	1/8-28 BSPT	15.0	59.0	8.0	3
CT12004	1/4-19 BSPT	19.0	67.0	10.0	5
CT12006	3/8-19 BSPT	21.0	75.0	12.5	5
CT12008	1/2-14 BSPT	26.0	87.0	16.0	5
CT12012	3/4-14 BSPT	28.0	96.0	20.0	5
CT12016	1"-11 BSPT	33.0	109.0	25.0	5

Tarauds Conique - BSPT

- HSS • Fil de masse
- Finition brillante
- BSPT (British Standard Pipe Taper) - Forme de filetage 55°
- Ce filetage est effilé, mais avec un ajustement « serré ». Contrairement au BSPP, il n'a pas besoin de joints - les joints étanches à la pression sont réalisés uniquement par le filetage
- Les tarauds de tuyau sont la taille nominale du raccord de tuyau et non la taille réelle du taraud

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT12020	1-1/4"-11 BSPT	36.0	119.0	31.5	7
CT12024	1-1/2"-11 BSPT	37.0	125.0	35.5	7
CT12032	2"-11 BSPT	41.0	140.0	40.0	7



Pipe Taps (BSPP) - CT13

Straight Pipe Taps - BSPP

- HSS • Ground Thread
- Bright Finish
- British Standard Parallel Fixed - 55° Thread Form
- This thread is not tapered (parallel) and needs a gasket or seal to be gas/liquid tight.
- Pipe taps are the nominal size of the pipe fitting and not the actual size of the tap

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT13002	1/8-28 BSPF	15.0	59.0	8.000	4
CT13004	1/4-19 BSPF	19.0	67.0	10.000	4
CT13006	3/8-19 BSPF	21.0	75.0	12.500	4
CT13008	1/2-14 BSPF	26.0	87.0	16.000	4
CT13010	5/8-14 BSPF	26.0	91.0	18.000	4
CT13012	3/4-14 BSPF	28.0	96.0	20.000	4

Tarauds Pas Du Gaz - BSPP

- HSS • Fil de masse
- Finition brillante
- BSPF (British Standard Parallel Fixed) - Forme de filetage 55°
- Ce filetage n'est pas conique (parallèle) et a besoin d'un joint pour être étanche aux gaz / liquides.
- Les tarauds de tuyau sont la taille nominale du raccord de tuyau et non la taille réelle du taraud

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT13014	7/8-14 BSPF	29.0	102.0	22.400	4
CT13016	1"-11 BSPF	33.0	109.0	25.000	6
CT13020	1-1/4"-11 BSPF	36.0	119.0	31.500	6
CT13024	1-1/2"-11 BSPF	37.0	125.0	35.500	6
CT13028	1-3/4"-11 BSPF	39.0	132.0	35.500	6
CT13032	2"-11 BSPF	41.0	140.0	40.000	6



Pipe Taps - Spiral Flute - CT80

Bright Merlin - NPT

- HSS • Ground Thread
- Bright Finish
- Spiral Flute NPT taps lift the chips out of the hole to eliminate chip packing in the flutes
- Ideal for soft materials that produce long stringy chips
- NPT (Taper Pipe) are used to produce tapered pipe threads in a wide range of pipe connections. The thread produced will require the use of a thread sealant to ensure a tight seal
- Pipe taps are the nominal size of the pipe fitting and not the actual size of the tap

Bright Merlin - NPT

- HSS • Fil de masse
- Finition brillante
- Les tarauds NPT pour flûte spirale soulèvent les copeaux du trou pour éliminer l'entassement des copeaux dans les flûtes
- Idéal pour les matériaux mous qui produisent de longs copeaux filandreux
- NPT (Taper Pipe) est utilisé pour produire des filetages de tuyau coniques dans une large gamme de raccords de tuyaux. Le filetage produit nécessitera l'utilisation d'un produit d'étanchéité pour filetage afin d'assurer une étanchéité parfaite
- Les tarauds de tuyau sont la taille nominale du raccord de tuyau et non la taille réelle du taraud

CODE	SIZE DIM	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN
CT80602	1/8-27 NPT	3/4	2-1/8	0.437	4
CT80604	1/4-18 NPT	1-1/16	2-7/16	0.562	4
CT80606	3/8-18 NPT	1-1/16	2-9/16	0.700	4
CT80608	1/2-14 NPT	1-3/8	3-1/8	0.687	4
CT80612	3/4-14 NPT	1-3/8	3-1/4	0.906	5
CT80616	1"-11.5 NPT	1-3/4	3-3/4	1.125	5



Tap & Drill Sets (Hand Taps) - DR06

Tap & Drill Sets

- Hand Taps and Hyper HSS drills
- Available in UNC, UNF, Metric
- We also offer these sets with DR02 Two-Tone drills upon request

Jeux De Forets Et Tarauds

- Tarauds à main et forets Hyper HSS
- Disponible en UNC, UNF, métrique
- Nous proposons également ces kits avec des perceuses DR02 Two-Tone sur demande

CODE	NO	THREAD	FROM	TO	MTL	PCS
DR06990	#99	NC	#6-32	1/2-13	HSS	18
DR06918	#18	NF	#6-40	1/2-20	HSS	18
DR06995	#95	MM	M2.50	M12.0	HSS	18



Tap & Drill Sets (Spiral Point Taps) - DR06

Wizard Tap & Drill Set

- Sets are available with Blue, Bright, Gold Wizard and Blue Ring Application Taps
- Blue Wizard sets are paired with Hyper drills (ZD16) or the Two-Tone drills (DR02)
- Bright Wizard sets are paired with the Bright Finish drills (DR15)
- Blue Ring AST taps are paired with the Cobalt drills (DR09)

Ensembles De Forets & Tarauds Wizard

- Les ensembles sont disponibles avec les tarauds d'application Blue, Bright, Gold Wizard et Blue Ring
- Les ensembles Blue Wizard sont associés à des perceuses Hyper (ZD16) ou à des perceuses à deux tons (DR02)
- Les ensembles Bright Wizard sont associés aux forets Bright Finish (DR15)
- Les tarauds Blue Ring AST sont associés aux forets Cobalt (DR09)

CODE	TAPS TARRAUDS	DRILLS FORETS	FROM DE	TO A	PCS CANN
COARSE (UNC)					
DR06899	BLUE WIZARD	ZD16	6-32	1/2-13	18
DR06801	BRIGHT WIZARD	DR15	6-32	1/2-13	18
DR06805	GOLD WIZARD	DR02	6-32	1/2-13	18
DR06810	BLUE RING	DR09	6-32	1/2-13	18
DR06815	BLUE WIZARD	DR02	6-32	1/2-13	18
FINE (UNF)					
DR06818	BLUE WIZARD	ZD16	6-40	1/2-20	18
DR06802	BRIGHT WIZARD	DR15	6-40	1/2-20	18
DR06806	GOLD WIZARD	DR02	6-40	1/2-20	18
DR06814	BLUE WIZARD	DR02	6-40	1/2-20	18
METRIC					
DR06895	BLUE WIZARD	DR04	M2.50	M12.0	18
DR06803	BRIGHT WIZARD	DR15	M2.50	M12.0	18
DR06807	GOLD WIZARD	DR02	M2.50	M12.0	18
DR06812	BLUE RING	DR09	M2.50	M12.0	18



Tap & Die Sets - TA18

HSS Tap & Die Set

- HSS
- UNC / UNF and Metric / Metric Fine
- Also available with BSW, BSF, & BA (British screw thread sizes)
- Includes Taper and Bottoming Tap for each size
- Includes Tap Wrench(es) and Die Stock(s)

Jeux Tarauds Et Filieres

- HSS
- UNC / UNF et métrique / métrique fin
- Également disponible avec BSW, BSF et BA (tailles de filetage britanniques)
- Comprend un cône et un taraud inférieur pour chaque taille
- Comprend des clés à cliquet et des filieres

CODE	NO	THREAD FILETEE	SET INCLUDES TAPER & BOTTOMING TAP & DIE FOR EACH SIZE, WRENCH(ES) & DIESTOCK(S) TARAUDS FINISSEUR & TARAUDS EBAUCHER & FILIERS, PORTE ET T-A-G
TA18018	18TD	NC	#4-40, #6-32, #8-32, #10-24, 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13
TA18019	19TD	NC	1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13
TA18022	22TD	NC	1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 5/8-11, 3/4-10
TA18029	29TD	NC	1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 9/16-12, 5/8-11, 3/4-10
TA18030	30TD	NC	1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 5/8-11, 3/4-10, 7/8-9, 1"-8
TA18031	31TD	NC	1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 9/16-12, 5/8-11, 3/4-10, 7/8-9, 1"-8
TA18024	24TD	NF	1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20
TA18025	25TD	NF	1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 5/8-18, 3/4-16
TA18026	26TD	NF	1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 9/16-18, 5/8-18, 3/4-16
TA18027	27TD	NF	1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 5/8-18, 3/4-16, 7/8-14, 1"-12
TA18028	28TD	NF	1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 9/16-18, 5/8-18, 3/4-16, 7/8-14, 1"-12
TA18004	4TD	BSW	1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2
TA18005	5TD	BSW	3/16, 1/4, 5/16, 3/8, 7/16, 1/2
TA18006	6TD	BSW	1/4, 5/16, 3/8, 7/16, 1/2
TA18008	8TD	BSW	1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4
TA18009	9TD	BSW	1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4
TA18010	10TD	BSW	1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 7/8, 1"
TA18011	11TD	BSW	1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4, 7/8, 1"
TA18012	12TD	BSF	3/16, 1/4, 5/16, 3/8, 7/16, 1/2
TA18013	13TD	BSF	1/4, 5/16, 3/8, 7/16, 1/2
TA18014	14TD	BSF	1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4
TA18015	15TD	BSF	1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4
TA18016	16TD	BSF	1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 7/8, 1"
TA18017	17TD	BSF	1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4, 7/8, 1"

Tap & Die Sets - TA18



HSS Tap & Die Set

- HSS
- UNC / UNF and Metric / Metric Fine
- Also available with BSW, BSF, & BA (British screw thread sizes)
- Includes Taper and Bottoming Tap for each size
- Includes Tap Wrench(es) and Die Stock(s)

Jeux Tarauds Et Filieres

- HSS
- UNC / UNF et métrique / métrique fin
- Également disponible avec BSW, BSF et BA (tailles de filetage britanniques)
- Comprend un cône et un taraud inférieur pour chaque taille
- Comprend des clés à cliquet et des filieres

CODE	NO	THREAD FILETEE	SET INCLUDES TAPER & BOTTOMING TAP & DIE FOR EACH SIZE, WRENCH(ES) & DIESTOCK(S) TARAUDS FINISSEUR & TARAUDS EBAUCHER & FILIERS, PORTE ET T-A-G
TA18000	0TD	BA	0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
TA18001	1TD	BA	0, 2, 4, 6, 8, 10
TA18002	2TD	BA	0, 1, 2, 3, 4, 5, 6, 7, 8
TA18003	3TD	BA	0, 1, 2, 3, 4, 5, 6
TA18036	36TD	MM	2.0, 3.0, 4.0, 5.0, 6.0
TA18037	37TD	MM	2.0, 2.5, 3.0, 3.5, 4.0, 5.0, 6.0
TA18038	38TD	MM	2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 12.0
TA18040	40TD	MM	3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0
TA18042	42TD	MM	5.0, 6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 12.0
TA18039	39TD	MM	6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 12.0
TA18041	41TD	MM	6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 12.0, 14.0, 16.0, 18.0, 20.0
TA18043	43TD	MM	6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 12.0, 14.0, 16.0, 18.0, 20.0, 22.0, 24.0
TA18044	44TD	MM	14.0, 16.0, 18.0, 20.0, 22.0, 24.0

METRIC COARSE SIZES

2.0 x 0.40	5.0 x 0.80	10.0 x 1.50	18.0 x 2.50
2.5 x 0.45	6.0 x 1.00	11.0 x 1.50	20.0 x 2.50
3.0 x 0.50	7.0 x 1.00	12.0 x 1.75	22.0 x 2.50
3.5 x 0.60	8.0 x 1.25	14.0 x 2.00	24.0 x 3.00
4.0 x 0.70	9.0 x 1.25	16.0 x 2.00	

TA18045	45TD	MM-FINE	3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0
TA18046	46TD	MM-FINE	5.0, 6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 12.0
TA18047	47TD	MM-FINE	6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 12.0
TA18048	48TD	MM-FINE	6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 12.0, 14.0, 16.0, 18.0, 20.0
TA18049	49TD	MM-FINE	6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 12.0, 14.0, 16.0, 18.0, 20.0, 22.0, 24.0

METRIC FINE SIZES

3.0 x 0.35	7.0 x 0.75	11.0 x 1.25	18.0 x 1.50
4.0 x 0.50	8.0 x 1.00	12.0 x 1.25	20.0 x 1.50
5.0 x 0.50	9.0 x 1.00	14.0 x 1.50	22.0 x 1.50
6.0 x 0.75	10.0 x 1.25	16.0 x 1.50	24.0 x 2.00
6.0 x 0.75	10.0 x 1.25	16.0 x 1.50	24.0 x 2.00

Dies Filières



Round Dies - TA25

HSS Round Dies - UNC/UNF

- HSS • General Purpose
- Used for threading studs, bolts and rods that require external threads

CODE	SIZE	DIA	THICKNESS
TA25030	0-80 NF	13/16	1/4
TA25001	1-64 NC	13/16	1/4
TA25031	1-72 NF	13/16	1/4
TA25002	2-56 NC	13/16	1/4
TA25032	2-64 NF	13/16	1/4
TA25003	3-48 NC	13/16	1/4
TA25033	3-56 NF	13/16	1/4
TA25004	4-40 NC	13/16	1/4
TA25034	4-48 NF	13/16	1/4
TA25005	5-40 NC	13/16	1/4
TA25035	5-44 NF	13/16	1/4
TA25006	6-32 NC	13/16	1/4
TA25036	6-40 NF	13/16	1/4
TA25008	8-32 NC	13/16	1/4
TA25038	8-36 NF	13/16	1/4
TA25010	10-24 NC	13/16	1/4
TA25040	10-32 NF	13/16	1/4
TA25012	12-24 NC	13/16	1/4
TA25042	12-28 NF	13/16	1/4
TA25204	1/4-20 NC	13/16	1/4
TA25304	1/4-20 NC	1"	3/8
TA25404	1/4-20 NC	1-5/16	7/16
TA25234	1/4-28 NF	13/16	1/4
TA25334	1/4-28 NF	1"	3/8
TA25434	1/4-28 NF	1-5/16	7/16
TA25305	5/16-18 NC	1"	3/8
TA25405	5/16-18 NC	1-5/16	7/16
TA25335	5/16-24 NF	1"	3/8
TA25435	5/16-24 NF	1-5/16	7/16
TA25306	3/8-16 NC	1"	3/8
TA25406	3/8-16 NC	1-5/16	7/16
TA25506	3/8-16 NC	1-1/2	1/2
TA25336	3/8-24 NF	1"	3/8
TA25436	3/8-24 NF	1-5/16	7/16
TA25536	3/8-24 NF	1-1/2	1/2
TA25407	7/16-14 NC	1-5/16	7/16

Filieres Rondes - Acier Rapide - UNC/UNF

- HSS • Usage général
- Utilisé pour le filetage de goujons, boulons et tiges qui nécessitent des filetages externes

CODE	SIZE	DIA	THICKNESS
TA25507	7/16-14 NC	1-1/2	1/2
TA25437	7/16-20 NF	1-5/16	7/16
TA25537	7/16-20 NF	1-1/2	1/2
TA25408	1/2-13 NC	1-5/16	7/16
TA25508	1/2-13 NC	1-1/2	1/2
TA25608	1/2-13 NC	2"	5/8
TA25438	1/2-20 NF	1-5/16	7/16
TA25538	1/2-20 NF	1-1/2	1/2
TA25638	1/2-20 NF	2"	5/8
TA25409	9/16-12 NC	1-5/16	7/16
TA25509	9/16-12 NC	1-1/2	1/2
TA25609	9/16-12 NC	2"	5/8
TA25439	9/16-18 NF	1-5/16	7/16
TA25539	9/16-18 NF	1-1/2	1/2
TA25639	9/16-18 NF	2"	5/8
TA25510	5/8-11 NC	1-1/2	1/2
TA25610	5/8-11 NC	2"	5/8
TA25540	5/8-18 NF	1-1/2	1/2
TA25640	5/8-18 NF	2"	5/8
TA25512	3/4-10 NC	1-1/2	1/2
TA25612	3/4-10 NC	2"	5/8
TA25542	3/4-16 NF	1-1/2	1/2
TA25642	3/4-16 NF	2"	5/8
TA25614	7/8-9 NC	2"	5/8
TA25644	7/8-14 NF	2"	5/8
TA25616	1"-8 NC	2"	5/8
TA25716	1"-8 NC	3"	7/8
TA25646	1"-12 NF	2"	5/8
TA25746	1"-12 NF	3"	7/8
TA25718	1-1/8 7 NC	3"	7/8
TA25748	1-1/8 12 NF	3"	7/8
TA25720	1-1/4 7 NC	3"	7/8
TA25750	1-1/4 12 NF	3"	7/8
TA25722	1-3/8 6 NC	3"	7/8
TA25752	1-3/8 12 NF	3"	7/8
TA25724	1-1/2 6 NC	3"	7/8
TA25754	1-1/2 12 NF	3"	7/8



Round Dies - TA40

HSS Round Dies - Metric

- HSS • General Purpose
- Used for threading studs, bolts and rods that require external threads

CODE	SIZE	DIA	THICKNESS
TA40114	M1.4 X 0.30	13/16	1/4
TA40116	M1.6 X 0.35	13/16	1/4
TA40118	M1.8 X 0.35	13/16	1/4
TA40120	M2.0 X 0.40	13/16	1/4
TA40122	M2.2 X 0.45	13/16	1/4
TA40125	M2.5 X .045	13/16	1/4
TA40130	M3.0 X 0.50	13/16	1/4
TA41003	MF3.0 X 0.35	13/16	1/4
TA40135	M3.5 X 0.60	13/16	1/4
TA40140	M4.0 X 0.70	13/16	1/4
TA40340	M4.0 X 0.70	1"	3/8
TA41004	MF4.0 X 0.50	13/16	1/4
TA40145	M4.5 X 0.75	13/16	1/4
TA40150	M5.0 X 0.80	13/16	1/4
TA40350	M5.0 X 0.80	1"	3/8
TA41005	MF5.0 X 0.50	13/16	1/4
TA40160	M6.0 X 1.00	13/16	1/4
TA40360	M6.0 X 1.00	1"	3/8
TA40560	M6.0 X 1.00	1-5/16	7/16
TA41006	MF6.0 X 0.75	13/16	1/4
TA40170	M7.0 X 1.00	13/16	1/4
TA40370	M7.0 X 1.00	1"	3/8
TA40570	M7.0 X 1.00	1-5/16	7/16
TA40308	M8.0 X 1.25	1"	3/8
TA40508	M8.0 X 1.25	1-5/16	7/16
TA41108	MF8.0 X 1.00	1"	3/8
TA40309	M9.0 X 1.25	1"	3/8
TA40509	M9.0 X 1.25	1-5/16	7/16
TA40310	M10.0 X 1.50	1"	3/8
TA40510	M10.0 X 1.50	1-5/16	7/16
TA40710	M10.0 X 1.50	1-1/2	1/2
TA41010	MF10.0 X 1.00	1"	3/8

Filieres Rondes - Acier Rapide - Metrique

- HSS • Usage général
- Utilisé pour le filetage de goujons, boulons et tiges qui nécessitent des filetages externes

CODE	SIZE	DIA	THICKNESS
TA41110	MF10.0 X 1.25	1"	3/8
TA40511	M11.0 X 1.50	1-5/16	7/16
TA40711	M11.0 X 1.50	1-1/2	1/2
TA40513	M12.0 X 1.75	1-5/16	7/16
TA40713	M12.0 X 1.75	1-1/2	1/2
TA40913	M12.0 X 1.75	2"	5/8
TA41012	MF12.0 X 1.25	1-5/16	7/16
TA40514	M14.0 X 2.00	1-5/16	7/16
TA40714	M14.0 X 2.00	1-1/2	1/2
TA40914	M14.0 X 2.00	2"	5/8
TA41014	MF14.0 X 1.50	1-5/16	7/16
TA40716	M16.0 X 2.00	1-1/2	1/2
TA40916	M16.0 X 2.00	2"	5/8
TA41016	MF16.0 X 1.50	1-1/2	1/2
TA40718	M18.0 X 2.50	1-1/2	1/2
TA40918	M18.0 X 2.50	2"	5/8
TA41018	MF18.0 X 1.50	1-1/2	1/2
TA40720	M20.0 X 2.50	1-1/2	1/2
TA40920	M20.0 X 2.50	2"	5/8
TA41020	MF20.0 X 1.50	2"	5/8
TA40922	M22.0 X 2.50	2"	5/8
TA41022	MF22.0 X 1.50	2"	5/8
TA40924	M24.0 X 3.00	2"	5/8
TA41024	MF24.0 X 2.00	2"	5/8
TA41025	MF25.0 X 1.50	2"	5/8
TA40927	M27.0 X 3.00	3"	7/8
TA41027	MF27.0 X 2.00	3"	7/8
TA40930	M30.0 X 3.50	3"	7/8
TA41030	MF30.0 X 2.00	3"	7/8
TA41032	MF32.0 X 1.50	3"	7/8
TA40933	M33.0 X 3.50	3"	7/8
TA40936	M36.0 X 4.00	3"	7/8
TA40939	M39.0 X 4.00	3"	7/8



Round Dies - TA42

HSS Round Dies - BSW

- HSS • General Purpose
- BSW (British Standard Whitworth) is similar to UNC but differs in that the thread form for a BSW is 55° versus the 60° for UNC
- Used for threading studs, bolts and rods that require external threads

CODE	SIZE	DIA	THICKNESS
TA42004	1/16-60 BSW	13/16	1/4
TA42006	3/32-48 BSW	13/16	1/4
TA42008	1/8-40 BSW	13/16	1/4
TA42010	5/32-32 BSW	13/16	1/4
TA42012	3/16-24 BSW	13/16	1/4
TA42014	7/32-24 BSW	13/16	1/4
TA42016	1/4-20 BSW	13/16	1/4
TA42116	1/4-20 BSW	1"	3/8
TA42216	1/4-20 BSW	1-5/16	7/16
TA42120	5/16-18 BSW	1"	3/8
TA42220	5/16-18 BSW	1-5/16	7/16
TA42124	3/8-16 BSW	1"	3/8
TA42224	3/8-16 BSW	1-5/16	7/16
TA42324	3/8-16 BSW	1-1/2	1/2
TA42228	7/16-14 BSW	1-5/16	7/16
TA42328	7/16-14 BSW	1-1/2	1/2

Filieres Rondes - Acier Rapide - BSW

- HSS • Usage général
- BSW (British Standard Whitworth) est similaire à UNC mais diffère en ce que la forme de filetage d'un BSW est de 55° contre 60° pour UNC
- Utilisé pour le filetage de goujons, boulons et tiges qui nécessitent des filetages externes

CODE	SIZE	DIA	THICKNESS
TA42232	1/2-12 BSW	1-5/16	7/16
TA42332	1/2-12 BSW	1-1/2	1/2
TA42432	1/2-12 BSW	2"	5/8
TA42236	9/16-12 BSW	1-5/16	7/16
TA42336	9/16-12 BSW	1-1/2	1/2
TA42436	9/16-12 BSW	2"	5/8
TA42340	5/8-11 BSW	1-1/2	1/2
TA42440	5/8-11 BSW	2"	5/8
TA42348	3/4-10 BSW	1-1/2	1/2
TA42448	3/4-10 BSW	2"	5/8
TA42456	7/8-9 BSW	2"	5/8
TA42464	1"-8 BSW	2"	5/8
TA42564	1"-8 BSW	3"	7/8
TA42572	1-1/8-7 BSW	3"	7/8
TA42580	1-1/4-7 BSW	3"	7/8
TA42596	1-1/2-6 BSW	3"	7/8



Round Dies - TA43

HSS Round Dies - BSF

- HSS • General Purpose
- BSF (British Standard Fine) is a finer pitch series, also with a 55° Thread Form
- Used for threading studs, bolts and rods that require external threads

CODE	SIZE	DIA	THICKNESS
TA43006	3/16-32 BSF	13/16	1/4
TA43016	1/4-26 BSF	13/16	1/4
TA43116	1/4-26 BSF	1"	3/8
TA43216	1/4-26 BSF	1-5/16	7/16
TA43120	5/16-22 BSF	1"	3/8
TA43220	5/16-22 BSF	1-5/16	7/16
TA43124	3/8-20 BSF	1"	3/8
TA43224	3/8-20 BSF	1-5/16	7/16
TA43324	3/8-20 BSF	1-1/2	1/2
TA43228	7/16-18 BSF	1-5/16	7/16
TA43328	7/16-18 BSF	1-1/2	1/2
TA43232	1/2-16 BSF	1-5/16	7/16
TA43332	1/2-16 BSF	1-1/2	1/2
TA43432	1/2-16 BSF	2"	5/8

Filieres Rondes - Acier Rapide - BSF

- HSS • Usage général
- BSF (British Standard Fine) est une série à pas plus fin, également avec une forme de filetage à 55°
- Utilisé pour le filetage de goujons, boulons et tiges qui nécessitent des filetages externes

CODE	SIZE	DIA	THICKNESS
TA43236	9/16-16 BSF	1-5/16	7/16
TA43336	9/16-16 BSF	1-1/2	1/2
TA43436	9/16-16 BSF	2"	5/8
TA43340	5/8-14 BSF	1-1/2	1/2
TA43440	5/8-14 BSF	2"	5/8
TA43348	3/4-12 BSF	1-1/2	1/2
TA43448	3/4-12 BSF	2"	5/8
TA43456	7/8-11 BSF	2"	5/8
TA43464	1"-10 BSF	2"	5/8
TA43564	1"-10 BSF	3"	7/8
TA43572	1-1/8 9 BSF	3"	7/8
TA43580	1-1/4 9 BSF	3"	7/8
TA43596	1-1/2 8 BSF	3"	7/8



Round Dies - TA44

HSS Round Dies - BA

- HSS • General Purpose
- BA (British Association) is a metric thread system devised by the British for small screws used in components with a Thread Form of 47 1/2°
- Used for threading studs, bolts and rods that require external threads

CODE	SIZE	DIA	THICKNESS
TA44012	12 X 0.28 BA	13/16	1/4
TA44010	10 X 0.35 BA	13/16	1/4
TA44009	9 X 0.39 BA	13/16	1/4
TA44008	8 X 0.43 BA	13/16	1/4
TA44007	7 X 0.48 BA	13/16	1/4
TA44006	6 X 0.53 BA	13/16	1/4
TA44005	5 X 0.59 BA	13/16	1/4
TA44004	4 X 0.66 BA	13/16	1/4

Filieres Rondes - Acier Rapide - BA

- HSS • Usage général
- BA (British Association) est un système de filetage métrique conçu par les Britanniques pour les petites vis utilisées dans composants avec une forme de filetage de 47 1/2°
- Utilisé pour le filetage de goujons, boulons et tiges qui nécessitent des filetages externes

CODE	SIZE	DIA	THICKNESS
TA44003	3 X 0.73 BA	13/16	1/4
TA44002	2 X 0.81 BA	13/16	1/4
TA44102	2 X 0.81 BA	1"	3/8
TA44001	1 X 0.90 BA	13/16	1/4
TA44101	1 X 0.90 BA	1"	3/8
TA44000	0 X 1.00 BA	13/16	1/4
TA44100	0 X 1.00 BA	1"	3/8



Round Pipe Dies - TA26

HSS Round Pipe Dies - NPT

- HSS • General Purpose
- NPT (National Pipe Thread Tapered) – 60° Thread Form
- Used to create external pipe and conduit threads.

CODE	SIZE	DIA	THICKNESS
TA26008	1/8-27 NPT	1"	3/8
TA26108	1/8-27 NPT	1-5/16	7/16
TA26208	1/8-27 NPT	1-1/2	1/2
TA26116	1/4-18 NPT	1-5/16	7/16
TA26216	1/4-18 NPT	1-1/2	1/2
TA26316	1/4-18 NPT	2"	5/8
TA26224	3/8-18 NPT	1-1/2	1/2
TA26324	3/8-18 NPT	2"	5/8

Filieres Rondes Au Pas De Gaz - Acier Rapide - NPT

- HSS • Usage général
- NPT (National Pipe Thread Tapered) - Forme de filetage 60 °
- Utilisé pour créer des filetages de tuyaux et de conduits externes.

CODE	SIZE	DIA	THICKNESS
TA26332	1/2-14 NPT	2"	5/8
TA26348	3/4-14 NPT	2"	5/8
TA26564	1"-11.5 NPT	3"	7/8
TA26580	1-1/4 11.5 NPT	3"	7/8
TA26696	1-1/2 11.5 NPT	4"	1"
TA26700	2"-11.5 NPT	4"	1"



Round Pipe Dies - TA27

HSS Round Pipe Dies - BSPT

- HSS • General Purpose
- BSPT (British Standard Taper Pipe) – 55° Thread Form
- This thread is tapered, with an 'interference' fit, unlike BSP, it needs no seals or gaskets
- Used to create external pipe and conduit threads

CODE	SIZE	DIA	THICKNESS
TA27008	1/8-28 BSPT	1"	3/8
TA27108	1/8-28 BSPT	1-5/16	7/16
TA27208	1/8-28 BSPT	1-1/2	1/2
TA27116	1/4-19 BSPT	1-5/16	7/16
TA27216	1/4-19 BSPT	1-1/2	1/2
TA27316	1/4-19 BSPT	2"	5/8
TA27234	3/8-19 BSPT	2"	5/8

Filieres Rondes Au Pas De Gaz - Acier Rapise - BSPT

- HSS • Usage général
- BSPT (British Standard Taper Pipe) - Forme de filetage 55 °
- Ce filetage est conique, avec un ajustement " serré ", contrairement au BSP, il n'a pas besoin de joints ou de joints d'étanchéité
- Utilisé pour créer des filetages de tuyaux et de conduits externes

CODE	SIZE	DIA	THICKNESS
TA27332	1/2-14 BSPT	2"	5/8
TA27348	3/4-14 BSPT	2"	5/8
TA27464	1"-11 BSPT	2-1/4	11/16
TA27564	1"-11 BSPT	3"	7/8
TA27580	1-1/4 11 BSPT	3"	7/8
TA27696	1-1/2 11 BSPT	4"	1"
TA27700	2"-11 BSPT	4"	1"



Round Pipe Dies - TA28

HSS Round Pipe Dies - BSP

- HSS • General Purpose
- BSP (British Standard Pipe) - 55° Thread Form
- This thread is not tapered (parallel) and needs a gasket or seal to be gas/liquid tight.
- Used to create external pipe and conduit threads

CODE	SIZE	DIA	THICKNESS
TA28008	1/8-28 BSPF	1"	3/8
TA28108	1/8-28 BSPF	1-5/16	7/16
TA28208	1/8-28 BSPF	1-1/2	1/2
TA28116	1/4-19 BSPF	1-5/16	7/16
TA28216	1/4-19 BSPF	1-1/2	1/2
TA28316	1/4-19 BSPF	2"	5/8

Filieres Rondes Au Pas De Gaz - Acier Rapide - BSP

- HSS • Usage général
- BSP (British Standard Pipe) - Forme de filetage 55 °
- Ce filetage n'est pas conique (parallèle) et nécessite un joint ou un joint étanche aux gaz / liquides.
- Utilisé pour créer des tuyaux et conduits externes

CODE	SIZE	DIA	THICKNESS
TA28224	3/8-19 BSPF	1-1/2	1/2
TA28324	3/8-19 BSPF	2"	5/8
TA28332	1/2-14 BSPF	2"	5/8
TA28340	5/8-14 BSPF	2"	5/8
TA28348	3/4-14 BSPF	2"	5/8
TA28464	1"-11 BSPF	2-1/4	11/16
TA28564	1"-11 BSPF	3"	7/8
TA28580	1-1/4 11 BSPF	3"	7/8



Round Dies - Left Hand - TA29

HSS Round Dies - UNC/UNF - Left Hand

- HSS • General Purpose
- Left Hand thread
- Used for threading studs, bolts and rods that require external threads

CODE	SIZE	DIA	THICKNESS
TA29030	0-80 NF	13/16	1/4
TA29002	2-56 NC	13/16	1/4
TA29032	2-64 NF	13/16	1/4
TA29004	4-40 NC	13/16	1/4
TA29005	5-40 NC	13/16	1/4
TA29006	6-32 NC	13/16	1/4
TA29008	8-32 NC	13/16	1/4
TA29010	10-24 NC	13/16	1/4
TA29304	1/4-20 NC	1"	3/8
TA29334	1/4-28 NF	1"	3/8
TA29305	5/16-18 NC	1"	3/8
TA29335	5/16-24 NF	1"	3/8
TA29306	3/8-16 NC	1"	3/8
TA29506	3/8-16 NC	1-1/2	1/2
TA29336	3/8-24 NF	1"	3/8
TA29536	3/8-24 NF	1-1/2	1/2
TA29507	7/16-14 NC	1-1/2	1/2
TA29537	7/16-20 NF	1-1/2	1/2

Filieres Rondes - Acier Rapide - UNC/UNF Coupe A Gauche

- HSS • Usage général
- Filetage à gauche
- Utilisé pour le filetage de goujons, boulons et tiges qui nécessitent des filetages externes

CODE	SIZE	DIA	THICKNESS
TA29508	1/2-13 NC	1-1/2	1/2
TA29538	1/2-20 NF	1-1/2	1/2
TA29509	9/16-12 NC	1-1/2	1/2
TA29539	9/16-18 NF	1-1/2	1/2
TA29510	5/8-11 NC	1-1/2	1/2
TA29540	5/8-18 NF	1-1/2	1/2
TA29512	3/4-10 NC	1-1/2	1/2
TA29612	3/4-10 NC	2"	5/8
TA29542	3/4-16 NF	1-1/2	1/2
TA29642	3/4-16 NF	2"	5/8
TA29614	7/8-9 NC	2"	5/8
TA29644	7/8-14 NF	2"	5/8
TA29616	1"-8 NC	2"	5/8
TA29646	1"-12 NF	2"	5/8
TA29724	1-1/2 6 NC	3"	7/8
TA29754	1-1/2 12 NF	3"	7/8



Hexagon Rethreading Dies - TA80

Hexagonal Die Nuts - UNC/UNF

- Carbon Steel
- These are not recommended for cutting new threads
- Hex dies are used for thread repair and maintenance applications, usually for rusty or damaged threads

CODE	SIZE	DIA	THICKNESS
TA80004	1/4-20 NC	0.710	1/4
TA80304	1/4-28 NF	0.710	1/4
TA80005	5/16-18 NC	0.820	5/16
TA80305	5/16-24 NF	0.820	5/16
TA80006	3/8-16 NC	0.920	3/8
TA80306	3/8-24 NF	0.920	3/8
TA80007	7/16-14 NC	1.010	7/16
TA80307	7/16-20 NF	1.010	7/16
TA80008	1/2-13 NC	1.100	1/2
TA80308	1/2-20 NF	1.100	1/2
TA80009	9/16-12 NC	1.300	5/8
TA80309	9/16-18 NF	1.300	5/8
TA80010	5/8-11 NC	1.300	5/8
TA80310	5/8-18 NF	1.300	5/8

Filières Hexagonales - UNC/UNF

- Acier au carbone
- Ceux-ci ne sont pas recommandés pour couper de nouveaux filetages
- Les filières hexagonales sont utilisées pour les applications de réparation et d'entretien des filetages, généralement pour la rouille ou les dommages

CODE	SIZE	DIA	THICKNESS
TA80012	3/4-10 NC	1.480	11/16
TA80312	3/4-16 NF	1.480	11/16
TA80014	7/8-9 NC	1.670	13/16
TA80314	7/8-14 NF	1.670	13/16
TA80016	1"-8 NC	2.050	15/16
TA80316	1"-12 NF	2.050	15/16
TA80416	1"-14 NS	2.050	15/16
TA80018	1-1/8 7 NC	2.220	1-1/16
TA80318	1-1/8 12 NF	2.220	1-1/16
TA80020	1-1/4 7 NC	2.220	1-1/16
TA80320	1-1/4 12 NF	2.220	1-1/16
TA80022	1-3/8 6 NC	2.580	1-1/8
TA80322	1-3/8 12 NF	2.580	1-1/8
TA80024	1-1/2 6 NC	2.760	1-1/4
TA80324	1-1/2 12 NF	2.760	1-1/4



Hexagon Rethreading Dies - TA80

Hexagonal Die Nuts - Metric

- Carbon Steel
- These are not recommended for cutting new threads
- Hex dies are used for thread repair and maintenance applications, usually for rusty or damaged threads

CODE	SIZE	HEX SIZE	THICKNESS
TA80500	M2.0 X 0.40	0.710	1/4
TA80501	M2.2 X 0.45	0.710	1/4
TA80502	M2.5 X 0.45	0.710	1/4
TA80503	M3.0 X 0.50	0.710	1/4
TA80903	M3.5 X 0.60	0.710	1/4
TA80504	M4.0 X 0.70	0.710	1/4
TA80904	M4.5 X 0.75	0.710	1/4
TA80605	MF5.0 X 0.50	0.710	1/4
TA80505	M5.0 X 0.80	0.710	1/4
TA80606	MF6.0 X 0.75	0.710	1/4
TA80506	M6.0 X 1.00	0.710	1/4
TA80706	M6.0 X 1.25	0.710	1/4
TA80507	M7.0 X 1.00	0.820	5/16
TA80808	M8.0 X 0.75	0.820	5/16
TA80608	MF8.0 X 1.00	0.820	5/16
TA80508	M8.0 X 1.25	0.820	5/16
TA80708	M8.0 X 1.50	0.820	5/16
TA80509	M9.0 X 1.25	0.920	3/8
TA80610	MF10.0 X 1.00	0.920	3/8
TA80910	M10.0 X 1.25	0.920	3/8
TA80510	M10.0 X 1.50	0.920	3/8
TA80711	M11.0 X 0.50	1.010	7/16
TA80611	M11.0 X 1.25	1.010	7/16
TA80511	M11.0 X 1.50	1.010	7/16
TA80912	M12.0 X 1.00	1.100	1/2
TA80612	MF12.0 X 1.25	1.100	1/2
TA80952	M12.0 X 1.50	1.100	1/2
TA80512	M12.0 X 1.75	1.100	1/2
TA80714	M14.0 X 1.00	1.300	5/8
TA80954	M14.0 X 1.25	1.300	5/8
TA80614	MF14.0 X 1.50	1.300	5/8
TA80514	M14.0 X 2.00	1.300	5/8

Filieres Hexagonales - Metrique

- Acier au carbone
- Ceux-ci ne sont pas recommandés pour couper de nouveaux filetages
- Les filieres hexagonales sont utilisées pour les applications de réparation et d'entretien des filetages, généralement pour la rouille ou les dommages

CODE	SIZE	HEX SIZE	THICKNESS
TA80716	M16.0 X 1.00	1.300	5/8
TA80616	MF16.0 X 1.50	1.300	5/8
TA80516	M16.0 X 2.00	1.300	5/8
TA80718	M18.0 X 1.00	1.480	11/16
TA80618	MF18.0 X 1.50	1.480	11/16
TA80518	M18.0 X 2.50	1.480	11/16
TA80720	M20.0 X 1.00	1.480	11/16
TA80620	MF20.0 X 1.50	1.480	11/16
TA80920	M20.0 X 2.00	1.480	11/16
TA80520	M20.0 X 2.50	1.480	11/16
TA80722	M22.0 X 1.00	1.670	13/16
TA80622	MF22.0 X 1.50	1.670	13/16
TA80522	M22.0 X 2.50	1.670	13/16
TA80824	M24.0 X 1.50	2.050	15/16
TA80624	MF24.0 X 2.00	2.050	15/16
TA80524	M24.0 X 3.00	2.050	15/16
TA80625	MF25.0 X 1.50	2.050	15/16
TA80627	M27.0 X 1.50	2.220	1-1/16
TA80827	M27.0 X 2.00	2.220	1-1/16
TA80527	M27.0 X 3.00	2.220	1-1/16
TA80830	M30.0 X 1.50	2.220	1-1/16
TA80630	M30.0 X 2.00	2.220	1-1/16
TA80530	M30.0 X 3.50	2.220	1-1/16
TA80533	M33.0 X 3.50	2.580	1-1/8
TA80536	M36.0 X 4.00	2.760	1-1/4
TA80539	M39.0 X 4.00	2.760	1-1/4
TA80542	M42.0 X 4.50	3.150	1-1/4
TA80545	M45.0 X 4.50	3.150	1-1/4
TA80548	M48.0 X 5.00	3.150	1-1/4
TA80552	M52.0 X 5.00	3.550	1-1/4



Hexagon Rethreading Dies - TA80

Hexagonal Die Nuts - NPT

- Carbon Steel
- NPT pipe thread
- These are not recommended for cutting new threads
- Hex dies are used for thread repair and maintenance applications, usually for rusty or damaged threads

CODE	SIZE
TA80102	1/8-27 NPT
TA80104	1/4-18 NPT
TA80106	3/8-18 NPT
TA80108	1/2-14 NPT

Filières Hexagonales - NPT

- Acier au carbone
- Filetage NPT
- Ceux-ci ne sont pas recommandés pour couper de nouveaux filetages.
- Les filières hexagonales sont utilisées pour les applications de réparation et d'entretien des filetages, généralement pour la rouille ou les dommages

CODE	SIZE
TA80112	3/4-14 NPT
TA80116	1"-11.5 NPT
TA80120	1-1/4-11.5 NPT
TA80124	1-1/2-11.5 NPT
TA80132	2" NPT



Hexagon Rethreading Dies - TA82

Hexagonal Die Nuts - Left Hand

- Carbon Steel
- Left Hand thread
- These are not recommended for cutting new threads
- Hex dies are used for thread repair and maintenance applications, usually for rusty or damaged threads

CODE	SIZE	HEX SIZE	THICKNESS
TA82004	1/4-20 NC	0.710	1/4
TA82304	1/4-28 NF	0.710	1/4
TA82005	5/16-18 NC	0.820	5/16
TA82305	5/16-24 NF	0.820	5/16
TA82006	3/8-16 NC	0.920	3/8
TA82306	3/8-24 NF	0.920	3/8
TA82007	7/16-14 NC	1.010	7/16
TA82307	7/16-20 NF	1.010	7/16
TA82008	1/2-13 NC	1.100	1/2
TA82308	1/2-20 NF	1.100	1/2
TA82009	9/16-12 NC	1.300	5/8
TA82309	9/16-18 NF	1.300	5/8
TA82010	5/8-11 NC	1.300	5/8
TA82310	5/8-18 NF	1.300	5/8

Filières Hexagonales - Coupe A Gauche

- Acier au carbone
- Filetage à gauche
- Ceux-ci ne sont pas recommandés pour couper de nouveaux filetages.
- Les filières hexagonales sont utilisées pour les applications de réparation et d'entretien des filetages, généralement pour la rouille ou les dommages

CODE	SIZE	HEX SIZE	THICKNESS
TA82012	3/4-10 NC	1.480	11/16
TA82312	3/4-16 NF	1.480	11/16
TA82014	7/8-9 NC	1.670	13/16
TA82314	7/8-14 NF	1.670	13/16
TA82016	1"-8 NC	2.050	15/16
TA82316	1"-12 NF	2.050	15/16
TA82416	1"-14 NS	2.050	15/16
TA82018	1-1/8 7 NC	2.220	1-1/16
TA82318	1-1/8 12 NF	2.220	1-1/16
TA82020	1-1/4 7 NC	2.220	1-1/16
TA82320	1-1/4 12 NF	2.220	1-1/16
TA82022	1-3/8 6 NC	2.580	1-1/8
TA82322	1-3/8 12 NF	2.580	1-1/8
TA82024	1-1/2 6 NC	2.760	1-1/4
TA82324	1-1/2 12 NF	2.760	1-1/4



Hexagon Dies - TA81

Hexagonal Die Nuts - UNC/UNF

- HSS
- These dies are suitable for cutting new threads
- Used for threading studs, bolts and rods that require external threads

CODE	SIZE	HEX SIZE	THICKNESS
TA81004	1/4-20 NC	0.710	1/4
TA81304	1/4-28 NF	0.710	1/4
TA81005	5/16-18 NC	0.820	5/16
TA81305	5/16-24 NF	0.820	5/16
TA81006	3/8-16 NC	0.920	3/8
TA81306	3/8-24 NF	0.920	3/8
TA81007	7/16-14 NC	1.010	7/16
TA81307	7/16-20 NF	1.010	7/16
TA81008	1/2-13 NC	1.100	1/2
TA81308	1/2-20 NF	1.100	1/2
TA81009	9/16-12 NC	1.300	5/8
TA81309	9/16-18 NF	1.300	5/8
TA81010	5/8-11 NC	1.300	5/8
TA81310	5/8-18 NF	1.300	5/8
TA81012	3/4-10 NC	1.480	11/16
TA81312	3/4-16 NF	1.480	11/16

Filieres Hexagonales - UNC/UNF

- HSS
- Ces filieres conviennent à la coupe de nouveaux filetages
- Utilisées pour le filetage de goujons, boulons et tiges qui nécessitent des filetages externes

CODE	SIZE	HEX SIZE	THICKNESS
TA81014	7/8-9 NC	1.670	13/16
TA81314	7/8-14 NF	1.670	13/16
TA81016	1"-8 NC	2.050	15/16
TA81316	1"-12 NF	2.050	15/16
TA81018	1-1/8 7 NC	2.220	1-1/16
TA81318	1-1/8 12 NF	2.220	1-1/16
TA81020	1-1/4 7 NC	2.220	1-1/16
TA81320	1-1/4 12 NF	2.220	1-1/16
TA81022	1-3/8 6 NC	2.580	1-1/8
TA81322	1-3/8 12 NF	2.580	1-1/8
TA81024	1-1/2 6 NC	2.760	1-1/4
TA81324	1-1/2 12 NF	2.760	1-1/4
TA81026	1-3/4 5 NC	3.150	1-3/8
TA81028	2" 4-1/2 NC	3.550	1-3/4



Hexagon Dies - TA81

Hexagonal Die Nuts - Metric

- HSS
- These dies are suitable for cutting new threads
- Used for threading studs, bolts and rods that require external threads

CODE	SIZE	HEX SIZE	THICKNESS
TA81603	M3.0 X 0.35	0.710	1/4
TA81503	M3.0 X 0.50	0.710	1/4
TA81604	M4.0 X 0.50	0.710	1/4
TA81504	M4.0 X 0.70	0.710	1/4
TA81605	M5.0 X 0.50	0.710	1/4
TA81505	M5.0 X 0.80	0.710	1/4
TA81606	M6.0 X 0.75	0.710	1/4
TA81506	M6.0 X 1.00	0.710	1/4
TA81607	M7.0 X 0.75	0.820	5/16
TA81507	M7.0 X 1.00	0.820	5/16
TA81808	M8.0 X 0.75	0.820	5/16
TA81608	M8.0 X 1.00	0.820	5/16
TA81508	M8.0 X 1.25	0.820	5/16
TA81509	M9.0 X 1.25	0.920	3/8
TA81610	M10.0 X 1.00	0.920	3/8
TA81910	M10.0 X 1.25	0.920	3/8
TA81510	M10.0 X 1.50	0.920	3/8
TA81511	M11.0 X 1.50	1.010	7/16
TA81912	M12.0 X 1.00	1.100	1/2
TA81612	M12.0 X 1.25	1.100	1/2
TA81512	M12.0 X 1.75	1.100	1/2
TA81954	M14.0 X 1.25	1.300	5/8
TA81614	M14.0 X 1.50	1.300	5/8
TA81514	M14.0 X 2.00	1.300	5/8

Filieres Hexagonales - Acier Rapide Metrique

- HSS
- Ces filieres conviennent à la coupe de nouveaux filetages
- Utilisées pour le filetage de goujons, boulons et tiges qui nécessitent des filetages externes

CODE	SIZE	HEX SIZE	THICKNESS
TA81636	M16.0 X 1.00	1.300	5/8
TA81616	M16.0 X 1.50	1.300	5/8
TA81516	M16.0 X 2.00	1.300	5/8
TA81618	M18.0 X 1.50	1.480	11/16
TA81518	M18.0 X 2.50	1.480	11/16
TA81640	M20.0 X 1.00	1.480	11/16
TA81620	M20.0 X 1.50	1.480	11/16
TA81920	M20.0 X 2.00	1.480	11/16
TA81520	M20.0 X 2.50	1.480	11/16
TA81622	M22.0 X 1.50	1.670	13/16
TA81522	M22.0 X 2.50	1.670	13/16
TA81644	M24.0 X 1.50	2.050	15/16
TA81624	M24.0 X 2.00	2.050	15/16
TA81524	M24.0 X 3.00	2.050	15/16
TA81625	M25.0 X 1.50	2.050	15/16
TA81827	M27.0 X 2.00	2.220	1-1/16
TA81527	M27.0 X 3.00	2.220	1-1/16
TA81830	M30.0 X 1.50	2.220	1-1/16
TA81630	M30.0 X 2.00	2.220	1-1/16
TA81530	M30.0 X 3.50	2.220	1-1/16
TA81533	M33.0 X 3.50	2.580	1-1/8
TA81536	M36.0 X 4.00	2.760	1-1/4



Hexagon Dies - TA81

Hexagonal Die Nuts - BSW · BSF · BA

- HSS
- BSW (British Standard Whitworth), BSF (British Standard Fine), and BA (British Association) thread styles
- These dies are suitable for cutting new threads
- Used for threading studs, bolts and rods that require external threads

CODE	SIZE	HEX SIZE	THICKNESS
BSW			
TA81708	1/8-40 BSW	0.710	1/4
TA81712	3/16-24 BSW	0.710	1/4
TA81716	1/4-20 BSW	0.710	1/4
TA81720	5/16-18 BSW	0.820	5/16
TA81724	3/8-16 BSW	0.920	3/8
TA81728	7/16-14 BSW	1.010	7/16
TA81732	1/2-12 BSW	1.100	1/2
TA81736	9/16-12 BSW	1.300	5/8
TA81740	5/8-11 BSW	1.300	5/8
TA81748	3/4-10 BSW	1.480	11/16
TA81756	7/8-9 BSW	1.670	13/16
TA81764	1"-8 BSW	2.050	15/16
TA81772	1-1/8 7 BSW	2.220	1-1/16
TA81780	1-1/4 7 BSW	2.220	1-1/16
TA81796	1-1/2 6 BSW	2.760	1-1/4
TA81797	1-3/4 5 BSW	3.150	1-3/8
TA81798	2" 4-1/2 BSW	3.550	1-3/4
BA			
TA81900	0 X 1.00 BA	0.710	1/4
TA81902	2 X 0.81 BA	0.710	1/4
TA81904	4 X 0.66 BA	0.710	1/4
TA81906	6 X 0.53 BA	0.710	1/4



CODE	NO	DIE OD
TA46001	DS1	13/16
TA46002	DS2	1"
TA46006	DS3	1-5/16
TA46003	DS4	1-1/2

Filières Hexagonales - Acier Rapide BSW · BSF · BA

- HSS
- BSW (British Standard Whitworth), BSF (British Standard Fine), et BA (British Association)
- Ces filières sont adaptées à la découpe de nouveaux filetages
- Utilisés pour le filetage de goujons, de boulons et de tiges qui nécessitent un filetage extérieur

CODE	SIZE	HEX SIZE	THICKNESS
BSF			
TA81816	1/4-26 BSF	0.710	1/4
TA81820	5/16-22 BSF	0.820	5/16
TA81824	3/8-20 BSF	0.920	3/8
TA81828	7/16-18 BSF	1.010	7/16
TA81832	1/2-16 BSF	1.100	1/2
TA81836	9/16-16 BSF	1.300	5/8
TA81840	5/8-14 BSF	1.300	5/8
TA81844	11/16-14 BSF	1.480	11/16
TA81848	3/4-12 BSF	1.480	11/16
TA81856	7/8-11 BSF	1.670	13/16
TA81864	1"-10 BSF	2.050	15/16
TA81872	1-1/8 9 BSF	2.220	1-1/16
TA81880	1-1/4 9 BSF	2.220	1-1/16
TA81896	1-1/2 8 BSF	2.760	1-1/4
TA81897	1-3/4 7 BSF	3.150	1-3/8
TA81898	2"-7 BSF	3.550	1-3/4

Die Stocks - TA46

Die Stocks

- Used for round dies

Porte Filières

- Utilisé pour les filières rondes

CODE	NO	DIE OD
TA46004	DS5	2"
TA46009	DS6	2-1/4
TA46008	DS6A	2-1/2
TA46007	DS7	3"
TA46010	DS8	4"



Tap Wrenches - TA45

Tap Wrenches

- "TW-Style" is used for taps (including larger sizes) as well as hand reamers
- "T-style" is used for smaller tap sizes and screw extractors

Tourne A Gauche Droits

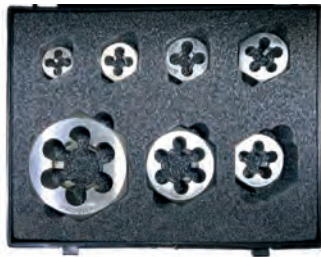
- "TW-Style" est utilisé pour les tarauds de grandes tailles ainsi que les alésoirs à main
- "T-style" est utilisé pour les tarauds de petites tailles et les extracteurs à vis

TW

CODE	NO	TYPE	FROM	TO
TA45001	TW1	BAR	1/16 M2.0	1/4 M6.0
TA45002	TW2	BAR	1/8 M3.0	1/2 M12.0
TA45003	TW3	ADJ	5/32 M4.0	1/2 M12.0
TA45004	TW4	ADJ	7/32 M6.0	3/4 M20.0
TA45005	TW5	ADJ	7/16 M9.0	1" M27.0
TA45006	TW6	ADJ	3/4 M18.0	1-1/2 M42.0
TA45007	TW7	ADJ	1" M24.0	2-1/2 M50.0

T-STYLE

CODE	NO	TYPE	FROM	TO
TA45983	T1	T STD	1/16 M1.0	1/4 M6.0
TA45984	T2	T STD	1/4 M6.0	1/2 M12.0
TA45985	TL3	T LONG	1/16 M1.0	1/4 M6.0
TA45986	TL4	T LONG	1/4 M6.0	1/2 M12.0



Die Sets - TA188 • TA189

Hexagonal Die Nuts - Sets

- Available in HSS and Carbon Steel
- Various set configurations in UNC, UNF, BSW and BSF thread styles

Filières Hexagonales - Sets

- Disponible en HSS et en acier au carbone
- Différentes configurations de jeu dans les styles de filetage UNC, UNF, BSW et BSF

CODE	MATERIAL	INCLUDES
TA18801	CARBON	BSW 1/4, 5/16, 3/8, 7/16, 1/2
TA18802	CARBON	BSW 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4
TA18803	CARBON	BSW 1/4, 5/16, 3/8, 7/16, 1/2, 3/4, 1"
TA18811	CARBON	BSF 1/4, 5/16, 3/8, 7/16, 1/2
TA18812	CARBON	BSF 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4
TA18813	CARBON	BSF 1/4, 5/16, 3/8, 7/16, 1/2, 3/4, 1"
TA18821	CARBON	UNC 1/4, 5/16, 3/8, 7/16, 1/2
TA18822	CARBON	UNC 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4
TA18823	CARBON	UNC 1/4, 5/16, 3/8, 7/16, 1/2, 3/4, 1"
TA18831	CARBON	UNF 1/4, 5/16, 3/8, 7/16, 1/2
TA18832	CARBON	UNF 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4
TA18833	CARBON	UNF 1/4, 5/16, 3/8, 7/16, 1/2, 3/4, 1"

CODE	MATERIAL	INCLUDES
TA18901	HSS	BSW 1/4, 5/16, 3/8, 7/16, 1/2
TA18902	HSS	BSW 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4
TA18903	HSS	BSW 1/4, 5/16, 3/8, 7/16, 1/2, 3/4, 1"
TA18911	HSS	BSF 1/4, 5/16, 3/8, 7/16, 1/2
TA18912	HSS	BSF 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4
TA18913	HSS	BSF 1/4, 5/16, 3/8, 7/16, 1/2, 3/4, 1"
TA18921	HSS	UNC 1/4, 5/16, 3/8, 7/16, 1/2
TA18922	HSS	UNC 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4
TA18923	HSS	UNC 1/4, 5/16, 3/8, 7/16, 1/2, 3/4, 1"
TA18931	HSS	UNF 1/4, 5/16, 3/8, 7/16, 1/2
TA18932	HSS	UNF 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4
TA18933	HSS	UNF 1/4, 5/16, 3/8, 7/16, 1/2, 3/4, 1"

Reamers Alesoirs



Solid Carbide Chucking Reamer - SC80

Solid Carbide Chucking Reamer

- Premium Micrograin Carbide
- Bright Finish
- Straight Shank
- Right Hand Cut • Straight Flute
- Straight flute reamers are used in general purpose reaming applications in Ferrous and Non-Ferrous materials up to RC40

Alesoirs En Bout - En Carbure

- Carbure Micrograin Premium
- Finition brillante
- Queue droite
- Coupe à droite • Cannelures droite
- Les alésoirs à flûte droite sont utilisés dans les applications d'alésage à usage général dans les métaux ferreux et non-ferreux jusqu'à RC40

FRAC	NO/LTR	DEC	FLUTE	LENGTH	CODE
	56	0.0465	3/8	1-1/2	SC80756
3/64		0.0469	3/8	1-1/2	SC80046
	55	0.0520	3/8	1-1/2	SC80755
	54	0.0550	3/8	1-1/2	SC80754
	53	0.0595	3/8	1-1/2	SC80753
1/16		0.0625	3/8	1-1/2	SC80062
	52	0.0635	3/8	1-1/2	SC80752
	51	0.0670	1/2	1-3/4	SC80751
	50	0.0700	1/2	1-3/4	SC80750
	49	0.0730	1/2	1-3/4	SC80749
	48	0.0760	1/2	1-3/4	SC80748
5/64		0.0781	1/2	1-3/4	SC80078
	47	0.0785	1/2	1-3/4	SC80747
	46	0.0810	1/2	2"	SC80746
	45	0.0820	1/2	2"	SC80745
	44	0.0860	1/2	2"	SC80744
	43	0.0890	1/2	2"	SC80743
	42	0.0935	1/2	2"	SC80742
3/32		0.0938	1/2	2"	SC80093
	41	0.0960	5/8	2-1/4	SC80741
	40	0.0980	5/8	2-1/4	SC80740
	39	0.0995	5/8	2-1/4	SC80739
	38	0.1015	5/8	2-1/4	SC80738
	37	0.1040	5/8	2-1/4	SC80737
	36	0.1065	5/8	2-1/4	SC80736
7/64		0.1094	5/8	2-1/4	SC80109
	35	0.1100	5/8	2-1/4	SC80735
	34	0.1110	5/8	2-1/4	SC80734
	33	0.1130	5/8	2-1/4	SC80733
	32	0.1160	5/8	2-1/4	SC80732

FRAC	NO/LTR	DEC	FLUTE	LENGTH	CODE
	31	0.1200	5/8	2-1/4	SC80731
1/8		0.1250	5/8	2-1/4	SC80125
	30	0.1285	5/8	2-1/4	SC80730
	29	0.1360	3/4	2-1/2	SC80729
	28	0.1405	3/4	2-1/2	SC80728
9/64		0.1406	3/4	2-1/2	SC80140
	27	0.1440	3/4	2-1/2	SC80727
	26	0.1470	3/4	2-1/2	SC80726
	25	0.1495	3/4	2-1/2	SC80725
	24	0.1520	3/4	2-1/2	SC80724
	23	0.1540	3/4	2-1/2	SC80723
5/32		0.1562	3/4	2-1/2	SC80156
	22	0.1570	3/4	2-1/2	SC80722
	21	0.1590	3/4	2-1/2	SC80721
	20	0.1610	7/8	2-3/4	SC80720
	19	0.1660	7/8	2-3/4	SC80719
	18	0.1695	7/8	2-3/4	SC80718
11/64		0.1719	7/8	2-3/4	SC80171
	17	0.1730	7/8	2-3/4	SC80717
	16	0.1770	7/8	2-3/4	SC80716
	15	0.1800	7/8	2-3/4	SC80715
	14	0.1820	7/8	2-3/4	SC80714
	13	0.1850	7/8	2-3/4	SC80713
3/16		0.1875	7/8	2-3/4	SC80187
	12	0.1890	7/8	2-3/4	SC80712
	11	0.1910	1	3	SC80711
	10	0.1935	1	3	SC80710
	9	0.1960	1"	3"	SC80709
	8	0.1990	1"	3"	SC80708
	7	0.2010	1"	3"	SC80707

Solid Carbide Chucking Reamer - SC80



FRAC	NO/LTR	DEC	FLUTE	LENGTH	CODE
13/64		0.2031	1"	3"	SC80203
	6	0.2040	1"	3"	SC80706
	5	0.2055	1"	3"	SC80705
	4	0.2090	1"	3"	SC80704
	3	0.2130	1"	3"	SC80703
7/32		0.2188	1"	3"	SC80218
	2	0.2210	1"	3"	SC80702
	1	0.2280	1"	3"	SC80701
	A	0.2340	1"	3"	SC80601
15/64		0.2344	1"	3"	SC80234
	B	0.2380	1"	3"	SC80602
	C	0.2420	1"	3"	SC80603
	D	0.2460	1"	3"	SC80604
1/4	E	0.2500	1"	3"	SC80250
	F	0.2570	1-1/8	3-1/4	SC80606
	G	0.2610	1-1/8	3-1/4	SC80607
17/64		0.2656	1-1/8	3-1/4	SC80265
	H	0.2660	1-1/8	3-1/4	SC80608
	I	0.2720	1-1/8	3-1/4	SC80609
	J	0.2770	1-1/8	3-1/4	SC80610
	K	0.2810	1-1/8	3-1/4	SC80611
9/32		0.2812	1-1/8	3-1/4	SC80281
	L	0.2900	1-1/8	3-1/4	SC80612
	M	0.2950	1-1/8	3-1/4	SC80613
19/64		0.2969	1-1/8	3-1/4	SC80296
	N	0.3020	1-1/8	3-1/4	SC80614

FRAC	NO/LTR	DEC	FLUTE	LENGTH	CODE
5/16		0.3125	1-1/8	3-1/4	SC80312
	O	0.3160	1-1/4	3-1/2	SC80615
	P	0.3230	1-1/4	3-1/2	SC80616
21/64		0.3281	1-1/4	3-1/2	SC80328
	Q	0.3320	1-1/4	3-1/2	SC80617
	R	0.3390	1-1/4	3-1/2	SC80618
11/32		0.3438	1-1/4	3-1/2	SC80343
	S	0.3480	1-1/4	3-1/2	SC80619
	T	0.3580	1-1/4	3-1/2	SC80620
23/64		0.3594	1-1/4	3-1/2	SC80359
	U	0.3680	1-1/4	3-1/2	SC80621
3/8		0.3750	1-1/4	3-1/2	SC80375
	V	0.3770	1-1/4	3-1/2	SC80622
	W	0.3860	1-1/4	3-1/2	SC80623
25/64		0.3906	1-1/4	3-1/2	SC80390
	X	0.3970	1-1/4	3-1/2	SC80624
	Y	0.4040	1-1/4	3-1/2	SC80625
13/32		0.4062	1-1/4	3-1/2	SC80406
	Z	0.4130	1-1/4	3-1/2	SC80626
27/64		0.4219	1-3/8	4	SC80421
7/16		0.4375	1-3/8	4	SC80437
29/64		0.4531	1-3/8	4	SC80453
15/32		0.4688	1-3/8	4	SC80468
31/64		0.4844	1-1/2	4	SC80484
1/2		0.5000	1-1/2	4	SC80500



Chucking Reamers - RE17

Chucking Reamers - Straight Flute Straight Shank

- HSS • Bright Finish
- Straight Shank
- Right Hand Cut • Straight Flute
- Straight flute reamers are used in general purpose reaming applications in Ferrous and Non-Ferrous materials

CODE	FRAC	NO	DEC	FLT	OA	PKG
RE17260		60	0.0400	1/2	2-1/2	1
RE17259		59	0.0410	1/2	2-1/2	1
RE17258		58	0.0420	1/2	2-1/2	1
RE17257		57	0.0430	1/2	2-1/2	1
RE17256		56	0.0465	1/2	2-1/2	1
RE17003	3/64		0.0469	1/2	2-1/2	1
RE17255		55	0.0520	1/2	2-1/2	1
RE17254		54	0.0550	1/2	2-1/2	1
RE17253		53	0.0595	1/2	2-1/2	1
RE17004	1/16		0.0625	1/2	2-1/2	1
RE17252		52	0.0635	1/2	2-1/2	1
RE17251		51	0.0670	3/4	3	1
RE17250		50	0.0700	3/4	3	1
RE17249		49	0.0730	3/4	3	1
RE17248		48	0.0760	3/4	3	1
RE17005	5/64		0.0781	3/4	3	1
RE17247		47	0.0785	3/4	3	1
RE17246		46	0.0810	3/4	3	1
RE17245		45	0.0820	3/4	3	1
RE17244		44	0.0860	3/4	3	1
RE17243		43	0.0890	3/4	3	1
RE17242		42	0.0935	3/4	3	1
RE17006	3/32		0.0938	3/4	3	1
RE17241		41	0.0960	7/8	3-1/2	1
RE17240		40	0.0980	7/8	3-1/2	1
RE17239		39	0.0995	7/8	3-1/2	1
RE17238		38	0.1015	7/8	3-1/2	1
RE17237		37	0.1040	7/8	3-1/2	1
RE17236		36	0.1065	7/8	3-1/2	1
RE17007	7/64		0.1094	7/8	3-1/2	1
RE17235		35	0.1100	7/8	3-1/2	1
RE17234		34	0.1110	7/8	3-1/2	1

Alesoirs En Bout - Denture Droite Queue Cylindrique

- HSS • Finition brillante
- Queue droite
- Coupe à droite • Cannelures droite
- Les alésoirs à flûte droite sont utilisés dans les applications d'alésage à usage général dans les métaux ferreux et non-ferreux

CODE	FRAC	NO	DEC	FLT	OA	PKG
RE17233		33	0.1130	7/8	3-1/2	1
RE17232		32	0.1160	7/8	3-1/2	1
RE17231		31	0.1200	7/8	3-1/2	1
RE17008	1/8		0.1250	7/8	3-1/2	1
RE17230		30	0.1285	7/8	3-1/2	1
RE17229		29	0.1360	1	4	1
RE17228		28	0.1405	1	4	1
RE17009	9/64		0.1406	1	4	1
RE17227		27	0.1440	1	4	1
RE17226		26	0.1470	1	4	1
RE17225		25	0.1495	1	4	1
RE17224		24	0.1520	1	4	1
RE17223		23	0.1540	1	4	1
RE17010	5/32		0.1562	1	4	1
RE17222		22	0.1570	1	4	1
RE17221		21	0.1590	1-1/8	4-1/2	1
RE17220		20	0.1610	1-1/8	4-1/2	1
RE17219		19	0.1660	1-1/8	4-1/2	1
RE17218		18	0.1695	1-1/8	4-1/2	1
RE17011	11/64		0.1719	1-1/8	4-1/2	1
RE17217		17	0.1730	1-1/8	4-1/2	1
RE17216		16	0.1770	1-1/8	4-1/2	1
RE17215		15	0.1800	1-1/8	4-1/2	1
RE17214		14	0.1820	1-1/8	4-1/2	1
RE17213		13	0.1850	1-1/8	4-1/2	1
RE17012	3/16		0.1875	1-1/8	4-1/2	1
RE17212		12	0.1890	1-1/8	4-1/2	1
RE17211		11	0.1910	1-1/4	5	1
RE17210		10	0.1935	1-1/4	5	1
RE17209		9	0.1960	1-1/4	5	1
RE17208		8	0.1990	1-1/4	5	1
RE17207		7	0.2010	1-1/4	5	1



Chuckling Reamers - RE17

CODE	FRAC	NO	DEC	FLT	OA	PKG
RE17013	13/64		0.2031	1-1/4	5	1
RE17206		6	0.2040	1-1/4	5	1
RE17205		5	0.2055	1-1/4	5	1
RE17204		4	0.2090	1-1/4	5	1
RE17203		3	0.2130	1-1/4	5	1
RE17014	7/32		0.2188	1-1/4	5	1
RE17202		2	0.2210	1-1/4	5	1
RE17201		1	0.2280	1-1/4	5	1
RE17301		A	0.2340	1-1/2	6	1
RE17015	15/64	0	0.2344	1-1/2	6	1
RE17302		B	0.2380	1-1/2	6	1
RE17303		C	0.2420	1-1/2	6	1
RE17304		D	0.2460	1-1/2	6	1
RE17016	1/4	E	0.2500	1-1/2	6	1
RE17306		F	0.2570	1-1/2	6	1
RE17307		G	0.2610	1-1/2	6	1
RE17017	17/64		0.2656	1-1/2	6	1
RE17308		H	0.2660	1-1/2	6	1
RE17309		I	0.2720	1-1/2	6	1
RE17310		J	0.2770	1-1/2	6	1
RE17311		K	0.2810	1-1/2	6	1
RE17018	9/32		0.2812	1-1/2	6	1
RE17312		L	0.2900	1-1/2	6	1
RE17313		M	0.2950	1-1/2	6	1
RE17019	19/64		0.2969	1-1/2	6	1
RE17314		N	0.3020	1-1/2	6	1
RE17020	5/16		0.3125	1-1/2	6	1
RE17315		O	0.3160	1-1/2	6	1
RE17316		P	0.3230	1-1/2	6	1
RE17021	21/64		0.3281	1-1/2	6	1
RE17317		Q	0.3320	1-1/2	6	1
RE17318		R	0.3390	1-1/2	6	1
RE17022	11/32		0.3438	1-1/2	6	1
RE17319		S	0.3480	1-3/4	7	1
RE17320		T	0.3580	1-3/4	7	1
RE17023	23/64		0.3594	1-3/4	7	1
RE17321		U	0.3680	1-3/4	7	1
RE17024	3/8		0.3750	1-3/4	7	1

CODE	FRAC	NO	DEC	FLT	OA	PKG
RE17322		V	0.3770	1-3/4	7	1
RE17323		W	0.3860	1-3/4	7	1
RE17025	25/64		0.3906	1-3/4	7	1
RE17324		X	0.3970	1-3/4	7	1
RE17325		Y	0.4040	1-3/4	7	1
RE17026	13/32		0.4062	1-3/4	7	1
RE17326		Z	0.4130	1-3/4	7	1
RE17027	27/64		0.4219	1-3/4	7	1
RE17028	7/16		0.4375	1-3/4	7	1
RE17029	29/64		0.4531	1-3/4	7	1
RE17030	15/32		0.4688	1-3/4	7	1
RE17031	31/64		0.4844	2	8	1
RE17032	1/2		0.5000	2	8	1
RE17034	17/32		0.5312	2	8	1
RE17036	9/16		0.5625	2	8	1
RE17038	19/32		0.5938	2	8	1
RE17040	5/8		0.6250	2-1/4	9	1
RE17042	21/32		0.6562	2-1/4	9	1
RE17044	11/16		0.6875	2-1/4	9	1
RE17046	23/32		0.7188	2-1/4	9	1
RE17048	3/4		0.7500	2-1/2	9-1/2	1
RE17050	25/32		0.7812	2-1/2	9-1/2	1
RE17052	13/16		0.8125	2-1/2	9-1/2	1
RE17054	27/32		0.8438	2-1/2	9-1/2	1
RE17056	7/8		0.8750	2-5/8	10	1
RE17058	29/32		0.9062	2-5/8	10	1
RE17060	15/16		0.9375	2-5/8	10	1
RE17062	31/32		0.9688	2-5/8	10	1
RE17100	1"		1.0000	2-3/4	10-1/2	1
RE17104	1-1/16		1.0625	2-3/4	10-1/2	1
RE17108	1-1/8		1.1250	2-7/8	11	1
RE17112	1-3/16		1.1875	2-7/8	11	1
RE17116	1-1/4		1.2500	3	11-1/2	1
RE17120	1-5/16		1.3125	3	11-1/2	1
RE17124	1-3/8		1.3750	3-1/4	12	1
RE17128	1-7/16		1.4375	3-1/4	12	1
RE17132	1-1/2		1.5000	3-1/2	12-1/2	1



Chucking Reamers - RE24

Chucking Reamers - Spiral Flute Straight Shank - Cobalt

- Cobalt
- Bright and Black Finish • Straight Shank
- Right Hand Cut • Left Hand Helix
- Left hand spiral flute design pushes chips forward out of the hole and allows the reamer to be used in holes that have an interruption
- These reamers can be run approximately 25% faster than regular HSS reamers with increased tool life due to Cobalt Substrate

CODE	FRAC	NO	DEC	FLT	OA	PKG
RE24006	3/32		0.0938	14.0	57.0	1
RE24530		3.00	0.1181	15.0	61.0	1
RE24008	1/8		0.1250	16.0	65.0	1
RE24535		3.50	0.1378	18.0	70.0	1
RE24010	5/32		0.1562	19.0	75.0	1
RE24540		4.00	0.1575	19.0	75.0	1
RE24011	11/64		0.1719	21.0	80.0	1
RE24545		4.50	0.1772	21.0	80.0	1
RE24012	3/16		0.1875	23.0	86.0	1
RE24550		5.00	0.1968	23.0	86.0	1
RE24014	7/32		0.2188	26.0	93.0	1
RE24560		6.00	0.2362	26.0	93.0	1
RE24016	1/4		0.2500	28.0	101.0	1
RE24570		7.00	0.2756	31.0	109.0	1
RE24018	9/32		0.2812	31.0	109.0	1
RE24020	5/16		0.3125	33.0	117.0	1

Alesoirs En Bout - Cannelures Helicoidales - Queue Cylindrique - Cobalt

- Cobalt
- Finition brillante et noire • Queue droite
- Coupe à droite • Hélix de la main gauche
- La conception de la flûte en spirale à gauche pousse les copeaux vers l'avant hors du trou et permet à l'alesoir d'être utilisé dans des trous qui ont une interruption
- Ces alésoirs peuvent fonctionner environ 25% plus rapidement que les alésoirs HSS ordinaires avec une durée de vie accrue grâce au substrat en cobalt

CODE	FRAC	NO	DEC	FLT	OA	PKG
RE24580		8.00	0.3150	33.0	117.0	1
RE24022	11/32		0.3438	36.0	125.0	1
RE24590		9.00	0.3543	36.0	125.0	1
RE24024	3/8		0.3750	38.0	133.0	1
RE24600		10.00	0.3937	38.0	133.0	1
RE24026	13/32		0.4062	38.0	133.0	1
RE24610		11.00	0.4331	41.0	142.0	1
RE24028	7/16		0.4375	41.0	142.0	1
RE24030	15/32		0.4688	44.0	151.0	1
RE24620		12.00	0.4724	44.0	151.0	1
RE24032	1/2		0.5000	44.0	151.0	1
RE24630		13.00	0.5118	44.0	151.0	1
RE24640		14.00	0.5512	47.0	160.0	1
RE24036	9/16		0.5625	50.0	162.0	1
RE24650		15.00	0.5906	50.0	162.0	1
RE24040	5/8		0.6250	52.0	170.0	1
RE24660		16.00	0.6299	52.0	170.0	1



Hand Reamers - RE41

Hand Reamers - Spiral Flute Straight Shank

- HSS
- Right Hand Cut • Left Hand Helix
- Bright and Black Finish
- Square end for tap wrench
- Hand reamers are used for the final sizing of holes
- Left hand spiral flute design pushes chips forward out of the hole and allows the reamer to be used in holes that have an interruption.

CODE	FRAC	NO	DEC	FLT	OA	PKG
RE41004	1/16		0.0625	21.0	44.0	1
RE41520		2.00	0.0787	25.0	50.0	1
RE41006	3/32		0.0938	29.0	58.0	1
RE41525		2.50	0.0984	29.0	58.0	1
RE41530		3.00	0.1181	31.0	62.0	1
RE41008	1/8		0.1250	33.0	66.0	1
RE41535		3.50	0.1378	35.0	71.0	1
RE41009	9/64		0.1406	35.0	71.0	1
RE41010	5/32		0.1562	38.0	76.0	1
RE41540		4.00	0.1575	38.0	76.0	1
RE41011	11/64		0.1719	41.0	81.0	1
RE41545		4.50	0.1772	41.0	81.0	1
RE41012	3/16		0.1875	44.0	87.0	1
RE41550		5.00	0.1968	44.0	87.0	1
RE41013	13/64		0.2031	44.0	87.0	1
RE41555		5.50	0.2165	48.0	93.0	1
RE41014	7/32		0.2188	48.0	93.0	1
RE41015	15/64		0.2344	48.0	93.0	1
RE41560		6.00	0.2362	48.0	93.0	1
RE41016	1/4		0.2500	50.0	100.0	1
RE41565		6.50	0.2559	50.0	100.0	1
RE41017	17/64		0.2656	54.0	107.0	1
RE41570		7.00	0.2756	54.0	107.0	1
RE41018	9/32		0.2812	54.0	107.0	1
RE41575		7.50	0.2953	58.0	115.0	1
RE41019	19/64		0.2969	58.0	115.0	1
RE41020	5/16		0.3125	58.0	115.0	1
RE41580		8.00	0.3150	58.0	115.0	1

Alesoirs A Main - Cannelures Helicoidales Queue Cylindrique

- HSS
- Coupe à droite • Hélice de la main gauche
- Finition brillante et noire
- Extrémité carrée pour clé à robinet
- Les alésoirs à main sont utilisés pour le dimensionnement final des trous
- La conception de la flûte en spirale à gauche pousse les copeaux vers l'avant hors du trou et permet à l'alésoir d'être utilisé dans des trous qui ont une interruption

CODE	FRAC	NO	DEC	FLT	OA	PKG
RE41021	21/64		0.3281	58.0	115.0	1
RE41585		8.50	0.3346	58.0	115.0	1
RE41022	11/32		0.3438	62.0	124.0	1
RE41590		9.00	0.3543	62.0	124.0	1
RE41023	23/64		0.3594	62.0	124.0	1
RE41595		9.50	0.3740	62.0	124.0	1
RE41024	3/8		0.3750	66.0	133.0	1
RE41025	25/64		0.3906	66.0	133.0	1
RE41600		10.00	0.3937	66.0	133.0	1
RE41026	13/32		0.4062	66.0	133.0	1
RE41605		10.50	0.4134	66.0	133.0	1
RE41027	27/64		0.4219	71.0	142.0	1
RE41610		11.00	0.4331	71.0	142.0	1
RE41028	7/16		0.4375	71.0	142.0	1
RE41615		11.50	0.4528	71.0	142.0	1
RE41029	29/64		0.4531	71.0	142.0	1
RE41030	15/32		0.4688	76.0	152.0	1
RE41620		12.00	0.4724	76.0	152.0	1
RE41031	31/64		0.4844	76.0	152.0	1
RE41625		12.50	0.4921	76.0	152.0	1
RE41032	1/2		0.5000	76.0	152.0	1
RE41630		13.00	0.5118	76.0	152.0	1
RE41034	17/32		0.5312	81.0	163.0	1
RE41635		13.50	0.5315	81.0	163.0	1
RE41640		14.00	0.5512	81.0	163.0	1
RE41036	9/16		0.5625	81.0	163.0	1
RE41650		15.00	0.5906	81.0	163.0	1
RE41038	19/32		0.5938	87.0	175.0	1

Continued



Hand Reamers - RE41

CODE	FRAC	NO	DEC	FLT	OA	PKG
RE41040	5/8		0.6250	87.0	175.0	1
RE41660		16.00	0.6299	87.0	175.0	1
RE41042	21/32		0.6562	87.0	175.0	1
RE41670		17.00	0.6693	87.0	175.0	1
RE41044	11/16		0.6875	93.0	188.0	1
RE41680		18.00	0.7087	93.0	188.0	1
RE41046	23/32		0.7188	93.0	188.0	1
RE41690		19.00	0.7480	93.0	188.0	1
RE41048	3/4		0.7500	100.0	201.0	1
RE41050	25/32		0.7812	100.0	201.0	1
RE41700		20.00	0.7874	100.0	201.0	1
RE41052	13/16		0.8125	100.0	201.0	1
RE41710		21.00	0.8268	100.0	201.0	1
RE41054	27/32		0.8438	107.0	215.0	1
RE41720		22.00	0.8661	107.0	215.0	1
RE41056	7/8		0.8750	107.0	215.0	1
RE41730		23.00	0.9055	107.0	215.0	1
RE41058	29/32		0.9062	107.0	215.0	1
RE41060	15/16		0.9375	115.0	231.0	1
RE41740		24.00	0.9449	115.0	231.0	1
RE41062	31/32		0.9688	115.0	231.0	1
RE41750		25.00	0.9842	115.0	231.0	1

CODE	FRAC	NO	DEC	FLT	OA	PKG
RE41100	1		1.0000	115.0	231.0	1
RE41760		26.00	1.0236	115.0	231.0	1
RE41104	1-1/16		1.0625	124.0	247.0	1
RE41770		27.00	1.0630	124.0	247.0	1
RE41780		28.00	1.1024	124.0	247.0	1
RE41108	1-1/8		1.1250	124.0	247.0	1
RE41800		30.00	1.1811	124.0	247.0	1
RE41116	1-1/4		1.2500	133.0	265.0	1
RE41820		32.00	1.2598	133.0	265.0	1
RE41830		33.00	1.2992	133.0	265.0	1
RE41840		34.00	1.3386	142.0	284.0	1
RE41124	1-3/8		1.3750	142.0	284.0	1
RE41850		35.00	1.3780	142.0	284.0	1
RE41860		36.00	1.4173	142.0	284.0	1
RE41880		38.00	1.4961	152.0	305.0	1
RE41132	1-1/2		1.5000	152.0	305.0	1
RE41900		40.00	1.5748	152.0	305.0	1
RE41140	1-5/8		1.6250	152.0	305.0	1
RE41148	1-3/4		1.7500	163.0	326.0	1
RE41156	1-7/8		1.8750	174.0	347.0	1
RE41200	2		2.0000	174.0	347.0	1



Taper Pin Reamers - RE30

Taper Pin Reamers - Straight Flute Straight Shank

- HSS • Bright Finish
- ¼" Taper Per Foot
- Square end for tap wrench
- Taper Pin Reamers are used to ream holes into which standard taper pins will fit
- Straight flute for hand reaming of most materials

FRACTIONAL

CODE	FRAC	DEC 1	DEC 2	FLT	OA	PKG
RE30005	5/64	0.0592	0.0800	1	2	1
RE30006	3/32	0.0690	0.0950	1-1/4	2-1/4	1
RE30007	7/64	0.0798	0.1110	1-1/2	2-1/2	1
RE30008	1/8	0.0905	0.1270	1-3/4	2-3/4	1
RE30009	9/64	0.1039	0.1430	1-7/8	2-7/8	1
RE30010	5/32	0.1163	0.1580	2	3	1
RE30011	11/64	0.1271	0.1740	2-1/4	3-1/2	1
RE30012	3/16	0.1377	0.1950	2-3/4	4	1
RE30014	7/32	0.1627	0.2200	2-3/4	4	1
RE30016	1/4	0.1827	0.2530	3-3/8	4-5/8	1
RE30018	9/32	0.2061	0.2920	4-1/8	5-5/8	1
RE30020	5/16	0.2301	0.3160	4-1/8	5-5/8	1
RE30022	11/32	0.2533	0.3470	4-1/2	6	1
RE30024	3/8	0.2768	0.3810	5	6-1/2	1
RE30026	13/32	0.2922	0.4120	5-3/4	7-1/2	1
RE30028	7/16	0.3232	0.4430	5-3/4	7-1/2	1
RE30032	1/2	0.3706	0.5060	6-1/2	8-1/4	1
RE30036	9/16	0.4304	0.5710	6-3/4	8-1/2	1
RE30040	5/8	0.4768	0.6330	7-1/2	9-1/4	1
RE30048	3/4	0.5777	0.7600	8-3/4	10-3/4	1

METRIC

CODE	MM	DEC 1	DEC 2	FLT	OA	PKG
RE30520	2.00	1.90	2.86	48.0	68.0	1
RE30525	2.50	2.40	3.36	48.0	68.0	1
RE30530	3.00	2.90	4.06	58.0	80.0	1
RE30540	4.00	3.90	5.26	68.0	93.0	1
RE30550	5.00	4.90	6.36	73.0	100.0	1
RE30560	6.00	5.90	8.00	105.0	135.0	1

Alesoirs Conique Pour Trous De Goupilles

- HSS • Finition brillante
- Cône ¼" par pied
- Extrémité carrée pour clé à robinet
- Les alésoirs à goupille conique sont utilisés pour aléser le trou dans lequel les goupilles coniques standard s'adapteront
- Flûte droite pour l'alésage à la main de la plupart des matériaux

NUMBERS

CODE	NO	DEC 1	DEC 2	FLT	OA	PKG
RE30197	7/0	0.0497	0.0666	13/16	1-13/16	1
RE30196	6/0	0.0611	0.0806	15/16	1-15/16	1
RE30195	5/0	0.0719	0.0966	1-3/16	2-3/16	1
RE30194	4/0	0.0869	0.1142	1-5/16	2-5/16	1
RE30193	3/0	0.1029	0.1302	1-5/16	2-5/16	1
RE30192	2/0	0.1137	0.1462	1-9/16	2-9/16	1
RE30200	0	0.1287	0.1638	1-11/16	2-15/16	1
RE30201	1	0.1447	0.1798	1-11/16	2-15/16	1
RE30202	2	0.1605	0.2008	1-15/16	3-3/16	1
RE30203	3	0.1813	0.2294	2-5/16	3-11/16	1
RE30204	4	0.2071	0.2604	2-9/16	4-1/16	1
RE30205	5	0.2409	0.2994	2-13/16	4-5/16	1
RE30206	6	0.2773	0.3540	3-11/16	5-7/16	1
RE30207	7	0.3297	0.4220	4-7/16	6-5/16	1
RE30208	8	0.3971	0.5050	5-3/16	7-3/16	1
RE30209	9	0.4805	0.6066	6-1/16	8-5/16	1
RE30210	10	0.5799	0.7216	6-13/16	9-5/16	1
RE30211	11	0.7060	0.8780	8-1/4	11-1/4	1
RE30212	12	0.8420	1.0500	10	13-5/8	1
RE30213	13	1.0090	1.2590	12	16	1
RE30214	14	1.2500	1.5420	14	18-1/4	1

METRIC

CODE	MM	DEC 1	DEC 2	FLT	OA	PKG
RE30580	8.00	7.90	10.80	145.0	180.0	1
RE30600	10.00	9.90	13.40	175.0	215.0	1
RE30620	12.00	11.80	16.00	194.0	240.0	1
RE30630	13.00	12.86	16.74	194.0	240.0	1
RE30640	14.00	13.86	17.76	194.0	240.0	1
RE30660	16.00	15.80	20.40	230.0	280.0	1
RE30700	20.00	19.80	24.80	230.0	310.0	1



Taper Pin Reamers - RE31

Taper Pin Reamers - Spiral Flute Straight Shank

- HSS • Bright Finish
- ¼" Taper Per Foot
- Right Hand Cut • Left Hand Helix
- Square end for tap wrench
- Taper Pin Reamers are used to ream holes into which standard taper pins will fit
- Left Hand spiral flute is for hand reaming in difficult materials

CODE	NO	DEC 1	DEC 2	FLT	OA	PKG
RE31192	7/0	0.0497	0.0666	13/16	1-13/16	1
RE31193	6/0	0.0611	0.0806	15/16	1-15/16	1
RE31194	5/0	0.0719	0.0966	1-3/16	2-3/16	1
RE31195	4/0	0.0869	0.1142	1-5/16	2-5/16	1
RE31196	3/0	0.1029	0.1302	1-5/16	2-5/16	1
RE31197	2/0	0.1137	0.1462	1-9/16	2-9/16	1
RE31200	0	0.1287	0.1638	1-11/16	2-15/16	1
RE31201	1	0.1447	0.1798	1-11/16	2-15/16	1
RE31202	2	0.1605	0.2008	1-15/16	3-3/16	1
RE31203	3	0.1813	0.2294	2-5/16	3-11/16	1

Alesoirs Conique Pour Trous De Goupilles

- HSS • Finition brillante
- Cône ¼" par pied
- Coupe à droite • Hélice de la main gauche
- Extrémité carrée pour clé à robinet
- Les alésoirs à goupille conique sont utilisés pour aléser le trou dans lequel les goupilles coniques standard s'adapteront
- La flûte en spirale à gauche sert à l'alésage à la main dans des matériaux difficiles

CODE	NO	DEC 1	DEC 2	FLT	OA	PKG
RE31204	4	0.2071	0.2604	2-9/16	4-1/16	1
RE31205	5	0.2409	0.2994	2-13/16	4-5/16	1
RE31206	6	0.2773	0.3540	3-11/16	5-7/16	1
RE31207	7	0.3297	0.4220	4-7/16	6-5/16	1
RE31208	8	0.3971	0.5050	5-3/16	7-3/16	1
RE31209	9	0.4805	0.6066	6-1/16	8-5/16	1
RE31210	10	0.5799	0.7216	6-13/16	9-5/16	1
RE31211	11	0.7060	0.8780	8-1/4	11-1/4	1
RE31212	12	0.8420	1.0500	10	13-5/8	1
RE31213	13	1.0090	1.2590	12	16	1
RE31214	14	1.2500	1.5420	14	18-1/4	1



Chuckling Reamers - RE18

Chuckling Reamers - Straight Flute Taper Shank - HSS

- HSS • Bright and Black Finish
- Right Hand Cut
- Morse Taper Shank
- Straight flute reamers are used in general purpose reaming applications in Ferrous and Non-Ferrous materials

CODE	FRAC	MTS	DEC	FLT	OA	PKG
RE18016	1/4	1	0.2500	1-1/2	6	1
RE18020	5/16	1	0.3125	1-1/2	6	1
RE18024	3/8	1	0.3750	1-3/4	7	1
RE18028	7/16	1	0.4375	1-3/4	7	1
RE18032	1/2	1	0.5000	2	8	1
RE18036	9/16	2	0.5625	2	8	1
RE18040	5/8	2	0.6250	2-1/4	9	1
RE18044	11/16	2	0.6875	2-1/4	9	1
RE18048	3/4	2	0.7500	2-1/2	9-1/2	1
RE18052	13/16	2	0.8125	2-1/2	9-1/2	1

Alesoirs En Bout - Cannelures Droite Queue Conique - Acier Rapide

- HSS • Finition brillante et noire
- Coupe à droite
- Queue cône Morse
- Les alésoirs à flûte droite sont utilisés dans les applications d'alésage à usage général dans les métaux ferreux et non-ferreux

CODE	FRAC	MTS	DEC	FLT	OA	PKG
RE18056	7/8	2	0.8750	2-5/8	10	1
RE18060	15/16	3	0.9375	2-5/8	10	1
RE18100	1	3	1.0000	2-3/4	10-1/2	1
RE18104	1-1/16	3	1.0625	2-3/4	10-1/2	1
RE18108	1-1/8	3	1.1250	2-7/8	11	1
RE18112	1-3/16	3	1.1875	2-7/8	11	1
RE18116	1-1/4	4	1.2500	3	11-1/2	1
RE18124	1-3/8	4	1.3750	3-1/4	12	1
RE18132	1-1/2	4	1.5000	3-1/2	12-1/2	1



Chucking Reamers - RE22

Chucking Reamers - Spiral Flute Taper Shank - Cobalt

- Cobalt • Bright and Black Finish
- Morse Taper Shank
- Right Hand Cut • Left Hand Helix
- These reamers can be run approximately 25% faster than regular HSS reamers with increased life due to the cobalt substance
- Left hand spiral flute design pushes chips forward out of the hole and allows the reamer to be used in holes that have an interruption

CODE	FRAC	MM	MTS	DEC	FLT	OA	PKG
RE22012	3/16		1	0.1875	23.0	114.0	1
RE22550		5.00	1	0.1968	23.0	114.0	1
RE22014	7/32		1	0.2188	26.0	138.0	1
RE22560		6.00	1	0.2362	26.0	138.0	1
RE22016	1/4		1	0.2500	28.0	144.0	1
RE22570		7.00	1	0.2756	31.0	150.0	1
RE22018	9/32		1	0.2812	31.0	150.0	1
RE22020	5/16		1	0.3125	33.0	156.0	1
RE22580		8.00	1	0.3150	33.0	156.0	1
RE22022	11/32		1	0.3438	36.0	162.0	1
RE22590		9.00	1	0.3543	36.0	162.0	1
RE22024	3/8		1	0.3750	38.0	168.0	1
RE22600		10.00	1	0.3937	38.0	168.0	1
RE22026	13/32		1	0.4062	38.0	168.0	1
RE22610		11.00	1	0.4331	41.0	175.0	1
RE22028	7/16		1	0.4375	41.0	175.0	1
RE22030	15/32		1	0.4688	44.0	182.0	1
RE22620		12.00	1	0.4724	44.0	182.0	1
RE22032	1/2		1	0.5000	44.0	182.0	1
RE22630		13.00	1	0.5118	44.0	182.0	1
RE22034	17/32		1	0.5312	47.0	189.0	1
RE22640		14.00	1	0.5512	47.0	189.0	1
RE22036	9/16		2	0.5625	50.0	204.0	1
RE22650		15.00	2	0.5906	50.0	204.0	1
RE22038	19/32		2	0.5938	52.0	210.0	1
RE22040	5/8		2	0.6250	52.0	210.0	1
RE22660		16.00	2	0.6299	52.0	210.0	1
RE22042	21/32		2	0.6562	54.0	214.0	1

Alesoirs En Bout - Cannelures Helicoidales - Queue Conique - Cobalt

- Cobalt • Finition brillante et noire
- Queue droite
- Coupe à droite • Hélice de la main gauche
- Ces alésoirs peuvent être exécutés environ 25% plus rapidement que les alésoirs HSS ordinaires avec une durée de vie accrue en raison de la substance cobalt
- La conception de la flûte en spirale à gauche pousse les copeaux vers l'avant hors du trou et permet à l'alésoir d'être utilisé dans des trous qui ont une interruption

CODE	FRAC	MM	MTS	DEC	FLT	OA	PKG
RE22670		17.00	2	0.6693	54.0	214.0	1
RE22044	11/16		2	0.6875	56.0	219.0	1
RE22680		18.00	2	0.7087	56.0	219.0	1
RE22046	23/32		2	0.7188	58.0	223.0	1
RE22690		19.00	2	0.7480	58.0	223.0	1
RE22048	3/4		2	0.7500	60.0	228.0	1
RE22700		20.00	2	0.7874	60.0	228.0	1
RE22052	13/16		2	0.8125	62.0	232.0	1
RE22710		21.00	2	0.8268	62.0	232.0	1
RE22720		22.00	2	0.8661	64.0	237.0	1
RE22056	7/8		2	0.8750	64.0	237.0	1
RE22730		23.00	2	0.9055	66.0	241.0	1
RE22060	15/16		3	0.9375	68.0	268.0	1
RE22740		24.00	3	0.9449	68.0	268.0	1
RE22750		25.00	3	0.9842	68.0	268.0	1
RE22100	1"		3	1.0000	70.0	273.0	1
RE22760		26.00	3	1.0236	70.0	273.0	1
RE22104	1-1/16		3	1.0625	71.0	277.0	1
RE22780		28.00	3	1.1024	71.0	277.0	1
RE22108	1-1/8		3	1.1250	73.0	281.0	1
RE22800		30.00	3	1.1811	73.0	281.0	1
RE22112	1-3/16		3	1.1875	75.0	287.0	1
RE22116	1-1/4		3	1.2500	77.0	290.0	1
RE22820		32.00	4	1.2598	77.0	317.0	1
RE22840		34.00	4	1.3386	78.0	321.0	1
RE22124	1-3/8		4	1.3750	78.0	321.0	1
RE22860		36.00	4	1.4173	79.0	325.0	1
RE22880		38.00	4	1.4961	81.0	329.0	1
RE22132	1-1/2		4	1.5000	81.0	329.0	1



Machine Reamers - RE45

Machine Reamers - Spiral Flute Taper Shank

- HSS • Bright and Black Finish
- Right Hand Cut • Left Hand Helix
- Morse Taper Shank
- Left hand spiral flute design pushes chips forward out of the hole and allows the reamer to be used in holes that have an interruption

CODE	FRAC	MM	MTS	DEC	FLT	OA	PKG
RE45530		3.00	1	0.1181	31	104	1
RE45008	1/8		1	0.1250	33	106	1
RE45535		3.50	1	0.1378	35	108	1
RE45009	9/64		1	0.1406	35	108	1
RE45010	5/32		1	0.1562	38	112	1
RE45540		4.00	1	0.1575	38	112	1
RE45011	11/64		1	0.1719	41	115	1
RE45545		4.50	1	0.1772	41	115	1
RE45012	3/16		1	0.1875	44	118	1
RE45550		5.00	1	0.1968	44	118	1
RE45013	13/64		1	0.2031	44	118	1
RE45555		5.50	1	0.2165	48	125	1
RE45014	7/32		1	0.2188	48	125	1
RE45015	15/64		1	0.2344	48	125	1
RE45560		6.00	1	0.2362	48	125	1
RE45016	1/4		1	0.2500	50	130	1
RE45565		6.50	1	0.2559	50	130	1
RE45017	17/64		1	0.2656	54	134	1
RE45570		7.00	1	0.2756	54	134	1
RE45018	9/32		1	0.2812	54	134	1
RE45575		7.50	1	0.2953	54	134	1
RE45019	19/64		1	0.2969	58	138	1
RE45020	5/16		1	0.3125	58	138	1
RE45580		8.00	1	0.3150	58	138	1
RE45021	21/64		1	0.3281	58	138	1
RE45585		8.50	1	0.3346	58	138	1
RE45022	11/32		1	0.3438	62	141	1
RE45590		9.00	1	0.3543	62	141	1
RE45023	23/64		1	0.3594	62	141	1
RE45595		9.50	1	0.3740	62	141	1
RE45024	3/8		1	0.3750	67	146	1
RE45025	25/64		1	0.3906	67	146	1

Alesoirs Pour Machine - Cannelures Helicoidales - Queue Conique

- HSS • Finition brillante et noire
- Coupe à droite • Hélice de la main gauche
- Queue cône Morse
- La conception de la flûte en spirale à gauche pousse les copeaux vers l'avant hors du trou et permet à l'alesoir d'être utilisé dans des trous qui ont une interruption

CODE	FRAC	MM	MTS	DEC	FLT	OA	PKG
RE45600		10.00	1	0.3937	67	146	1
RE45026	13/32		1	0.4062	67	146	1
RE45605		10.50	1	0.4134	67	146	1
RE45027	27/64		1	0.4219	71	151	1
RE45610		11.00	1	0.4331	71	151	1
RE45028	7/16		1	0.4375	71	151	1
RE45615		11.50	1	0.4528	71	151	1
RE45029	29/64		1	0.4531	71	151	1
RE45030	15/32		1	0.4688	76	156	1
RE45620		12.00	1	0.4724	76	156	1
RE45031	31/64		1	0.4844	76	156	1
RE45625		12.50	1	0.4921	76	156	1
RE45032	1/2		1	0.5000	76	156	1
RE45630		13.00	1	0.5118	76	156	1
RE45034	17/32		1	0.5312	81	160	1
RE45640		14.00	1	0.5512	81	160	1
RE45036	9/16		2	0.5625	81	181	1
RE45650		15.00	2	0.5906	81	181	1
RE45038	19/32		2	0.5938	87	187	1
RE45040	5/8		2	0.6250	87	187	1
RE45660		16.00	2	0.6299	87	187	1
RE45042	21/32		2	0.6562	87	187	1
RE45670		17.00	2	0.6693	87	187	1
RE45044	11/16		2	0.6875	94	194	1
RE45680		18.00	2	0.7087	94	194	1
RE45046	23/32		2	0.7188	94	194	1
RE45690		19.00	2	0.7480	94	194	1
RE45048	3/4		2	0.7500	100	200	1
RE45050	25/32		2	0.7812	100	200	1
RE45700		20.00	2	0.7874	100	200	1
RE45052	13/16		2	0.8125	100	200	1
RE45710		21.00	2	0.8268	100	200	1



Machine Reamers - RE45

CODE	FRAC	MM	MTS	DEC	FLT	OA	PKG
RE45054	27/32		2	0.8438	106	206	1
RE45720		22.00	2	0.8661	106	206	1
RE45056	7/8		2	0.8750	106	206	1
RE45730		23.00	2	0.9055	106	206	1
RE45058	29/32		2	0.9062	106	206	1
RE45060	15/16		3	0.9375	114	241	1
RE45740		24.00	3	0.9449	114	241	1
RE45062	31/32		3	0.9688	114	241	1
RE45750		25.00	3	0.9842	114	241	1
RE45100	1		3	1.0000	114	241	1
RE45760		26.00	3	1.0236	114	241	1
RE45104	1-1/16		3	1.0625	124	251	1
RE45770		27.00	3	1.0630	124	251	1
RE45780		28.00	3	1.1024	124	251	1
RE45108	1-1/8		3	1.1250	124	251	1
RE45800		30.00	3	1.1811	124	251	1
RE45116	1-1/4		3	1.2500	133	260	1
RE45820		32.00	4	1.2598	133	294	1

CODE	FRAC	MM	MTS	DEC	FLT	OA	PKG
RE45830		33.00	4	1.2992	133	294	1
RE45840		34.00	4	1.3386	142	303	1
RE45124	1-3/8		4	1.3750	142	303	1
RE45850		35.00	4	1.3780	142	303	1
RE45860		36.00	4	1.4173	142	303	1
RE45880		38.00	4	1.4961	152	312	1
RE45132	1-1/2		4	1.5000	152	312	1
RE45900		40.00	4	1.5748	152	312	1
RE45140	1-5/8		4	1.6250	152	312	1
RE45902		42.00	4	1.6535	152	312	1
RE45904		44.00	4	1.7323	163	323	1
RE45148	1-3/4		4	1.7500	163	323	1
RE45905		45.00	4	1.7716	163	323	1
RE45906		46.00	4	1.8110	163	323	1
RE45156	1-7/8		4	1.8750	175	334	1
RE45908		48.00	4	1.8898	175	334	1
RE45910		50.00	4	1.9685	175	334	1
RE45200	2		4	2.0000	175	334	1



Bridge Reamers - RE01

Bridge Reamers - Straight Flute Taper Shank

- HSS • Bright and Black Finish
- Morse Taper Shank
- Right Hand Cut
- Used in bridgework, ship construction and general fabrication applications where extreme accuracy of the diameter is not important.
- Can be used to enlarge and align holes

CODE	FRAC	MTS	DEC	FLT	OA	PKG
RE01036	9/16	2	0.5625	5-1/8	9	1
RE01044	11/16	3	0.6875	7-1/8	11-3/4	1
RE01048	3/4	3	0.7500	7-3/8	12	1
RE01052	13/16	3	0.8125	7-3/8	12	1
RE01056	7/8	3	0.8750	7-3/8	12	1
RE01060	15/16	3	0.9375	7-3/8	12	1

Alesoirs De Chaudronnerie Cannelures Droite - Queue Conique

- HSS • Finition brillante et noire
- Queue cône Morse
- Coupe à droite
- Utilisé dans les applications de ponts, de construction navale et de fabrication générale où la précision du diamètre n'est pas importante.
- Peut être utilisé pour agrandir et aligner les trous

CODE	FRAC	MTS	DEC	FLT	OA	PKG
RE01100	1	3	1.0000	7-3/8	12	1
RE01104	1-1/16	3	1.0625	7-3/8	12	1
RE01108	1-1/8	3	1.1250	7-3/8	12	1
RE01112	1-3/16	3	1.1875	7-3/8	12	1
RE01116	1-1/4	4	1.2500	7-3/8	13	1
RE01124	1-3/8	4	1.3750	7-3/8	13	1



Bridge Reamers - RE02

Bridge Reamers - Spiral Flute Taper Shank

- HSS • Bright and Black Finish
- Morse Taper Shank
- Right Hand Cut • Left Hand Helix
- Left Hand Helix cuts with a shearing action sending chips forward giving a superior hole quality with less grabbing and binding in the hole
- Used in bridgework, ship construction and general fabrication applications where extreme accuracy of diameter is not important.
- Can be used to enlarge and align holes

CODE	FRAC	MTS	DEC	FLT	OA	PKG
RE02028	7/16	2	0.4375	4-3/8	8-1/4	1
RE02032	1/2	2	0.5000	5-1/8	9	1
RE02036	9/16	2	0.5625	5-1/8	9	1
RE02040	5/8	2	0.6250	6-1/8	10	1
RE02044	11/16	3	0.6875	7-1/8	11-3/4	1
RE02048	3/4	3	0.7500	7-3/8	12	1
RE02052	13/16	3	0.8125	7-3/8	12	1
RE02056	7/8	3	0.8750	7-3/8	12	1

Alesoirs De Chaudronnerie Cannelures Helicoidales - Queue Conique

- HSS • Finition brillante et noire
- Queue cône Morse
- Coupe à droite • Hélice de la main gauche
- Coupes en hélice à gauche avec une action de cisaillement envoyant des copeaux vers l'avant pour une qualité de trou supérieure avec moins de prise et de fixation dans le trou
- Utilisé dans les applications de ponts, de construction navale et de fabrication générale où la précision du diamètre n'est pas importante.
- Peut être utilisé pour agrandir et aligner les trous

CODE	FRAC	MTS	DEC	FLT	OA	PKG
RE02060	15/16	3	0.9375	7-3/8	12	1
RE02100	1	3	1.0000	7-3/8	12	1
RE02104	1-1/16	3	1.0625	7-3/8	12	1
RE02108	1-1/8	3	1.1250	7-3/8	12	1
RE02112	1-3/16	3	1.1875	7-3/8	12	1
RE02116	1-1/4	4	1.2500	7-3/8	13	1
RE02120	1-5/16	4	1.3125	7-3/8	13	1
RE02124	1-3/8	4	1.3750	7-3/8	13	1



Aligning Reamers - RE19

Aligning Reamer - Straight Shank 3 Flats - HSS - Spiral Flute

- HSS • Bright and Black Finish
- Right Hand Cut
- 3 Flats on shank for positive grip
- Short length for use in tight spaces
- Left Hand Helix cuts with a shearing action sending chips forward giving a superior hole quality with less grabbing and binding in the hole
- For heavy duty reaming in structural steel assemblies as well as truck/trailer manufacturing and repair

CODE	FRAC	DEC	FLT	OA	SHK	PKG
RE19016	1/4	0.2500	2-1/2	4-3/8	1/4	1
RE19020	5/16	0.3125	2-3/4	4-5/8	5/16	1
RE19024	3/8	0.3750	2-3/4	4-5/8	3/8	1
RE19028	7/16	0.4375	3-1/2	5-3/8	7/16	1
RE19032	1/2	0.5000	4	5-7/8	1/2	1
RE19036	9/16	0.5625	4	5-7/8	1/2	1
RE19039	39/64	0.6094	4-1/2	6-3/8	1/2	1
RE19040	5/8	0.6250	4-1/2	6-3/8	1/2	1

Alesoirs Alignant - Queue Cylindrique Acier Rapide - Flûte Spirale

- HSS • Finition brillante et noire
- Coupe à droite
- 3 méplats sur la tige pour une adhérence positive
- Longueur courte pour une utilisation dans des espaces restreints
- Coupes en hélice à gauche avec une action de cisaillement envoyant des copeaux vers l'avant pour une qualité de trou supérieure avec moins de prise et de fixation dans le trou
- Pour l'alésage à usage intensif dans les assemblages d'acier de construction ainsi que pour la fabrication et réparation

CODE	FRAC	DEC	FLT	OA	SHK	PKG
RE19044	11/16	0.6875	4-1/2	6-3/8	1/2	1
RE19048	3/4	0.7500	5	6-7/8	1/2	1
RE19052	13/16	0.8125	5	6-7/8	1/2	1
RE19056	7/8	0.8750	5	6-7/8	1/2	1
RE19060	15/16	0.9375	5	6-7/8	1/2	1
RE19100	1	1.0000	5	6-7/8	1/2	1
RE19104	1-1/16	1.0625	5	6-7/8	1/2	1
RE19116	1-1/4	1.2500	5	6-7/8	1/2	1



Aligning Reamers - RE20

Aligning Reamer - Hex Shank HSS - Spiral Flute

- HSS • Black Oxide Finish
- Right Hand Cut
- Left Hand Helix
- Short length for use in tight spaces
- Hex Shank for use in impact sockets with portable electric and pneumatic tools
- Used to enlarge and align existing holes in bridgework, ship construction, and structural steel fabrication where extreme accuracy is not important

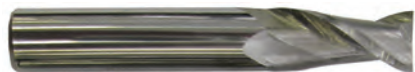
CODE	FRAC	DEC	FLT	OA	HEX	PKG
RE20036	9/16	0.5625	4	5-1/2	1-1/16	1
RE20044	11/16	0.6875	4-1/2	6-1/2	1-1/16	1
RE20048	3/4	0.7500	5	7	1-1/4	1
RE20052	13/16	0.8125	5	7	1-1/4	1

Alesoirs Alignant - Queue Hexagonal Acier Rapide - Flûte Spirale

- HSS • Finition oxyde noir
- Coupe à droite
- Hélice à main gauche
- Longueur courte pour une utilisation dans des espaces restreints
- Queue hexagonale pour une utilisation dans les douilles à chocs avec des outils électriques et pneumatiques portables
- Utilisé pour agrandir et aligner les trous existants dans les ponts, la construction navale et la charpente métallique où une précision extrême n'est pas importante

CODE	FRAC	DEC	FLT	OA	HEX	PKG
RE20060	15/16	0.9375	5	7	1-7/16	1
RE20104	1-1/16	1.0625	5	7	1-5/8	1
RE20112	1-3/16	1.1875	5	7	1-13/16	1
RE20120	1-5/16	1.3125	5	7	2	1

End Mills
Fraises en bout



Solid Carbide - SC20 • SC70

2 Flute Standard Length - Square End

- Premium Micrograin Carbide
- Center Cutting
- Bright finish or TiAIN coated (TiN and TiCN available on request)
- For TiAIN coated, add "A" to end of the part number
- 2 Flute End mills provide increased chip capacity for higher feed rates
- Used for slotting and plunging applications

FRAC	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/32	1/8	1/8	1-1/2	2	SC20031
3/64	1/8	1/8	1-1/2	2	SC20046
1/16	1/8	3/16	1-1/2	2	SC20062
5/64	1/8	1/4	1-1/2	2	SC20078
3/32	1/8	3/8	1-1/2	2	SC20093
7/64	1/8	3/8	1-1/2	2	SC20109
1/8	1/8	1/2	1-1/2	2	SC20125
9/64	3/16	9/16	2"	2	SC20140
5/32	3/16	9/16	2"	2	SC20156
11/64	3/16	5/8	2"	2	SC20171
3/16	3/16	5/8	2"	2	SC20187
13/64	1/4	5/8	2-1/2	2	SC20203
7/32	1/4	5/8	2-1/2	2	SC20218
15/64	1/4	3/4	2-1/2	2	SC20234
1/4	1/4	3/4	2-1/2	2	SC20250
17/64	5/16	3/4	2-1/2	2	SC20265
9/32	5/16	3/4	2-1/2	2	SC20281
19/64	5/16	13/16	2-1/2	2	SC20296

METRIC/METRIQUE

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1.0	3.0	4.0	38.0	2	SC70010
1.5	3.0	4.5	38.0	2	SC70015
2.0	3.0	6.3	38.0	2	SC70020
2.5	3.0	9.5	38.0	2	SC70025
3.0	3.0	12.0	38.0	2	SC70030
3.5	4.0	12.0	50.0	2	SC70035
4.0	4.0	14.0	50.0	2	SC70040
4.5	6.0	16.0	50.0	2	SC70045
5.0	6.0	16.0	50.0	2	SC70050
6.0	6.0	19.0	50.0	2	SC70060
7.0	8.0	20.0	63.0	2	SC70070
8.0	8.0	20.0	63.0	2	SC70080

2 Cannelures Longueur Standard - Fraises en Bout

- Carbure Micrograin Premium
- Coupe centrale
- Finition brillante ou revêtement TiAIN (TiN et TiCN disponibles sur demande)
- Pour TiAIN revêtement ajouter "A" à la fin du numéro de pièce
- 2 fraises à flûte offrent une capacité de copeaux accrue pour des vitesses d'avance plus élevées
- Utilisé pour les applications de ralenti et plongeant

FRAC	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
5/16	5/16	13/16	2-1/2	2	SC20312
21/64	3/8	1"	2-1/2	2	SC20328
11/32	3/8	1"	2-1/2	2	SC20343
23/64	3/8	1"	2-1/2	2	SC20359
3/8	3/8	1"	2-1/2	2	SC20375
25/64	7/16	1"	2-3/4	2	SC20390
13/32	7/16	1"	2-3/4	2	SC20406
27/64	7/16	1"	2-3/4	2	SC20421
7/16	7/16	1"	2-3/4	2	SC20437
29/64	1/2	1"	3"	2	SC20453
15/32	1/2	1"	3"	2	SC20468
31/64	1/2	1"	3"	2	SC20484
1/2	1/2	1"	3"	2	SC20500
9/16	9/16	1-1/8	3-1/2	2	SC20562
5/8	5/8	1-1/4	3-1/2	2	SC20625
11/16	3/4	1-3/8	4"	2	SC20687
3/4	3/4	1-1/2	4"	2	SC20750
7/8	7/8	1-1/2	4"	2	SC20875
1"	1"	1-1/2	4"	2	SC20900

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
9.0	10.0	22.0	75.0	2	SC70090
10.0	10.0	22.0	75.0	2	SC70100
11.0	12.0	25.0	75.0	2	SC70110
12.0	12.0	25.0	75.0	2	SC70120
13.0	14.0	32.0	89.0	2	SC70130
14.0	14.0	32.0	89.0	2	SC70140
16.0	16.0	32.0	89.0	2	SC70160
18.0	18.0	38.0	100.0	2	SC70180
20.0	20.0	38.0	100.0	2	SC70200
22.0	22.0	38.0	100.0	2	SC70220
25.0	25.0	38.0	100.0	2	SC70250



Solid Carbide - Ball Nose SC23 • SC73

2 Flute Standard Length - Ball Nose

- Premium Micrograin Carbide
- Center Cutting
- Bright finish or TiAlN coated (TiN and TiCN available on request)
- For TiAlN coated, add "A" to end of the part number
- 2 Flute End mills provide increased chip capacity for higher feed rates
- Used for milling contours, radius bottom slots and die cavities

2 Cannelures Longueur Standard - A Bout Spherique

- Carbure Micrograin Premium
- Coupe centrale
- Finition brillante ou revêtement TiAlN (TiN et TiCN disponibles sur demande)
- Pour TiAlN revêtement ajouter "A" à la fin du numéro de pièce
- 2 fraises à flûte offrent une capacité de copeaux accrue pour des taux d'alimentation plus élevés
- Utilisé pour fraiser les contours, les fentes de rayon et les cavités de filière

FRAC	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/32	1/8	1/8	1-1/2	2	SC23031
3/64	1/8	1/8	1-1/2	2	SC23046
1/16	1/8	3/16	1-1/2	2	SC23062
5/64	1/8	1/4	1-1/2	2	SC23078
3/32	1/8	3/8	1-1/2	2	SC23093
7/64	1/8	3/8	1-1/2	2	SC23109
1/8	1/8	1/2	1-1/2	2	SC23125
9/64	3/16	9/16	2"	2	SC23140
5/32	3/16	9/16	2"	2	SC23156
11/64	3/16	5/8	2"	2	SC23171
3/16	3/16	5/8	2"	2	SC23187
13/64	1/4	5/8	2-1/2	2	SC23203
7/32	1/4	5/8	2-1/2	2	SC23218
15/64	1/4	3/4	2-1/2	2	SC23234
1/4	1/4	3/4	2-1/2	2	SC23250
17/64	5/16	3/4	2-1/2	2	SC23265
9/32	5/16	3/4	2-1/2	2	SC23281
19/64	5/16	13/16	2-1/2	2	SC23296

FRAC	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
5/16	5/16	13/16	2-1/2	2	SC23312
21/64	3/8	1"	2-1/2	2	SC23328
11/32	3/8	1"	2-1/2	2	SC23343
23/64	3/8	1"	2-1/2	2	SC23359
3/8	3/8	1"	2-1/2	2	SC23375
25/64	7/16	1"	2-3/4	2	SC23390
13/32	7/16	1"	2-3/4	2	SC23406
27/64	7/16	1"	2-3/4	2	SC23421
7/16	7/16	1"	2-3/4	2	SC23437
29/64	1/2	1"	3"	2	SC23453
15/32	1/2	1"	3"	2	SC23468
31/64	1/2	1"	3"	2	SC23484
1/2	1/2	1"	3"	2	SC23500
9/16	9/16	1-1/8	3-1/2	2	SC23562
5/8	5/8	1-1/4	3-1/2	2	SC23625
11/16	3/4	1-3/8	4"	2	SC23687
3/4	3/4	1-1/2	4"	2	SC23750
7/8	7/8	1-1/2	4"	2	SC23875
1"	1"	1-1/2	4"	2	SC23900

METRIC/METRIQUE

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1.0	3.0	4.0	38.0	2	SC73010
1.5	3.0	4.5	38.0	2	SC73015
2.0	3.0	6.3	38.0	2	SC73020
2.5	3.0	9.5	38.0	2	SC73025
3.0	3.0	12.0	38.0	2	SC73030
3.5	4.0	12.0	50.0	2	SC73035
4.0	4.0	14.0	50.0	2	SC73040
4.5	6.0	16.0	50.0	2	SC73045
5.0	6.0	16.0	50.0	2	SC73050
6.0	6.0	19.0	50.0	2	SC73060
7.0	8.0	20.0	63.0	2	SC73070
8.0	8.0	20.0	63.0	2	SC73080

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
9.0	10.0	22.0	75.0	2	SC73090
10.0	10.0	22.0	75.0	2	SC73100
11.0	12.0	25.0	75.0	2	SC73110
12.0	12.0	25.0	75.0	2	SC73120
13.0	14.0	32.0	89.0	2	SC73130
14.0	14.0	32.0	89.0	2	SC73140
16.0	16.0	32.0	89.0	2	SC73160
18.0	18.0	38.0	100.0	2	SC73180
20.0	20.0	38.0	100.0	2	SC73200
22.0	22.0	38.0	100.0	2	SC73220
25.0	25.0	38.0	100.0	2	SC73250



Solid Carbide - SC26 • SC76

2 Flute Long Series

- Premium Micrograin Carbide
- Center Cutting
- Longer Overall Length / Length of Cut
- Bright finish or TiAIN coated (TiN and TiCN available on request)
- For TiAIN coated, add "A" to end of the part number
- 2 Flute End mills provide increased chip capacity for higher feed rates
- Used for slotting and plunging applications

2 Cannelures Serie Longue

- Carbure Micrograin Premium
- Coupe centrale
- Coupe plus longue
- Finition brillante ou revêtement TiAIN (TiN et TiCN disponibles sur demande)
- Pour TiAIN revêtement ajouter "A" à la fin du numéro de pièce
- 2 fraises à flûte offrent une capacité de copeaux accrue pour des taux d'alimentation plus élevés
- Utilisé pour les applications de ralenti et de plongée

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/8	1/8	3/4	2-1/4	2	SC26125
3/16	3/16	3/4	2-1/2	2	SC26187
1/4	1/4	1-1/8	3"	2	SC26250
5/16	5/16	1-1/8	3"	2	SC26312
3/8	3/8	1-1/8	3"	2	SC26375
7/16	7/16	2"	4"	2	SC26437

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/2	1/2	2"	4"	2	SC26500
5/8	5/8	2-1/4	5"	2	SC26625
3/4	3/4	2-1/4	5"	2	SC26750
1"	1"	2-1/4	5"	2	SC26900

METRIC/METRIQUE

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
3.0	3.0	19.0	57.0	2	SC76030
3.0	3.0	25.0	75.0	2	SC76430
4.0	4.0	20.0	57.0	2	SC76040
4.0	4.0	25.0	75.0	2	SC76440
5.0	5.0	25.0	63.0	2	SC76050
5.0	5.0	25.0	75.0	2	SC76450
6.0	6.0	25.0	75.0	2	SC76460
6.0	6.0	30.0	100.0	2	SC76470
8.0	8.0	20.0	63.0	2	SC76080
8.0	8.0	25.0	75.0	2	SC76480
10.0	10.0	30.0	75.0	2	SC76100
10.0	10.0	40.0	100.0	2	SC76500

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
12.0	12.0	50.0	100.0	2	SC76120
12.0	12.0	75.0	150.0	2	SC76520
14.0	14.0	50.0	125.0	2	SC76530
14.0	14.0	75.0	150.0	2	SC76540
16.0	16.0	50.0	125.0	2	SC76160
16.0	16.0	75.0	150.0	2	SC76560
18.0	18.0	50.0	125.0	2	SC76180
18.0	18.0	75.0	150.0	2	SC76580
20.0	20.0	50.0	125.0	2	SC76200
20.0	20.0	75.0	150.0	2	SC76600
25.0	25.0	50.0	125.0	2	SC76250
25.0	25.0	75.0	150.0	2	SC76650

Solid Carbide - Ball Nose SC28 • SC78



2 Flute Long Series - Ball Nose

- Premium Micrograin Carbide
- Center Cutting
- Longer Overall Length / Length of Cut
- Bright finish or TiAlN coated (TiN and TiCN available on request)
- For TiAlN coated, add "A" to end of the part number
- 2 Flute End mills provide increased chip capacity for higher feed rates
- Used for milling contours, radius bottom slots and die cavities

2 Cannelures Serie Longue – A Bout Spherique

- Carbure Micrograin Premium
- Coupe centrale
- Coupe plus longue
- Finition brillante ou revêtement TiAlN (TiN et TiCN disponibles sur demande)
- Pour TiAlN revêtement ajouter "A" à la fin du numéro de pièce
- 2 fraises à flûte offrent une capacité de copeaux accrue pour des taux d'alimentation plus élevés
- Utilisé pour les contours de fraisage, les fentes de flèche de rayon et la matrice de cavité

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/8	1/8	3/4	2-1/4	2	SC28125
3/16	3/16	3/4	2-1/2	2	SC28187
1/4	1/4	1-1/8	3"	2	SC28250
5/16	5/16	1-1/8	3"	2	SC28312
3/8	3/8	1-1/8	3"	2	SC28375
7/16	7/16	2"	4"	2	SC28437

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/2	1/2	2"	4"	2	SC28500
5/8	5/8	2-1/4	5"	2	SC28625
3/4	3/4	2-1/4	5"	2	SC28750
1"	1"	2-1/4	5"	2	SC28900

METRIC/METRIQUE

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
3.0	3.0	19.0	57.0	2	SC78030
3.0	3.0	25.0	75.0	2	SC78430
4.0	4.0	20.0	50.0	2	SC78040
4.0	4.0	25.0	75.0	2	SC78440
5.0	5.0	25.0	63.0	2	SC78050
5.0	5.0	25.0	75.0	2	SC78450
6.0	6.0	25.0	75.0	2	SC78060
6.0	6.0	30.0	100.0	2	SC78460
8.0	8.0	25.0	75.0	2	SC78080
8.0	8.0	40.0	100.0	2	SC78480

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
10.0	10.0	40.0	100.0	2	SC78100
10.0	10.0	75.0	150.0	2	SC78500
12.0	12.0	50.0	100.0	2	SC78120
12.0	12.0	75.0	150.0	2	SC78520
14.0	14.0	75.0	150.0	2	SC78540
16.0	16.0	75.0	150.0	2	SC78560
18.0	18.0	75.0	150.0	2	SC78580
20.0	20.0	75.0	150.0	2	SC78600
25.0	25.0	75.0	150.0	2	SC78650



Solid Carbide - SC30

2 Flute Extra Long Series

- Premium Micrograin Carbide
- Center Cutting
- Longest Overall Length / Length of Cut
- Bright finish or TiAIN coated (TiN and TiCN available on request)
- For TiAIN coated, add "A" to end of the part number
- 2 Flute End mills provide increased chip capacity for higher feed rates
- Used for slotting and plunging applications

2 Cannelures Serie Extra Longue

- Carbure Micrograin Premium
- Coupe centrale
- Coupe plus longue
- Finition brillante ou revêtement TiAIN (TiN et TiCN disponibles sur demande)
- Pour TiAIN revêtement ajouter "A" à la fin du numéro de pièce
- 2 fraises à flûte offrent une capacité de copeaux accrue pour des taux d'alimentation plus élevés
- Utilisé pour les contours de fraisage, les fentes de flèche de rayon et la matrice de cavité

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/8	1/8	1"	3"	2	SC30125
3/16	3/16	1-1/8	3"	2	SC30187
1/4	1/4	1-1/2	4"	2	SC30250
5/16	5/16	1-5/8	4"	2	SC30312
3/8	3/8	1-3/4	4"	2	SC30375
7/16	7/16	3"	6"	2	SC30437

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/2	1/2	3"	6"	2	SC30500
5/8	5/8	3"	6"	2	SC30625
3/4	3/4	3"	6"	2	SC30750
1"	1"	3"	6"	2	SC30900



Solid Carbide - Ball Nose - SC32

2 Flute Extra Long Series Ball Nose

- Premium Micrograin Carbide
- Center Cutting
- Longest Overall Length / Length of Cut
- Bright finish or TiAIN coated (TiN and TiCN available on request)
- For TiAIN coated, add "A" to end of the part number
- 2 Flute End mills provide increased chip capacity for higher feed rates
- Used for milling contours, radius bottom slots and die cavities

2 Cannelures Serie Extra Longue - A Bout Spherique

- Carbure Micrograin Premium
- Coupe centrale
- Coupe plus longue
- Finition brillante ou revêtement TiAIN (TiN et TiCN disponibles sur demande)
- Pour TiAIN revêtement ajouter "A" à la fin du numéro de pièce
- 2 fraises à flûte offrent une capacité de copeaux accrue pour des taux d'alimentation plus élevés
- Utilisé pour les contours de fraisage, les fentes de flèche de rayon et la matrice de cavité

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/8	1/8	1"	3"	2	SC32125
3/16	3/16	1-1/8	3"	2	SC32187
1/4	1/4	1-1/2	4"	2	SC32250
5/16	5/16	1-5/8	4"	2	SC32312
3/8	3/8	1-3/4	4"	2	SC32375
7/16	7/16	3"	6"	2	SC32437

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/2	1/2	3"	6"	2	SC32500
5/8	5/8	3"	6"	2	SC32625
3/4	3/4	3"	6"	2	SC32750
1"	1"	3"	6"	2	SC32900



Miniature - SC55

2 Flute - Miniature Series

- Premium Micrograin Carbide
- Center Cutting
- 1/8" Shank
- Bright Finish (Other coatings available upon request)
- Other diameters available upon request

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
0.015	1/8	0.0470	1-1/2	2	SC55015
0.020	1/8	0.0630	1-1/2	2	SC55020
0.025	1/8	0.0780	1-1/2	2	SC55025
0.030	1/8	0.0940	1-1/2	2	SC55030
0.035	1/8	0.1090	1-1/2	2	SC55035
0.040	1/8	0.1250	1-1/2	2	SC55040

2 Cannelures - Miniature

- Carbure Micrograin Premium
- Coupe centrale
- Queue 1/8 "
- Finition brillante (autre revêtement disponible sur demande)
- Autres diamètres disponibles sur demande

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
0.045	1/8	0.1400	1-1/2	2	SC55045
0.050	1/8	0.1560	1-1/2	2	SC55050
0.055	1/8	0.1710	1-1/2	2	SC55055



Solid Carbide - Ball Nose SC57

2 Flute Extended Length - Ball Nose

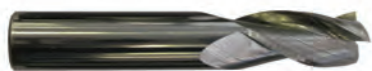
- Premium Micrograin Carbide
- Center Cutting
- Longer Overall Length / Shorter Flute length for longer reach applications where a longer Depth of Cut is not required
- Bright finish or TiAlN coated (TiN and TiCN available on request)
- For TiAlN coated, add "A" to end of the part number
- 2 Flute End mills provide increased chip capacity for higher feed rates
- Used for milling contours, radius bottom slots and die cavities

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/8	1/8	3/16	2-1/2	2	SC57125
3/16	3/16	9/32	4"	2	SC57187
1/4	1/4	3/8	4"	2	SC57250
5/16	5/16	15/32	4"	2	SC57312
3/8	3/8	9/16	4"	2	SC57375
7/16	7/16	21/32	5"	2	SC57437

2 Cannelures Extension - A Bout Spherique

- Carbure Micrograin Premium
- Coupe centrale
- Longueur totale plus longue / Longueur de flûte plus courte pour les applications à plus longue portée où une profondeur de coupe plus longue n'est pas requise
- Finition brillante ou revêtement TiAlN (TiN et TiCN disponibles sur demande)
- Pour TiAlN revêtement ajouter "A" à la fin du numéro de pièce
- 2 fraises à flûte offrent une capacité de copeaux accrue pour des taux d'alimentation plus élevés
- Utilisé pour fraiser les contours, les fentes de rayon et les cavités de filière

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/2	1/2	3/4	5"	2	SC57500
9/16	9/16	27/32	5"	2	SC57562
5/8	5/8	15/16	6"	2	SC57625
3/4	3/4	1-1/8	6"	2	SC57750



Solid Carbide - SC21

3 Flute Standard Length

- Premium Micrograin Carbide
- Center Cutting
- Bright finish or TiAIN coated (Other coatings available upon request)
- For TiAIN coated, add "A" to end of the part number
- 3 Flute end mills offer more chip clearance than 4 flute and better surface finish than 2 flute
- Ideally suited for non-ferrous materials such as Aluminum and easy to machine ferrous materials
- Used for slotting and plunging applications

3 Cannelures Longueur Standard

- Carbure Micrograin Premium
- Coupe centrale
- Finition brillante ou revêtement TiAIN (autre revêtement disponible sur demande)
- Pour TiAIN revêtement ajouter "A" à la fin du numéro de pièce
- 3 fraises en bout de flûte offrent plus de dégagement de copeaux que 4 flûtes et une meilleure finition de surface que 2 flûtes
- Idéalement adapté aux matériaux non ferreux tels que l'aluminium et les matériaux ferreux faciles à usiner
- Utilisé pour les applications de ralenti et de plongée

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/16	1/8	3/16	1-1/2	3	SC21062
5/64	1/8	3/16	1-1/2	3	SC21078
3/32	1/8	9/32	1-1/2	3	SC21093
7/64	1/8	3/8	1-1/2	3	SC21109
1/8	1/8	1/2	1-1/2	3	SC21125
9/64	3/16	1/2	2"	3	SC21140
5/32	3/16	1/2	2"	3	SC21156
11/64	3/16	5/8	2"	3	SC21171
3/16	3/16	5/8	2"	3	SC21187
13/64	1/4	5/8	2-1/2	3	SC21203
7/32	1/4	5/8	2-1/2	3	SC21218
15/64	1/4	3/4	2-1/2	3	SC21234
1/4	1/4	3/4	2-1/2	3	SC21250
17/64	5/16	3/4	2-1/2	3	SC21265
9/32	5/16	3/4	2-1/2	3	SC21281
19/64	5/16	13/16	2-1/2	3	SC21296
5/16	5/16	13/16	2-1/2	3	SC21312
21/64	3/8	1"	2-1/2	3	SC21328

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
11/32	3/8	1"	2-1/2	3	SC21343
23/64	3/8	1"	2-1/2	3	SC21359
3/8	3/8	1"	2-1/2	3	SC21375
25/64	7/16	1"	2-3/4	3	SC21390
13/32	7/16	1"	2-3/4	3	SC21406
27/64	7/16	1"	2-3/4	3	SC21421
7/16	7/16	1"	2-3/4	3	SC21437
29/64	1/2	1"	3"	3	SC21453
15/32	1/2	1"	3"	3	SC21468
31/64	1/2	1"	3"	3	SC21484
1/2	1/2	1"	3"	3	SC21500
9/16	9/16	1-1/8	3-1/2	3	SC21562
5/8	5/8	1-1/4	3-1/2	3	SC21625
11/16	3/4	1-3/8	4"	3	SC21687
3/4	3/4	1-1/2	4"	3	SC21750
7/8	7/8	1-1/2	4"	3	SC21875
1"	1"	1-1/2	4"	3	SC21900



Solid Carbide - Ball Nose - SC24

3 Flute Standard Length - Ball Nose

- Premium Micrograin Carbide
- Center Cutting
- Bright finish or TiAIN coated (Other coatings available upon request)
- For TiAIN coated, add "A" to end of the part number
- 3 Flute end mills offer more chip clearance than 4 flute and better surface finish than 2 flute
- Ideally suited for non-ferrous materials such as Aluminum and easy to machine ferrous materials
- Used for milling contours, radius bottom slots and die cavities

3 Cannelures Longueur Standard - A Bout Spherique

- Carbure Micrograin Premium
- Coupe centrale
- Finition brillante ou revêtement TiAIN (autre revêtement disponible sur demande)
- Pour TiAIN revêtement ajouter "A" à la fin du numéro de pièce
- 3 fraises en bout de flûte offrent plus de dégagement de copeaux que 4 flûtes et une meilleure finition de surface que 2 flûtes
- Idéalement adapté aux matériaux non ferreux tels que l'aluminium et les matériaux ferreux faciles à usiner
- Utilisé pour fraiser les contours, les fentes de rayon et les cavités de filière

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/16	1/8	3/16	1-1/2	3	SC24062
5/64	1/8	3/16	1-1/2	3	SC24078
3/32	1/8	9/32	1-1/2	3	SC24093
7/64	1/8	3/8	1-1/2	3	SC24109
1/8	1/8	1/2	1-1/2	3	SC24125
9/64	3/16	1/2	2"	3	SC24140
5/32	3/16	1/2	2"	3	SC24156
11/64	3/16	5/8	2"	3	SC24171
3/16	3/16	5/8	2"	3	SC24187
13/64	1/4	5/8	2-1/2	3	SC24203
7/32	1/4	5/8	2-1/2	3	SC24218
15/64	1/4	3/4	2-1/2	3	SC24234
1/4	1/4	3/4	2-1/2	3	SC24250
17/64	5/16	3/4	2-1/2	3	SC24265
9/32	5/16	3/4	2-1/2	3	SC24281
19/64	5/16	13/16	2-1/2	3	SC24296
5/16	5/16	13/16	2-1/2	3	SC24312
21/64	3/8	1"	2-1/2	3	SC24328

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
11/32	3/8	1"	2-1/2	3	SC24343
23/64	3/8	1"	2-1/2	3	SC24359
3/8	3/8	1"	2-1/2	3	SC24375
25/64	7/16	1"	2-3/4	3	SC24390
13/32	7/16	1"	2-3/4	3	SC24406
27/64	7/16	1"	2-3/4	3	SC24421
7/16	7/16	1"	2-3/4	3	SC24437
29/64	1/2	1"	3"	3	SC24453
15/32	1/2	1"	3"	3	SC24468
31/64	1/2	1"	3"	3	SC24484
1/2	1/2	1"	3"	3	SC24500
9/16	9/16	1-1/8	3-1/2	3	SC24562
5/8	5/8	1-1/4	3-1/2	3	SC24625
11/16	3/4	1-3/8	4"	3	SC24687
3/4	3/4	1-1/2	4"	3	SC24750
7/8	7/8	1-1/2	4"	3	SC24875
1"	1"	1-1/2	4"	3	SC24900



Solid Carbide - SC60

3 Flute - FC3 Cutter

- Premium Micrograin Carbide
- Center Cutting
- Bright finish or TiAlN coated (Other coatings available upon request)
- For TiAlN coated, add "A" to end of the part number
- Designed with radial relief ground cutting edges, the FC3 is the answer to small diameter milling problems
- Used for slotting and plunging applications

3 Cannelures - FC3 Fraises En Bout

- Carbure Micrograin Premium
- Coupe centrale
- Finition brillante ou revêtement TiAlN (autre revêtement disponible sur demande)
- Pour TiAlN revêtement ajouter "A" à la fin du numéro de pièce
- Conçu avec des bords de coupe au sol à relief radial, le FC3 est la réponse au fraisage de petit diamètre
- Utilisé pour les applications de ralenti et de plongée

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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SHORT LENGTH - SERIE COURTE

1/8	1/4	7/16	1-1/32	3	SC60008
5/32	1/4	1/2	1-9/32	3	SC60010
3/16	1/4	17/32	1-11/32	3	SC60012
7/32	1/4	17/32	1-13/32	3	SC60014
1/4	1/4	19/32	1-13/32	3	SC60016

LONG LENGTH - SERIE LONGUE

1/8	1/4	9/16	1-11/32	3	SC60208
5/32	1/4	5/8	1-17/32	3	SC60210
3/16	1/4	11/16	1-21/32	3	SC60212
7/32	1/4	11/16	1-3/4	3	SC60214
1/4	1/4	13/16	1-3/4	3	SC60216



Solid Carbide - SC22 • SC72

4 Flute Standard Length

- Premium Micrograin Carbide
- Center Cutting
- Bright finish or TiAlN coated (TiN and TiCN available on request)
- For TiAlN coated, add "A" to end of the part number
- 4 Flute design reduces chip load per tooth, has greater wear resistance, and improved surface finish
- Designed for profile, finishing, and slot milling

4 Cannelures Longueur Standard

- Carbure Micrograin Premium
- Coupe centrale
- Finition brillante ou revêtement TiAlN (TiN et TiCN disponibles sur demande)
- Pour TiAlN revêtement ajouter "A" à la fin du numéro de pièce
- La conception à 4 cannelures réduit la charge de copeaux par dent, a une plus grande résistance à l'usure et une finition de surface améliorée
- Conçu pour le profilage, la finition et le fraisage de rainures

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/32	1/8	1/8	1-1/2	4	SC22031
3/64	1/8	1/8	1-1/2	4	SC22046
1/16	1/8	3/16	1-1/2	4	SC22062
5/64	1/8	1/4	1-1/2	4	SC22078
3/32	1/8	3/8	1-1/2	4	SC22093
7/64	1/8	3/8	1-1/2	4	SC22109
1/8	1/8	1/2	1-1/2	4	SC22125
9/64	3/16	9/16	2"	4	SC22140
5/32	3/16	9/16	2"	4	SC22156
11/64	3/16	5/8	2"	4	SC22171
3/16	3/16	5/8	2"	4	SC22187
13/64	1/4	5/8	2-1/2	4	SC22203
7/32	1/4	5/8	2-1/2	4	SC22218
15/64	1/4	3/4	2-1/2	4	SC22234
1/4	1/4	3/4	2-1/2	4	SC22250
17/64	5/16	3/4	2-1/2	4	SC22265
9/32	5/16	3/4	2-1/2	4	SC22281
19/64	5/16	13/16	2-1/2	4	SC22296

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
5/16	5/16	13/16	2-1/2	4	SC22312
21/64	3/8	1"	2-1/2	4	SC22328
11/32	3/8	1"	2-1/2	4	SC22343
23/64	3/8	1"	2-1/2	4	SC22359
3/8	3/8	1"	2-1/2	4	SC22375
25/64	7/16	1"	2-3/4	4	SC22390
13/32	7/16	1"	2-3/4	4	SC22406
27/64	7/16	1"	2-3/4	4	SC22421
7/16	7/16	1"	2-3/4	4	SC22437
29/64	1/2	1"	3"	4	SC22453
15/32	1/2	1"	3"	4	SC22468
31/64	1/2	1"	3"	4	SC22484
1/2	1/2	1"	3"	4	SC22500
9/16	9/16	1-1/8	3-1/2	4	SC22562
5/8	5/8	1-1/4	3-1/2	4	SC22625
11/16	3/4	1-3/8	4"	4	SC22687
3/4	3/4	1-1/2	4"	4	SC22750
7/8	7/8	1-1/2	4"	4	SC22875
1"	1"	1-1/2	4"	4	SC22900

METRIC/METRIQUE

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1.0	3.0	4.0	38.0	4	SC72010
1.5	3.0	4.5	38.0	4	SC72015
2.0	3.0	6.3	38.0	4	SC72020
2.5	3.0	9.5	38.0	4	SC72025
3.0	3.0	12.0	38.0	4	SC72030
3.5	4.0	12.0	50.0	4	SC72035
4.0	4.0	14.0	50.0	4	SC72040
4.5	6.0	16.0	50.0	4	SC72045
5.0	6.0	16.0	50.0	4	SC72050
6.0	6.0	19.0	50.0	4	SC72060
7.0	8.0	20.0	63.0	4	SC72070
8.0	8.0	20.0	63.0	4	SC72080

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
9.0	10.0	22.0	75.0	4	SC72090
10.0	10.0	22.0	75.0	4	SC72100
11.0	12.0	25.0	75.0	4	SC72110
12.0	12.0	25.0	75.0	4	SC72120
13.0	14.0	32.0	89.0	4	SC72130
14.0	14.0	32.0	89.0	4	SC72140
16.0	16.0	32.0	89.0	4	SC72160
18.0	18.0	38.0	100.0	4	SC72180
20.0	20.0	38.0	100.0	4	SC72200
22.0	22.0	38.0	100.0	4	SC72220
25.0	25.0	38.0	100.0	4	SC72250



Solid Carbide - Ball Nose SC25 • SC75

4 Flute Standard Length - Ball Nose

- Premium Micrograin Carbide
- Center Cutting
- Bright finish or TiAIN coated (TiN and TiCN available on request)
- For TiAIN coated, add "A" to end of the part number
- 4 Flute design reduces chip load per tooth, has greater wear resistance, and improved surface finish
- Used for milling contours, radius bottom slots and die cavities

4 Cannelures Longueur Standard - A Bout Spherique

- Carbure Micro
- Finition brillante ou revêtement TiAIN (TiN et TiCN disponibles sur demande)
- Pour TiAIN revêtement ajouter "A" à la fin du numéro de pièce
- La conception à 4 cannelures réduit la charge de copeaux par dent, a une plus grande résistance à l'usure et une finition de surface améliorée
- Utilisé pour fraiser les contours, les fentes de rayon et les cavités de filière

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/32	1/8	1/8	1-1/2	4	SC25031
3/64	1/8	1/8	1-1/2	4	SC25046
1/16	1/8	3/16	1-1/2	4	SC25062
5/64	1/8	1/4	1-1/2	4	SC25078
3/32	1/8	3/8	1-1/2	4	SC25093
7/64	1/8	3/8	1-1/2	4	SC25109
1/8	1/8	1/2	1-1/2	4	SC25125
9/64	3/16	9/16	2"	4	SC25140
5/32	3/16	9/16	2"	4	SC25156
11/64	3/16	5/8	2"	4	SC25171
3/16	3/16	5/8	2"	4	SC25187
13/64	1/4	5/8	2-1/2	4	SC25203
7/32	1/4	5/8	2-1/2	4	SC25218
15/64	1/4	3/4	2-1/2	4	SC25234
1/4	1/4	3/4	2-1/2	4	SC25250
17/64	5/16	3/4	2-1/2	4	SC25265
9/32	5/16	3/4	2-1/2	4	SC25281
19/64	5/16	13/16	2-1/2	4	SC25296

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
5/16	5/16	13/16	2-1/2	4	SC25312
21/64	3/8	1"	2-1/2	4	SC25328
11/32	3/8	1"	2-1/2	4	SC25343
23/64	3/8	1"	2-1/2	4	SC25359
3/8	3/8	1"	2-1/2	4	SC25375
25/64	7/16	1"	2-3/4	4	SC25390
13/32	7/16	1"	2-3/4	4	SC25406
27/64	7/16	1"	2-3/4	4	SC25421
7/16	7/16	1"	2-3/4	4	SC25437
29/64	1/2	1"	3"	4	SC25453
15/32	1/2	1"	3"	4	SC25468
31/64	1/2	1"	3"	4	SC25484
1/2	1/2	1"	3"	4	SC25500
9/16	9/16	1-1/8	3-1/2	4	SC25562
5/8	5/8	1-1/4	3-1/2	4	SC25625
11/16	3/4	1-3/8	4"	4	SC25687
3/4	3/4	1-1/2	4"	4	SC25750
7/8	7/8	1-1/2	4"	4	SC25875
1"	1"	1-1/2	4"	4	SC25900

METRIC/METRIQUE

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1.0	3.0	4.0	38.0	4	SC75010
1.5	3.0	4.5	38.0	4	SC75015
2.0	3.0	6.3	38.0	4	SC75020
2.5	3.0	9.5	38.0	4	SC75025
3.0	3.0	12.0	38.0	4	SC75030
3.5	4.0	12.0	50.0	4	SC75035
4.0	4.0	14.0	50.0	4	SC75040
4.5	6.0	16.0	50.0	4	SC75045
5.0	6.0	16.0	50.0	4	SC75050
6.0	6.0	19.0	50.0	4	SC75060
7.0	8.0	20.0	63.0	4	SC75070
8.0	8.0	20.0	63.0	4	SC75080

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
9.0	10.0	22.0	75.0	4	SC75090
10.0	10.0	22.0	75.0	4	SC75100
11.0	12.0	25.0	75.0	4	SC75110
12.0	12.0	25.0	75.0	4	SC75120
13.0	14.0	32.0	89.0	4	SC75130
14.0	14.0	32.0	89.0	4	SC75140
16.0	16.0	32.0	89.0	4	SC75160
18.0	18.0	38.0	100.0	4	SC75180
20.0	20.0	38.0	100.0	4	SC75200
22.0	22.0	38.0	100.0	4	SC75220
25.0	25.0	38.0	100.0	4	SC75250



Solid Carbide - SC27 • SC77

4 Flute Long Series

- Premium Micrograin Carbide
- Center Cutting
- Longer Overall Length / Length of Cut
- Bright finish or TiAIN coated (TiN and TiCN available on request)
- For TiAIN coated, add "A" to end of the part number
- 4 Flute design reduces chip load per tooth, has greater wear resistance, and improved surface finish
- Designed for profile, finishing, and slot milling

4 Cannelures Series Longue

- Carbure Micrograin Premium
- Coupe centrale
- Coupe plus longue
- Finition brillante ou revêtement TiAIN (TiN et TiCN disponibles sur demande)
- Pour TiAIN revêtement ajouter "A" à la fin du numéro de pièce
- La conception à 4 cannelures réduit la charge de copeaux par dent, a une plus grande résistance à l'usure et une finition de surface améliorée
- Conçu pour le profilage, la finition et le fraisage de rainures

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/8	1/8	3/4	2-1/4	4	SC27125
3/16	3/16	3/4	2-1/2	4	SC27187
1/4	1/4	1-1/8	3"	4	SC27250
5/16	5/16	1-1/8	3"	4	SC27312
3/8	3/8	1-1/8	3"	4	SC27375
7/16	7/16	2"	4"	4	SC27437

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/2	1/2	2"	4"	4	SC27500
5/8	5/8	2-1/4	5"	4	SC27625
3/4	3/4	2-1/4	5"	4	SC27750
1"	1"	2-1/4	5"	4	SC27900

METRIC/METRIQUE

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
3.0	3.0	19.0	57.0	4	SC77030
3.0	3.0	25.0	75.0	4	SC77430
4.0	4.0	20.0	50.0	4	SC77040
4.0	4.0	25.0	75.0	4	SC77440
5.0	5.0	25.0	63.0	4	SC77050
5.0	5.0	25.0	75.0	4	SC77450
6.0	6.0	25.0	75.0	4	SC77060
6.0	6.0	30.0	100.0	4	SC77460
8.0	8.0	25.0	75.0	4	SC77080
8.0	8.0	40.0	100.0	4	SC77480
10.0	10.0	30.0	75.0	4	SC77100
10.0	10.0	40.0	100.0	4	SC77500

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
12.0	12.0	50.0	100.0	4	SC77120
12.0	12.0	75.0	150.0	4	SC77520
14.0	14.0	75.0	150.0	4	SC77540
16.0	16.0	50.0	125.0	4	SC77160
16.0	16.0	75.0	150.0	4	SC77560
18.0	18.0	50.0	125.0	4	SC77180
18.0	18.0	75.0	150.0	4	SC77580
20.0	20.0	50.0	125.0	4	SC77200
20.0	20.0	75.0	150.0	4	SC77600
25.0	25.0	50.0	125.0	4	SC77250
25.0	25.0	75.0	150.0	4	SC77650

Solid Carbide - Ball Nose SC29 • SC79



4 Flute Long Series - Ball Nose

- Premium Micrograin Carbide
- Center Cutting
- Longer Overall Length / Length of Cut
- Bright finish or TiAIN coated (TiN and TiCN available on request)
- For TiAIN coated, add "A" to end of the part number
- 4 Flute design reduces chip load per tooth, has greater wear resistance, and improved surface finish
- Used for milling contours, radius bottom slots and die cavities

4 Cannelures Serie Longue - A Bout Spherique

- Carbure Micrograin Premium
- Coupe centrale
- Longueur standard
- Finition brillante ou revêtement TiAIN (TiN et TiCN disponibles sur demande)
- Pour TiAIN revêtement ajouter "A" à la fin du numéro de pièce
- La conception à 4 cannelures réduit la charge de copeaux par dent, a une plus grande résistance à l'usure et une finition de surface améliorée
- Utilisé pour fraiser les contours, les fentes de rayon et les cavités de filière

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/8	1/8	3/4	2-1/4	4	SC29125
3/16	3/16	3/4	2-1/2	4	SC29187
1/4	1/4	1-1/8	3"	4	SC29250
5/16	5/16	1-1/8	3"	4	SC29312
3/8	3/8	1-1/8	3"	4	SC29375
7/16	7/16	2"	4"	4	SC29437

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/2	1/2	2"	4"	4	SC29500
5/8	5/8	2-1/4	5"	4	SC29625
3/4	3/4	2-1/4	5"	4	SC29750
1"	1"	2-1/4	5"	4	SC29900

METRIC/METRIQUE

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
3.0	3.0	19.0	57.0	4	SC79030
3.0	3.0	25.0	75.0	4	SC79430
4.0	4.0	20.0	50.0	4	SC79040
4.0	4.0	25.0	75.0	4	SC79440
5.0	5.0	25.0	75.0	4	SC79450
6.0	6.0	25.0	75.0	4	SC79060
6.0	6.0	30.0	100.0	4	SC79460
8.0	8.0	25.0	75.0	4	SC79080
8.0	8.0	40.0	100.0	4	SC79480
10.0	10.0	40.0	100.0	4	SC79100

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
10.0	10.0	75.0	150.0	4	SC79500
12.0	12.0	50.0	100.0	4	SC79120
12.0	12.0	75.0	150.0	4	SC79520
14.0	14.0	75.0	150.0	4	SC79540
16.0	16.0	75.0	150.0	4	SC79560
18.0	18.0	75.0	150.0	4	SC79580
20.0	20.0	75.0	150.0	4	SC79600
25.0	25.0	75.0	150.0	4	SC79650



Solid Carbide - SC31

4 Flute Extra Long Series

- Premium Micrograin Carbide
- Center Cutting
- Extended length for greater reach
- Bright finish or TiAIN coated (TiN and TiCN available on request)
- For TiAIN coated, add "A" to end of the part number
- 4 Flute design reduces chip load per tooth, has greater wear resistance, and improved surface finish
- Designed for profile, finishing, and slot milling

4 Cannelures Serie Extra Longue

- Carbure Micrograin Premium
- Coupe centrale
- Longueur étendue pour une plus grande portée
- Finition brillante ou revêtement TiAIN (TiN et TiCN disponibles sur demande)
- Pour TiAIN revêtement ajouter "A" à la fin du numéro de pièce
- La conception à 4 cannelures réduit la charge de copeaux par dent, a une plus grande résistance à l'usure et une finition de surface améliorée
- Conçu pour le profilage, la finition et le fraisage de rainures

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/8	1/8	1"	3"	4	SC31125
3/16	3/16	1-1/8	3"	4	SC31187
1/4	1/4	1-1/2	4"	4	SC31250
5/16	5/16	1-5/8	4"	4	SC31312
3/8	3/8	1-3/4	4"	4	SC31375
7/16	7/16	3"	6"	4	SC31437

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/2	1/2	3"	6"	4	SC31500
5/8	5/8	3"	6"	4	SC31625
3/4	3/4	3"	6"	4	SC31750
1"	1"	3"	6"	4	SC31900



Solid Carbide - Ball Nose - SC33

4 Flute Extra Long Series - Ball Nose

- Premium Micrograin Carbide
- Center Cutting
- Extended length for greater reach
- Longer Overall Length / Length of Cut
- Bright finish or TiAIN coated (TiN and TiCN available on request)
- For TiAIN coated, add "A" to end of the part number
- 4 Flute design reduces chip load per tooth, has greater wear resistance, and improved surface finish
- Used for milling contours, radius bottom slots and die cavities

4 Cannelures Serie Extra Longue - A Bout Spherique

- Carbure Micrograin Premium
- Centre Cutting
- Longueur étendue pour une plus grande portée
- Coupe plus longue
- Finition brillante ou revêtement TiAIN (TiN et TiCN disponibles sur demande)
- Pour TiAIN revêtement ajouter "A" à la fin du numéro de pièce
- La conception à 4 cannelures réduit la charge de copeaux par dent, a une plus grande résistance à l'usure et une finition de surface améliorée
- Utilisé pour fraiser les contours, les fentes de rayon et les cavités de filière

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/8	1/8	1"	3"	4	SC33125
3/16	3/16	1-1/8	3"	4	SC33187
1/4	1/4	1-1/2	4"	4	SC33250
5/16	5/16	1-5/8	4"	4	SC33312
3/8	3/8	1-3/4	4"	4	SC33375
7/16	7/16	3"	6"	4	SC33437

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/2	1/2	3"	6"	4	SC33500
5/8	5/8	3"	6"	4	SC33625
3/4	3/4	3"	6"	4	SC33750
1"	1"	3"	6"	4	SC33900



Miniature - SC56

4 Flute - Miniature Series

- Premium Micrograin Carbide
- Center Cutting
- 1/8" Shank
- Bright Finish (Other coatings available upon request)
- Other diameters available upon request

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
0.015	1/8	0.045	1-1/2	4	SC56015
0.020	1/8	0.060	1-1/2	4	SC56020
0.025	1/8	0.075	1-1/2	4	SC56025
0.030	1/8	0.090	1-1/2	4	SC56030
0.035	1/8	0.105	1-1/2	4	SC56035
0.040	1/8	0.120	1-1/2	4	SC56040

4 Cannelures - Miniature Serie

- Carbure Micrograin Premium
- Coupe centrale
- Queue 1/8 "
- Finition brillante (autre revêtement disponible sur demande)
- Autres diamètres disponibles sur demande

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
0.045	1/8	0.135	1-1/2	4	SC56045
0.050	1/8	0.150	1-1/2	4	SC56050
0.055	1/8	0.165	1-1/2	4	SC56055
0.060	1/8	0.180	1-1/2	4	SC56060



Solid Carbide - SC46

4 Flute Stub Length - Roughing Cutter

- Premium Micrograin Carbide
- Center Cutting
- Bright finish or TiAIN coated (TiN and TiCN available on request)
- For TiAIN coated, add "A" to end of the part number
- Produces smaller more manageable chips with reduced cutting forces
- Chip breaker cutting edge allows for heavier cuts and higher speeds / feeds
- 4 Flute design reduces chip load per tooth, has greater wear resistance, and improved surface finish
- Designed for profile, finishing, and slot milling

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/4	1/4	1/2	2"	4	SC46250
5/16	5/16	1/2	2"	4	SC46312
3/8	3/8	5/8	2"	4	SC46375
1/2	1/2	5/8	2-1/2	4	SC46500

Multiple Cannelures Serie Courte - Fraises A Ebaucher

- Carbure Micrograin Premium
- Coupe centrale
- Finition brillante ou revêtement TiAIN (TiN et TiCN disponibles sur demande)
- Pour TiAIN revêtement ajouter "A" à la fin du numéro de pièce
- Produit des copeaux plus petits et plus faciles à gérer avec des forces de coupe réduites
- Le bord de coupe du brise-copeaux permet des coupes plus lourdes et des vitesses / avances
- La conception à 4 cannelures réduit la charge de copeaux par dent, a une plus grande résistance à l'usure et une finition de surface améliorée
- Conçu pour le profilage, la finition et le fraisage de rainures

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
5/8	5/8	3/4	3"	4	SC46625
3/4	3/4	1"	3"	4	SC46750



Solid Carbide - SC47

4 Flute Standard Length - Roughing Cutter

- Premium Micrograin Carbide
- Center Cutting
- Bright finish or TiAIN coated (TiN and TiCN available on request)
- For TiAIN coated, add "A" to end of the part number
- Produces smaller more manageable chips with reduced cutting forces
- Chip breaker cutting edge allows for heavier cuts and higher speeds / feeds
- 4 Flute design reduces chip load per tooth, has greater wear resistance, and improved surface finish
- Designed for profile, finishing, and slot milling

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/4	1/4	3/4	2-1/2	4	SC47250
5/16	5/16	11/32	2-1/2	4	SC47312
3/8	3/8	7/8	2-1/2	4	SC47375
7/16	7/16	1"	2-3/4	4	SC47437
1/2	1/2	1-1/4	3"	4	SC47500
9/16	9/16	1-1/4	3-1/2	4	SC47562

Multiple Cannelures Longueur Standard Fraises A Gaucher

- Carbure Micrograin Premium
- Coupe centrale
- Finition brillante ou revêtement TiAIN (TiN et TiCN disponibles sur demande)
- Pour TiAIN revêtement ajouter "A" à la fin du numéro de pièce
- Produit des copeaux plus petits et plus faciles à gérer avec des forces de coupe réduites
- Le bord de coupe du brise-copeaux permet des coupes plus lourdes et des vitesses / avances _ La conception à 4 cannelures réduit la charge de copeaux par dent, a une plus grande résistance à l'usure et une finition de surface améliorée
- Conçu pour le profilage, la finition et le fraisage de rainures

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
5/8	5/8	1-1/4	3-1/2	4	SC47625
3/4	3/4	1-1/2	4"	4	SC47750
1"	1"	1-1/2	4"	4	SC47900



Solid Carbide - SC48

4 Flute Long Series - Roughing Cutter

- Premium Micrograin Carbide
- Center Cutting
- Bright finish or TiAIN coated (TiN and TiCN available on request)
- For TiAIN coated, add "A" to end of the part number
- Produces smaller more manageable chips with reduced cutting forces
- Chip breaker cutting edge allows for heavier cuts and higher speeds / feeds
- 4 Flute design reduces chip load per tooth, has greater wear resistance, and improved surface finish
- Longer Overall Length / Length of Cut
- Designed for profile, finishing, and slot milling

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/4	1/4	1-1/8	3"	4	SC48250
3/8	3/8	1-1/8	3"	4	SC48375
1/2	1/2	2"	4"	4	SC48500
5/8	5/8	2-1/4	5"	4	SC48625

Multiple Cannelures Serie Longue - Fraises A Ebaucher

- Carbure Micrograin Premium
- Coupe centrale
- Finition brillante ou revêtement TiAIN (TiN et TiCN disponibles sur demande)
- Pour TiAIN revêtement ajouter "A" à la fin du numéro de pièce
- Produit des copeaux plus petits et plus faciles à gérer avec des forces de coupe réduites
- Le bord de coupe du brise-copeaux permet des coupes plus lourdes et des vitesses / avances _ La conception à 4 cannelures réduit la charge de copeaux par dent, a une plus grande résistance à l'usure et une finition de surface améliorée
- Coupe plus longue
- Conçu pour le profilage, la finition et le fraisage de rainures

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
3/4	3/4	2-1/4	5"	4	SC48750
1"	1"	2-1/4	5"	4	SC48900



Solid Carbide - SC34

2 Flute Stub - Double End

- Premium Micrograin Carbide
- Center Cutting
- Bright finish or TiAlN coated (TiN and TiCN available on request)
- For TiAlN coated, add "A" to end of the part number
- 2 Flute End mills provide increased chip capacity for higher feed rates
- Used for slotting and plunging applications

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/32	1/8	5/64	1-1/2	2	SC34031
3/64	1/8	3/32	1-1/2	2	SC34046
1/16	1/8	1/8	1-1/2	2	SC34062
5/64	1/8	5/32	1-1/2	2	SC34078
3/32	1/8	3/16	1-1/2	2	SC34093
7/64	1/8	7/32	1-1/2	2	SC34109
1/8	1/8	1/4	1-1/2	2	SC34125
9/64	3/16	9/32	2"	2	SC34140
5/32	3/16	5/16	2"	2	SC34156
11/64	3/16	3/8	2"	2	SC34171

2 Cannelures Extra Courte - Fraises En Bout Doubles

- Carbure Micrograin Premium
- Coupe centrale
- Finition brillante ou revêtement TiAlN (TiN et TiCN disponibles sur demande)
- Pour TiAlN revêtement ajouter "A" à la fin du numéro de pièce
- 2 fraises à flûte offrent une capacité de copeaux accrue pour des taux d'alimentation plus élevés
- Conçu pour le profilage, la finition et le fraisage de rainures

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
3/16	3/16	3/8	2"	2	SC34187
13/64	1/4	1/2	2-1/2	2	SC34203
7/32	1/4	1/2	2-1/2	2	SC34218
15/64	1/4	1/2	2-1/2	2	SC34234
1/4	1/4	1/2	2-1/2	2	SC34250
9/32	5/16	1/2	2-1/2	2	SC34281
5/16	5/16	1/2	2-1/2	2	SC34312
3/8	3/8	1/2	2-1/2	2	SC34375
7/16	7/16	9/16	2-1/2	2	SC34437
1/2	1/2	5/8	3"	2	SC34500



Solid Carbide - Ball Nose - SC36

2 Flute Stub Double End - Ball Nose

- Premium Micrograin Carbide
- Center Cutting
- For TiAlN coated, add "A" to end of the part number
- Bright finish or TiAlN coated (TiN and TiCN available on request)
- 2 Flute End mills provide increased chip capacity for higher feed rates
- Used for milling contours, radius bottom slots and die cavities

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/32	1/8	5/64	1-1/2	2	SC36031
3/64	1/8	3/32	1-1/2	2	SC36046
1/16	1/8	1/8	1-1/2	2	SC36062
5/64	1/8	5/32	1-1/2	2	SC36078
3/32	1/8	3/16	1-1/2	2	SC36093
7/64	1/8	7/32	1-1/2	2	SC36109
1/8	1/8	1/4	1-1/2	2	SC36125
9/64	3/16	9/32	2"	2	SC36140
5/32	3/16	5/16	2"	2	SC36156
11/64	3/16	3/8	2"	2	SC36171

2 Cannelures Extra Courte Fraises En Bout Doubles - A Bout Spherique

- Carbure Micrograin Premium
- Coupe centrale
- Finition brillante ou revêtement TiAlN (TiN et TiCN disponibles sur demande)
- Pour TiAlN revêtement ajouter "A" à la fin du numéro de pièce
- 2 fraises à flûte offrent une capacité de copeaux accrue pour des taux d'alimentation plus élevés
- Utilisé pour fraiser les contours, les fentes de rayon et les cavités de filière

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
3/16	3/16	3/8	2"	2	SC36187
13/64	1/4	1/2	2-1/2	2	SC36203
7/32	1/4	1/2	2-1/2	2	SC36218
15/64	1/4	1/2	2-1/2	2	SC36234
1/4	1/4	1/2	2-1/2	2	SC36250
9/32	5/16	1/2	2-1/2	2	SC36281
5/16	5/16	1/2	2-1/2	2	SC36312
3/8	3/8	1/2	2-1/2	2	SC36375
7/16	7/16	9/16	2-1/2	2	SC36437
1/2	1/2	5/8	3"	2	SC36500



Solid Carbide - SC35

4 Flute Double End

- Premium Micrograin Carbide
- Center Cutting
- Bright finish or TiAlN coated (TiN and TiCN available on request)
- For TiAlN coated, add "A" to end of the part number
- 4 Flute design reduces chip load per tooth, has greater wear resistance, and improved surface finish
- Designed for profile, finishing, and slot milling

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/32	1/8	5/64	1-1/2	4	SC35031
3/64	1/8	3/32	1-1/2	4	SC35046
1/16	1/8	1/8	1-1/2	4	SC35062
5/64	1/8	5/32	1-1/2	4	SC35078
3/32	1/8	3/16	1-1/2	4	SC35093
7/64	1/8	7/32	1-1/2	4	SC35109
1/8	1/8	1/4	1-1/2	4	SC35125
9/64	3/16	9/32	2"	4	SC35140
5/32	3/16	5/16	2"	4	SC35156
11/64	3/16	3/8	2"	4	SC35171

4 Cannelures Fraises En Bout Doubles

- Carbure Micrograin Premium
- Coupe centrale
- Finition brillante ou revêtement TiAlN (TiN et TiCN disponibles sur demande)
- Pour TiAlN revêtement ajouter "A" à la fin du numéro de pièce
- La conception à 4 cannelures réduit la charge de copeaux par dent, a une plus grande résistance à l'usure et une finition de surface améliorée
- Conçu pour le profilage, la finition et le fraisage de rainures

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
3/16	3/16	3/8	2"	4	SC35187
13/64	1/4	1/2	2-1/2	4	SC35203
7/32	1/4	1/2	2-1/2	4	SC35218
15/64	1/4	1/2	2-1/2	4	SC35234
1/4	1/4	1/2	2-1/2	4	SC35250
9/32	5/16	1/2	2-1/2	4	SC35281
5/16	5/16	1/2	2-1/2	4	SC35312
3/8	3/8	1/2	2-1/2	4	SC35375
7/16	7/16	9/16	2-1/2	4	SC35437
1/2	1/2	5/8	3"	4	SC35500



Solid Carbide - Ball Nose - SC37

4 Flute Double End - Ball Nose

- Premium Micrograin Carbide
- Center Cutting
- Bright finish or TiAlN coated (TiN and TiCN available on request)
- For TiAlN coated, add "A" to end of the part number
- 4 Flute design reduces chip load per tooth, has greater wear resistance, and improved surface finish
- Used for milling contours, radius bottom slots and die cavities

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/32	1/8	5/64	1-1/2	4	SC37031
3/64	1/8	3/32	1-1/2	4	SC37046
1/16	1/8	1/8	1-1/2	4	SC37062
5/64	1/8	5/32	1-1/2	4	SC37078
3/32	1/8	3/16	1-1/2	4	SC37093
7/64	1/8	7/32	1-1/2	4	SC37109
1/8	1/8	1/4	1-1/2	4	SC37125
9/64	3/16	9/32	2"	4	SC37140
5/32	3/16	5/16	2"	4	SC37156
11/64	3/16	3/8	2"	4	SC37171

4 Cannelures Fraises En Bout Doubles - A Bout Spherique

- Carbure Micrograin Premium
- Coupe centrale
- Finition brillante ou revêtement TiAlN (TiN et TiCN disponibles sur demande)
- Pour TiAlN revêtement ajouter "A" à la fin du numéro de pièce
- La conception à 4 cannelures réduit la charge de copeaux par dent, a une plus grande résistance à l'usure et une finition de surface améliorée
- Utilisé pour fraiser les contours, les fentes de rayon et les cavités de filière

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
3/16	3/16	3/8	2"	4	SC37187
13/64	1/4	1/2	2-1/2	4	SC37203
7/32	1/4	1/2	2-1/2	4	SC37218
15/64	1/4	1/2	2-1/2	4	SC37234
1/4	1/4	1/2	2-1/2	4	SC37250
9/32	5/16	1/2	2-1/2	4	SC37281
5/16	5/16	1/2	2-1/2	4	SC37312
3/8	3/8	1/2	2-1/2	4	SC37375
7/16	7/16	9/16	2-1/2	4	SC37437
1/2	1/2	5/8	3"	4	SC37500



Solid Carbide - SC38

2 Flute Double End - Weldon Flat

- Premium Micrograin Carbide
- Center Cutting
- Bright finish or TiAIN coated (TiN and TiCN available on request)
- For TiAIN coated, add "A" to end of the part number
- 2 Flute End mills provide increased chip capacity for higher feed rates
- Designed for profile, finishing, open ended slot milling, and plunging

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/8	3/8	3/8	3-1/16	2	SC38125
5/32	3/8	7/16	3-1/8	2	SC38156
3/16	3/8	1/2	3-1/4	2	SC38187
7/32	3/8	9/16	3-3/8	2	SC38218
1/4	3/8	5/8	3-3/8	2	SC38250
9/32	3/8	11/16	3-3/8	2	SC38281

2 Cannelures Fraises En Bout Doubles Queue Weldon

- Carbure Micrograin Premium
- Coupe centrale
- Finition brillante ou revêtement TiAIN (TiN et TiCN disponibles sur demande)
- Pour TiAIN revêtement ajouter "A" à la fin du numéro de pièce
- 2 fraises à flûte offrent une capacité de copeaux accrue pour des taux d'alimentation plus élevés
- Conçu pour le profilage, la finition, le fraisage à fente à extrémité ouverte et la plongée

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
5/16	3/8	3/4	3-1/2	2	SC38312
11/32	3/8	3/4	3-1/2	2	SC38343
3/8	3/8	3/4	3-1/2	2	SC38375
7/16	1/2	7/8	4"	2	SC38437
1/2	1/2	1"	4"	2	SC38500



Solid Carbide - Ball Nose SC40

2 Flute Double End Weldon Flat - Ball Nose

- Premium Micrograin Carbide
- Center Cutting
- Bright finish or TiAIN coated (TiN and TiCN available on request)
- For TiAIN coated, add "A" to end of the part number
- 2 Flute End mills provide increased chip capacity for higher feed rates
- Used for milling contours, radius bottom slots and die cavities

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/8	3/8	3/8	3-1/16	2	SC40125
5/32	3/8	7/16	3-1/8	2	SC40156
3/16	3/8	1/2	3-1/4	2	SC40187
7/32	3/8	9/16	3-3/8	2	SC40218
1/4	3/8	5/8	3-3/8	2	SC40250
9/32	3/8	11/16	3-3/8	2	SC40281

2 Cannelures Fraises En Bout Doubles Weldon - A Bout Spherique

- Carbure Micrograin Premium
- Coupe centrale
- Finition brillante ou revêtement TiAIN (TiN et TiCN disponibles sur demande)
- Pour TiAIN revêtement ajouter "A" à la fin du numéro de pièce
- 2 fraises à flûte offrent une capacité de copeaux accrue pour des taux d'alimentation plus élevés
- Utilisé pour fraiser les contours, les fentes de rayon et les cavités de filière

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
5/16	3/8	3/4	3-1/2	2	SC40312
11/32	3/8	3/4	3-1/2	2	SC40343
3/8	3/8	3/4	3-1/2	2	SC40375
7/16	1/2	7/8	4"	2	SC40437
1/2	1/2	1"	4"	2	SC40500



Solid Carbide - SC39

4 Flute Double End - Weldon Flat

- Premium Micrograin Carbide
- Center Cutting
- Bright finish or TiAIN coated (TiN and TiCN available on request)
- For TiAIN coated, add "A" to end of the part number
- 4 Flute design reduces chip load per tooth, has greater wear resistance, and improved surface finish
- Designed for profile, finishing, and slot milling

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/8	3/8	3/8	3-1/16	4	SC39125
5/32	3/8	7/16	3-1/8	4	SC39156
3/16	3/8	1/2	3-1/4	4	SC39187
7/32	3/8	9/16	3-3/8	4	SC39218
1/4	3/8	5/8	3-3/8	4	SC39250
9/32	3/8	11/16	3-3/8	4	SC39281

4 Cannelures Weldon Fraises - En Bout Doubles

- Carbure Micrograin Premium
- Coupe centrale
- Finition brillante ou revêtement TiAIN (TiN et TiCN disponibles sur demande)
- Pour TiAIN revêtement ajouter "A" à la fin du numéro de pièce
- La conception à 4 cannelures réduit la charge de copeaux par dent, a une plus grande résistance à l'usure et une finition de surface améliorée
- Conçu pour le profilage, la finition et le fraisage de rainures

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
5/16	3/8	3/4	3-1/2	4	SC39312
11/32	3/8	3/4	3-1/2	4	SC39343
3/8	3/8	3/4	3-1/2	4	SC39375
7/16	1/2	7/8	4"	4	SC39437
1/2	1/2	1"	4"	4	SC39500



Solid Carbide - Ball Nose - SC41

4 Flute Double End Weldon Flat - Ball Nose

- Premium Micrograin Carbide
- Center Cutting
- Bright finish or TiAIN coated (TiN and TiCN available on request)
- For TiAIN coated, add "A" to end of the part number
- 4 Flute design reduces chip load per tooth, has greater wear resistance, and improved surface finish
- Used for milling contours, radius bottom slots and die cavities

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/8	3/8	3/8	3-1/16	4	SC41125
5/32	3/8	7/16	3-1/8	4	SC41156
3/16	3/8	1/2	3-1/4	4	SC41187
7/32	3/8	9/16	3-3/8	4	SC41218
1/4	3/8	5/8	3-3/8	4	SC41250
9/32	3/8	11/16	3-3/8	4	SC41281

4 Cannelures Weldon Fraises En Bout Doubles - A Bout Spherique

- Carbure Micrograin Premium
- Coupe centrale
- Finition brillante ou revêtement TiAIN (TiN et TiCN disponibles sur demande)
- Pour TiAIN revêtement ajouter "A" à la fin du numéro de pièce
- La conception à 4 cannelures réduit la charge de copeaux par dent, a une plus grande résistance à l'usure et une finition de surface améliorée
- Utilisé pour fraiser les contours, les fentes de rayon et les cavités de filière

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
5/16	3/8	3/4	3-1/2	4	SC41312
11/32	3/8	3/4	3-1/2	4	SC41343
3/8	3/8	3/4	3-1/2	4	SC41375
7/16	1/2	7/8	4"	4	SC41437
1/2	1/2	1"	4"	4	SC74150



HSS Weldon Shank EM50 • EM51

2 Flute Standard Length

- HSS
- Center Cutting
- Bright Finish (TiN and TiCN coatings available)
- Designed for plunge cutting and slotting

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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FRACTIONAL/FRACTIONNEL

1/8	3/8	3/8	2-5/16	2	EM50008
5/32	3/8	7/16	2-5/16	2	EM50010
3/16	3/8	7/16	2-5/16	2	EM50012
7/32	3/8	1/2	2-5/16	2	EM50014
1/4	3/8	1/2	2-5/16	2	EM50016
9/32	3/8	9/16	2-5/16	2	EM50018
5/16	3/8	9/16	2-5/16	2	EM50020
11/32	3/8	9/16	2-5/16	2	EM50022
3/8	3/8	9/16	2-5/16	2	EM50024
13/32	3/8	13/16	2-1/2	2	EM50026
7/16	3/8	13/16	2-1/2	2	EM50028
15/32	3/8	13/16	2-1/2	2	EM50030
1/2	1/2	1"	3"	2	EM50132
17/32	1/2	1-1/8	3-1/8	2	EM50134
9/16	1/2	1-1/8	3-1/8	2	EM50136
19/32	5/8	1-1/8	3-1/8	2	EM50238
5/8	5/8	1-5/16	3-7/16	2	EM50240
21/32	5/8	1-5/16	3-7/16	2	EM50242
11/16	5/8	1-5/16	3-7/16	2	EM50244
23/32	3/4	1-5/16	3-7/16	2	EM50346
3/4	3/4	1-5/16	3-5/8	2	EM50348
25/32	5/8	1-1/2	3-5/8	2	EM50250
13/16	5/8	1-1/2	3-3/4	2	EM50252
27/32	3/4	1-1/2	3-3/4	2	EM50354
7/8	3/4	1-1/2	3-3/4	2	EM50356
7/8	7/8	1-1/2	3-3/4	2	EM50456
29/32	7/8	1-1/2	3-3/4	2	EM50458
15/16	7/8	1-1/2	3-3/4	2	EM50460
31/32	3/4	1-1/2	3-3/4	2	EM50362
1"	3/4	1-1/2	3-3/4	2	EM50364
1"	1"	1-5/8	4-1/8	2	EM50564
1-1/8	1"	1-5/8	4-1/8	2	EM50572
1-1/4	1-1/4	1-5/8	4-1/8	2	EM50680
1-3/8	1-1/4	1-5/8	4-1/8	2	EM50688
1-1/2	1-1/4	1-5/8	4-1/8	2	EM50696
1-3/4	1-1/4	1-5/8	4-1/8	2	EM50712
2"	1-1/4	1-5/8	4-1/8	2	EM50728

2 Cannelures Longueur Standard

- HSS
- Coupe centrale
- Finition brillante (revêtements TiN et TiCN disponibles)
- Conçu pour la coupe en plongée et le rainurage

DIA	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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METRIC/METRIQUE

3.0	3/8	3/8	2-5/16	2	EM51530
4.0	3/8	7/16	2-5/16	2	EM51540
4.5	3/8	7/16	2-5/16	2	EM51545
5.0	3/8	1/2	2-5/16	2	EM51550
5.5	3/8	1/2	2-5/16	2	EM51555
6.0	3/8	1/2	2-5/16	2	EM51560
6.5	3/8	9/16	2-5/16	2	EM51565
7.0	3/8	9/16	2-5/16	2	EM51570
7.5	3/8	9/16	2-5/16	2	EM51575
8.0	3/8	9/16	2-5/16	2	EM51580
8.5	3/8	9/16	2-5/16	2	EM51585
9.0	3/8	9/16	2-5/16	2	EM51590
9.5	3/8	9/16	2-5/16	2	EM51595
10.0	3/8	13/16	2-1/2	2	EM51600
10.5	3/8	13/16	2-1/2	2	EM51605
11.0	3/8	13/16	2-1/2	2	EM51610
11.5	3/8	1"	3"	2	EM51615
12.0	1/2	1"	3"	2	EM51620
12.5	1/2	1"	3"	2	EM51625
13.0	1/2	1-1/8	3-1/8	2	EM51630
13.5	1/2	1-1/8	3-1/8	2	EM51635
14.0	1/2	1-1/8	3-1/8	2	EM51640
14.5	1/2	1-1/8	3-1/8	2	EM51645
15.0	1/2	1-1/8	3-1/8	2	EM51650
16.0	1/2	1-5/16	3-5/16	2	EM51660
17.0	5/8	1-5/16	3-7/16	2	EM51670
18.0	1/2	1-5/16	3-5/16	2	EM51680
19.0	3/4	1-5/16	3-9/16	2	EM51690
20.0	3/4	1-1/2	3-3/4	2	EM51700
21.0	1/2	1-1/2	3-1/2	2	EM51710
22.0	7/8	1-1/2	3-3/4	2	EM51720
23.0	1/2	1-1/2	3-1/2	2	EM51730
24.0	1/2	1-1/2	3-1/2	2	EM51740
25.0	1"	1-5/8	4-1/8	2	EM51750



Cobalt Weldon Shank EM02 • MC55

2 Flute Standard Length

- Cobalt
- Center Cutting
- Bright Finish (TiN and TiCN coatings available)
- Designed for plunge cutting and slotting

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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FRACTIONAL/FRACTIONNEL

1/8	3/8	3/8	2-5/16	2	EM02008
5/32	3/8	7/16	2-5/16	2	EM02010
3/16	3/8	7/16	2-5/16	2	EM02012
7/32	3/8	1/2	2-5/16	2	EM02014
1/4	3/8	1/2	2-5/16	2	EM02016
5/16	3/8	9/16	2-5/16	2	EM02020
3/8	3/8	9/16	2-5/16	2	EM02024
7/16	3/8	13/16	2-1/2	2	EM02028
1/2	3/8	13/16	2-1/2	2	EM02032
1/2	1/2	1"	3"	2	EM02132
9/16	1/2	1-1/8	3-1/8	2	EM02136
5/8	1/2	1-1/8	3-1/8	2	EM02140

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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METRIC/METRIQUE

1.5	6.0	3.0	48.0	2	MC55515
2.0	6.0	4.0	48.0	2	MC55520
2.5	6.0	5.0	59.0	2	MC55525
3.0	6.0	5.0	49.0	2	MC55530
3.5	6.0	6.0	50.0	2	MC55535
4.0	6.0	7.0	51.0	2	MC55540
4.5	6.0	7.0	51.0	2	MC55545
5.0	6.0	8.0	52.0	2	MC55550
5.5	6.0	8.0	52.0	2	MC55555
6.0	6.0	8.0	52.0	2	MC55560
6.5	10.0	10.0	60.0	2	MC55565
7.0	10.0	10.0	60.0	2	MC55570
7.5	10.0	10.0	60.0	2	MC55575
8.0	10.0	11.0	61.0	2	MC55580
8.5	10.0	11.0	61.0	2	MC55585
9.0	10.0	11.0	61.0	2	MC55590
9.5	10.0	11.0	61.0	2	MC55595
10.0	10.0	13.0	63.0	2	MC55600
10.5	12.0	13.0	70.0	2	MC55605
11.0	12.0	13.0	70.0	2	MC55610

2 Cannelures Longueur Standard

- Cobalt
- Coupe centrale
- Finition brillante (revêtements TiN et TiCN disponibles)
- Conçu pour la coupe en plongée et le rainurage

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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5/8	5/8	1-5/16	3-7/16	2	EM02240
11/16	5/8	1-5/16	3-7/16	2	EM02244
3/4	5/8	1-5/16	3-7/16	2	EM02248
3/4	3/4	1-5/16	3-7/16	2	EM02348
7/8	3/4	1-1/2	3-3/4	2	EM02356
7/8	7/8	1-1/2	3-3/4	2	EM02456
1"	3/4	1-1/2	3-3/4	2	EM02364
1"	1"	1-5/8	4-1/8	2	EM02564
1-1/4	1"	1-5/8	4-1/8	2	EM02580
1-1/4	1-1/4	1-5/8	4-1/8	2	EM02680
1-1/2	1"	1-5/8	4-1/8	2	EM02596
1-1/2	1-1/4	1-5/8	4-1/8	2	EM02696

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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12.0	12.0	16.0	73.0	2	MC55620
13.0	12.0	16.0	73.0	2	MC55630
14.0	12.0	16.0	73.0	2	MC55640
15.0	12.0	16.0	73.0	2	MC55650
16.0	16.0	19.0	79.0	2	MC55660
18.0	16.0	19.0	79.0	2	MC55680
20.0	20.0	22.0	88.0	2	MC55700
22.0	20.0	22.0	88.0	2	MC55720
24.0	25.0	26.0	102.0	2	MC55740
25.0	25.0	26.0	102.0	2	MC55750
26.0	25.0	26.0	102.0	2	MC55760
28.0	25.0	26.0	102.0	2	MC55780
30.0	25.0	26.0	102.0	2	MC55830
32.0	32.0	32.0	112.0	2	MC55932
34.0	32.0	32.0	112.0	2	MC55934
36.0	32.0	32.0	112.0	2	MC55936
38.0	32.0	38.0	120.0	2	MC55938
40.0	32.0	38.0	120.0	2	MC55940
45.0	32.0	38.0	120.0	2	MC55945
50.0	32.0	45.0	137.0	2	MC55950



Cobalt Weldon Shank - EM01

2 Flute Standard Length - Keyway Tolerance

- Cobalt
- Center Cutting
- Bright Finish (TiN and TiCN coating available)
- Keyway tolerance end mills have the same design as regular 2 flute but are held to a mill diameter tolerance of $+.0000 - .0015''$.
- This style is recommended for cutting keyways which must be held close to nominal size

2 Cannelures Longueur Standard - Fraises A Rainurer

- Cobalt
- Coupe centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- Les fraises en bout de tolérance de rainure de clavette ont la même conception que les flûtes à 2 dents régulières mais sont maintenues sur une fraise tolérance de diamètre de $+.0000 - .0015''$.
- Ce style est recommandé pour couper des rainures de clavette qui doivent être maintenues près de la taille nominale

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/8	3/8	3/8	2-5/16	2	EM01008
5/32	3/8	7/16	2-5/16	2	EM01010
3/16	3/8	7/16	2-5/16	2	EM01012
7/32	3/8	1/2	2-5/16	2	EM01014
1/4	3/8	1/2	2-5/16	2	EM01016
9/32	3/8	9/16	2-5/16	2	EM01018
5/16	3/8	9/16	2-5/16	2	EM01020
11/32	3/8	9/16	2-5/16	2	EM01022
3/8	3/8	9/16	2-5/16	2	EM01024
13/32	3/8	13/16	2-1/2	2	EM01026
7/16	3/8	13/16	2-1/2	2	EM01028
15/32	3/8	13/16	2-1/2	2	EM01030
1/2	1/2	1"	3"	2	EM01032
9/16	1/2	1-1/8	3-1/8	2	EM01036
5/8	5/8	1-5/16	3-7/16	2	EM01040
11/16	5/8	1-5/16	3-7/16	2	EM01044
3/4	3/4	1-5/16	3-7/16	2	EM01048
13/16	5/8	1-1/2	3-5/8	2	EM01052
7/8	3/4	1-1/2	3-3/4	2	EM01056
1"	1"	1-5/8	4-1/8	2	EM01100
1-1/8	1"	1-5/8	4-1/8	2	EM01108
1-1/4	1-1/4	1-5/8	4-1/8	2	EM01116
1-1/2	1-1/4	1-5/8	4-1/8	2	EM01132
1-3/4	1-1/4	1-5/8	4-1/8	2	EM01148
2"	1-1/4	1-5/8	4-1/8	2	EM01200



HSS Weldon Shank - EM15

2 Flute Standard Length High Helix

- HSS • Center Cutting
- Bright Finish (TiN and TiCN coatings available)
- High Helix geometry is ideally suited for softer non-ferrous materials such as Aluminum, Zinc, Magnesium
- This helix angle results in better chip evacuation and smoother cutting action
- Designed for plunge cutting and slotting

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
3/16	3/8	5/8	2-1/2	2	EM15012
1/4	3/8	5/8	2-1/2	2	EM15016
5/16	3/8	3/4	2-1/2	2	EM15020
3/8	3/8	3/4	2-1/2	2	EM15024
7/16	3/8	1"	2-11/16	2	EM15028
1/2	1/2	1-1/4	3-1/4	2	EM15032
5/8	5/8	1-5/8	3-3/4	2	EM15040
5/8	1/2	1-3/8	3-3/8	2	EM15240
3/4	3/4	1-5/8	3-7/8	2	EM15048
3/4	1/2	1-5/8	3-5/8	2	EM15248

2 Cannelures Longueur Standard High Helix

- HSS • Coupe centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- La géométrie High Helix est parfaitement adaptée aux matériaux non ferreux comme l'aluminium, le zinc, Magnésium
- Cet angle d'hélice permet une meilleure évacuation des copeaux et une action de coupe plus douce
- Conçu pour la coupe en plongée et le rainurage

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
7/8	7/8	1-7/8	4-1/8	2	EM15056
7/8	3/4	1-7/8	4-1/8	2	EM15256
1"	1"	2"	4-1/2	2	EM15100
1"	3/4	1-7/8	4-1/8	2	EM15300
1-1/4	1-1/4	2"	4-1/2	2	EM15116
1-1/2	1-1/4	2"	4-1/2	2	EM15132
1-3/4	1-1/4	2"	4-1/2	2	EM15148
2"	1-1/4	2"	4-1/2	2	EM15200
2"	2"	3"	6-3/4	2	EM15203
2"	2"	4"	7-3/4	2	EM15204



HSS Weldon Shank - Ball Nose EM54

2 Flute Standard Length - Ball Nose

- HSS • Center Cutting
- Bright Finish (TiN and TiCN coatings available)
- Used for milling contours, radius bottom slots and die cavities
- 2 Flute End mills provide increased chip capacity for higher feed rates

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/8	3/8	3/8	2-5/16	2	EM54008
3/16	3/8	1/2	2-3/8	2	EM54012
1/4	3/8	5/8	2-7/16	2	EM54016
5/16	3/8	3/4	2-1/2	2	EM54020
3/8	3/8	3/4	2-1/2	2	EM54024
7/16	1/2	1"	3"	2	EM54128
1/2	1/2	1"	3"	2	EM54132
5/8	5/8	1-3/8	3-1/2	2	EM54240

2 Cannelures Longueur Standard - Bout Spherique

- HSS • Coupe centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- Utilisé pour fraiser les contours, les fentes inférieures de rayon et les cavités de matrice
- 2 fraises à flûte offrent une capacité de copeaux accrue pour des taux d'alimentation plus élevés

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
3/4	3/4	1-5/8	3-7/8	2	EM54348
7/8	7/8	2"	4-1/4	2	EM54456
1"	1"	2-1/4	4-3/4	2	EM54564
1-1/8	1"	2-1/4	4-3/4	2	EM54572
1-1/4	1-1/4	2-1/2	5"	2	EM54680
1-1/2	1-1/4	2-1/2	5"	2	EM54696



Cobalt Weldon Shank - Ball Nose - MC59

2 Flute Standard Length - Ball Nose Metric

- Cobalt • Center Cutting
- Bright Finish (TiN and TiCN coatings available)
- Used for milling contours, radius bottom slots and die cavities
- 2 Flute End mills provide increased chip capacity for higher feed rates

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
2.0	6.0	4.0	48.0	2	MC59502
3.0	6.0	5.0	49.0	2	MC59503
4.0	6.0	7.0	51.0	2	MC59504
5.0	6.0	8.0	52.0	2	MC59505
6.0	6.0	8.0	52.0	2	MC59506
8.0	10.0	11.0	61.0	2	MC59508

2 Cannelures Longueur Standard - Bout Spherique - Metrique

- Cobalt • Coupe centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- Utilisé pour fraiser les contours, les fentes inférieures de rayon et les cavités de matrice
- 2 fraises à flûte offrent une capacité de copeaux accrue pour des taux d'alimentation plus élevés

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
10.0	12.0	13.0	63.0	2	MC59510
12.0	12.0	16.0	73.0	2	MC59512
14.0	16.0	16.0	73.0	2	MC59514
16.0	16.0	19.0	79.0	2	MC59516
18.0	16.0	19.0	79.0	2	MC59518
20.0	20.0	22.0	88.0	2	MC59520



HSS Weldon Shank Ball Nose - EM18

2 Flute Standard Length Ball Nose High Helix

- HSS • Center Cutting
- Bright Finish (TiN and TiCN coatings available)
- High Helix geometry is ideally suited for softer non-ferrous materials such as Aluminum, Zinc, Magnesium
- This helix angle results in better chip evacuation and smoother cutting action
- Used for milling contours, radius bottom slots and die cavities

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
3/16	3/8	5/8	2-1/2	2	EM18012
1/4	3/8	5/8	2-1/2	2	EM18016
5/16	3/8	3/4	2-1/2	2	EM18020
3/8	3/8	3/4	2-1/2	2	EM18024
7/16	3/8	1"	2-11/16	2	EM18028
1/2	1/2	1-1/4	3-1/4	2	EM18032
5/8	5/8	1-5/8	3-3/4	2	EM18040
5/8	1/2	1-3/8	3-3/8	2	EM18240
3/4	3/4	1-5/8	3-7/8	2	EM18048
3/4	1/2	1-5/8	3-5/8	2	EM18248

2 Cannelures Longueur Standard Bout Spherique High Helix

- HSS • Coupe centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- La géométrie High Helix est parfaitement adaptée aux matériaux non ferreux comme l'aluminium, le zinc, Magnésium
- Cet angle d'hélice permet une meilleure évacuation des copeaux et une action de coupe plus douce
- Conçu pour la coupe en plongée et le rainurage

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
7/8	7/8	1-7/8	4-1/8	2	EM18056
7/8	3/4	1-7/8	4-1/8	2	EM18256
1"	1"	2"	4-1/2	2	EM18100
1"	3/4	1-7/8	4-1/8	2	EM18300
1-1/4	1-1/4	2"	4-1/2	2	EM18116
1-1/2	1-1/4	2"	4-1/2	2	EM18132
1-3/4	1-1/4	2"	4-1/2	2	EM18148
2"	1-1/4	2"	4-1/2	2	EM18200



HSS Weldon Shank - EM52

2 Flute Long Series

- HSS
- Center Cutting
- Longer Overall Length / Length of Cut
- Bright Finish (TiN and TiCN coatings available)
- Designed for plunge cutting and slotting
- 2 Flute End mills provide increased chip capacity for higher feed rates

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/4	3/8	1-1/4	3-1/16	2	EM52016
5/16	3/8	1-3/8	3-1/8	2	EM52020
3/8	3/8	1-1/2	3-1/4	2	EM52024
1/2	1/2	2"	4"	2	EM52132
5/8	5/8	2"	4-1/8	2	EM52240
3/4	3/4	2-1/4	4-1/2	2	EM52348
7/8	7/8	2-1/2	4-3/4	2	EM52456
1"	1"	3"	5-1/2	2	EM52564

2 Cannelures Serie Longue

- HSS
- Coupe centrale
- Coupe longue
- Finition brillante (revêtement TiN et TiCN disponible)
- Conçu pour la coupe en plongée et le rainurage
- 2 fraises à flûte offrent une capacité de copeaux accrue pour des taux d'alimentation plus élevés

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1-1/8	1"	3"	5-1/2	2	EM52572
1-1/4	1-1/4	3"	5-1/2	2	EM52680
1-1/2	1-1/4	3"	5-1/2	2	EM52696
1-3/4	1-1/4	3"	5-1/2	2	EM52712
2"	1-1/4	3"	5-1/2	2	EM72728



Cobalt Weldon Shank - EM03

2 Flute Long Series

- Cobalt
- Center Cutting
- Longer Overall Length / Length of Cut
- Bright Finish (TiN and TiCN coatings available)
- Designed for plunge cutting and slotting
- 2 Flute End mills provide increased chip capacity for higher feed rates

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/4	3/8	1-1/4	3-1/16	2	EM03016
5/16	3/8	1-3/8	3-1/8	2	EM03020
3/8	3/8	1-1/2	3-1/4	2	EM03024
1/2	1/2	2"	4"	2	EM03132
5/8	5/8	2"	4-1/8	2	EM03240
3/4	3/4	2-1/4	4-1/2	2	EM03348

2 Cannelures Serie Longue

- Cobalt
- Coupe centrale
- Coupe longue
- Finition brillante (revêtement TiN et TiCN disponible)
- Conçu pour la coupe en plongée et le rainurage
- 2 fraises à flûte offrent une capacité de copeaux accrue pour des taux d'alimentation plus élevés

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
7/8	7/8	2-1/2	4-3/4	2	EM03456
1"	1"	3"	5-1/2	2	EM03564
1-1/4	1-1/4	3"	5-1/2	2	EM03680
1-1/2	1-1/4	3"	5-1/2	2	EM03696



Cobalt Weldon Shank - MC58

2 Flute Long Series - Metric

- Cobalt • Center Cutting
- Longer Overall Length / Length of Cut
- Bright Finish (TiN and TiCN coatings available)
- Designed for plunge cutting and slotting
- 2 Flute End mills provide increased chip capacity for higher feed rates

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
2.0	6.0	7.0	54.0	2	MC58520
3.0	6.0	8.0	56.0	2	MC58530
4.0	6.0	11.0	63.0	2	MC58540
5.0	6.0	13.0	68.0	2	MC58550
6.0	6.0	13.0	68.0	2	MC58560
7.0	10.0	16.0	80.0	2	MC58570
8.0	10.0	19.0	88.0	2	MC58580
9.0	10.0	19.0	88.0	2	MC58590

2 Cannelures Serie Longue - Métrique

- Cobalt • Coupe centrale
- Coupe longue
- Finition brillante (revêtement TiN et TiCN disponible)
- Conçu pour la coupe en plongée et le rainurage
- 2 fraises à flûte offrent une capacité de copeaux accrue pour des taux d'alimentation plus élevés

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
10.0	10.0	22.0	95.0	2	MC58600
12.0	12.0	26.0	110.0	2	MC58620
14.0	12.0	26.0	110.0	2	MC58640
16.0	16.0	32.0	123.0	2	MC58660
18.0	16.0	32.0	123.0	2	MC58680
20.0	20.0	38.0	141.0	2	MC58700



HSS Weldon Shank - EM16

2 Flute Long Series High Helix

- HSS • Center Cutting
- Longer Overall Length / Length of Cut
- Bright Finish (TiN and TiCN coatings available)
- High Helix geometry is ideally suited for softer non-ferrous materials such as Aluminum, Zinc, Magnesium
- This helix angle results in better chip evacuation and smoother cutting action
- Designed for plunge cutting and slotting

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/4	3/8	1-1/4	3-1/8	2	EM16016
5/16	3/8	1-3/8	3-1/8	2	EM16020
3/8	3/8	1-1/2	3-1/4	2	EM16024
7/16	1/2	1-3/4	3-3/4	2	EM16028
1/2	1/2	2"	4"	2	EM16032
5/8	5/8	2-1/2	4-5/8	2	EM16040
3/4	3/4	3"	5-1/4	2	EM16048
7/8	7/8	3-1/2	5-3/4	2	EM16056
1"	1"	4"	6-1/2	2	EM16100
1"	1"	3"	5-1/2	2	EM16300

2 Cannelures Serie Longue High Helix

- HSS • Coupe centrale
- Coupe longue
- Finition brillante (revêtement TiN et TiCN disponible)
- La géométrie High Helix est parfaitement adaptée aux matériaux non ferreux comme l'aluminium, le zinc, Magnésium
- Cet angle d'hélice permet une meilleure évacuation des copeaux et une action de coupe plus douce
- Conçu pour la coupe en plongée et le rainurage

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1-1/4	1-1/4	4"	6-1/2	2	EM16116
1-1/4	1-1/4	3"	5-1/2	2	EM16316
1-1/2	1-1/4	4"	6-1/2	2	EM16132
1-1/2	1-1/4	3"	5-1/2	2	EM16332
1-3/4	1-1/4	4"	6-1/2	2	EM16148
1-3/4	1-1/4	3"	5-1/2	2	EM16348
2"	1-1/4	3"	5-1/2	2	EM16203
2"	1-1/4	4"	6-1/2	2	EM16204
2"	2"	6"	9-3/4	2	EM16206
2"s	2"	8"	11-3/4	2	EM16208



Cobalt Weldon Shank - Ball Nose - MC59

2 Flute Long Series - Ball Nose

- Cobalt • Center Cutting
- Longer Overall Length / Length of Cut
- Bright Finish (TiN and TiCN coatings available)
- Used for milling contours, radius bottom slots and die cavities
- 2 Flute End mills provide increased chip capacity for higher feed rates

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
3.0	6.0	8.0	56.0	2	MC59603
4.0	6.0	11.0	63.0	2	MC59604
5.0	6.0	13.0	68.0	2	MC59605
6.0	6.0	13.0	68.0	2	MC59606
8.0	10.0	19.0	88.0	2	MC59608
10.0	10.0	22.0	95.0	2	MC59610
12.0	12.0	26.0	110.0	2	MC59612
14.0	12.0	26.0	110.0	2	MC59614

2 Cannelures Serie Longue - Bout Spherique

- Cobalt • Coupe centrale
- Coupe longue
- Finition brillante (revêtement TiN et TiCN disponible)
- Utilisé pour fraiser les contours, les fentes de rayon et les matrices
- 2 fraises à flûte offrent une capacité de copeaux accrue pour des taux d'alimentation plus élevés

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
16.0	16.0	32.0	123.0	2	MC59616
18.0	16.0	32.0	123.0	2	MC59618
20.0	20.0	38.0	141.0	2	MC59620
22.0	20.0	38.0	104.0	2	MC59622
25.0	25.0	45.0	121.0	2	MC59625
28.0	25.0	45.0	121.0	2	MC59628
30.0	25.0	45.0	121.0	2	MC59630



HSS Weldon Shank - Ball Nose - EM19

2 Flute Long Series Ball Nose High Helix

- HSS • Center Cutting
- Longer Overall Length / Length of Cut
- Bright Finish (TiN and TiCN coatings available)
- High Helix geometry is ideally suited for softer non-ferrous materials such as Aluminum, Zinc, Magnesium
- This helix angle results in better chip evacuation and smoother cutting action
- Used for milling contours, radius bottom slots and die cavities

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/4	3/8	1-1/4	3-1/8	2	EM19016
5/16	3/8	1-3/8	3-1/8	2	EM19020
3/8	3/8	1-1/2	3-1/4	2	EM19024
7/16	1/2	1-3/4	3-3/4	2	EM19028
1/2	1/2	2"	4"	2	EM19032
5/8	5/8	2-1/2	4-5/8	2	EM19040

2 Cannelures Serie Longue Bout Spherique High Helix

- HSS • Coupe centrale
- Coupe longue
- Finition brillante (revêtement TiN et TiCN disponible)
- La géométrie High Helix est parfaitement adaptée aux matériaux non ferreux comme l'aluminium, le zinc, Magnésium
- Cet angle d'hélice permet une meilleure évacuation des copeaux et une action de coupe plus douce
- Utilisé pour fraiser les contours, les fentes inférieures de rayon et les cavités de matrice taux d'alimentation plus élevés

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
3/4	3/4	3"	5-1/4	2	EM19048
7/8	7/8	3-1/2	5-3/4	2	EM19056
1"	1"	4"	6-1/2	2	EM19100
1-1/4	1-1/4	4"	6-1/2	2	EM19116
1-1/2	1-1/4	4"	6-1/2	2	EM19132
1-3/4	1-1/4	4"	6-1/2	2	EM19148
2"	1-1/4	4"	6-1/2	2	EM19204



HSS Weldon Shank - EM17

2 Flute Extra Long Series High Helix

- HSS • Center Cutting
- Longest Overall Length / Length of Cut
- Bright Finish (TiN and TiCN coatings available)
- High Helix geometry is ideally suited for softer non-ferrous materials such as Aluminum, Zinc, Magnesium
- This helix angle results in better chip evacuation and smoother cutting action
- Designed for plunge cutting and slotting

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/4	3/8	1-3/4	3-9/16	2	EM17016
5/16	3/8	2"	3-3/4	2	EM17020
3/8	3/8	2-1/2	4-1/4	2	EM17024
7/16	1/2	2-3/4	4-3/4	2	EM17028
1/2	1/2	3"	5"	2	EM17032
5/8	5/8	4"	6-1/8	2	EM17040

2 Cannelures Serie Extra Longue High Helix

- HSS • Coupe centrale
- Coupe longue
- Finition brillante (revêtement TiN et TiCN disponible)
- La géométrie High Helix est parfaitement adaptée aux matériaux non ferreux comme l'aluminium, le zinc, Magnésium
- Cet angle d'hélice permet une meilleure évacuation des copeaux et une action de coupe plus douce
- Conçu pour la coupe en plongée et le rainurage

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
3/4	3/4	4"	6-1/4	2	EM17048
7/8	7/8	5"	7-1/4	2	EM17056
1"	1"	6"	8-1/2	2	EM17100
1-1/4	1-1/4	6"	8-1/2	2	EM17116
1-1/2	1-1/4	6"	8-1/2	2	EM17332
1-1/2	1-1/4	8"	10-1/2	2	EM17132



HSS Weldon Shank - EM20

2 Flute Extra Long Series Ball Nose High Helix

- HSS • Center Cutting
- Longest Overall Length / Length of Cut
- Bright Finish (TiN and TiCN coatings available)
- High Helix geometry is ideally suited for softer non-ferrous materials such as Aluminum, Zinc, Magnesium
- This helix angle results in better chip evacuation and smoother cutting action
- Used for milling contours, radius bottom slots and die cavities

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/4	3/8	1-3/4	3-9/16	2	EM20016
5/16	3/8	2"	3-3/4	2	EM20020
3/8	3/8	2-1/2	4-1/4	2	EM20024
7/16	1/2	2-3/4	4-3/4	2	EM20028
1/2	1/2	3"	5"	2	EM20032
5/8	5/8	4"	6-1/8	2	EM20040

2 Cannelures Serie Extra Longue Bout Spherique High Helix

- HSS • Coupe centrale
- Coupe longue
- Finition brillante (revêtement TiN et TiCN disponible)
- La géométrie High Helix est parfaitement adaptée aux matériaux non ferreux comme l'aluminium, le zinc, Magnésium
- Cet angle d'hélice permet une meilleure évacuation des copeaux et une action de coupe plus douce
- Utilisé pour fraiser les contours, les fentes inférieures de rayon et les cavités de matrice

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
3/4	3/4	4"	6-1/4	2	EM20048
7/8	7/8	5"	7-1/4	2	EM20056
1"	1"	6"	8-1/2	2	EM20100
1-1/4	1-1/4	6"	8-1/2	2	EM20116
1-1/2	1-1/4	6"	8-1/2	2	EM20332
1-1/2	1-1/4	8"	10-1/2	2	EM20132



FC3 Cutters - CM60

3 Flute FC3 Multi Purpose Cutters

- HSS
- Center Cutting
- Available in Short, Long, Ball Nose, & with Chipbreaker Form
- Bright finish (TiN and TiCN coatings available)
- Designed with radial relief ground cutting edges, the FC3 is the answer to small diameter milling problems

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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SHORT-COURTE

1/16	1/4	3/32	31/32	3	CM60004
3/32	1/4	5/32	1-1/64	3	CM60006
1/8	1/4	3/16	1-1/32	3	CM60008
5/32	1/4	1/4	1-9/32	3	CM60010
3/16	1/4	9/32	1-11/32	3	CM60012
7/32	1/4	5/16	1-13/32	3	CM60014
1/4	1/4	3/8	1-13/32	3	CM60016

LONG-LONGUE

1/16	1/4	5/32	1-3/32	3	CM60204
5/64	1/4	7/32	1-3/16	3	CM60205
3/32	1/4	1/4	1-1/4	3	CM60206
7/64	1/4	9/32	1-9/32	3	CM60207
1/8	1/4	5/16	1-11/32	3	CM60208
9/64	1/4	11/32	1-7/16	3	CM60209
5/32	1/4	3/8	1-17/32	3	CM60210
11/64	1/4	13/32	1-19/32	3	CM60211
3/16	1/4	7/16	1-21/32	3	CM60212
13/64	1/4	15/32	1-11/16	3	CM60213
7/32	1/4	1/2	1-3/4	3	CM60214
15/64	1/4	9/16	1-13/16	3	CM60215
1/4	1/4	5/8	1-3/4	3	CM60216

3 Cannelures Fraises Universelles FC3

- HSS
- Coupe centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- Disponible en version courte, longue, à nez sphérique et avec brise-copeaux
- Conçu avec des bords de coupe au sol à relief radial, le FC3 est la réponse aux problèmes de fraisage de petit diamètre

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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BALL END-BOUT SPHERIQUE

1/16	1/4	1/8	1-1/4	3	CM60404
3/32	1/4	3/16	1-3/8	3	CM60406
1/8	1/4	5/16	1-11/32	3	CM60408
5/32	1/4	3/8	1-17/32	3	CM60410
3/16	1/4	7/16	1-21/32	3	CM60412
7/32	1/4	1/2	1-3/4	3	CM60414
1/4	1/4	5/8	1-3/4	3	CM60416

WITH CHIPBREAKER FORM-FORME BRISE COPEAUX

1/8	1/4	5/16	1-11/32	3	CM60508
9/64	1/4	11/32	1-7/16	3	CM60509
5/32	1/4	3/8	1-17/32	3	CM60510
11/64	1/4	13/32	1-19/32	3	CM60511
3/16	1/4	7/16	1-21/32	3	CM60512
13/64	1/4	15/32	1-11/16	3	CM60513
7/32	1/4	1/2	1-3/4	3	CM60514
15/64	1/4	9/16	1-13/16	3	CM60515
1/4	1/4	5/8	1-3/4	3	CM60516



FC3 Cutters - CM61

3 Flute FC3 Multi Purpose Cutters - Metric

- HSS
- Center Cutting
- Available in Short, Long, Ball Nose, & with Chipbreaker Form
- Bright finish (TiN and TiCN coatings available)
- Designed with radial relief ground cutting edges, the FC3 is the answer to small diameter milling problems

3 Cannelures Fraises Universelles FC3 Metrique

- HSS
- Coupe centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- Disponible en version courte, longue, à nez sphérique et avec brise-copeaux
- Conçu avec des bords de coupe au sol à relief radial, le FC3 est la réponse aux problèmes de fraisage de petit diamètre

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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SHORT-COURTE

1.0	6.0	2.0	24.5	2	CM61010
1.5	6.0	2.5	24.5	3	CM61015
2.0	6.0	3.0	25.5	3	CM61020
2.5	6.0	4.0	26.0	3	CM61025
2.8	6.0	4.5	28.0	3	CM61028
3.0	6.0	4.5	28.0	3	CM61030
3.5	6.0	5.5	30.0	3	CM61035
3.8	6.0	6.5	32.5	3	CM61038
4.0	6.0	6.5	32.5	3	CM61040
4.5	6.0	7.5	36.0	3	CM61045
4.8	6.0	7.5	36.0	3	CM61048
5.0	6.0	7.5	36.0	3	CM61050
5.5	6.0	7.5	36.0	3	CM61055
5.8	6.0	9.5	36.0	3	CM61057
6.0	6.0	9.5	36.0	3	CM61060
6.0	10.0	10.0	43.5	3	CM61660
7.0	10.0	10.5	46.0	3	CM61670
8.0	10.0	11.0	47.5	3	CM61680
9.0	10.0	13.0	51.0	3	CM61690
10.0	10.0	13.0	51.5	3	CM61700

BALL END-BOUT SPHERIQUE

2.0	6.0	3.0	31.5	2	CM61420
2.5	6.0	4.5	35.0	2	CM61425
3.0	6.0	7.5	34.0	3	CM61430
4.0	6.0	9.5	39.0	3	CM61440
5.0	6.0	12.5	44.5	3	CM61450
6.0	6.0	16.0	44.5	3	CM61460

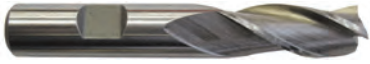
DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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LONG-LONGUE

1.5	6.0	4.0	28.0	3	CM61215
2.0	6.0	4.5	29.0	3	CM61220
2.5	6.0	6.5	32.0	3	CM61225
3.0	6.0	7.5	34.0	3	CM61230
3.5	6.0	8.5	36.5	3	CM61235
4.0	6.0	9.5	39.0	3	CM61240
4.5	6.0	11.0	42.0	3	CM61245
5.0	6.0	12.5	44.5	3	CM61250
5.5	6.0	14.5	46.0	3	CM61255
6.0	6.0	16.0	44.5	3	CM61260
6.0	10.0	16.0	50.0	3	CM61306
8.0	10.0	19.0	55.5	3	CM61308
10.0	10.0	22.5	61.0	3	CM61310

LONG CHIPBREAKER-BRISE-COPEAUX LONGUE

3.0	6.0	7.5	34.0	3	CM61530
3.5	6.0	8.5	36.5	3	CM61535
4.0	6.0	9.5	39.0	3	CM61540
4.5	6.0	11.0	42.0	3	CM61545
5.0	6.0	12.5	44.5	3	CM61550
5.5	6.0	14.5	46.0	3	CM61555
6.0	6.0	16.0	44.5	3	CM61560



HSS Weldon Shank - EM56

3 Flute Standard Length

- HSS • Center Cutting
- Bright finish (TiN and TiCN coatings available)
- 3 Flute end mills offer more chip clearance than four flute and better surface finish than 2 flute
- Ideally suited for easy to machine ferrous materials and non-ferrous materials such as Aluminum
- Used for slotting and plunging applications

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/8	3/8	3/8	2-5/16	3	EM56008
3/16	3/8	7/16	2-5/16	3	EM56012
1/4	3/8	1/2	2-5/16	3	EM56016
5/16	3/8	9/16	2-5/16	3	EM56020
3/8	3/8	9/16	2-5/16	3	EM56024
7/16	3/8	13/16	2-1/2	3	EM56028

3 Cannelures Longueur Standard

- HSS • Coupe centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- 3 fraises en bout de flûte offrent plus de dégagement de copeaux que quatre flûtes et une meilleure finition de surface que 2 flûtes
- Idéalement adapté aux matériaux ferreux faciles à usiner et aux matériaux non ferreux tels que l'aluminium
- Utilisé pour l'application de fente et de plongée

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/2	1/2	1"	3"	3	EM56132
9/16	1/2	1-1/8	3-1/8	3	EM56136
5/8	5/8	1-5/16	3-7/16	3	EM56240
3/4	3/4	1-5/16	3-7/16	3	EM56348
7/8	3/4	1-1/2	3-3/4	3	EM56356
1"	1"	1-5/8	4-1/8	3	EM56564



Cobalt Weldon Shank - MC60

3 Flute Standard Length - Supermill

- Cobalt • Center Cutting
- Bright finish (TiN and TiCN coatings available)
- 3 Flute end mills offer more chip clearance than four flute and better surface finish than 2 flute

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
3.0	6.0	8.0	52.0	3	MC60530
3.5	6.0	10.0	54.0	3	MC60535
4.0	6.0	11.0	55.0	3	MC60540
4.5	6.0	11.0	55.0	3	MC60545
5.0	6.0	13.0	57.0	3	MC60550
5.5	6.0	13.0	57.0	3	MC60555
6.0	6.0	13.0	57.0	3	MC60560
8.0	10.0	19.0	69.0	3	MC60580
10.0	10.0	22.0	72.0	3	MC60600
12.0	12.0	26.0	83.0	3	MC60620
14.0	12.0	26.0	83.0	3	MC60640
16.0	16.0	32.0	92.0	3	MC60660

3 Cannelures Longueur Standard Supermill

- Cobalt • Coupe centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- 3 fraises en bout de flûte offrent plus de dégagement de copeaux que quatre flûtes et une meilleure finition de surface que 2 flûtes

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
18.0	16.0	32.0	92.0	3	MC60680
20.0	20.0	38.0	104.0	3	MC60700
22.0	20.0	38.0	104.0	3	MC60720
24.0	25.0	45.0	121.0	3	MC60740
25.0	25.0	45.0	121.0	3	MC60750
26.0	25.0	45.0	121.0	3	MC60760
28.0	25.0	45.0	121.0	3	MC60780
30.0	25.0	45.0	121.0	3	MC60830
32.0	32.0	53.0	133.0	3	MC60932
40.0	32.0	63.0	143.0	3	MC60940
50.0	32.0	75.0	155.0	3	MC60950



Cobalt Weldon Shank - MC63

3 Flute Standard Length High Helix

- Cobalt
- Center Cutting
- Bright finish (TiN and TiCN coatings available)
- 3 Flute end mills offer more chip clearance than 4 flute and better surface finish than 2 flute
- High Helix geometry is ideally suited for softer non-ferrous materials such as Aluminum, Zinc, Magnesium
- This helix angle results in better chip evacuation and smoother cutting action

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
6.0	6.0	13.0	57.0	3	MC63506
8.0	10.0	19.0	69.0	3	MC63508
10.0	10.0	22.0	72.0	3	MC63510
12.0	12.0	26.0	83.0	3	MC63512

3 Cannelures Longueur Standard High Helix

- Cobalt
- Coupe centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- 3 fraises en bout de flûte offrent plus de dégagement de copeaux que quatre flûtes et une meilleure finition de surface que 2 flûtes
- La géométrie High Helix est parfaitement adaptée aux matériaux non ferreux plus doux tels que l'aluminium, le zinc, Magnésium
- Cet angle d'hélice permet une meilleure évacuation des copeaux et une action de coupe plus douce

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
16.0	16.0	32.0	92.0	3	MC63516
20.0	20.0	38.0	104.0	3	MC63520
25.0	25.0	45.0	121.0	3	MC63525



Cobalt Weldon Shank - MC61

3 Flute Long Series Supermill

- Cobalt
- Center Cutting
- Bright finish (TiN and TiCN coatings available)
- Longer Overall Length / Length of Cut
- 3 Flute end mills offer more chip clearance than four flute and better surface finish than 2 flute

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
3.0	6.0	12.0	56.0	3	MC61530
4.0	6.0	19.0	63.0	3	MC61540
5.0	6.0	24.0	68.0	3	MC61550
6.0	6.0	24.0	68.0	3	MC61560
8.0	10.0	38.0	88.0	3	MC61580
10.0	10.0	45.0	95.0	3	MC61600
12.0	12.0	53.0	110.0	3	MC61620
14.0	12.0	53.0	110.0	3	MC61640

3 Cannelures Serie Longue Supermill

- Cobalt
- Coupe centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- Longue coupe
- 3 fraises en bout de flûte offrent plus de dégagement de copeaux que quatre flûtes et une meilleure finition de surface que 2 flûtes

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
16.0	16.0	63.0	123.0	3	MC61660
18.0	16.0	63.0	123.0	3	MC61680
20.0	20.0	75.0	135.0	3	MC61700
22.0	20.0	75.0	147.0	3	MC61720
24.0	25.0	90.0	166.0	3	MC61740
25.0	25.0	90.0	166.0	3	MC61750
28.0	25.0	90.0	166.0	3	MC61780
30.0	25.0	90.0	166.0	3	MC61830



HSS Weldon Shank - EM60

Multi Flute Standard Length Non-Center Cutting

- HSS
- Non-Center Cutting
- Bright finish (TiN and TiCN coatings available)
- Multi Flute design reduces chip load per tooth, offer greater wear resistance, and improved surface finish
- Designed for profile, finishing, and open-ended slot milling

Longeur Standard Coupe Non-Centrale

- HSS
- Coupe non-centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- La conception Mutli-Flute réduit la charge de copeaux par dent, offre une plus grande résistance à l'usure et améliore finition de surface
- Conçu pour le profilage, la finition et le fraisage à fente à extrémité ouverte

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/8	3/8	3/8	2-5/16	4	EM60008
5/32	3/8	7/16	2-3/8	4	EM60010
3/16	3/8	1/2	2-3/8	4	EM60012
7/32	3/8	9/16	2-7/16	4	EM60014
1/4	3/8	5/8	2-7/16	4	EM60016
9/32	3/8	11/16	2-1/2	4	EM60018
5/16	3/8	3/4	2-1/2	4	EM60020
11/32	3/8	3/4	2-1/2	4	EM60022
3/8	3/8	3/4	2-1/2	4	EM60024
13/32	3/8	1"	2-11/16	4	EM60026
7/16	3/8	1"	2-11/16	4	EM60028
15/32	3/8	1-1/4	3-1/4	4	EM60130
1/2	1/2	1-1/4	3-1/4	4	EM60132
17/32	1/2	1-3/8	3-3/8	4	EM60134
9/16	1/2	1-3/8	3-3/8	4	EM60136
19/32	5/8	1-3/8	3-3/8	4	EM60238
5/8	5/8	1-5/8	3-3/4	4	EM60240
21/32	5/8	1-5/8	3-3/4	4	EM60242
11/16	5/8	1-5/8	3-3/4	4	EM60244
23/32	3/4	1-5/8	3-3/4	4	EM60346

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
3/4	3/4	1-5/8	3-7/8	4	EM60348
25/32	5/8	1-7/8	4-1/8	4	EM60350
13/16	5/8	1-7/8	4-1/8	4	EM60352
27/32	3/4	1-7/8	4-1/8	4	EM60354
7/8	3/4	1-7/8	4-1/8	4	EM60356
29/32	3/4	1-7/8	4-1/8	4	EM60358
15/16	3/4	1-7/8	4-1/8	4	EM60360
31/32	3/4	1-7/8	4-1/8	4	EM60362
1"	3/4	1-7/8	4-1/8	4	EM60364
1"	1"	2"	4-1/2	4	EM60564
1-1/8	3/4	2"	4-1/2	6	EM60372
1-1/8	1"	2"	4-1/2	6	EM60572
1-1/4	3/4	2"	4-1/2	6	EM60380
1-1/4	1-1/4	2"	4-1/2	6	EM60680
1-3/8	1"	2"	4-1/2	6	EM60588
1-1/2	1-1/4	2"	4-1/2	6	EM60696
1-3/4	1-1/4	2"	4-1/2	6	EM60712
2"	1-1/4	2"	4-1/2	6	EM60728



Cobalt Weldon Shank - MC53

Multi Flute Standard Length Non-Center Cutting - Metric

- Cobalt
- Non-Center Cutting
- Bright finish (TiN and TiCN coatings available)
- Multi-Flute design reduces chip load per tooth, offer greater wear resistance, and improved surface finish
- Designed for profile, finishing, and open-ended slot milling

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
3.0	6.0	8.0	52.0	4	MC53530
4.0	6.0	11.0	55.0	4	MC53540
5.0	6.0	13.0	57.0	4	MC53550
6.0	6.0	13.0	57.0	4	MC53560
7.0	10.0	16.0	66.0	4	MC53570
8.0	10.0	19.0	69.0	4	MC53580
9.0	10.0	19.0	69.0	4	MC53590
10.0	10.0	22.0	72.0	4	MC53600
11.0	12.0	22.0	79.0	4	MC53610
12.0	12.0	26.0	83.0	4	MC53620
13.0	12.0	26.0	83.0	4	MC53630
14.0	12.0	26.0	83.0	4	MC53640
15.0	12.0	26.0	83.0	4	MC53650
16.0	16.0	32.0	92.0	4	MC53660

Multiple Cannelures Longueur Standard Coupe Non-Centrale - Metrique

- Cobalt
- Coupe non-centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- La conception Multi-Flute réduit la charge de copeaux par dent, offre une plus grande résistance à l'usure et améliore finition de surface
- Conçu pour le profilage, la finition et le fraisage à fente à extrémité ouverte

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
18.0	16.0	32.0	92.0	4	MC53680
20.0	20.0	38.0	104.0	4	MC53700
22.0	20.0	38.0	104.0	6	MC53720
24.0	25.0	45.0	121.0	6	MC53740
25.0	25.0	45.0	121.0	6	MC53750
26.0	25.0	45.0	121.0	6	MC53760
28.0	25.0	45.0	121.0	6	MC53780
30.0	25.0	45.0	121.0	6	MC53830
32.0	32.0	53.0	133.0	6	MC53932
35.0	32.0	53.0	133.0	6	MC53935
40.0	32.0	63.0	145.0	8	MC53940
45.0	32.0	63.0	145.0	8	MC53945
50.0	32.0	75.0	157.0	8	MC53950



HSS Weldon Shank - EM70

4 Flute Standard Length

- HSS • Center Cutting
- Bright finish (TiN and TiCN coatings available)
- Multi-Flute design reduces chip load per tooth, offer greater wear resistance, and improved surface finish
- Designed for profile, finishing, slot milling, and plunging

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/8	3/8	3/8	2-5/16	4	EM70008
3/16	3/8	1/2	2-3/8	4	EM70012
1/4	3/8	5/8	2-1/2	4	EM70016
5/16	3/8	3/4	2-1/2	4	EM70020
3/8	3/8	3/4	2-1/2	4	EM70024
1/2	1/2	1-1/4	3-1/4	4	EM70132
5/8	5/8	1-5/8	3-3/4	4	EM70240
11/16	5/8	1-5/8	3-3/4	4	EM70244

4 Cannelures Longueur Standard

- HSS • Coupe centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- La conception Mutli-Flute réduit la charge de copeaux par dent, offre une plus grande résistance à l'usure et améliore finition de surface
- Conçu pour le profilage, la finition et le fraisage à fente à extrémité ouverte

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
3/4	3/4	1-5/8	3-7/8	4	EM70348
7/8	7/8	1-7/8	4-1/8	4	EM70456
1"	1"	2"	4-1/2	4	EM70564
1-1/8	1"	2"	4-1/2	4	EM70572
1-1/4	1-1/4	2"	4-1/2	4	EM70680
1-1/2	1-1/4	2"	4-1/2	4	EM70696



Cobalt Weldon Shank - EM04

Multi Flute Standard Length

- Cobalt • Center Cutting
- Bright finish (TiN and TiCN coatings available)
- Multi-Flute design reduces chip load per tooth, offer greater wear resistance, and improved surface finish
- Designed for profile, finishing, slot milling, and plunging

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/8	3/8	3/8	2-5/16	4	EM04008
5/32	3/8	7/16	2-5/16	4	EM04010
3/16	3/8	1/2	2-3/8	4	EM04012
7/32	3/8	5/8	2-7/16	4	EM04014
1/4	3/8	5/8	2-1/2	4	EM04016
9/32	3/8	5/8	2-1/2	4	EM04018
5/16	3/8	3/4	2-1/2	4	EM04020
3/8	3/8	3/4	2-1/2	4	EM04024
7/16	3/8	1"	2-11/16	4	EM04028
1/2	3/8	1"	2-11/16	4	EM04032
1/2	1/2	1-1/4	3-1/4	4	EM04132
9/16	1/2	1-3/8	3-3/8	4	EM04136

Multiple Cannelures Longueur Standard

- Cobalt • Coupe centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- La conception Mutli-Flute réduit la charge de copeaux par dent, offre une plus grande résistance à l'usure et améliore finition de surface
- Conçu pour le profilage, la finition et le fraisage à fente à extrémité ouverte

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
5/8	1/2	1-3/8	3-3/8	4	EM04140
5/8	5/8	1-5/8	3-3/4	4	EM04240
11/16	5/8	1-5/8	3-3/4	4	EM04244
3/4	5/8	1-5/8	3-3/4	4	EM04248
3/4	3/4	1-5/8	3-7/8	4	EM04348
7/8	3/4	1-7/8	4-1/8	4	EM04356
7/8	7/8	1-7/8	4-1/8	4	EM04456
1"	3/4	1-7/8	4-1/8	4	EM04364
1"	1"	2"	4-1/2	4	EM04564
1-1/4	1"	2"	4-1/2	6	EM04580
1-1/4	1-1/4	2"	4-1/2	6	EM04680
1-1/2	1"	2"	4-1/2	6	EM04596
1-1/2	1-1/4	2"	4-1/2	6	EM04696



HSS Weldon Shank - EM61

4 Flute Standard Length - Metric

- HSS
- Center Cutting
- Bright finish (TiN and TiCN coatings available)
- 4 Flute design reduces chip load per tooth, offer greater wear resistance, and improved surface finish
- Designed for profile, finishing, slot milling, and plunging

4 Cannelures Longueur Standard - Metrique

- HSS
- Coupe centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- La conception à 4 cannelures réduit la charge de copeaux par dent, offre une plus grande résistance à l'usure et une surface améliorée terminer
- Conçu pour le profilage, la finition et le fraisage à fente à extrémité ouverte

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
3.0	3/8	3/8	2-5/16	4	EM61530
4.0	3/8	7/16	2-3/8	4	EM61540
4.5	3/8	1/2	2-3/8	4	EM61545
5.0	3/8	5/8	2-1/2	4	EM61550
5.5	3/8	5/8	2-1/2	4	EM61555
6.0	3/8	5/8	2-1/2	4	EM61560
6.5	3/8	5/8	2-1/2	4	EM61565
7.0	3/8	5/8	2-1/2	4	EM61570
7.5	3/8	3/4	2-1/2	4	EM61575
8.0	3/8	3/4	2-1/2	4	EM61580
8.5	3/8	3/4	2-1/2	4	EM61585
9.0	3/8	3/4	2-1/2	4	EM61590
9.5	3/8	3/4	2-11/16	4	EM61595
10.0	3/8	1"	2-11/16	4	EM61600
10.5	3/8	1"	2-11/16	4	EM61605
11.0	3/8	1"	2-11/16	4	EM61610
11.5	3/8	1"	2-11/16	4	EM61615
12.0	3/8	1"	2-11/16	4	EM61620

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
12.5	1/2	1-1/4	3-1/4	4	EM61625
13.0	1/2	1-3/8	3-3/8	4	EM61630
13.5	1/2	1-3/8	3-3/8	4	EM61635
14.0	1/2	1-3/8	3-3/8	4	EM61640
14.5	1/2	1-3/8	3-3/8	4	EM61645
15.0	1/2	1-3/8	3-3/8	4	EM61650
16.0	5/8	1-5/8	3-3/4	4	EM61660
17.0	5/8	1-5/8	3-3/4	4	EM61670
18.0	3/4	1-5/8	3-7/8	4	EM61680
19.0	3/4	1-5/8	3-7/8	4	EM61690
20.0	3/4	1-7/8	4-1/8	4	EM61700
21.0	7/8	1-7/8	4-1/8	4	EM61710
22.0	7/8	1-7/8	4-1/8	4	EM61720
23.0	7/8	1-7/8	4-1/8	4	EM61730
24.0	7/8	1-7/8	4-1/8	4	EM61740
25.0	1"	2"	4-1/2	4	EM61750



Non Center Cut - Long Series EM62

Multi Flute Long Series

- HSS • Non-Center Cutting
- Bright finish (TiN and TiCN coatings available)
- Longer Overall Length / Length of Cut
- Multi-Flute design reduces chip load per tooth, offer greater wear resistance, and improved surface finish
- Designed for profile, finishing, and open-ended slot milling

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/4	3/8	1-1/4	3-1/16	4	EM62016
5/16	3/8	1-3/8	3-1/8	4	EM62020
3/8	3/8	1-1/2	3-1/4	4	EM62024
7/16	3/8	1-3/4	3-3/4	4	EM62028
1/2	1/2	2"	4"	4	EM62132
5/8	5/8	2-1/2	4-5/8	4	EM62240
3/4	3/4	3"	5-1/4	4	EM62348
7/8	7/8	3-1/2	5-3/4	4	EM62456

Multiple Cannelures Serie Longue

- HSS • Coupe non-centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- Coupe longue
- La conception Mutli-Flute réduit la charge de copeaux par dent, offre une plus grande résistance à l'usure et améliore finition de surface
- Conçu pour le profilage, la finition et le fraisage à fente à extrémité ouverte

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1"	1"	4"	6-1/2	4	EM62564
1-1/8	1"	4"	6-1/2	6	EM62572
1-1/4	1-1/4	4"	6-1/2	6	EM62680
1-1/2	1-1/4	4"	6-1/2	6	EM62696
1-3/4	1-1/4	4"	6-1/2	6	EM62712
2"	1-1/4	4"	6-1/2	6	EM62728



Non Center Cut - Long Series MC54

Multi Flute Long Series - Metric

- Cobalt • Non-Center Cutting
- Bright finish (TiN and TiCN coatings available)
- Longer Overall Length / Length of Cut
- Multi-Flute design reduces chip load per tooth, offer greater wear resistance, and improved surface finish
- Designed for profile, finishing, and open-ended slot milling

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
3.0	6.0	12.0	56.0	4	MC54530
4.0	6.0	19.0	63.0	4	MC54540
5.0	6.0	24.0	68.0	4	MC54550
6.0	6.0	24.0	68.0	4	MC54560
7.0	10.0	30.0	80.0	4	MC54570
8.0	10.0	38.0	88.0	4	MC54580
9.0	10.0	38.0	88.0	4	MC54590
10.0	10.0	45.0	95.0	4	MC54600
11.0	12.0	45.0	102.0	4	MC54610
12.0	12.0	53.0	110.0	4	MC54620
13.0	12.0	53.0	110.0	4	MC54630
14.0	12.0	53.0	110.0	4	MC54640

Multiple Cannelures Serie Longue - Metrique

- Cobalt • Coupe non-centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- Coupe longue
- La conception Mutli-Flute réduit la charge de copeaux par dent, offre une plus grande résistance à l'usure et améliore finition de surface
- Conçu pour le profilage, la finition et le fraisage à fente à extrémité ouverte

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
15.0	12.0	53.0	110.0	4	MC54650
16.0	16.0	63.0	123.0	4	MC54660
18.0	16.0	63.0	123.0	4	MC54680
20.0	20.0	75.0	141.0	4	MC54700
22.0	20.0	75.0	141.0	6	MC54720
24.0	25.0	90.0	166.0	6	MC54740
25.0	25.0	90.0	166.0	6	MC54750
26.0	25.0	90.0	166.0	6	MC54760
28.0	25.0	90.0	166.0	6	MC54780
30.0	25.0	90.0	166.0	6	MC54830
32.0	32.0	106.0	186.0	6	MC54932
40.0	32.0	125.0	205.0	6	MC54940



HSS Weldon Shank - EM72

4 Flute Long Series

- HSS
- Center Cutting
- Bright finish (TiN and TiCN coatings available)
- Longer Overall Length / Length of Cut
- Multi-Flute design reduces chip load per tooth, offer greater wear resistance, and improved surface finish
- Designed for profile, finishing, slot milling, and plunging

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/4	3/8	1-1/4	3-1/16	4	EM72016
5/16	3/8	1-3/8	3-1/8	4	EM72020
3/8	3/8	1-1/2	3-1/4	4	EM72024
1/2	1/2	2"	4"	4	EM72132
5/8	5/8	2-1/2	4-5/8	4	EM72240
3/4	3/4	3"	5-1/4	4	EM72348

4 Cannelures Serie Longue

- HSS
- Coupe centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- Coupe longue
- La conception Mutli-Flute réduit la charge de copeaux par dent, offre une plus grande résistance à l'usure et améliore finition de surface
- Conçu pour le profilage, la finition et le fraisage à fente à extrémité ouverte

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
7/8	7/8	3-1/2	5-3/4	4	EM72456
1"	1"	4"	6-1/2	4	EM72564
1-1/4	1-1/4	4"	6-1/2	4	EM72680
1-1/2	1-1/4	4"	6-1/2	4	EM72696



Cobalt Weldon Shank - EM05

Multi Flute Long Series

- Cobalt
- Center Cutting
- Bright finish (TiN and TiCN coatings available)
- Longer Overall Length / Length of Cut
- Multi-Flute design reduces chip load per tooth, offer greater wear resistance, and improved surface finish
- Designed for profile, finishing, slot milling, and plunging

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/4	3/8	1-1/4	3-1/16	4	EM05016
5/16	3/8	1-3/8	3-1/8	4	EM05020
3/8	3/8	1-1/2	3-1/4	4	EM05024
1/2	1/2	2"	4"	4	EM05132
5/8	5/8	2-1/2	4-5/8	4	EM05240
3/4	3/4	3"	5-1/4	4	EM05348

Multiple Cannelures Serie Longue

- Cobalt
- Coupe centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- Coupe longue
- La conception Mutli-Flute réduit la charge de copeaux par dent, offre une plus grande résistance à l'usure et améliore finition de surface
- Conçu pour le profilage, la finition et le fraisage à fente à extrémité ouverte

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
7/8	7/8	3-1/2	5-3/4	4	EM05456
1"	1"	4"	6-1/2	4	EM05564
1-1/4	1-1/4	4"	6-1/2	4	EM05680
1-1/2	1-1/4	4"	6-1/2	6	EM05696



Non Center Cut - Extra Long Series - EM64

Multi Flute Extra Long Series

- HSS
- Non-Center Cutting
- Bright finish (TiN and TiCN coatings available)
- Longest Overall Length / Length of Cut
- Multi-Flute design reduces chip load per tooth, offer greater wear resistance, and improved surface finish
- Designed for profile, finishing, and open-ended slot milling

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/4	3/8	1-3/4	3-9/16	4	EM64016
5/16	3/8	2"	3-3/4	4	EM64020
3/8	3/8	2-1/2	4-1/4	4	EM64024
1/2	1/2	3"	5"	4	EM64132
5/8	5/8	4"	6-1/8	4	EM64240
3/4	3/4	4"	6-1/4	4	EM64348
7/8	7/8	5"	7-1/4	4	EM64456
1"	1"	6"	8-1/2	4	EM64564

Multiple Cannelures Serie Extra Longue

- HSS
- Coupe non-centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- Coupe longue
- La conception Multi-Flute réduit la charge de copeaux par dent, offre une plus grande résistance à l'usure et améliore la finition de surface
- Conçu pour le profilage, la finition et le fraisage à fente à extrémité ouverte

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1-1/4	1-1/4	6"	8-1/2	6	EM64680
1-1/2	1-1/4	8"	10-1/2	6	EM64696
2"	2"	4"	7-3/4	8	EM64728
2"	2"	6"	9-3/4	8	EM64729
2"	2"	8"	11-3/4	8	EM64730
2"	2"	10"	13-3/4	8	EM64731



HSS Extra Long Series - EM74

4 Flute Extra Long Series

- HSS
- Center Cutting
- Bright finish (TiN and TiCN coatings available)
- Longest Overall Length / Length of Cut
- 4 Flute design reduces chip load per tooth, offer greater wear resistance, and improved surface finish
- Designed for profile, finishing, slot milling, and plunging

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/4	3/8	1-3/4	3-9/16	4	EM74016
5/16	3/8	2"	3-3/4	4	EM74020
3/8	3/8	2-1/2	4-1/4	4	EM74024
1/2	1/2	3"	5"	4	EM74132
5/8	5/8	4"	6-1/8	4	EM74240
3/4	3/4	4"	6-1/4	4	EM74348

4 Cannelures Serie Extra Longue

- HSS
- Coupe centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- Coupe longue
- La conception à 4 cannelures réduit la charge de copeaux par dent, offre une plus grande résistance à l'usure et améliore la finition de surface
- Conçu pour le profilage, la finition et le fraisage à fente à extrémité ouverte

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
7/8	7/8	5"	7-1/4	4	EM74456
1"	1"	6"	8-1/2	4	EM74564
1-1/4	1-1/4	6"	8-1/2	4	EM74680

Cobalt Weldon Shank Rip-R - EM10



Multi Flute Standard Length - Roughing Cutter

- Cobalt
- Non-Center Cutting
- Bright finish (TiN and TiCN coatings available)
- Truncated Knuckle Form reduces drag and friction
- Chip breaker cutting edge allows for heavier cuts and higher speeds / feeds

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
3/8	3/8	3/4	2-1/2	4	EM10024
7/16	3/8	1"	2-11/16	4	EM10028
1/2	1/2	1-1/4	3-1/4	4	EM10132
9/16	1/2	1-3/8	3-3/8	4	EM10136
5/8	5/8	1-5/8	3-3/4	4	EM10240
3/4	3/4	1-5/8	3-7/8	4	EM10348
7/8	7/8	1-7/8	4-1/8	5	EM10456
1"	1"	2"	4-1/2	5	EM10564

Multiple Cannelures Longueur Standard Roughing Cutter

- Cobalt
- Coupe non-centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- La forme tronquée des articulations réduit la traînée et la friction
- Le bord brise-copeaux permet des coupes plus lourdes et des vitesses / avances plus élevées

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1-1/4	1-1/4	2"	4-1/2	6	EM10680
1-1/2	1-1/4	2"	4-1/2	6	EM10696
1-3/4	1-1/4	2"	4-1/2	6	EM10712
2"	1-1/4	2"	4-1/2	8	EM10728
2"	2"	2"	5-3/4	8	EM10822
2"	2"	4"	7-3/4	8	EM10824

Cobalt Weldon Shank Rip-R - MC56



Multi Flute Standard Length - Roughing Cutter - Metric

- Cobalt • Center Cutting
- Bright finish (TiN and TiCN coatings available)
- Truncated Knuckle Form reduces drag and friction
- Chip breaker cutting edge allows for heavier cuts and higher speeds / feeds
- Fine pitch available in certain diameters which produces a smoother finish that often eliminates the need for a finishing cut

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE	FINE/FIN CODE
6.0	6.0	13.0	57.0	3	MC56560	-
7.0	10.0	16.0	66.0	3	MC56570	-
8.0	10.0	19.0	69.0	4	MC56580	-
9.0	10.0	19.0	69.0	4	MC56590	-
10.0	10.0	22.0	72.0	4	MC56600	MC56910
11.0	12.0	22.0	79.0	4	MC56610	-
12.0	12.0	26.0	83.0	4	MC56620	MC56912
13.0	12.0	26.0	83.0	4	MC56630	-
14.0	12.0	26.0	83.0	4	MC56640	MC56914
15.0	12.0	26.0	83.0	4	MC56650	-
16.0	16.0	32.0	92.0	4	MC56660	MC56916
18.0	16.0	32.0	92.0	4	MC56680	MC56918

Multiple Cannelures Longueur Standard Roughing Cutter - Metric

- Cobalt • Coupe centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- La forme tronquée des articulations réduit la traînée et la friction
- Le bord brise-copeaux permet des coupes plus lourdes et des vitesses / avances plus élevées
- Pitch fin disponible dans certains diamètres qui produit une finition plus lisse qui élimine souvent la nécessité d'une coupe de finition

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE	FINE/FIN CODE
20.0	20.0	38.0	104.0	4	MC56700	MC56920
22.0	25.0	38.0	110.0	4	MC56720	MC56922
25.0	25.0	45.0	121.0	5	MC56750	MC56925
28.0	25.0	45.0	121.0	5	MC56780	MC56928
30.0	25.0	45.0	121.0	5	MC56830	MC56930
32.0	32.0	53.0	133.0	5	MC56832	MC56932
35.0	32.0	53.0	133.0	6	MC56835	MC56935
40.0	32.0	63.0	143.0	6	MC56840	MC56940
45.0	32.0	63.0	143.0	7	MC56845	MC56945
50.0	32.0	75.0	155.0	7	MC56850	MC56950



Cobalt Weldon Shank Rip-R - EM11

Multi Flute Long Series - Roughing Cutter

- Cobalt • Non-Center Cutting
- Bright Finish (TiN and TiCN coatings available)
- Longer Overall Length / Length of Cut
- Truncated Knuckle Form reduces drag and friction
- Chip breaker cutting edge allows for heavier cuts and higher speeds / feeds

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/2	1/2	2"	4"	4	EM11132
5/8	5/8	2-1/2	4-5/8	4	EM11240
3/4	3/4	3"	5-1/4	4	EM11348
7/8	7/8	3-1/2	5-1/4	4	EM11456
1"	1"	3"	5-1/2	5	EM11563
1"	1"	4"	6-1/2	6	EM11564
1-1/4	1-1/4	3"	5-1/2	6	EM11683
1-1/4	1-1/4	4"	6-1/2	6	EM11684

Multiple Cannelures Serie Longue Roughing Cutter

- Cobalt, Coupe non-centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- Coupe longue
- La forme tronquée des articulations réduit la traînée et la friction
- Le bord brise-copeaux permet des coupes plus lourdes et des vitesses / avances plus élevées

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1-1/2	1-1/4	3"	5-1/2	6	EM11693
1-1/2	1-1/4	4"	6-1/2	6	EM11694
2"	2"	6"	9-3/4	8	EM11826
2"	2"	8"	11-3/4	8	EM11828
2"	2"	10"	13-3/4	8	EM11830
2"	2"	12"	15-3/4	8	EM11832



Cobalt Weldon Shank Rip-R - MC57

Multi Flute Long Series - Roughing Cutter Metric

- Cobalt • Center Cutting
- Bright Finish (TiN and TiCN coatings available)
- Longer Overall Length / Length of Cut
- Truncated Knuckle Form reduces drag and friction
- Chip breaker cutting edge allows for heavier cuts and higher speeds / feeds
- Fine pitch available in certain diameters which produces a smoother finish that often eliminates the need for a finishing cut

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE	FINE/FIN CODE
10.0	10.0	45.0	95.0	4	MC57600	MC57910
12.0	12.0	53.0	110.0	4	MC57620	MC57912
14.0	12.0	53.0	110.0	4	MC57640	MC57914
16.0	16.0	63.0	123.0	4	MC57660	MC57916
18.0	16.0	63.0	123.0	4	MC57680	MC57918
20.0	20.0	75.0	141.0	4	MC57700	MC57920
22.0	20.0	75.0	141.0	5	MC57720	MC57922
25.0	25.0	90.0	166.0	5	MC57750	MC57925

Multiple Cannelures Serie Longue Roughing Cutter - Metrique

- Cobalt • Coupe centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- Coupe longue
- La forme tronquée des articulations réduit la traînée et la friction
- Le bord brise-copeaux permet des coupes plus lourdes et des vitesses / avances plus élevées
- Pitch fin disponible dans certains diamètres qui produit une finition plus lisse qui élimine souvent la nécessité d'une coupe de finition

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE	FINE/FIN CODE
28.0	25.0	90.0	166.0	5	MC57780	-
30.0	25.0	90.0	166.0	5	MC57830	MC57930
32.0	32.0	106.0	186.0	5	MC57832	MC57932
35.0	32.0	106.0	186.0	6	MC57835	-
40.0	32.0	125.0	205.0	6	MC57840	-
45.0	32.0	125.0	205.0	7	MC57845	-
50.0	32.0	150.0	230.0	7	MC57850	-



HSS Weldon Shank - EM82

2 Flute - Double End

- HSS
- Center Cutting
- Bright finish (TiN and TiCN available)
- 2 Flute End mills provide increased chip capacity for higher feed rates
- Designed for profile, finishing, open ended slot milling, and plunging

2 Cannelures - Fraises Double

- HSS
- Coupe centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- 2 fraises à flûte offrent une capacité de copeaux accrue pour des taux d'alimentation plus élevés
- Conçu pour le profilage, la finition, le fraisage à fente à extrémité ouverte et la plongée

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/8	3/8	3/8	3-1/16	2	EM82008
9/64	3/8	7/16	3-1/8	2	EM82009
5/32	3/8	7/16	3-1/8	2	EM82010
11/64	3/8	7/16	3-1/8	2	EM82011
3/16	3/8	7/16	3-1/8	2	EM82012
13/64	3/8	1/2	3-1/8	2	EM82013
7/32	3/8	1/2	3-1/8	2	EM82014
15/64	3/8	1/2	3-1/8	2	EM82015
1/4	3/8	1/2	3-1/8	2	EM82016
17/64	3/8	9/16	3-1/8	2	EM82017
9/32	3/8	9/16	3-1/8	2	EM82018
19/64	3/8	9/16	3-1/8	2	EM82019
5/16	3/8	9/16	3-1/8	2	EM82020
21/64	3/8	9/16	3-1/8	2	EM82021
11/32	3/8	9/16	3-1/8	2	EM82022
23/64	3/8	9/16	3-1/8	2	EM82023
3/8	3/8	9/16	3-1/8	2	EM82024
25/64	1/2	13/16	3-3/4	2	EM82025
13/32	1/2	13/16	3-3/4	2	EM82026
27/64	1/2	13/16	3-3/4	2	EM82027

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
7/16	1/2	13/16	3-3/4	2	EM82028
29/64	1/2	13/16	3-3/4	2	EM82029
15/32	1/2	13/16	3-3/4	2	EM82030
31/64	1/2	13/16	3-3/4	2	EM82031
1/2	1/2	13/16	3-3/4	2	EM82032
17/32	5/8	1-1/8	4-1/2	2	EM82034
9/16	5/8	1-1/8	4-1/2	2	EM82036
19/32	5/8	1-1/8	4-1/2	2	EM82038
5/8	5/8	1-1/8	4-1/2	2	EM82040
21/32	3/4	1-5/16	5"	2	EM82042
11/16	3/4	1-5/16	5"	2	EM82044
23/32	3/4	1-5/16	5"	2	EM82046
3/4	3/4	1-5/16	5"	2	EM82048
13/16	7/8	1-9/16	5-1/2	2	EM82052
7/8	7/8	1-9/16	5-1/2	2	EM82056
15/16	1"	1-5/8	5-7/8	2	EM82060
1"	1"	1-5/8	5-7/8	2	EM82100



HSS Weldon Shank - EM83

2 Flute Double End - Ball Nose

- HSS
- Center Cutting
- Bright finish (TiN and TiCN available on request)
- 2 Flute End mills provide increased chip capacity for higher feed rates
- Used for milling contours, radius bottom slots and die cavities

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/8	3/8	3/8	3-1/16	2	EM83008
3/16	3/8	7/16	3-1/8	2	EM83012
1/4	3/8	1/2	3-1/8	2	EM83016
5/16	3/8	9/16	3-1/8	2	EM83020
3/8	3/8	9/16	3-1/8	2	EM83024
7/16	1/2	13/16	3-3/4	2	EM83028

2 Cannelures Fraises Double - A Bout Spherique

- HSS
- Coupe centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- 2 fraises à flûte offrent une capacité de copeaux accrue pour des taux d'alimentation plus élevés
- Utilisé pour fraiser les contours, les fentes inférieures de rayon et les cavités de matrice

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/2	1/2	13/16	3-3/4	2	EM83032
5/8	5/8	1-1/8	4-1/2	2	EM83040
3/4	3/4	1-5/16	5"	2	EM83048
7/8	7/8	1-9/16	5-1/2	2	EM83056
1"	1"	1-5/8	5-7/8	2	EM83100



HSS Weldon Shank - EM84

4 Flute - Double End

- HSS • Center Cutting
- Bright finish (TiN and TiCN available on request)
- 4 Flute design reduces chip load per tooth, offer greater wear resistance, and improved surface finish
- Designed for profile, finishing, slot milling, and plunging

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/8	3/8	3/8	3-1/16	4	EM84008
5/32	3/8	7/16	3-1/8	4	EM84010
3/16	3/8	1/2	3-1/4	4	EM84012
7/32	3/8	9/16	3-1/4	4	EM84014
1/4	3/8	5/8	3-3/8	4	EM84016
9/32	3/8	11/16	3-3/8	4	EM84018
5/16	3/8	3/4	3-1/2	4	EM84020
11/32	3/8	3/4	3-1/2	4	EM84022
3/8	3/8	3/4	3-1/2	4	EM84024
13/32	1/2	1"	4-1/8	4	EM84026

4 Cannelures - Fraises Double

- HSS • Coupe centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- 4 fraises à flûte offrent une capacité de copeaux accrue pour des taux d'alimentation plus élevés
- Conçu pour le profilage, la finition, le fraisage à fente à extrémité ouverte et la plongée

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
7/16	1/2	1"	4-1/8	4	EM84028
15/32	1/2	1"	4-1/8	4	EM84030
1/2	1/2	1"	4-1/8	4	EM84032
9/16	5/8	1-3/8	5"	4	EM84036
5/8	5/8	1-3/8	5"	4	EM84040
11/16	3/4	1-5/8	5-5/8	4	EM84044
3/4	3/4	1-5/8	5-5/8	4	EM84048
7/8	7/8	1-7/8	6-1/8	4	EM84056
1"	1"	1-7/8	6-3/8	4	EM84100



HSS Threaded Shank - MC05

2 Flute Standard Length

- HSS
- Center Cutting
- Bright Finish (TiN and TiCN coatings available)
- Designed for plunge cutting and slotting
- 2 Flute End mills provide increased chip capacity for higher feed rates

2 Cannelures Longueur Standard

- HSS
- Coupe centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- Conçu pour le profilage, la finition, le fraisage à fente à extrémité ouverte et la plongée
- 2 fraises à flûte offrent une capacité de copeaux accrue pour des taux d'alimentation plus élevés

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/16	1/4	3/32	1-29/32	2	MC05004
5/64	1/4	3/32	1-15/16	2	MC05005
3/32	1/4	3/16	2"	2	MC05006
7/64	1/4	1/4	2"	2	MC05007
1/8	1/4	9/32	2"	2	MC05008
9/64	1/4	3/8	2-1/16	2	MC05009
5/32	1/4	3/8	2-1/16	2	MC05010
11/64	1/4	3/8	2-1/16	2	MC05011
3/16	1/4	3/8	2-1/16	2	MC05012
13/64	1/4	7/16	2-3/16	2	MC05013
7/32	1/4	7/16	2-3/16	2	MC05014
15/64	1/4	7/16	2-7/32	2	MC05015
1/4	1/4	7/16	2-7/32	2	MC05016
17/64	3/8	7/16	2-11/32	2	MC05017
9/32	3/8	7/16	2-5/16	2	MC05018
19/64	3/8	1/2	2-5/16	2	MC05019
5/16	3/8	1/2	2-11/32	2	MC05020
21/64	3/8	9/16	2-11/32	2	MC05021
11/32	3/8	9/16	2-3/8	2	MC05022
23/64	3/8	9/16	2-3/8	2	MC05023
3/8	3/8	9/16	2-3/8	2	MC05024
13/32	3/8	5/8	2-3/8	2	MC05026
7/16	1/2	11/16	2-9/16	2	MC05028
15/32	1/2	11/16	2-9/16	2	MC05030
1/2	1/2	3/4	2-5/8	2	MC05032
17/32	1/2	7/8	2-11/16	2	MC05034
9/16	1/2	27/32	2-23/32	2	MC05036
19/32	5/8	7/8	2-27/32	2	MC05038



HSS Threaded Shank - MC05

2 Flute Standard Length - Metric

- HSS
- Center Cutting
- Bright Finish (TiN and TiCN coatings available)
- Designed for plunge cutting and slotting
- 2 Flute End mills provide increased chip capacity for higher feed rates

2 Cannelures Longueur Standard - Metrique

- HSS
- Coupe centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- Conçu pour le profilage, la finition, le fraisage à fente à extrémité ouverte et la plongée
- 2 fraises à flûte offrent une capacité de copeaux accrue pour des taux d'alimentation plus élevés

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1.5	6.0	2.5	48.5	2	MC05515
2.0	6.0	3.0	49.0	2	MC05520
2.5	6.0	4.5	51.0	2	MC05525
3.0	6.0	7.0	51.0	2	MC05530
3.5	6.0	7.5	52.5	2	MC05535
4.0	6.0	9.5	52.5	2	MC05540
4.5	6.0	9.5	52.5	2	MC05545
5.0	6.0	9.5	52.5	2	MC05550
5.5	6.0	11.0	55.5	2	MC05555
6.0	6.0	11.0	56.5	2	MC05560
6.5	10.0	11.0	58.5	2	MC05565
7.0	10.0	11.0	58.5	2	MC05570
7.5	10.0	11.0	58.5	2	MC05575
8.0	10.0	12.5	59.5	2	MC05580
8.5	10.0	14.5	60.5	2	MC05585
9.0	10.0	14.5	60.5	2	MC05590
9.5	10.0	14.5	60.5	2	MC05595
10.0	10.0	14.5	60.5	2	MC05600
10.5	12.0	17.5	65.0	2	MC05605
11.0	12.0	17.5	65.0	2	MC05610
11.5	12.0	17.5	65.0	2	MC05615
12.0	12.0	19.0	66.5	2	MC05620
12.5	12.0	19.0	66.5	2	MC05625
13.0	12.0	19.0	66.5	2	MC05630
13.5	12.0	22.0	68.5	2	MC05635
14.0	12.0	22.0	68.5	2	MC05640
14.5	16.0	22.0	72.0	2	MC05645
15.0	16.0	22.0	72.0	2	MC05650
16.0	16.0	22.0	72.0	2	MC05660
17.0	16.0	24.0	74.0	2	MC05670

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
18.0	16.0	24.0	74.0	2	MC05680
19.0	16.0	25.5	77.0	2	MC05690
20.0	16.0	25.5	77.0	2	MC05700
21.0	25.0	25.5	98.5	2	MC05710
22.0	25.0	25.5	100.0	2	MC05720
23.0	25.0	25.5	101.5	2	MC05730
24.0	25.0	25.5	103.0	2	MC05740
25.0	25.0	27.0	95.0	2	MC05750
26.0	25.0	27.0	95.0	2	MC05760
27.0	25.0	28.5	93.5	2	MC05770
28.0	25.0	30.0	95.0	2	MC05780
29.0	25.0	30.0	93.5	2	MC05790
30.0	25.0	30.0	93.5	2	MC05830
32.0	25.0	38.0	101.5	2	MC05832
32.0	32.0	35.0	117.5	2	MC05932
34.0	25.0	38.0	101.5	2	MC05834
35.0	25.0	39.5	103.0	2	MC05835
36.0	25.0	39.5	103.0	2	MC05836
38.0	25.0	43.0	106.5	2	MC05838
40.0	25.0	46.0	111.0	2	MC05840
40.0	32.0	46.0	117.5	2	MC05940
42.0	25.0	47.5	112.5	2	MC05842
42.0	32.0	47.5	117.5	2	MC05942
44.0	25.0	51.0	116.0	2	MC05844
45.0	25.0	51.0	116.0	2	MC05845
45.0	32.0	47.5	119.0	2	MC05945
50.0	25.0	54.0	117.5	2	MC05850
50.0	32.0	51.0	117.5	2	MC05950



Cobalt Threaded Shank - MC35

2 Flute Standard Length

- Cobalt
- Center Cutting
- Bright Finish (TiN and TiCN coatings available)
- Designed for plunge cutting and slotting
- 2 Flute End mills provide increased chip capacity for higher feed rates

2 Cannelures Longueur Standard

- Cobalt
- Coupe centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- Conçu pour le profilage, la finition, le fraisage à fente à extrémité ouverte et la plongée
- 2 fraises à flûte offrent une capacité de copeaux accrue pour des taux d'alimentation plus élevés

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/16	1/4	3/32	1-29/32	2	MC35004
5/64	1/4	3/32	1-15/16	2	MC35005
3/32	1/4	3/16	2"	2	MC35006
7/64	1/4	1/4	2"	2	MC35007
1/8	1/4	9/32	2"	2	MC35008
9/64	1/4	3/8	2-1/16	2	MC35009
5/32	1/4	3/8	2-1/16	2	MC35010
11/64	1/4	3/8	2-1/16	2	MC35011
3/16	1/4	3/8	2-1/16	2	MC35012
13/64	1/4	7/16	2-3/16	2	MC35013
7/32	1/4	7/16	2-3/16	2	MC35014
15/64	1/4	7/16	2-7/32	2	MC35015
1/4	1/4	7/16	2-7/32	2	MC35016
9/32	3/8	7/16	2-5/16	2	MC35018
5/16	3/8	1/2	2-11/32	2	MC35020
11/32	3/8	9/16	2-3/8	2	MC35022
3/8	3/8	9/16	2-3/8	2	MC35024
7/16	1/2	11/16	2-9/16	2	MC35028
1/2	1/2	3/4	2-5/8	2	MC35032
9/16	1/2	27/32	2-23/32	2	MC35036
5/8	5/8	7/8	2-27/32	2	MC35040
11/16	5/8	15/16	2-29/32	2	MC35044
3/4	5/8	1"	2-31/32	2	MC35048
7/8	1"	1"	3-15/16	2	MC35056
1"	1"	1-1/16	3-3/4	2	MC35100
1-1/8	1"	1-3/16	3-3/4	2	MC35108
1-1/4	1"	1-1/2	4"	2	MC35116
1-1/2	1"	1-11/16	4-3/16	2	MC35132
2"	1-1/4	2"	4-5/8	2	MC35500



Cobalt Threaded Shank - MC35

2 Flute Standard Length - Metric

- Cobalt
- Center Cutting
- Bright Finish (TiN and TiCN coatings available)
- Designed for plunge cutting and slotting
- 2 Flute End mills provide increased chip capacity for higher feed rates

2 Cannelures Standard - Metrique

- Cobalt
- Coupe centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- Conçu pour le profilage, la finition, le fraisage à fente à extrémité ouverte et la plongée
- 2 fraises à flûte offrent une capacité de copeaux accrue pour des taux d'alimentation plus élevés

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1.5	6.0	2.5	48.5	2	MC35515
2.0	6.0	3.0	49.0	2	MC35520
2.5	6.0	4.5	51.0	2	MC35525
3.0	6.0	7.0	51.0	2	MC35530
3.5	6.0	7.5	52.5	2	MC35535
4.0	6.0	9.5	52.5	2	MC35540
4.5	6.0	9.5	52.5	2	MC35545
5.0	6.0	9.5	52.5	2	MC35550
5.5	6.0	11.0	55.5	2	MC35555
6.0	6.0	11.0	56.5	2	MC35560
6.5	10.0	11.0	58.5	2	MC35565
7.0	10.0	11.0	58.5	2	MC35570
7.5	10.0	11.0	58.5	2	MC35575
8.0	10.0	12.5	59.5	2	MC35580
8.5	10.0	14.5	60.5	2	MC35585
9.0	10.0	14.5	60.5	2	MC35590
10.0	10.0	14.5	60.5	2	MC35600
11.0	12.0	17.5	65.0	2	MC35610
12.0	12.0	19.0	66.5	2	MC35620
13.0	12.0	19.0	66.5	2	MC35630
14.0	12.0	22.0	68.5	2	MC35640
15.0	16.0	22.0	72.0	2	MC35650

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
16.0	16.0	22.0	72.0	2	MC35660
17.0	16.0	24.0	74.0	2	MC35670
18.0	16.0	24.0	74.0	2	MC35680
19.0	16.0	25.5	77.0	2	MC35690
20.0	16.0	25.5	77.0	2	MC35700
22.0	25.0	25.5	100.0	2	MC35720
24.0	25.0	25.5	103.0	2	MC35740
25.0	25.0	27.0	95.0	2	MC35750
26.0	25.0	27.0	95.0	2	MC35760
28.0	25.0	30.0	95.0	2	MC35780
30.0	25.0	30.0	93.5	2	MC35830
32.0	25.0	38.0	101.5	2	MC35832
32.0	32.0	35.0	117.5	2	MC35932
35.0	25.0	39.5	103.0	2	MC35835
35.0	32.0	39.5	111.0	2	MC35935
38.0	32.0	43.0	114.5	2	MC35938
40.0	25.0	46.0	111.0	2	MC35840
40.0	32.0	46.0	117.5	2	MC35940
45.0	32.0	47.5	119.0	2	MC35945
50.0	32.0	51.0	117.5	2	MC35950



HSS Threaded Shank - MC06

2 Flute Long Series

- HSS
- Center Cutting
- Longer Overall Length / Length of Cut
- Bright Finish (TiN and TiCN coatings available)
- Designed for plunge cutting and slotting
- 2 Flute End mills provide increased chip capacity for higher feed rates

2 Cannelures Serie Longue

- HSS
- Coupe centrale
- Coupe longue
- Finition brillante (revêtement TiN et TiCN disponible)
- Conçu pour le profilage, la finition, le fraisage à fente à extrémité ouverte et la plongée
- 2 fraises à flûte offrent une capacité de copeaux accrue pour des taux d'alimentation plus élevés

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
1/16	1/4	3/16	2"	2	MC06004
3/32	1/4	1/4	2-1/8	2	MC06006
1/8	1/4	7/16	2-1/2	2	MC06008
5/32	1/4	1/2	2-3/4	2	MC06010
3/16	1/4	1/2	2-3/4	2	MC06012
7/32	1/4	5/8	3"	2	MC06014
1/4	1/4	5/8	3"	2	MC06016
9/32	3/8	5/8	3"	2	MC06018
5/16	3/8	3/4	3-1/8	2	MC06020
11/32	3/8	7/8	3-1/4	2	MC06022
3/8	3/8	7/8	3-1/4	2	MC06024
13/32	3/8	7/8	3-1/2	2	MC06026
7/16	1/2	7/8	3-1/2	2	MC06028
15/32	1/2	1"	3-3/4	2	MC06030
1/2	1/2	1"	3-3/4	2	MC06032
17/32	1/2	1-1/8	4"	2	MC06034
9/16	1/2	1-1/8	4"	2	MC06036
5/8	5/8	1-1/4	4-1/4	2	MC06040
11/16	5/8	1-3/8	4-1/2	2	MC06044
3/4	5/8	1-1/2	4-3/4	2	MC06048
13/16	1"	1-1/2	5-1/2	2	MC06052
7/8	1"	1-5/8	5-1/2	2	MC06056
1"	1"	1-3/4	6-1/4	2	MC06100
1-1/8	1"	1-7/8	6-1/4	2	MC06108
1-1/4	1"	2"	6-1/4	2	MC06116
1-3/8	1"	2-1/8	6-1/4	2	MC06124
1-1/2	1"	2-1/2	6-1/4	2	MC06132
1-3/4	1"	2-1/2	6-1/4	2	MC06148
2"	1"	2-1/2	6-1/4	2	MC06200



HSS Threaded Shank - MC06

2 Flute Long Series - Metric

- HSS
- Center Cutting
- Longer Overall Length / Length of Cut
- Bright Finish (TiN and TiCN coatings available)
- Designed for plunge cutting and slotting
- 2 Flute End mills provide increased chip capacity for higher feed rates

2 Cannelures Serie Longue - Metrique

- HSS
- Coupe centrale
- Coupe longue
- Finition brillante (revêtement TiN et TiCN disponible)
- Conçu pour le profilage, la finition, le fraisage à fente à extrémité ouverte et la plongée
- 2 fraises à flûte offrent une capacité de copeaux accrue pour des taux d'alimentation plus élevés

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
2.0	6.0	4.0	51.0	2	MC06520
2.5	6.0	6.5	54.0	2	MC06525
3.0	6.0	11.0	60.5	2	MC06530
3.5	6.0	12.5	66.5	2	MC06535
4.0	6.0	12.5	66.5	2	MC06540
4.5	6.0	12.5	66.5	2	MC06545
5.0	6.0	12.5	70.0	2	MC06550
5.5	6.0	16.0	76.0	2	MC06555
6.0	6.0	16.0	76.0	2	MC06560
6.5	10.0	16.0	76.0	2	MC06565
7.0	10.0	16.0	76.0	2	MC06570
7.5	10.0	16.0	76.0	2	MC06575
8.0	10.0	19.0	79.5	2	MC06580
8.5	10.0	22.0	82.5	2	MC06585
9.0	10.0	22.0	82.5	2	MC06590
10.0	10.0	22.0	82.5	2	MC06600
11.0	12.0	22.0	89.0	2	MC06610
12.0	12.0	25.5	95.0	2	MC06620
13.0	12.0	25.5	95.0	2	MC06630
14.0	12.0	28.5	101.5	2	MC06640
15.0	16.0	31.5	108.0	2	MC06650
16.0	16.0	31.5	108.0	2	MC06660

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
17.0	16.0	35.0	114.5	2	MC06670
18.0	16.0	35.0	114.5	2	MC06680
19.0	16.0	38.0	120.5	2	MC06690
20.0	16.0	38.0	120.5	2	MC06700
22.0	25.0	41.5	140.0	2	MC06720
24.0	25.0	41.5	152.5	2	MC06740
25.0	25.0	44.5	159.0	2	MC06750
26.0	25.0	44.5	159.0	2	MC06760
28.0	25.0	47.5	159.0	2	MC06780
30.0	25.0	51.0	159.0	2	MC06830
32.0	25.0	51.0	159.0	2	MC06832
34.0	25.0	51.0	159.0	2	MC06834
35.0	25.0	54.0	159.0	2	MC06835
36.0	25.0	54.0	159.0	2	MC06836
38.0	25.0	57.0	159.0	2	MC06838
40.0	25.0	57.0	159.0	2	MC06840
42.0	25.0	57.0	159.0	2	MC06842
45.0	25.0	57.0	159.0	2	MC06845
50.0	32.0	63.5	159.0	2	MC06950



Cobalt Threaded Shank - MC38

2 Flute Long Series

- Cobalt
- Center Cutting
- Longer Overall Length / Length of Cut
- Bright Finish (TiN and TiCN coatings available)
- Designed for plunge cutting and slotting
- 2 Flute End mills provide increased chip capacity for higher feed rates

2 Cannelures Serie Longue

- Cobalt
- Coupe centrale
- Coupe longue
- Finition brillante (revêtement TiN et TiCN disponible)
- Conçu pour le profilage, la finition, le fraisage à fente à extrémité ouverte et la plongée
- 2 fraises à flûte offrent une capacité de copeaux accrue pour des taux d'alimentation plus élevés

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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FRACTIONAL/FRACTIONNEL

1/16	1/4	3/16	2"	2	MC38004
3/32	1/4	1/4	2-1/8	2	MC38006
1/8	1/4	7/16	2-1/2	2	MC38008
5/32	1/4	1/2	2-3/4	2	MC38010
3/16	1/4	1/2	2-3/4	2	MC38012
7/32	1/4	5/8	3"	2	MC38014
1/4	1/4	5/8	3"	2	MC38016
5/16	3/8	3/4	3-1/8	2	MC38020
3/8	3/8	7/8	3-1/4	2	MC38024
1/2	1/2	1"	3-3/4	2	MC38032
5/8	5/8	1-1/4	4-1/4	2	MC38040
3/4	5/8	1-1/2	4-3/4	2	MC38048
7/8	1"	1-5/8	5-1/2	2	MC38056
1"	1"	1-3/4	6-1/4	2	MC38100

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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METRIC/METRIQUE

2.0	6.0	4.0	51.0	2	MC38520
2.5	6.0	6.5	54.0	2	MC38525
3.0	6.0	11.0	60.5	2	MC38530
3.5	6.0	12.5	66.5	2	MC38535
4.0	6.0	12.5	66.5	2	MC38540
4.5	6.0	12.5	66.5	2	MC38545
5.0	6.0	12.5	70.0	2	MC38550
5.5	6.0	16.0	76.0	2	MC38555
6.0	6.0	16.0	76.0	2	MC38560
6.5	10.0	16.0	76.0	2	MC38565
7.0	10.0	16.0	76.0	2	MC38570
7.5	10.0	16.0	76.0	2	MC38575
8.0	10.0	19.0	79.5	2	MC38580
9.0	10.0	22.0	82.5	2	MC38590
10.0	10.0	22.0	82.5	2	MC38600
12.0	12.0	25.5	95.0	2	MC38620
14.0	12.0	28.5	101.5	2	MC38640
16.0	16.0	31.5	108.0	2	MC38660
18.0	16.0	35.0	114.5	2	MC38680
20.0	16.0	38.0	120.5	2	MC38700
22.0	25.0	41.5	140.0	2	MC38720
24.0	25.0	41.5	152.5	2	MC38740
25.0	25.0	44.5	159.0	2	MC38750
28.0	25.0	47.5	159.0	2	MC38780
30.0	25.0	51.0	159.0	2	MC38830
32.0	32.0	51.0	159.0	2	MC38932



HSS Threaded Shank - MC07

2 Flute Standard Length - Ball Nose

- HSS
- Center Cutting
- Bright Finish (TiN and TiCN coatings available)
- Used for milling contours, radius bottom slots and die cavities
- 2 Flute End mills provide increased chip capacity for higher feed rates

2 Cannelures Longueur Standard - Bout Spherique

- HSS
- Coupe centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- Utilisé pour fraiser les contours, les fentes inférieures de rayon et les cavités de matrice
- 2 fraises à flûte offrent une capacité de copeaux accrue pour des taux d'alimentation plus élevés

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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FRACTIONAL/FRACTIONNEL

1/16	1/4	3/32	1-29/32	2	MC07004
3/32	1/4	3/16	2"	2	MC07006
1/8	1/4	9/32	2"	2	MC07008
5/32	1/4	3/8	2-1/16	2	MC07010
3/16	1/4	3/8	2-1/16	2	MC07012
7/32	1/4	7/16	2-3/16	2	MC07014
1/4	1/4	7/16	2-7/32	2	MC07016
9/32	3/8	7/16	2-5/16	2	MC07018
5/16	3/8	1/2	2-11/32	2	MC07020
3/8	3/8	9/16	2-3/8	2	MC07024
7/16	1/2	11/16	2-9/16	2	MC07028
1/2	1/2	3/4	2-5/8	2	MC07032
9/16	1/2	27/32	2-23/32	2	MC07036
5/8	5/8	7/8	2-27/32	2	MC07040
11/16	5/8	15/16	2-29/32	2	MC07044
3/4	5/8	1"	3-1/32	2	MC07048
7/8	1"	1"	3-15/16	2	MC07056
1"	1"	11/16	3-3/4	2	MC07100
1-1/8	1"	13/16	3-3/4	2	MC07108
1-1/4	1"	1-7/16	3-15/16	2	MC07116
1-1/2	1"	1-11/16	4-3/16	2	MC07132

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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METRIC/METRIQUE

2.0	6.0	3.0	49.0	2	MC07520
2.5	6.0	4.5	51.0	2	MC07525
3.0	6.0	7.0	51.0	2	MC07530
4.0	6.0	9.5	52.5	2	MC07540
5.0	6.0	9.5	52.5	2	MC07550
6.0	6.0	11.0	56.5	2	MC07560
7.0	10.0	11.0	58.5	2	MC07570
8.0	10.0	12.5	59.5	2	MC07580
9.0	10.0	14.5	58.5	2	MC07590
10.0	10.0	14.5	60.5	2	MC07600
11.0	12.0	17.5	65.0	2	MC07610
12.0	12.0	19.0	66.5	2	MC07620
13.0	12.0	19.0	66.5	2	MC07630
14.0	12.0	22.0	68.5	2	MC07640
15.0	16.0	22.0	72.0	2	MC07650
16.0	16.0	22.0	72.0	2	MC07660
17.0	16.0	24.0	73.0	2	MC07670
18.0	16.0	24.0	74.0	2	MC07680
19.0	16.0	25.5	77.0	2	MC07690
20.0	16.0	25.5	77.0	2	MC07700
22.0	25.0	25.5	100.0	2	MC07720
24.0	25.0	25.5	103.0	2	MC07740
25.0	25.0	28.5	97.0	2	MC07750
28.0	25.0	30.0	95.0	2	MC07780
30.0	25.0	30.0	93.5	2	MC07830
32.0	25.0	36.5	100.0	2	MC07832



HSS Threaded Shank - MC08

2 Flute Long Series - Ball Nose

- HSS
- Center Cutting
- Longer Overall Length / Length of Cut
- Bright Finish (TiN and TiCN coatings available)
- Used for milling contours, radius bottom slots and die cavities
- 2 Flute End mills provide increased chip capacity for higher feed rates

2 Cannelures Serie Longue - Bout Spherique

- HSS
- Coupe centrale
- Coupe longue
- Finition brillante (revêtement TiN et TiCN disponible)
- Utilisé pour fraiser les contours, les fentes inférieures de rayon et les cavités de matrice
- 2 fraises à flûte offrent une capacité de copeaux accrue pour des taux d'alimentation plus élevés

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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FRACTIONAL/FRACTIONNEL

1/16	1/4	3/16	2"	2	MC08004
1/8	1/4	7/16	2-1/2	2	MC08008
3/16	1/4	1/2	2-3/4	2	MC08012
1/4	1/4	5/8	3"	2	MC08016
5/16	3/8	3/4	3-1/8	2	MC08020
3/8	3/8	7/8	3-1/4	2	MC08024
7/16	1/2	7/8	3-1/2	2	MC08028
1/2	1/2	1"	3-3/4	2	MC08032
9/16	1/2	1-1/8	4"	2	MC08036
5/8	5/8	1-1/4	4-1/4	2	MC08040
3/4	5/8	1-1/2	4-3/4	2	MC08048
7/8	1"	1-5/8	5-1/2	2	MC08056
1"	1"	1-3/4	6-1/4	2	MC08100
1-1/4	1"	2"	6-1/4	2	MC08116
1-1/2	1"	2-1/4	6-1/4	2	MC08132
1-1/2	1-1/4	2-1/4	6-1/4	2	MC08432

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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METRIC/METRIQUE

3.0	6.0	11.0	60.5	2	MC08530
4.0	6.0	12.5	66.5	2	MC08540
5.0	6.0	12.5	70.0	2	MC08550
6.0	6.0	16.0	76.0	2	MC08560
8.0	10.0	19.0	79.5	2	MC08580
9.0	10.0	22.0	82.5	2	MC08590
10.0	10.0	22.0	82.5	2	MC08600
11.0	12.0	22.0	89.0	2	MC08610
12.0	12.0	25.5	95.0	2	MC08620
13.0	12.0	25.5	95.0	2	MC08630
14.0	12.0	28.5	101.5	2	MC08640
15.0	16.0	31.5	108.0	2	MC08650
16.0	16.0	31.5	108.0	2	MC08660
17.0	16.0	35.0	114.5	2	MC08670
18.0	16.0	35.0	114.5	2	MC08680
19.0	16.0	38.0	120.5	2	MC08690
20.0	16.0	38.0	120.5	2	MC08700
22.0	25.0	41.5	140.0	2	MC08720
24.0	25.0	41.5	152.5	2	MC08740
25.0	25.0	44.5	159.0	2	MC08750
28.0	25.0	47.5	159.0	2	MC08780
30.0	25.0	51.0	159.0	2	MC08800



Cobalt Threaded Shank - MC16

3 Flute Standard Length Supermill

- Cobalt
- Center Cutting
- Bright finish (TiN and TiCN coatings available)
- 3 Flute end mills offer more chip clearance than 4 flute and better surface finish than 2 flute

3 Cannelures Longueur Standard Supermill

- Cobalt
- Coupe centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- 3 fraises en bout de flûte offrent plus de dégagement de copeaux que 4 flûtes et une meilleure finition de surface que 2 flûtes

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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FRACTIONAL/FRACTIONNEL

1/8	1/4	3/8	2-1/8	3	MC16008
5/32	1/4	1/2	2-1/4	3	MC16010
3/16	1/4	5/8	2-3/8	3	MC16012
7/32	1/4	5/8	2-3/8	3	MC16014
1/4	1/4	5/8	2-3/8	3	MC16016
9/32	3/8	3/4	2-1/2	3	MC16018
5/16	3/8	3/4	2-1/2	3	MC16020
11/32	3/8	7/8	2-5/8	3	MC16022
3/8	3/8	7/8	2-5/8	3	MA16024
13/32	3/8	7/8	2-5/8	3	MC16026
7/16	1/2	1"	2-13/16	3	MC16028
1/2	1/2	1"	2-13/16	3	MC16032
9/16	1/2	1-1/8	2-15/16	3	MC16036
5/8	5/8	1-1/4	3-5/32	3	MC16040
11/16	5/8	1-3/8	3-9/32	3	MC16044
3/4	5/8	1-1/2	3-17/32	3	MC16048
7/8	1"	1-5/8	4-3/16	3	MC16056
1"	1"	1-11/16	4-1/4	3	MC16100
1-1/4	1"	1-15/16	4-5/16	3	MC16116
1-1/2	1"	2-3/16	4-5/16	3	MC16132
1-3/4	1-1/4	2-1/4	4-15/16	3	MC16448
2"	1-1/4	2-9/16	5"	3	MC16500

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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METRIC/METRIQUE

3.0	6.0	8.0	52.0	3	MC16530
3.5	6.0	10.0	54.0	3	MC16535
4.0	6.0	11.0	55.0	3	MC16540
4.5	6.0	11.0	55.0	3	MC16545
5.0	6.0	13.0	57.0	3	MC16550
5.5	6.0	13.0	57.0	3	MC16555
6.0	6.0	13.0	57.0	3	MC16560
8.0	10.0	19.0	69.0	3	MC16580
10.0	10.0	22.0	72.0	3	MC16600
12.0	12.0	26.0	83.0	3	MC16620
14.0	12.0	26.0	83.0	3	MC16640
16.0	16.0	32.0	92.0	3	MC16660
18.0	16.0	32.0	92.0	3	MC16680
20.0	16.0	38.0	98.0	3	MC16700
22.0	25.0	38.0	110.0	3	MC16720
24.0	25.0	45.0	121.0	3	MC16740
25.0	25.0	45.0	121.0	3	MC16750
26.0	25.0	45.0	121.0	3	MC16760
28.0	25.0	45.0	121.0	3	MC16780
30.0	25.0	45.0	121.0	3	MC16830
32.0	25.0	53.0	129.0	3	MC16832
35.0	25.0	53.0	129.0	3	MC16835
38.0	25.0	63.0	139.0	3	MC16838
40.0	25.0	63.0	139.0	3	MC16840
40.0	32.0	63.0	143.0	3	MC16940
45.0	32.0	63.0	143.0	3	MC16945
50.0	32.0	75.0	155.0	3	MC16950



Cobalt Threaded Shank - MC17

3 Flute Long Series Supermill

- Cobalt
- Center Cutting
- Longer Overall Length / Length of Cut
- Bright finish (TiN and TiCN coatings available)
- 3 Flute end mills offer more chip clearance than 4 flute and better surface finish than 2 flute

3 Cannelures Serie Longue Supermill

- Cobalt
- Coupe centrale
- Coupe longue
- Finition brillante (revêtement TiN et TiCN disponible)
- 3 fraises en bout de flûte offrent plus de dégagement de copeaux que 4 flûtes et une meilleure finition de surface que 2 flûtes

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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FRACTIONAL/FRACTIONNEL

1/8	1/4	3/4	2-1/2	3	MC17008
3/16	1/4	1-1/4	3"	3	MC17012
1/4	1/4	1-1/4	3"	3	MC17016
5/16	1/4	1-1/4	3-1/8	3	MC17020
3/8	3/8	1-3/8	3-1/8	3	MC17024
7/16	1/2	1-23/32	3-17/32	3	MC17028
1/2	1/2	2"	3-13/16	3	MC17032
9/16	1/2	2-1/4	4-1/16	3	MC17036
5/8	5/8	2-1/2	4-13/32	3	MC17040
3/4	5/8	3"	4-29/32	3	MC17048
7/8	1"	3-3/8	5-15/16	3	MC17056
1"	1"	3-15/16	6-1/2	3	MC17100
1-1/4	1"	3-15/16	6-5/16	3	MC17116
1-1/2	1"	3-15/16	6-5/16	3	MC17132
1-3/4	1-1/4	4"	6-11/16	3	MC17448
2"	1-1/4	4"	6-11/16	3	MC17500

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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METRIC/METRIQUE

3.0	6.0	12.0	56.0	3	MC17530
3.5	6.0	15.0	59.0	3	MC17535
4.0	6.0	19.0	63.0	3	MC17540
4.5	6.0	19.0	63.0	3	MC17545
5.0	6.0	24.0	68.0	3	MC17550
5.5	6.0	24.0	68.0	3	MC17555
6.0	6.0	24.0	68.0	3	MC17560
8.0	10.0	38.0	88.0	3	MC17580
10.0	10.0	45.0	95.0	3	MC17600
12.0	12.0	53.0	110.0	3	MC17620
14.0	12.0	53.0	110.0	3	MC17640
16.0	16.0	63.0	123.0	3	MC17660
18.0	16.0	63.0	123.0	3	MC17680
20.0	16.0	75.0	135.0	3	MC17700
22.0	25.0	75.0	147.0	3	MC17720
24.0	25.0	90.0	166.0	3	MC17740
25.0	25.0	90.0	166.0	3	MC17750
28.0	25.0	90.0	166.0	3	MC17780
30.0	25.0	90.0	166.0	3	MC17830
32.0	25.0	106.0	182.0	3	MC17832
32.0	32.0	106.0	186.0	3	MC17932
35.0	25.0	106.0	182.0	3	MC17835
40.0	25.0	125.0	201.0	3	MC17840
50.0	32.0	125.0	205.0	3	MC17940



Cobalt Threaded Shank - MC62

3 Flute Standard Length High Helix

- Cobalt
- Center Cutting
- Bright finish (TiN and TiCN coatings available)
- 3 Flute end mills offer more chip clearance than 4 flute and better surface finish than 2 flute
- High Helix geometry is ideally suited for softer non-ferrous materials such as Aluminum, Zinc, Magnesium
- This helix angle results in better chip evacuation and smoother cutting action

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
6.0	6.0	13.0	57.0	3	MC62506
8.0	10.0	19.0	69.0	3	MC62508
10.0	10.0	22.0	72.0	3	MC62510
12.0	12.0	26.0	83.0	3	MC62512

3 Cannelures Longueur Standard High Helix

- Cobalt
- Coupe centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- 3 fraises en bout de flûte offrent plus de dégagement de copeaux que 4 flûtes et une meilleure finition de surface que 2 flûtes
- La géométrie High Helix est parfaitement adaptée aux matériaux non ferreux plus doux tels que l'aluminium, le zinc, Magnésium
- Cet angle d'hélice permet une meilleure évacuation des copeaux et une action de coupe plus douce

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
16.0	16.0	32.0	92.0	3	MC62516
20.0	16.0	38.0	98.0	3	MC62520
25.0	25.0	45.0	121.0	3	MC62525



Cobalt Threaded Shank MC18

3 Flute Standard Length Supercut

- Cobalt • Center Cutting
- Bright finish (TiN and TiCN coatings available)
- 3 Flute end mills offer more chip clearance than 4 flute and better surface finish than 2 flute

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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FRACTIONAL/FRACTIONNEL

1/4	1/4	5/8	2-3/8	3	MC18016
5/16	3/8	3/4	2-1/2	3	MC18020
3/8	3/8	7/8	2-5/8	3	MC18024
7/16	1/2	1"	2-13/16	3	MC18028
1/2	1/2	1"	2-13/16	3	MC18032
5/8	5/8	1-1/4	3-5/32	3	MC18040
3/4	5/8	1-1/2	3-17/32	3	MC18048
1"	1"	1-11/16	4-1/4	3	MC18100

3 Cannelures Longueur Standard Supercut

- Cobalt • Coupe centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- 3 fraises en bout de flûte offrent plus de dégagement de copeaux que 4 flûtes et une meilleure finition de surface que 2 flûtes

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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METRIC/METRIQUE

6.0	6.0	13.0	57.0	3	MC18560
8.0	10.0	19.0	69.0	3	MC18580
10.0	10.0	22.0	72.0	3	MC18600
12.0	12.0	26.0	83.0	3	MC18620
14.0	12.0	26.0	83.0	3	MC18640
16.0	16.0	32.0	92.0	3	MC18660
18.0	16.0	32.0	92.0	3	MC18680
20.0	16.0	38.0	98.0	3	MC18700
25.0	25.0	45.0	121.0	3	MC18750



Cobalt Threaded Shank - MC19

3 Flute Long Series Supercut

- Cobalt • Center Cutting
- Longer Overall Length / Length of Cut
- Bright finish (TiN and TiCN coatings available)
- 3 Flute end mills offer more chip clearance than 4 flute and better surface finish than 2 flute

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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FRACTIONAL/FRACTIONNEL

1/4	1/4	1-1/4	3"	3	MC19016
5/16	1/4	1-1/4	3-1/8	3	MC19020
3/8	3/8	1-3/8	3-1/8	3	MC19024
7/16	1/2	1-23/32	3-17/32	3	MC19028
1/2	1/2	2"	3-13/16	3	MC19032
5/8	5/8	2-1/2	4-13/32	3	MC19040
3/4	5/8	3"	4-29/32	3	MC19048
1"	1"	3-15/16	6-1/2	3	MC19100

3 Cannelures Serie Longue Supercut

- Cobalt • Coupe centrale
- Coupe longue
- Finition brillante (revêtement TiN et TiCN disponible)
- 3 fraises en bout de flûte offrent plus de dégagement de copeaux que 4 flûtes et une meilleure finition de surface que 2 flûtes

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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METRIC/METRIQUE

6.0	6.0	24.0	68.0	3	MC19560
8.0	10.0	38.0	88.0	3	MC19580
10.0	10.0	45.0	95.0	3	MC19600
12.0	12.0	53.0	110.0	3	MC19620
14.0	12.0	53.0	110.0	3	MC19640
16.0	16.0	63.0	123.0	3	MC19660
20.0	16.0	75.0	141.0	3	MC19700



HSS Threaded Shank - MC03

Multi Flute Standard Length

- HSS • Non Center Cutting
- Threaded Shank
- Bright finish (TiN and TiCN coatings available)
- Multi-Flute design reduces chip load per tooth, has greater wear resistance, and improved surface finish
- Designed for profile, finishing, and open-ended slot milling

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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3/32	1/4	1/4	2"	4	MC03006
1/8	1/4	3/8	2-1/8	4	MC03008
5/32	1/4	1/2	2-1/4	4	MC03010
3/16	1/4	1/2	2-1/4	4	MC03012
7/32	1/4	5/8	2-3/8	4	MC03014
1/4	1/4	5/8	2-3/8	4	MC03016
9/32	3/8	19/32	2-3/8	4	MC03018
5/16	3/8	23/32	2-1/2	4	MC03020
11/32	3/8	27/32	2-5/8	4	MC03022
3/8	3/8	27/32	2-5/8	4	MC03024
13/32	3/8	7/8	2-5/8	4	MC03026
7/16	1/2	3/4	2-5/8	4	MC03028
15/32	1/2	7/8	2-3/4	4	MC03030
1/2	1/2	15/16	2-3/4	4	MC03032
17/32	1/2	1-1/8	2-7/8	4	MC03034
9/16	1/2	1-1/8	2-7/8	4	MC03036
5/8	5/8	1-1/16	3-1/32	4	MC03040
11/16	5/8	1-3/8	3-5/32	4	MC03044

Multiple Cannelures Longueur Standard

- HSS • Coupe non-centrale
- Tige filetée
- Finition brillante (revêtement TiN et TiCN disponible)
- La conception multi-cannelures réduit la charge de copeaux par dent, a une plus grande résistance à l'usure et est améliorée finition de surface
- Conçu pour le profilage, la finition et le fraisage à fente à extrémité ouverte

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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3/4	5/8	1-1/2	3-9/32	4	MC03048
13/16	1"	1-1/2	3-3/4	6	MC03052
7/8	1"	1-5/8	3-7/8	6	MC03056
15/16	1"	1-5/8	3-7/8	6	MC03060
1"	1"	1-11/16	4"	6	MC03100
1-1/8	1"	1-13/16	4-1/8	6	MC03108
1-1/4	1"	1-15/16	4-1/4	6	MC03116
1-1/4	1-1/4	2"	4-7/16	6	MC03416
1-3/8	1"	2-1/16	4-3/8	6	MC03124
1-1/2	1"	2-3/16	4-1/2	6	MC03132
1-1/2	1-1/4	2-1/8	4-9/16	6	MC03432
1-5/8	1"	2-3/8	4-5/8	8	MC03140
1-3/4	1"	2-1/2	4-3/4	8	MC03148
1-3/4	1-1/4	2-1/4	4-11/16	8	MC03448
1-7/8	1"	2-5/8	4-7/8	8	MC03156
2"	1"	2-3/4	5"	8	MC03200
2"	1-1/4	2-9/16	5"	8	MC03500



HSS Threaded Shank - MC03

Multi Flute Standard Length - Metric

- HSS
- Non-center Cutting
- Bright finish (TiN and TiCN coatings available)
- Multi-Flute design reduces chip load per tooth, has greater wear resistance, and improved surface finish
- Designed for profile, finishing, and open-ended slot milling

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
2.5	6.0	6.5	51.0	4	MC03525
3.0	6.0	9.5	54.0	4	MC03530
3.5	6.0	12.5	57.0	4	MC03535
4.0	6.0	12.5	57.0	4	MC03540
4.5	6.0	12.5	57.0	4	MC03545
5.0	6.0	16.0	60.5	4	MC03550
5.5	6.0	16.0	60.5	4	MC03555
6.0	6.0	16.0	60.5	4	MC03560
6.5	10.0	16.0	60.5	4	MC03565
7.0	10.0	15.0	60.5	4	MC03570
7.5	10.0	18.0	63.5	4	MC03575
8.0	10.0	18.0	63.5	4	MC03580
8.5	10.0	21.0	66.5	4	MC03585
9.0	10.0	21.0	66.5	4	MC03590
9.5	10.0	21.0	66.5	4	MC03595
10.0	10.0	21.0	66.5	4	MC03600
10.5	12.0	19.0	66.5	4	MC03605
11.0	12.0	19.0	66.5	4	MC03610
11.5	12.0	22.5	70.0	4	MC03615
12.0	12.0	24.0	70.0	4	MC03620
13.0	12.0	24.5	70.0	4	MC03630
14.0	12.0	28.5	73.0	4	MC03640
15.0	16.0	26.5	77.0	4	MC03650
16.0	16.0	26.5	77.0	4	MC03660
17.0	16.0	32.0	80.0	4	MC03670
18.0	16.0	35.0	80.0	4	MC03680
19.0	16.0	38.0	83.5	4	MC03690
20.0	16.0	38.0	83.5	4	MC03700
21.0	25.0	38.0	95.0	6	MC03710
22.0	25.0	41.5	98.5	6	MC03720

Multiple Cannelures Longueur Standard Metrique

- HSS
- Coupe non-centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- La conception multi-cannelures réduit la charge de copeaux par dent, a une plus grande résistance à l'usure et est améliorée finition de surface
- Conçu pour le profilage, la finition et le fraisage à fente à extrémité ouverte

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
23.0	25.0	41.5	98.5	6	MC03730
24.0	25.0	41.5	98.5	6	MC03740
25.0	25.0	44.5	101.5	6	MC03750
26.0	25.0	43.0	101.5	6	MC03760
27.0	25.0	44.0	102.0	6	MC03770
28.0	25.0	46.0	104.5	6	MC03780
29.0	25.0	46.0	104.5	6	MC03790
30.0	25.0	46.0	104.5	6	MC03830
32.0	25.0	49.0	108.0	6	MC03832
32.0	32.0	51.0	112.5	6	MC03932
34.0	25.0	49.0	108.0	6	MC03834
35.0	25.0	52.5	111.0	6	MC03835
35.0	32.0	54.0	116.0	6	MC03935
36.0	25.0	52.5	111.0	6	MC03836
36.0	32.0	54.0	116.0	6	MC03936
38.0	25.0	55.5	114.5	6	MC03838
38.0	32.0	54.0	116.0	6	MC03938
40.0	25.0	58.5	117.5	8	MC03840
40.0	32.0	55.5	117.5	8	MC03940
42.0	25.0	60.5	117.5	8	MC03842
42.0	32.0	54.0	116.0	8	MC03942
44.0	25.0	63.5	120.5	8	MC03844
44.0	32.0	57.0	119.0	8	MC03944
45.0	25.0	63.5	120.5	8	MC03845
45.0	32.0	57.0	119.0	8	MC03945
50.0	25.0	70.0	127.0	8	MC03850
50.0	32.0	65.0	127.0	8	MC03950



Cobalt Threaded Shank - MC33

Multi Flute Standard Length

- Cobalt • Non-center Cutting
- Bright finish (TiN and TiCN coatings available)
- Multi-Flute design reduces chip load per tooth, has greater wear resistance, and improved surface finish
- Designed for profile, finishing, and open-ended slot milling

Multiple Cannelures Longueur Standard

- Cobalt • Coupe non-centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- La conception multi-cannelures réduit la charge de copeaux par dent, a une plus grande résistance à l'usure et est améliorée finition de surface
- Conçu pour le profilage, la finition et le fraisage à fente à extrémité ouverte

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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FRACTIONAL/FRACTIONNEL

3/32	1/4	1/4	2"	4	MC33006
1/8	1/4	3/8	2-1/8	4	MC33008
5/32	1/4	1/2	2-1/4	4	MC33010
3/16	1/4	1/2	2-1/4	4	MC33012
7/32	1/4	5/8	2-3/8	4	MC33014
1/4	1/4	5/8	2-3/8	4	MC33016
5/16	3/8	23/32	2-1/2	4	MC33020
3/8	3/8	27/32	2-5/8	4	MC33024
7/16	1/2	3/4	2-5/8	4	MC33028
1/2	1/2	15/16	2-3/4	4	MC33032
9/16	1/2	1-1/8	2-7/8	4	MC33036
5/8	5/8	1-1/16	3-1/32	4	MC33040
11/16	5/8	1-3/8	3-5/32	4	MC33044
3/4	5/8	1-1/2	3-9/32	4	MC33048
13/16	1"	1-1/2	3-3/4	6	MC33052
7/8	1"	1-5/8	3-7/8	6	MC33056
15/16	1"	1-5/8	3-7/8	6	MC33060
1"	1"	1-11/16	4"	6	MC33100
1-1/8	1"	1-13/16	4-1/8	6	MC33108
1-1/4	1"	1-15/16	4-1/4	6	MC33116
1-1/4	1-1/4	2"	4-7/16	6	MC33416
1-3/8	1"	2-1/16	4-3/8	6	MC33124
1-1/2	1"	2-3/16	4-1/2	6	MC33132
1-1/2	1-1/4	2-1/8	4-9/16	6	MC33432
1-3/4	1-1/4	2-1/4	4-11/16	8	MC33448
2"	1"	2-3/4	5"	8	MC33200
2"	1-1/4	2-9/16	5"	8	MC33500

METRIC/METRIQUE

2.5	6.0	6.5	51.0	4	MC33525
3.0	6.0	9.5	54.0	4	MC33530
3.5	6.0	12.5	57.0	4	MC33535
4.0	6.0	12.5	57.0	4	MC33540

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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4.5	6.0	12.5	57.0	4	MC33545
5.0	6.0	16.0	60.5	4	MC33550
5.5	6.0	16.0	60.5	4	MC33555
6.0	6.0	16.0	60.5	4	MC33560
6.5	10.0	16.0	60.5	4	MC33565
7.0	10.0	15.0	60.5	4	MC33570
8.0	10.0	18.0	63.5	4	MC33580
9.0	10.0	21.0	66.5	4	MC33590
10.0	10.0	21.0	66.5	4	MC33600
11.0	12.0	19.0	66.5	4	MC33610
12.0	12.0	24.0	70.0	4	MC33620
13.0	12.0	24.5	70.0	4	MC33630
14.0	12.0	28.5	73.0	4	MC33640
15.0	16.0	26.5	77.0	4	MC33650
16.0	16.0	26.5	77.0	4	MC33660
17.0	16.0	32.0	80.0	4	MC33670
18.0	16.0	35.0	80.0	4	MC33680
19.0	16.0	38.0	83.5	4	MC33690
20.0	16.0	38.0	83.5	4	MC33700
22.0	25.0	41.5	98.5	6	MC33720
24.0	25.0	41.5	98.5	6	MC33740
25.0	25.0	44.5	101.5	6	MC33750
26.0	25.0	43.0	101.5	6	MC33760
28.0	25.0	46.0	104.5	6	MC33780
30.0	25.0	46.0	104.5	6	MC33830
32.0	25.0	49.0	108.0	6	MC33832
32.0	32.0	51.0	112.5	6	MC33932
35.0	25.0	52.5	111.0	6	MC33835
35.0	32.0	54.0	116.0	6	MC33935
38.0	32.0	54.0	116.0	6	MC33938
40.0	25.0	58.5	117.5	8	MC33840
40.0	32.0	55.5	117.5	8	MC33940
45.0	32.0	57.0	119.0	8	MC33945
50.0	32.0	65.0	127.0	8	MC33950



HSS Threaded Shank - MC04

Multi Flute Long Series

- HSS
- Non-center Cutting
- Bright finish (TiN and TiCN coatings available)
- Longer Overall Length / Length of Cut
- Multi-Flute design reduces chip load per tooth, has greater wear resistance, and improved surface finish
- Designed for profile, finishing, and open-ended slot milling

Multiple Cannelures Serie Longue

- HSS
- Coupe non-centrale
- Coupe longue
- Finition brillante (revêtement TiN et TiCN disponible)
- La conception multi-cannelures réduit la charge de copeaux par dent, a une plus grande résistance à l'usure et est améliorée finition de surface
- Conçu pour le profilage, la finition et le fraisage à fente à extrémité ouverte

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
3/32	1/4	25/64	2-1/4	4	MC04006
1/8	1/4	3/4	2-1/2	4	MC04008
5/32	1/4	1"	2-3/4	4	MC04010
3/16	1/4	1"	2-3/4	4	MC04012
7/32	1/4	1-1/4	3"	4	MC04014
1/4	1/4	1-1/4	3"	4	MC04016
9/32	3/8	1-11/32	3-1/8	4	MC04018
5/16	3/8	1-11/32	3-1/8	4	MC04020
11/32	3/8	1-15/32	3-1/4	4	MC04022
3/8	3/8	1-15/32	3-1/4	4	MC04024
13/32	3/8	1-1/2	3-1/4	4	MC04026
7/16	1/2	1-5/8	3-1/2	4	MC04028
1/2	1/2	1-15/16	3-3/4	4	MC04032
9/16	1/2	2-1/4	4"	4	MC04036
5/8	5/8	2-5/16	4-9/32	4	MC04040
11/16	5/8	2-3/4	4-17/32	4	MC04044
3/4	5/8	3"	4-25/32	4	MC04048
13/16	1"	3-1/16	5-3/8	6	MC04052
7/8	1"	3-3/8	5-5/8	6	MC04056
15/16	1"	3-5/8	5-7/8	6	MC04060
1"	1"	3-7/8	6-3/16	6	MC04100
1-1/8	1"	3-7/8	6-3/16	6	MC04108
1-1/4	1"	3-7/8	6-3/16	6	MC04116
1-1/4	1-1/4	4"	6-7/16	6	MC04416
1-3/8	1"	3-15/16	6-1/4	6	MC04124
1-1/2	1"	3-15/16	6-1/4	6	MC04132
1-1/2	1-1/4	4"	6-7/16	6	MC04432
1-3/4	1"	4"	6-1/4	8	MC04148
2"	1"	4"	6-1/4	8	MC04200
2"	1-1/4	4"	6-7/16	8	MC04500



HSS Threaded Shank - MC04

Multi Flute Long Series - Metric

- HSS
- Non-center Cutting
- Bright finish (TiN and TiCN coatings available)
- Longer Overall Length / Length of Cut
- Multi-Flute design reduces chip load per tooth, has greater wear resistance, and improved surface finish
- Designed for profile, finishing, and open-ended slot milling

Multiple Cannelures Serie Longue - Metrique

- HSS
- Coupe non-centrale
- Coupe longue
- Finition brillante (revêtement TiN et TiCN disponible)
- La conception multi-cannelures réduit la charge de copeaux par dent, a une plus grande résistance à l'usure et est améliorée finition de surface
- Conçu pour le profilage, la finition et le fraisage à fente à extrémité ouverte

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
4.0	6.0	25.5	70.0	4	MC04540
5.0	6.0	31.5	76.0	4	MC04550
6.0	6.0	31.5	76.0	4	MC04560
6.5	10.0	35.0	79.5	4	MC04565
7.0	10.0	34.0	79.5	4	MC04570
7.5	10.0	34.0	79.5	4	MC04575
8.0	10.0	34.0	79.5	4	MC04580
8.5	10.0	37.0	82.5	4	MC04585
9.0	10.0	37.0	82.5	4	MC04590
10.0	10.0	37.0	82.5	4	MC04600
11.0	12.0	41.5	89.0	4	MC04610
12.0	12.0	49.0	95.0	4	MC04620
13.0	12.0	50.0	95.0	4	MC04630
14.0	12.0	57.0	101.5	4	MC04640
15.0	16.0	58.5	108.5	4	MC04650
16.0	16.0	58.5	108.5	4	MC04660
17.0	16.0	66.5	115.0	4	MC04670
18.0	16.0	70.0	115.0	4	MC04680
19.0	16.0	76.0	121.5	4	MC04690
20.0	16.0	76.0	121.5	4	MC04700

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
22.0	25.0	85.5	143.0	6	MC04720
24.0	25.0	92.0	149.0	6	MC04740
25.0	25.0	98.5	157.0	6	MC04750
26.0	25.0	98.5	157.0	6	MC04760
28.0	25.0	98.5	157.0	6	MC04780
30.0	25.0	98.5	157.0	6	MC04830
32.0	25.0	100.0	159.0	6	MC04832
32.0	32.0	101.5	163.5	6	MC04932
34.0	25.0	100.0	159.0	6	MC04834
35.0	25.0	100.0	159.0	6	MC04835
35.0	32.0	101.5	163.5	6	MC04935
36.0	25.0	100.0	159.0	6	MC04836
38.0	25.0	100.0	159.0	6	MC04838
38.0	32.0	101.5	163.5	6	MC04938
40.0	25.0	100.0	159.0	8	MC04840
40.0	32.0	101.5	163.5	8	MC04940
42.0	25.0	101.5	159.0	8	MC04842
45.0	25.0	101.5	159.0	8	MC04845
45.0	32.0	101.5	163.5	8	MC04945
50.0	25.0	101.5	159.0	8	MC04850
50.0	32.0	101.5	163.5	8	MC04950



HSS Threaded Shank CM04

Multi Flute Extra Long Series

- HSS
- Non-center Cutting
- Bright finish (TiN and TiCN coatings available)
- Longest Overall Length / Length of Cut
- Multi Flute design reduces chip load per tooth, has greater wear resistance, and improved surface finish
- Designed for profile, finishing, and open-ended slot milling

Multiple Cannelures Serie Extra Longue

- HSS
- Coupe non-centrale
- Coupe longue
- Finition brillante (revêtement TiN et TiCN disponible)
- La conception à multi cannelures réduit la charge de copeaux par dent, a une plus grande résistance à l'usure et une surface améliorée terminer
- Conçu pour le profilage, la finition et le fraisage à fente à extrémité ouverte

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
8.0	10.0	70.0	115.0	4	CM04968
10.0	10.0	75.0	120.0	4	CM04970
12.0	12.0	85.0	130.0	4	CM04972
14.0	12.0	85.0	130.0	4	CM04974
16.0	16.0	90.0	136.0	4	CM04976
18.0	16.0	100.0	145.0	4	CM04978
20.0	16.0	110.0	155.0	4	CM04980
22.0	25.0	120.0	178.0	6	CM04982
25.0	25.0	125.0	183.0	6	CM04985
28.0	25.0	140.0	198.0	6	CM04988
30.0	25.0	140.0	198.0	6	CM04990
32.0	32.0	160.0	222.0	6	CM04993
35.0	32.0	180.0	242.0	6	CM04995
40.0	32.0	200.0	260.0	6	CM04999



Cobalt Threaded Shank - MC34

Multi Flute Long Series

- Cobalt • Non-center Cutting
- Bright finish (TiN and TiCN coatings available)
- Longer Overall Length / Length of Cut
- Multi-Flute design reduces chip load per tooth, has greater wear resistance, and improved surface finish
- Designed for profile, finishing, and open-ended slot milling

Multiple Cannelures Serie Longue

- Cobalt • Coupe non-centrale
- Coupe longue
- Finition brillante (revêtement TiN et TiCN disponible)
- La conception multi-cannelures réduit la charge de copeaux par dent, a une plus grande résistance à l'usure et est améliorée finition de surface
- Conçu pour le profilage, la finition et le fraisage à fente à extrémité ouverte

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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FRACTIONAL/FRACTIONNEL

3/32	1/4	25/64	2-1/4	4	MC34006
1/8	1/4	3/4	2-1/2	4	MC34008
5/32	1/4	1"	2-3/4	4	MC34010
3/16	1/4	1"	2-3/4	4	MC34012
7/32	1/4	1-1/4	3"	4	MC34014
1/4	1/4	1-1/4	3"	4	MC34016
5/16	3/8	1-11/32	3-1/8	4	MC34020
3/8	3/8	1-15/32	3-1/4	4	MC34024
7/16	1/2	1-5/8	3-1/2	4	MC34028
1/2	1/2	1-15/16	3-3/4	4	MC34032
9/16	1/2	2-1/4	4"	4	MC34036
5/8	5/8	2-5/16	4-9/32	4	MC34040
11/16	5/8	2-3/4	4-17/32	4	MC34044
3/4	5/8	3"	4-25/32	4	MC34048
7/8	1"	3-3/8	5-5/8	6	MC34056
1"	1"	3-7/8	6-3/16	6	MC34100
1-1/8	1"	3-7/8	6-3/16	6	MC34108
1-1/4	1"	3-7/8	6-3/16	6	MC34116
1-1/4	1-1/4	4"	6-7/16	6	MC34416
1-1/2	1-1/4	4"	6-7/16	6	MC34432
2"	1-1/4	4"	6-7/16	8	MC34500

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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METRIC/METRIQUE

3.0	6.0	19.0	63.5	4	MC34530
3.5	6.0	25.5	70.0	4	MC34535
4.0	6.0	25.5	70.0	4	MC34540
4.5	6.0	25.5	70.0	4	MC34545
5.0	6.0	31.5	76.0	4	MC34550
5.5	6.0	31.5	76.0	4	MC34555
6.0	6.0	31.5	76.0	4	MC34560
7.0	10.0	34.0	79.5	4	MC34570
8.0	10.0	34.0	79.5	4	MC34580
9.0	10.0	37.0	82.5	4	MC34590
10.0	10.0	37.0	82.5	4	MC34600
12.0	12.0	49.0	95.0	4	MC34620
14.0	12.0	57.0	101.5	4	MC34640
15.0	16.0	58.5	108.5	4	MC34650
16.0	16.0	58.5	108.5	4	MC34660
18.0	16.0	70.0	115.0	4	MC34680
20.0	16.0	76.0	121.5	4	MC34700
22.0	25.0	85.5	143.0	6	MC34720
24.0	25.0	92.0	149.0	6	MC34740
25.0	25.0	98.5	157.0	6	MC34750
26.0	25.0	98.5	157.0	6	MC34760
28.0	25.0	98.5	157.0	6	MC34780
30.0	25.0	98.5	157.0	6	MC34830
32.0	25.0	100.0	159.0	6	MC34832
32.0	32.0	101.5	163.5	6	MC34932
35.0	25.0	100.0	159.0	6	MC34835
35.0	32.0	101.5	163.5	6	MC34935
38.0	32.0	101.5	163.5	6	MC34938
40.0	25.0	100.0	159.0	8	MC34840
40.0	32.0	101.5	163.5	8	MC34940
45.0	32.0	101.5	163.5	8	MC34945
50.0	32.0	101.5	163.5	8	MC34950



Cobalt Threaded Shank Rip-R - MC36

Multi Flute Standard Length Roughing Cutter

- Cobalt
- Non-center Cutting
- Bright finish (TiN and TiCN coatings available)
- Truncated Knuckle Form reduces drag and friction
- Chip breaker cutting edge allows for heavier cuts and higher speeds / feeds

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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FRACTIONAL/FRACTIONNEL

1/4	1/4	5/8	2-3/8	3	MC36016
5/16	3/8	23/32	2-1/2	3	MC36020
3/8	3/8	27/32	2-5/8	4	MC36024
7/16	1/2	3/4	2-5/8	4	MC36028
1/2	1/2	15/16	2-3/4	4	MC36032
9/16	1/2	1-1/8	2-7/8	4	MC36036
5/8	5/8	1-1/16	3-1/32	4	MC36040
11/16	5/8	1-3/8	3-5/32	4	MC36044
3/4	5/8	1-1/2	3-9/32	4	MC36048
7/8	1"	1-5/8	3-7/8	5	MC36056
1"	1"	1-11/16	4"	5	MC36100
1-1/8	1"	1-13/16	4-1/8	5	MC36108
1-1/4	1"	1-15/16	4-1/4	5	MC36116
1-1/4	1-1/4	2"	4-7/16	5	MC36416
1-3/8	1"	2-1/16	4-3/8	6	MC36124
1-1/2	1"	2-3/16	4-1/2	6	MC36132
1-1/2	1-1/4	2-1/8	4-9/16	6	MC36432
1-3/4	1-1/4	2-1/4	4-11/16	6	MC36448
2"	1-1/4	2-9/16	5"	7	MC36500

Multiple Cannelures Longueur Standard Roughing Cutter

- Cobalt
- Coupe non-centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- La forme tronquée des articulations réduit la traînée et la friction
- Le tranchant brise-copeaux permet des coupes plus lourdes et des vitesses / avances plus élevées

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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METRIC/METRIQUE

6.0	6.0	13.0	57.0	3	MC36560
7.0	10.0	16.0	66.0	3	MC36570
8.0	10.0	19.0	69.0	3	MC36580
9.0	10.0	19.0	69.0	4	MC36590
10.0	10.0	22.0	72.0	4	MC36600
11.0	12.0	22.0	79.0	4	MC36610
12.0	12.0	26.0	83.0	4	MC36620
13.0	12.0	26.0	83.0	4	MC36630
14.0	12.0	26.0	83.0	4	MC36640
15.0	12.0	26.0	83.0	4	MC36650
16.0	16.0	32.0	92.0	4	MC36660
18.0	16.0	32.0	92.0	4	MC36680
20.0	16.0	38.0	98.0	4	MC36700
22.0	25.0	38.0	110.0	4	MC36720
25.0	25.0	45.0	121.0	5	MC36750
28.0	25.0	45.0	121.0	5	MC36780
30.0	25.0	45.0	121.0	5	MC36830
32.0	25.0	53.0	129.0	5	MC36832
32.0	32.0	53.0	133.0	5	MC36932
35.0	25.0	53.0	129.0	6	MC36835
35.0	32.0	53.0	133.0	6	MC36935
36.0	32.0	53.0	133.0	6	MC36936
38.0	32.0	63.0	143.0	6	MC36938
40.0	25.0	63.0	139.0	6	MC36840
40.0	32.0	63.0	143.0	6	MC36940
45.0	32.0	63.0	143.0	7	MC36945
50.0	32.0	75.0	155.0	7	MC36950



Cobalt Threaded Shank Rip-R - MC37

Multi Flute Long Series - Roughing Cutter

- Cobalt
- Non-center Cutting
- Bright Finish (TiN and TiCN coatings available)
- Longer Overall Length / Length of Cut
- Truncated Knuckle Form reduces drag and friction
- Chip breaker cutting edge allows for heavier cuts and higher speeds / feeds

Multiple Cannelures Series Longue Roughing Cutter

- Cobalt
- Coupe non-centrale
- Coupe longue
- Finition brillante (revêtement TiN et TiCN disponible)
- La forme tronquée des articulations réduit la traînée et la friction
- Le tranchant brise-copeaux permet des coupes plus lourdes et des vitesses / avances plus élevées

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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FRACTIONAL/FRACTIONNEL

3/8	3/8	1-15/32	3-1/4	4	MC37024
1/2	1/2	1-15/16	3-3/4	4	MC37032
5/8	5/8	2-5/16	4-9/32	4	MC37040
3/4	5/8	3"	4-25/32	4	MC37048
7/8	1"	3-3/8	5-5/8	5	MC37056
1"	1"	3-15/16	6-3/16	5	MC37100
1-1/8	1"	3-7/8	6-3/16	5	MC37108
1-1/4	1"	3-15/16	6-1/4	5	MC37116
1-1/4	1-1/4	4"	6-7/16	5	MC37416
1-1/2	1-1/4	4"	6-7/16	6	MC37432
1-3/4	1-1/4	4"	6-7/16	6	MC37448
2"	1-1/4	4"	6-7/16	7	MC37500

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
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METRIC/METRIQUE

10.0	10.0	45.0	95.0	4	MC37600
12.0	12.0	53.0	110.0	4	MC37620
14.0	12.0	53.0	110.0	4	MC37640
16.0	16.0	63.0	123.0	4	MC37660
18.0	16.0	63.0	123.0	4	MC37680
20.0	16.0	75.0	135.0	4	MC37700
22.0	25.0	75.0	147.0	5	MC37720
25.0	25.0	90.0	166.0	5	MC37750
28.0	25.0	90.0	166.0	5	MC37780
30.0	25.0	90.0	166.0	5	MC37830
32.0	25.0	106.0	182.0	5	MC37832
32.0	32.0	106.0	186.0	5	MC37932
35.0	32.0	106.0	186.0	6	MC37935
36.0	32.0	106.0	186.0	6	MC37936
38.0	32.0	125.0	205.0	6	MC37938
40.0	32.0	125.0	205.0	6	MC37940
45.0	32.0	125.0	205.0	7	MC37945
50.0	32.0	150.0	230.0	7	MC37950



Cobalt Threaded Shank Rip-R - MC39

Multi Flute Standard Length Fine Pitch Roughing Cutter

- Cobalt • Center Cutting
- Bright finish (TiN and TiCN coatings available)
- Truncated Knuckle Form reduces drag and friction
- Chip breaker cutting edge allows for heavier cuts and higher speeds / feeds
- Fine pitch produces a smoother finish that often eliminates the need for a finishing cut

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
6.0	6.0	13.0	57.0	3	MC39560
7.0	10.0	16.0	66.0	3	MC39570
8.0	10.0	19.0	69.0	3	MC38580
9.0	10.0	19.0	69.0	4	MC39590
10.0	10.0	22.0	72.0	4	MC39100
12.0	12.0	26.0	83.0	4	MC39120
14.0	12.0	26.0	83.0	4	MC39140
16.0	16.0	32.0	92.0	4	MC39160
18.0	16.0	32.0	92.0	4	MC39180
20.0	16.0	38.0	98.0	4	MC39200

Multiple Cannelures Longueur Standard Fin Roughing Cutter

- Cobalt • Coupe centrale
- Finition brillante (revêtement TiN et TiCN disponible)
- La forme tronquée des articulations réduit la traînée et la friction
- Le tranchant brise-copeaux permet des coupes plus lourdes et des vitesses / avances plus élevées
- Le ptich fin produit une finition plus lisse qui élimine souvent le besoin d'une coupe de finition

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
22.0	25.0	38.0	110.0	4	MC39220
25.0	25.0	45.0	121.0	5	MC39250
28.0	25.0	45.0	121.0	5	MC39280
30.0	25.0	45.0	121.0	5	MC39300
32.0	32.0	53.0	133.0	5	MC39320
35.0	32.0	53.0	133.0	6	MC39350
40.0	32.0	63.0	143.0	6	MC39400
45.0	32.0	63.0	143.0	7	MC39450
50.0	32.0	75.0	155.0	7	MC39500



Cobalt Threaded Shank Rip-R - MC39

Multi Flute Long Series Fine Pitch Roughing Cutter

- Cobalt • Center Cutting
- Bright finish (TiN and TiCN coatings available)
- Longer Overall Length / Length of Cut
- Truncated Knuckle Form reduces drag and friction
- Chip breaker cutting edge allows for heavier cuts and higher speeds / feeds
- Fine pitch produces a smoother finish that often eliminates the need for a finishing cut

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
8.0	10.0	38.0	88.0	3	MC39680
10.0	10.0	45.0	95.0	4	MC39700
12.0	12.0	53.0	110.0	4	MC39720
14.0	12.0	53.0	110.0	4	MC39740
16.0	16.0	63.0	123.0	4	MC39760
18.0	16.0	63.0	123.0	4	MC39780

Multiple Cannelures Serie Longue Fin Roughing Cutter

- Cobalt • Coupe centrale
- Coupe longue
- Finition brillante (revêtement TiN et TiCN disponible)
- La forme tronquée des articulations réduit la traînée et la friction
- Le tranchant brise-copeaux permet des coupes plus lourdes et des vitesses / avances plus élevées
- Le ptich fin produit une finition plus lisse qui élimine souvent le besoin d'une coupe de finition

DIA DIM	SHANK QUEUE	LOC LG FR	LENGTH LONGEUR	FLUTES CANN	BRIGHT CODE
20.0	16.0	75.0	135.0	4	MC39800
22.0	25.0	75.0	147.0	5	MC39820
25.0	25.0	90.0	166.0	5	MC39850
30.0	25.0	90.0	166.0	5	MC39900
32.0	32.0	106.0	186.0	5	MC39920

Countersinks, Counterbores & Milling Cutters

Fraises à lamer, Fraises coniques & Fraise à fileter



Countersinks – SC08 • 09 • 10

Solid Carbide Countersinks

- Premium Submicron Grain Carbide
- Bright Finish
- Available in 1, 3, & 6 flute styles
- Available in 60°, 82° & 90° angles
- For countersinking, chamfering, and deburring holes

Fraises Coniques – En Carbure

- Carbure de grain submicronique de qualité supérieure
- Finition brillante
- Disponible en 1, 3 et 6 styles de flûte
- Disponible dans des angles de 60 °, 82 ° et 90 °
- Pour fraiser, chanfreiner et ébavurer des trous

DIA	ANGLE	SHANK QUEUE	LENGTH LONGEUR	1 FLUTE 1 DENT	3 FLUTE 3 DENT	6 FLUTE 6 DENT
1/8	90°	1/8	1-1/2	SC08125	SC09125	SC10125
1/8	82°	1/8	1-1/2	SC08126	SC09126	SC10126
1/8	60°	1/8	1-1/2	SC08127	SC09127	SC10127
3/16	90°	3/16	2"	SC08187	SC09187	SC10187
3/16	82°	3/16	2"	SC08188	SC09188	SC10188
3/16	60°	3/16	2"	SC08189	SC09189	SC10189
1/4	90°	1/4	2"	SC08250	SC09250	SC10250
1/4	82°	1/4	2"	SC08251	SC09251	SC10251
1/4	60°	1/4	2"	SC08252	SC09252	SC10252
3/8	90°	1/4	2-13/16	SC08375	SC09375	SC10375
3/8	82°	1/4	2-13/16	SC08376	SC09376	SC10376
3/8	60°	1/4	2-13/16	SC08377	SC09377	SC10377
1/2	90°	1/4	2-7/8	SC08500	SC09500	SC10500
1/2	82°	1/4	2-7/8	SC08501	SC09501	SC10501
1/2	60°	1/4	2-7/8	SC08502	SC09502	SC10502
5/8	90°	3/8	3"	SC08625	SC09625	SC10625
5/8	82°	3/8	3"	SC08626	SC09626	SC10626
5/8	60°	3/8	3"	SC08627	SC09627	SC10627
3/4	90°	1/2	3"	SC08750	SC09750	SC10750
3/4	82°	1/2	3"	SC08751	SC09751	SC10751
3/4	60°	1/2	3"	SC08752	SC09752	SC10752
1"	90°	1/2	3-1/4	SC08900	SC09900	SC10900
1"	82°	1/2	3-1/4	SC08901	SC09901	SC10901
1"	60°	1/2	3-1/4	SC08902	SC09902	SC10902



Countersinks – ZD63 • 64 • 65

Hyper Countersink – HSS – 1 Flute

- HSS
- For Chamfering, deburring, and countersinking
- Can also be used to enlarge holes in sheet metal

Fraises Conquie – Une Dent

- HSS
- Pour chanfreiner, ébavurer et fraiser
- Peut également être utilisé pour agrandir les trous dans les feuilles de métal

DIA	DEC	SHANK	OA	PKG	60°	82°	90°	100°
1/8	0.1250	1/8	1-1/4	1	ZD63008	ZD64008	ZD65008	ZD63308
3/16	0.1875	3/16	1-1/2	1	ZD63012	ZD64012	ZD65012	ZD63312
1/4	0.2500	1/4	2"	1	ZD63016	ZD64016	ZD65016	ZD63316
5/16	0.3125	1/4	2"	1	ZD63020	ZD64020	ZD65020	ZD63320
3/8	0.3750	1/4	2"	1	ZD63024	ZD64024	ZD65024	ZD63324
1/2	0.5000	1/4	2"	1	ZD63032	ZD64032	ZD65032	ZD63332
5/8	0.6250	1/2	2-1/2	1	ZD63040	ZD64040	ZD65040	ZD63340
3/4	0.7500	1/2	2-3/4	1	ZD63048	ZD64048	ZD65048	ZD63348
7/8	0.8750	1/2	2-3/4	1	ZD63056	ZD64056	ZD65056	ZD63356
1"	1.0000	1/2	2-3/4	1	ZD63100	ZD64100	ZD65100	ZD63400
1-1/4	1.2500	3/4	3"	1	ZD63116	ZD64116	ZD65116	ZD63416
1-1/2	1.5000	3/4	3-3/8	1	ZD63132	ZD64132	ZD65132	ZD63432
1-3/4	1.7500	3/4	3"	1	ZD63148	ZD64148	ZD65148	ZD63448
2"	2.0000	3/4	3-3/4	1	ZD63200	ZD64200	ZD65200	ZD63500



Countersinks – ZD66 • 67 • 68

Hyper Countersink – HSS – 3 Flute

- HSS
- For Chamfering, deburring, and countersinking
- Designed for a more chatter-free performance
- 3 flutes allow higher feed rates than single flute and greater chip clearance than 6 flute

Fraises Conquie – 3 Dent

- HSS
- Pour chanfreiner, ébavurer et fraiser
- Conçu pour une performance accrue sans vibration
- 3 cannelures permettent des vitesses d'alimentation plus élevées que les cannelures simples et un dégagement de copeaux supérieur à 6 cannelures

DIA	DEC	SHANK	OA	PKG	60°	82°	90°	100°
1/4	0.2500	1/4	2"	1	ZD66016	ZD67016	ZD68016	ZD66316
3/8	0.3750	1/4	2"	1	ZD66024	ZD67024	ZD68024	ZD66324
1/2	0.5000	1/4	2"	1	ZD66032	ZD67032	ZD68032	ZD66332
5/8	0.6250	1/2	2-1/2	1	ZD66040	ZD67040	ZD68040	ZD66340
3/4	0.7500	1/2	2-3/4	1	ZD66048	ZD67048	ZD68048	ZD66348
1"	1.0000	1/2	2-3/4	1	ZD66100	ZD67100	ZD68100	ZD66400
1-1/4	1.2500	3/4	3"	1	ZD66116	ZD67116	ZD68116	-
1-1/2	1.5000	3/4	3-3/8	1	ZD66132	ZD67132	ZD68132	-
2"	2.0000	3/4	3-3/4	1	ZD66200	ZD67200	ZD68200	-



Countersinks – ZD73 • 74 • 75

Hyper Countersink – HSS – 4 Flute

- HSS
- For Chamfering, deburring, and countersinking
- Designed for a more chatter-free performance
- 4 flutes allow higher feed rates than single flute and greater chip clearance than 6 flute

Fraises Conquie – 4 Dent

- HSS
- Pour chanfreiner, ébavurer et fraiser
- Conçu pour une performance sans vibration
- 4 cannelures permettent des avances plus élevées que les cannelures simples et un dégagement de copeaux supérieur à 6 cannelures

DIA	DEC	SHANK	OA	PKG	60°	82°	90°
1/2	0.5000	1/2	3-7/8	1	ZD73032	ZD74032	ZD75032
5/8	0.6250	1/2	4"	1	ZD73040	ZD74040	ZD75040
3/4	0.7500	1/2	4-1/8	1	ZD73048	ZD74048	ZD75048
7/8	0.8750	1/2	4-1/4	1	ZD73056	ZD74056	ZD75056
1"	1.0000	1/2	4-1/7	1	ZD73100	ZD74100	ZD75100
1-1/4	1.2500	1/2	4-3/8	1	ZD73116	ZD74116	ZD75116
1-1/2	1.5000	1/2	4-1/2	1	ZD73132	ZD74132	ZD75132



Countersinks – ZD69 • 70 • 71 • 72

Hyper Countersink – HSS – 6 Flute

- HSS
- For Chamfering, deburring, and countersinking
- 6 flute geometry to reduce chatter and a fast shearing cut
- Longer tool life due to distributing the cutting load over 6 teeth

Fraises Conquie – 6 Dent

- HSS
- Pour chanfreiner, ébavurer et fraiser
- Géométrie à 6 flûtes pour une coupe rapide et réduire les vibrations
- Durée de vie plus longue de l'outil grâce à la répartition de la charge de coupe sur 6 dents

DIA	DEC	SHANK	OA	PKG	60°	82°	90°	100°
3/16	0.1875	1/4	2"	1	ZD69012	ZD70012	ZD71012	ZD72012
1/4	0.2500	1/4	2"	1	ZD69016	ZD70016	ZD71016	ZD72016
5/16	0.3125	1/4	2"	1	ZD69020	ZD70020	ZD71020	ZD72020
3/8	0.3750	1/4	2"	1	ZD69024	ZD70024	ZD71024	ZD72024
1/2	0.5000	1/4	2"	1	ZD69032	ZD70032	ZD71032	ZD72032
5/8	0.6250	1/2	2-1/2	1	ZD69040	ZD70040	ZD71040	ZD72040
3/4	0.7500	1/2	2-3/4	1	ZD69048	ZD70048	ZD71048	ZD72048
7/8	0.8750	1/2	2-3/4	1	ZD69056	ZD70056	ZD71056	ZD72056
1"	1.0000	1/2	2-3/4	1	ZD69100	ZD70100	ZD71100	ZD72100
1-1/4	1.2500	3/4	3-3/8	1	ZD69116	ZD70116	ZD71116	ZD72116
1-1/2	1.5000	3/4	3-1/2	1	ZD69132	ZD70132	ZD71132	ZD72132
1-3/4	2.0000	1"	4-1/4	1	ZD69148	ZD70148	ZD71148	-
2"	2.0000	1"	4-3/8	1	ZD69200	ZD70200	ZD71200	-



Weldon Countersinks & Deburring Tools – CW86 • 87

Weldon Countersinks & Deburring Tools

- HSS
- Free-Cutting
- Chatterless Finish
- Weldon high-speed steel countersinks and deburring tools are known for their unique designs and their ability to cut a wide range of materials
- This unique tool is free cutting and chatterless leaving a smooth finish. Tools are stock for 60, 82, 90 and 100 degree cutting.

Fraises et outils d'ébavurage Weldon

- HSS
- Coupe libre
- Finition sans bavardage
- Les fraises et outils d'ébavurage en acier rapide Weldon sont connus pour leurs conceptions uniques et leur capacité à couper une large gamme de matériaux
- Cet outil unique est une coupe libre et sans bavardage, laissant une finition lisse. Les outils sont en stock pour les coupes à 60, 82, 90 et 100 degrés.

CODE	NO.	ANGLE	STYLE	DIA CUT	SHK DIA	OAL	A	D	E	F
CW86006	DC-6	60°	3	3/32 – 11/64	3/16	1-1/2				
CW86008	DC-8	60°	3	1/8 – 15/64	1/4	1-3/4				
CW86014	DC-14	60°	1	3/16 – 13/32	1/4	1-3/4		7/16	7/8	
CW86018	DC-18	60°	1	5/16 – 17/32	1/4	1-15/16		9/16	1-1/16	
CW86026	DC-26	60°	1	7/16 – 25/32	1/2	2-11/16		13/16	1-7/16	
CW86027	DC-26A	60°	1	7/16 – 25/32	1/4	2-1/8		13/16	1-1/4	
CW86036	DC-36	60°	1	11/16 – 1-3/32	1/2	2-7/8		1-1/8	1-5/8	
CW86204	DB-4	90°	3	1/64 – 11/64	3/16	1-1/2				
CW86206	DB-6	90°	3	1/16 – 11/64	3/16	1-1/2				
CW86208	DB-8	90°	3	1/8 – 15/64	1/4	1-3/4				
CW86214	DB-14	90°	1	5/32 – 13/32	1/4	1-11/16		7/16	13/16	
CW86218	DB-18	90°	1	3/16 – 17/32	1/4	1-7/8		9/16	1"	
CW86226	DB-26	90°	1	5/16 – 25/32	1/2	2-19/32		13/16	1-3/8	
CW86227	DB-26A	90°	1	5/16 – 25/32	1/4	2-1/32		13/16	1-5/32	
CW86236	DB-36	90°	1	9/16 – 1-3/32	1/2	2-13/16		1-1/8	1-9/16	
CW86248	DB-48	90°	1	1/2 – 1-15/32	1/2	3-1/2		1-1/2	2-1/8	
CW86264	DB-64	90°	4	1-1/16 – 2"				2-1/8	7/8	
CW86296	DB-96	90°	4	2" – 3"				3-1/8	1"	
CW87081	CS8-1	82°	2	1/4 SCREW	3/8	2"	1/4	33/64	1"	5/32
CW87082	CS8-2	82°	2	1/4 SCREW	3/8	2"	17/64	33/64	1"	5/32
CW87101	CS10-1	82°	2	5/16 SCREW	3/8	2-3/16	5/16	41/64	1-3/16	5/32
CW87102	CS10-2	82°	2	5/16 SCREW	3/8	2-3/16	21/64	41/64	1-3/16	5/32
CW87121	CS12-1	82°	2	3/8 SCREW	1/2	2-5/8	3/8	49/64	1-3/8	5/32
CW87122	CS12-2	82°	2	3/8 SCREW	1/2	2-5/8	25/64	49/64	1-3/8	5/32
CW87141	CS14-1	82°	2	7/16 SCREW	1/2	2-3/4	7/16	53/64	1-1/2	7/32
CW87142	CS14-2	82°	2	7/16 SCREW	1/2	2-3/4	29/64	53/64	1-1/2	7/32
CW87161	CS16-1	82°	2	1/2 SCREW	1/2	2-13/16	1/2	15/16	1-9/16	1/4
CW87162	CS16-2	82°	2	1/2 SCREW	1/2	2-13/16	33/64	15/16	1-9/16	1/4
CW87303	CS-3S	82°	3	5/64 – 15/64	1/4	1-3/4				
CW87318	CS-18	82°	1	3/16 – 17/32	1/4	1-7/8		9/16	1"	
CW87326	CS-26	82°	1	5/16 – 25/32	1/2	2-5/8		13/16	1-3/8	
CW87327	CS26A	82°	1	5/16 – 25/32	1/4	2-1/16		13/16	1-1/4	
CW87336	CS-36	82°	1	7/16 – 7/8	1/2	2-13/16		1-1/8	1-9/16	
CW87348	CS-48	82°	1	1/2 – 1-15/32	1/2	3-1/2		1-1/2	2-1/8	
CW87385	CS-5S	82°	1	#4 #5 SCREW	1/4	1-1/2		17/64	5/8	
CW87386	CS-6S	82°	1	#6 SCREW	1/4	1-1/2		19/64	5/8	

Continued



Weldon Countersink – CW86 • 87

CODE	NO.	ANGLE	STYLE	DIA CUT	SHK DIA	OA LG	A	D	E	F
CW87388	CS-8S	82°	1	#8 SCREW	1/4	1-5/8		11/32	3/4	
CW87390	CS-10S	82°	1	#10 SCREW	1/4	1-5/8		25/64	3/4	
CW87408	CSA-8	100°	1	3/32 – 1/4	1/4	1-1/2		17/64	5/8	
CW87414	CSA-14	100°	1	1/8 – 27/64	1/4	1-11/16		7/16	13/16	
CW87418	CSA-18	100°	1	3/16 – 35/64	1/4	1-7/8		9/16	1"	



Weldon Countersink Sets

CODE	NO.	ANGLE	CONTAINS
CW86196	60DB	60°	DC-6 DC-8 DC-14 DC18 DC-26 DC36
CW86199	90DB	90°	DB-6 DB-8 DB-14 DB-18 DB-26 DB-36
CW87921	1C	82°	CS-5S CS-6S CS-8S CS-10S CS8-1 CS10-1 CS12-1 CS14-1 CS16-1
CW87924	WC	82°	CS-5S CS-6S CS-8S CS-10S
CW87926	GC	82°	CS-6S CS-8S CS-10S CS-18
CW87928	WCG	82°	CS-5S CS-6S CS-8S CS-10S CS-18



Weldon Tu-Lip Counterbore – CW90 • 91

Weldon TU-LIP Counterbores

- HSS
- Free-Cutting
- Offerings in Short and Long Series for Reach
- 2 Flutes for Better Chip Evacuation
- Weldon Tu-Lip Counterbores are extremely free cutting. Generous chip room in the flutes minimizes breakage caused by clogging.
- Solid pilots without grooves will not ream or mar holes
- Available with Straight Shank or Morse Taper Shank for larger diameters

Contre-alésages Weldon Tu-Lip

- HSS
- Coupe libre
- Offres en séries courtes et longues pour Reach 2
- 2 flûtes pour une meilleure évacuation des copeaux
- Les contre-alésages Weldon Tu-Lip permettent une coupe extrêmement libre. Place pour copeaux généreuse dans les cannelures minimise les cassures causées par le colmatage.
- Les pilotes solides sans rainures n'alésent pas ou ne marqueront pas les trous
- Disponible avec tige droite ou tige conique Morse pour des diamètres plus grands

CODE	NO.	PILOT X DIA	SCREW	SHK CUT	OA L
CW90041	LGN4-1	.110 X .199	#4	5/32	2-1/2
CW90042	LGN4-2	.125 X .199	#4	5/32	2-1/2
CW90061	LGN6-1	.136 X .242	#6	3/16	2-1/2
CW90062	LGN6-2	.150 X .242	#6	3/16	2-1/2
CW90081	LGN8-1	.162 X .290	#8	3/16	2-1/2
CW90082	LGN8-2	.178 X .290	#8	3/16	2-1/2
CW90101	LGN10-1	.188 X .332	#10	3/16	2-3/4
CW90102	LGN10-2	.204 X .332	#10	3/16	2-3/4
CW90281	LGS8-1	1/4 X 13/32	1/4	1/4	3-1/2
CW90282	LGS8-2	17/64 X 13/32	1/4	1/4	3-1/2



Weldon Tu-Lip Counterbore – CW90 • 91

CODE	NO.	PILOT X DIA	SCREW	SHK CUT	OA L
CW90283	LGS8-3	9/32 X 13/32	1/4	1/4	3-1/2
CW90301	LGS10-1	5/16 X 1/2	5/16	5/16	3-3/4
CW90302	LGS10-2	21/64 X 1/2	5/16	5/16	3-3/4
CW90303	LGS10-3	11/32 X 1/2	5/16	5/16	3-3/4
CW90321	LGS12-1	3/8 X 19/32	3/8	3/8	4"
CW90322	LGS12-2	25/64 X 19/32	3/8	3/8	4"
CW90323	LGS12-3	13/32 X 19/32	3/8	3/8	4"
CW90341	LGS14-1	7/16 X 11/16	7/16	7/16	4-1/2
CW90342	LGS14-2	29/64 X 11/16	7/16	7/16	4-1/2
CW90343	LGS14-3	15/32 X 11/16	7/16	7/16	4-1/2
CW90361	LGS16-1	1/2 X 25/32	1/2	1/2	5"
CW90362	LGS16-2	33/64 X 25/32	1/2	1/2	5"
CW90363	LGS16-3	17/32 X 25/32	1/2	1/2	5"
CW90481	LGL8-1	1/4 X 13/32	1/4	3/8	5-1/2
CW90482	LGL8-2	17/64 X 13/32	1/4	3/8	5-1/2
CW90483	LGL8-3	9/32 X 13/32	1/4	3/8	5-1/2
CW90501	LGL10-1	5/16 X 1/2	5/16	3/8	6"
CW90502	LGL10-2	21/64 X 1/2	5/16	3/8	6"
CW90503	LGL10-3	11/32 X 1/2	5/16	3/8	6"
CW90521	LGL12-1	3/8 X 19/32	3/8	1/2	6-1/2
CW90522	LGL12-2	25/64 X 19/32	3/8	1/2	6-1/2
CW90523	LGL12-3	13/32 X 19/32	3/8	1/2	6-1/2
CW90541	LGL14-1	7/16 X 11/16	7/16	1/2	6-3/4
CW90542	LGL14-2	29/64 X 11/16	7/16	1/2	6-3/4
CW90543	LGL14-3	15/32 X 11/16	7/16	1/2	6-3/4
CW90561	LGL16-1	1/2 X 25/32	1/2	1/2	7"
CW90562	LGL16-2	33/64 X 25/32	1/2	1/2	7"
CW90563	LGL16-3	17/32 X 25/32	1/2	1/2	7"
CW90581	LGT18-1	9/16 X 7/8	9/16	#2MTS	7-1/4
CW90582	LGT18-2	37/64 X 7/8	9/16	#2MTS	7-1/4
CW90583	LGT18-3	19/32 X 7/8	9/16	#2MTS	7-1/4
CW91201	LGT20-1	5/8 X 1"	5/8	#2MTS	7-1/2
CW91202	LGT20-2	41/64 X 1"	5/8	#2MTS	7-1/2
CW91203	LGT20-3	21/32 X 1"	5/8	#2MTS	7-1/2
CW91241	LGT24-1	3/4 X 1-3/16	3/4	#2MTS	8-1/2
CW91242	LGT24-2	49/64 X 1-3/16	3/4	#2MTS	8-1/2
CW91243	LGT24-3	25/32 X 1-3/16	3/4	#2MTS	8-1/2
CW91281	LGT28-1	7/8 X 1-3/8	7/8	#3MTS	9-1/2
CW91282	LGT28-2	57/64 X 1-3/8	7/8	#3MTS	9-1/2
CW91283	LGT28-3	29/32 X 1-3/8	7/8	#3MTS	9-1/2
CW91321	LGT32-1	1" X 1-9/16	1"	#3MTS	10-1/2
CW91322	LGT32-2	1-1/64 X 1-9/16	1"	#3MTS	10-1/2
CW91323	LGT32-3	1-1/32 X 1-9/16	1"	#3MTS	10-1/2



Counterbore – MC27

Threaded Shank Two Flute Counterbore

- HSS
- Used to enlarge the opening of a hole to allow room for the head of a fastener

Fraises A Chambrer

- HSS
- Permet d'agrandir l'ouverture d'un trou pour laisser de la place à la tête d'une attache

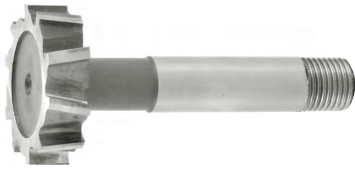
BOLT BOULON	DIA	PILOT DIA	SHANK QUEUE	PILOT LG	CUT LG LG FR	LENGTH LONGEUR	CODE
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FRACTIONAL – FRACTIONNEL

2BA	0.344	0.200	1/4	7/32	1/2	2-1/2	MC27002
4BA	0.251	0.156	1/4	7/32	7/16	2-1/2	MC27004
1/4	13/32	9/32	1/4	5/16	1/2	3"	MC27016
5/16	15/32	11/32	3/8	3/8	5/8	3-1/4	MC27020
3/8	19/32	13/32	3/8	7/16	3/4	3-1/2	MC27024
7/16	21/32	15/32	1/2	17/32	7/8	4"	MC27028
1/2	25/32	17/32	1/2	17/32	1"	4-1/4	MC27032
9/16	27/32	19/32	5/8	19/32	1-1/8	4-17/32	MC27036
5/8	29/32	21/32	5/8	21/32	1-1/4	4-25/32	MC27040
3/4	1-1/32	25/32	1"	25/32	1-1/2	5-7/16	MC27048
7/8	1-5/32	29/32	1"	29/32	1-3/4	5-15/16	MC27056
1"	1-11/32	1-1/32	1"	1-1/32	2"	6-7/16	MC27100

METRIC – METRIQUE

M4	8.0	4.3	6.0	5.5	12.5	65.0	MC27504
M5	10.0	5.3	6.0	6.5	12.5	70.0	MC27505
M6	11.0	6.4	6.0	8.0	12.5	76.0	MC27506
M8	15.0	8.4	10.0	9.5	19.0	87.3	MC27508
M10	18.0	10.5	10.0	11.0	19.0	89.0	MC27510
M12	20.0	13.0	12.0	13.5	25.5	108.0	MC27512
M14	24.0	15.0	16.0	16.5	31.5	121.0	MC27514
M16	26.0	17.0	16.0	19.0	38.0	124.0	MC27516
M18	30.0	19.0	25.0	19.0	44.5	147.0	MC27518
M20	33.0	21.0	25.0	21.5	44.5	149.0	MC27520



Woodruff Cutter – MC13

Threaded Shank Woodruff Cutter – Fractional

- HSS
- Staggered tooth design
- For cutting keyways and key seats in steel and other easy to machine ferrous materials

Fraises Type Woodruff Osborn – Fractionnel

- HSS
- Conception de dents décalée
- Pour couper les rainures de clavette et les sièges de clé en acier et autres matériaux ferreux faciles à usiner

NO	DIA	WIDTH/LG FR	LENGTH/LONGEUR	SHANK/QUEUE	KEY/CLE	FLUTES/CANN	CODE
204	1/2	1/16	2-1/4	1/2	1	6	MC13004
304	1/2	3/32	2-1/4	1/2	2	6	MC13005
404	1/2	1/8	2-1/4	1/2	3	6	MC13006
305	5/8	3/32	2-1/4	1/2	4	6	MC13007
405	5/8	1/8	2-1/4	1/2	5	6	MC13008
505	5/8	5/32	2-1/4	1/2	6	6	MC13009
406	3/4	1/8	2-1/4	1/2	7	6	MC13011
506	3/4	5/32	2-1/4	1/2	8	6	MC13012
606	3/4	3/16	2-1/4	1/2	9	6	MC13013
507	7/8	5/32	2-1/2	1/2	10	8	MC13014
607	7/8	3/16	2-1/2	1/2	11	8	MC13015
707	7/8	7/32	2-1/2	1/2	12	8	MC13016
807	7/8	1/4	2-1/2	1/2	A	8	MC13017
608	1"	3/16	2-3/4	1/2	13	8	MC13018
708	1"	7/32	2-3/4	1/2	14	8	MC13019
808	1"	1/4	2-3/4	1/2	15	8	MC13020
1008	1"	5/16	2-3/4	1/2	B	8	MC13021
609	1-1/8	3/16	2-3/4	1/2	16	8	MC13022
709	1-1/8	7/32	2-3/4	1/2	17	8	MC13023
809	1-1/8	1/4	2-3/4	1/2	18	8	MC13024
1009	1-1/8	5/16	2-3/4	1/2	C	8	MC13025
610	1-1/4	3/16	2-3/4	1/2	19	10	MC13026
710	1-1/4	7/32	2-3/4	1/2	20	10	MC13027
810	1-1/4	1/4	2-3/4	1/2	21	10	MC13028
1010	1-1/4	5/16	2-3/4	1/2	D	10	MC13029
1210	1-1/4	3/8	2-3/4	1/2	E	10	MC13030
811	1-3/8	1/4	3"	1/2	22	10	MC13031
1011	1-3/8	5/16	3"	1/2	23	10	MC13032
1211	1-3/8	3/8	3"	1/2	F	10	MC13033
812	1-1/2	1/4	3"	1/2	24	10	MC13034
1012	1-1/2	5/16	3"	1/2	25	10	MC13035
1212	1-1/2	3/8	3"	1/2	G	10	MC13036

Continued



Woodruff Cutter – MC13

Threaded Shank Woodruff Cutter – Metric

- HSS
- Staggered tooth design
- For cutting keyways and key seats in steel and other easy to machine ferrous materials

Fraises Type Woodruff Osborn – Metrique

- HSS
- Conception de dents décalée
- Pour couper les rainures de clavette et les sièges de clé en acier et autres matériaux ferreux faciles à usiner

NO	DIA	WIDTH/LG FR	LENGTH/LONGEUR	SHANK/QUEUE	KEY/CLE	FLUTES/CANN	CODE
10.5X2.0	10.5	2.0	57.0	12.0	2X3.7	6	MC13102
10.5X3.0	10.5	3.0	57.0	12.0	3X3.7	6	MC13103
10.5X2.5	10.5	2.5	57.0	12.0	2.5X3.7	6	MC13104
13.5X2.0	13.5	2.0	57.0	12.0	2X5	6	MC13132
13.5X3.0	13.5	3.0	57.0	12.0	3X5	6	MC13133
13.5X4.0	13.5	4.0	57.0	12.0	4X5	6	MC13134
13.5X2.5	13.5	2.5	57.0	12.0	2.5X5	6	MC13135
16.5X2.5	16.5	2.5	57.0	12.0	2.5X6.5	6	MC13162
16.5X3.0	16.5	3.0	57.0	12.0	3X6.5	6	MC13163
16.5X4.0	16.5	4.0	57.0	12.0	4X6.5	6	MC13164
16.5X5.0	16.5	5.0	57.0	12.0	5X6.5	6	MC13165
19.5X3.0	19.5	3.0	57.0	12.0	3X7.5	6	MC13193
19.5X4.0	19.5	4.0	57.0	12.0	4X7.5	6	MC13194
19.5X5.0	19.5	5.0	57.0	12.0	5X7.5	6	MC13195
19.5X6.0	19.5	6.0	57.0	12.0	6X7.5	6	MC13196
22.5X4.0	22.5	4.0	63.5	12.0	4X9	8	MC13224
22.5X5.0	22.5	5.0	63.5	12.0	5X9	8	MC13225
22.5X6.0	22.5	6.0	63.5	12.0	6X9	8	MC13226
25.5X5.0	25.5	5.0	70.0	12.0	5X10	8	MC13255
25.5X6.0	25.5	6.0	70.0	12.0	6X10	8	MC13256
25.5X7.0	25.5	7.0	70.0	12.0	7X10	8	MC13257
25.5X8.0	25.5	8.0	70.0	12.0	8X10	8	MC13258
28.5X5.0	28.5	5.0	70.0	12.0	5X11	8	MC13285
28.5X6.0	28.5	6.0	70.0	12.0	6X11	8	MC13286
28.5X7.0	28.5	7.0	70.0	12.0	7X11	8	MC13287
28.5X8.0	28.5	8.0	70.0	12.0	8X11	8	MC13288
28.5X10.0	28.5	10.0	70.0	12.0	10X11	8	MC13290
32.5X5.0	32.5	5.0	70.0	12.0	5X13	10	MC13325
32.5X6.0	32.5	6.0	70.0	12.0	6X13	10	MC13326
32.5X7.0	32.5	7.0	70.0	12.0	7X13	10	MC13327
32.5X8.0	32.5	8.0	70.0	12.0	8X13	10	MC13328
32.5X10.0	32.5	10.0	70.0	12.0	10X13	10	MC13330
35.5X6.0	35.5	6.0	76.0	12.0	6X14	10	MC13356
35.5X7.0	35.5	7.0	76.0	12.0	7X14	10	MC13357
35.5X8.0	35.5	8.0	76.0	12.0	8X14	10	MC13358
35.5X9.0	35.5	9.0	76.0	12.0	9X14	10	MC13359
38.5X7.0	38.5	7.0	76.0	12.0	7X15	10	MC13387
38.5X8.0	38.5	8.0	76.0	12.0	8X15	10	MC13388
38.5X9.0	38.5	9.0	76.0	12.0	9X15	10	MC13389
38.5X10.0	38.5	10.0	76.0	12.0	10X15	10	MC13390
45.5X10.0	45.5	10.0	76.0	12.0	10X16	12	MC13450



T-Slot Cutter – MC09

Threaded Shank T-Slot Cutter

- HSS
- For milling t-slots in tables and beds of machine tools

Fraises A Rainurer En "T" Osborn

- HSS
- Pour le fraisage de rainures en T dans des tables et des bancs de machines-outils

BOLT BOULON	DIA	WIDTH LG FR	LENGTH LONGEUR	NECK DIA DE COU	SHANK QUEUE	FLUTES CANN	CODE
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FRACTIONAL – FRACTIONNEL

1/4	37/64	1/4	2-13/32	1/4	1/2	6	MC09016
5/16	45/64	5/16	2-19/32	5/16	1/2	6	MC09020
3/8	53/64	23/64	2-23/32	3/8	1/2	6	MC09024
7/16	61/64	27/64	2-59/64	13/32	1/2	6	MC09028
1/2	1-5/64	15/32	3-1/32	1/2	1/2	6	MC09032
5/8	1-21/64	37/64	3-15/16	19/32	1"	8	MC09040
3/4	1-33/64	11/16	4-1/16	23/32	1"	8	MC09048
7/8	1-45/64	51/64	4-9/16	27/32	1"	8	MC09056
1"	1-61/64	29/32	4-59/64	31/32	1"	8	MC09100

METRIC – METRIQUE

M6	12.5	8.0	55.0	5.0	10.0	6	MC09506
M8	16.0	8.0	60.0	7.0	10.0	6	MC09508
M10	19.0	9.0	64.0	8.0	12.0	6	MC09510
M12	22.0	10.0	68.0	10.0	12.0	6	MC09512
M14	25.0	11.0	71.0	12.0	16.0	6	MC09514
M16	28.0	12.0	75.0	13.0	16.0	8	MC09516
M18	32.0	14.0	95.01	5.0	25.0	8	MC09518
M20	36.0	16.0	100.0	17.0	25.0	8	MC09520
M22	40.0	18.0	105.0	19.0	25.0	8	MC09522
M24	45.0	20.0	122.0	21.0	25.0	8	MC09524
M28	50.0	22.0	124.0	25.0	32.0	8	MC09528
M36	60.0	28.0	138.0	30.0	32.0	8	MC09536



Dovetail Cutter

MC10 · MC11 · MC12

Threaded Shank Dovetail Cutter

- HSS
- Dovetail cutters are designed for cutting dovetails in a wide variety of materials. Can also be used for chamfering or milling angles on bottom surface of part.

Fraises En Forme De Queue D'Aronde

- HSS
- Les fraises à queue d'aronde sont conçues pour couper les queues d'aronde dans une grande variété de matériaux. Peut également être utilisé pour chanfreiner ou fraiser des angles sur la surface inférieure d'une pièce.

DIA	ANG	LOC/LG FR	LENGTH/LONGEUR	SHANK/QUEUE	TEETH/DENTS	CODE
FRACTIONAL STANDARD 60° – FRACTIONNEL NORMALE 60°						
1/2	60°	5/32	2-1/2	1/2	6	MC10032
5/8	60°	7/32	2-5/8	1/2	6	MC10040
3/4	60°	9/32	2-21/32	1/2	6	MC10048
7/8	60°	3/8	2-21/32	1/2	6	MC10056
1"	60°	15/32	2-3/4	1/2	6	MC10100
1-1/8	60°	1/2	2-7/8	5/8	6	MC10108
1-1/4	60°	17/32	2-15/16	5/8	8	MC10116
1-1/2	60°	5/8	3-5/16	1"	8	MC10132
FRACTIONAL STANDARD 55° – FRACTIONNEL NORMALE 55°						
1"	55°	15/32	2-3/4	1/2	6	MC11100
1-1/2	55°	19/32	3-5/16	1"	8	MC11132
FRACTIONAL STANDARD 45° – FRACTIONNEL NORMALE 45°						
5/8	45°	5/32	2-5/8	1/2	6	MC12040
3/4	45°	7/32	2-5/8	1/2	6	MC12048
7/8	45°	1/4	2-11/16	1/2	6	MC12056
1"	45°	5/16	2-3/4	1/2	6	MC12100
1-1/4	45°	11/32	2-15/16	5/8	8	MC12116
1-1/2	45°	13/32	3-3/32	1"	8	MC12132
FRACTIONAL INVERTED 60° – FRACTIONNEL INVERSÉE 60°						
1"	60°	15/32	2-3/4	1/2	6	MC10600
1-1/2	60°	5/8	3-5/16	1"	8	MC10632
FRACTIONAL INVERTED 45° – FRACTIONNEL INVERSÉE 45°						
1"	45°	5/16	2-3/4	1/2	6	MC12600
1-1/2	45°	13/32	3-3/32	1"	8	MC12632



Dovetail Cutter

MC10 · MC11 · MC12

Threaded Shank Dovetail Cutter – Metric

- HSS
- Dovetail cutters are designed for cutting dovetails in a wide variety of materials. Can also be used for chamfering or milling angles on bottom surface of part.

DIA	ANG	LOC LG FR	LENGTH LONGEUR	SHANK QUEUE	TEETH DENTS	CODE
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METRIC STANDARD 60° – METRIQUE NORMALE 60°

13.0	60°	4.0	63.5	12.0	6	MC10713
16.0	60°	5.5	66.5	12.0	6	MC10716
19.0	60°	7.0	66.5	12.0	6	MC10719
22.0	60°	9.5	67.5	12.0	6	MC10722
25.0	60°	12.0	70.0	12.0	6	MC10725
28.0	60°	12.5	73.0	16.0	6	MC10728
32.0	60°	13.5	74.5	16.0	8	MC10732
35.0	60°	14.5	82.5	25.0	8	MC10735
38.0	60°	16.0	84.0	25.0	8	MC10738
50.0	60°	22.0	95.0	25.0	10	MC10750

METRIC STANDARD 45° – METRIQUE NORMALE 45°

13.0	45°	3.0	63.5	12.0	6	MC12713
16.0	45°	4.0	66.5	12.0	6	MC12716
19.0	45°	5.5	66.5	12.0	6	MC12719
22.0	45°	6.5	68.5	12.0	6	MC12722
25.0	45°	7.5	70.0	12.0	6	MC12725
28.0	45°	8.5	71.5	16.0	6	MC12728
32.0	45°	8.5	74.5	16.0	8	MC12732
35.0	45°	9.5	79.5	25.0	8	MC12735
38.0	45°	10.5	80.0	25.0	8	MC12738
50.0	45°	15.0	89.0	25.0	10	MC12750

Fraises En Forme De Queue D’Aronde Metrique

- HSS
- Les fraises à queue d’aronde sont conçues pour couper les queues d’aronde dans une grande variété de matériaux. Peut également être utilisé pour chanfreiner ou fraiser des angles sur la surface inférieure d’une pièce.

DIA	ANG	LOC LG FR	LENGTH LONGEUR	SHANK QUEUE	TEETH DENTS	CODE
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METRIC INVERTED 60° – METRIQUE INVERSÉE 60°

13.0	60°	4.0	63.5	12.0	6	MC10813
16.0	60°	5.5	66.5	12.0	6	MC10816
19.0	60°	7.0	66.5	12.0	6	MC10819
22.0	60°	9.5	68.5	12.0	6	MC10822
25.0	60°	12.0	70.0	12.0	6	MC10825
28.0	60°	12.5	71.5	16.0	6	MC10828
32.0	60°	13.5	74.5	16.0	8	MC10832
35.0	60°	14.5	84.0	25.0	8	MC10835
38.0	60°	16.0	85.5	25.0	8	MC10838
50.0	60°	21.0	92.5	25.0	10	MC10850

METRIC INTERVERTED 45° – METRIQUE INVERSÉE 45°

13.0	45°	3.0	63.5	12.0	6	MC12813
16.0	45°	4.0	66.5	12.0	6	MC12816
19.0	45°	5.5	66.5	12.0	6	MC12819
22.0	45°	6.5	68.5	12.0	6	MC12822
25.0	45°	7.5	70.0	12.0	6	MC12825
28.0	45°	8.5	71.5	16.0	6	MC12828
32.0	45°	8.5	74.5	16.0	8	MC12832
35.0	45°	9.5	79.5	25.0	8	MC12835
38.0	45°	10.5	80.0	25.0	8	MC12838
50.0	45°	21.0	90.5	25.0	10	MC12850



Corner Rounding Cutters MC15

Threaded Shank Corner Rounding Cutters

- HSS
- Four Flute
- Designed for milling rounded corners on various materials

Fraises 1/4 De Cercle – Acier Rapide

- HSS
- Quatre flûtes
- Conçu pour le fraisage des coins arrondis sur divers matériaux

RAD	DIA	SHANK/QUEUE	POINT DIA/DIA MIN	LENGTH/LONGEUR	TEETH/DENTS	CODE
FRACTIONAL – FRACTIONNEL						
1/16	3/8	1/4	1/2	2-3/8	4	MC15004
1/8	1/2	1/4	1/2	2-3/8	4	MC15008
3/16	5/8	1/4	5/8	2-3/8	4	MC15012
1/4	7/8	3/8	5/8	2-1/2	4	MC15016
5/16	1"	3/8	1"	2-7/8	4	MC15020
3/8	1-1/16	5/16	1"	3"	4	MC15024
7/16	1-3/16	5/16	1"	3-1/8	4	MC15028
1/2	1-3/8	3/8	1"	3-1/4	4	MC15032
METRIC – METRIQUE						
1.0	12.0	10.0	12.0	60.5	4	MC15510
1.5	12.0	9.0	12.0	60.5	4	MC15515
2.0	12.0	8.0	12.0	60.5	4	MC15520
2.5	12.0	7.0	12.0	60.5	4	MC15525
3.0	12.0	6.0	12.0	60.5	4	MC15530
3.5	13.0	6.0	12.0	60.5	4	MC15535
4.0	14.0	6.0	12.0	60.5	4	MC15540
4.5	16.0	7.0	16.0	60.5	4	MC15545
5.0	16.0	6.0	16.0	60.5	4	MC15550
6.0	22.0	10.0	16.0	63.5	4	MC15560
7.0	22.0	8.0	25.0	73.0	4	MC15570
8.0	25.0	9.0	25.0	73.0	4	MC15580
9.0	26.0	8.0	25.0	79.5	4	MC15590
10.0	28.0	8.0	25.0	79.5	4	MC15600
12.0	35.0	11.0	25.0	82.5	4	MC15620
14.0	42.0	14.0	25.0	85.5	4	MC15640
15.0	45.0	15.0	25.0	85.5	4	MC15650
16.0	48.0	16.0	25.0	87.5	4	MC15660
18.0	48.5	12.5	25.0	92.0	4	MC15680
20.0	52.5	13.0	25.0	92.0	4	MC15700

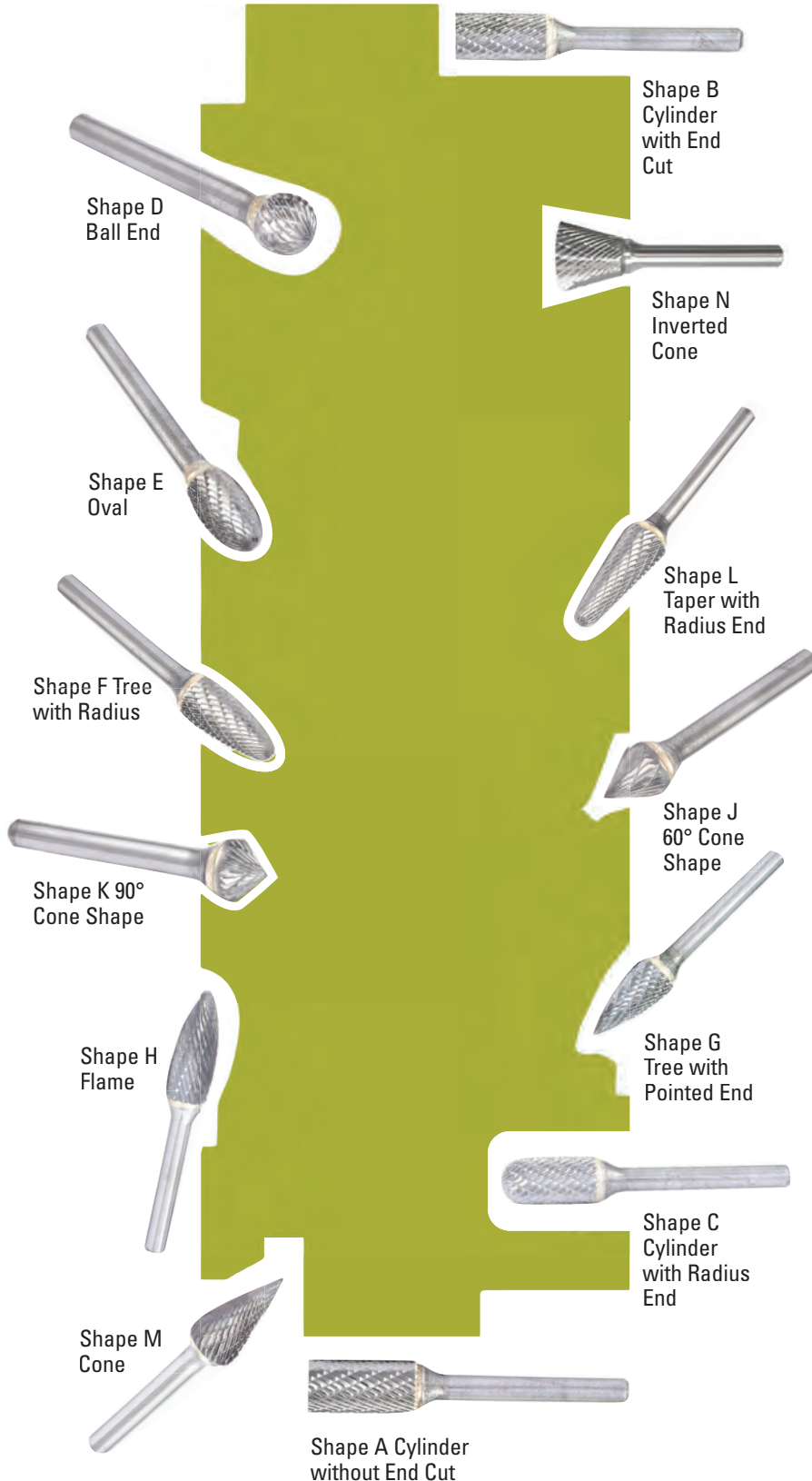
Carbide Burs

Les burins en carbure

- Clarkson-Osborn Carbide Burs are offered in all of the popular SCTI styles
 - The ¼" shank Burs are available in single, double as well as Aluminum cut
 - 6" long shank burs are available for extended reach applications
 - 1/8" shank burs are part of the program as well – often used in Mold, Tool & Die Making
 - We offer many different kit combinations, but we can customize any combination you require as we do all of our kitting in-house
 - If you do not see the style you need, please ask, as we can offer specials made to suit your application
- Les burins en carbure Clarkson-Osborn sont offertes dans tous les styles SCTI populaires
 - Une queue de ¼ "ainsi que la coupe en simple, double et en Aluminum
 - Des burins à queue de 6 "sont disponibles pour les applications à longue portée
 - Des burins à queue de 1/8 "font également partie du programme - souvent utilisées dans la fabrication de moules, d'outils et de matrices
 - Nous proposons de nombreuses combinaisons de kits, mais nous pouvons personnaliser toutes les combinaisons dont vous avez besoin, comme nous le faisons pour tous nos kits en interne
 - Si vous ne voyez pas le style dont vous avez besoin, veuillez demander, car nous pouvons vous proposer des offres spéciales adaptées à votre application

Carbide Burrs

Available in all sizes, shapes and cuts



SINGLE (Standard) CUT

- General purpose
- Recommended for steel, cast iron, and other ferrous materials.
- Offers good stock removal and smooth workpiece finish

COUPE SIMPLE (Standard)

- Utilisation générale
- Recommandé pour l'acier, la fonte et autres matériaux ferreux. Offre un bon enlèvement de matière et une finition lisse de la pièce



DOUBLE CUT

- Rapid stock removal due to the chisel type cutting tooth along with less chatter
- Most popular cut style and the most versatile as it is suited for the widest variety of materials
- Less operator fatigue to increased stock removal and less chatter

DOUBLE COUPE

- Enlèvement rapide de la matière grâce à la dent tranchante de type burin avec moins de débris
- Le style de coupe le plus populaire et le plus polyvalent, car il convient à la plus grande variété de matériaux
- Moins de fatigue de l'opérateur pour une augmentation de l'enlèvement des stocks et moins de débris



ALUMINUM CUT

- Designed for Aluminum and other non-ferrous materials
- Also suitable for reinforced plastics and other soft materials
- High flute design for easy chip flow and rapid stock removal with little or no chip loading

COUPE EN ALUMINIUM

- Conçu pour l'aluminium et autres matériaux non ferreux
- Convient également pour les plastiques renforcés et autres matériaux souples
- Conception à haute cannelure pour un écoulement facile des copeaux et une élimination rapide des stocks avec un chargement minime ou nul des copeaux

Cylinder Shape (SA)



• Cylindrical shape – flat, non-cutting end

• Forme cylindrique - extrémité plate et non coupante

STYLE	DIAMETER DIAMÈTRE	LENGTH OF CUT/ LONGEUR DE COUPE	DOUBLE CUT DENTURE CROISEE	SINGLE CUT DENTURE STANDARD
SA-12	1/8	5/8	SC90002	SC91002
SA-13	5/32	5/8	SC90003	SC91003
SA-14	3/16	5/8	SC90004	SC91004
SA-1	1/4	5/8	SC90005	SC91005
SA-1L	1/4	1"	SC90006	SC91006
SA-2	5/16	3/4	SC90007	SC91007
SA-3	3/8	3/4	SC90008	SC91008
SA-3L	3/8	1"	SC90009	SC91009
SA-3X	3/8	1-1/2	SC90010	SC91010
SA-4	7/16	1"	SC90011	SC91011
SA-5	1/2	1"	SC90012	SC91012
SA-6	5/8	1"	SC90013	SC91013
SA-7	3/4	1"	SC90014	SC91014
SA-15	3/4	1/2	SC90015	SC91015
SA-16	3/4	3/4	SC90016	SC91016
SA-8	7/8	1"	SC90017	SC91017
SA-9	1"	1"	SC90018	SC91018



Cylinder Shape (SB)

• Cylindrical shape – End Cutting

• Forme cylindrique - Coupe en bout

STYLE	DIAMETER DIAMÈTRE	LENGTH OF CUT/ LONGEUR DE COUPE	DOUBLE CUT DENTURE CROISEE	SINGLE CUT DENTURE STANDARD
SB-12	1/8	5/8	SC90020	SC91020
SB-13	5/32	5/8	SC90021	SC91021
SB-14	3/16	5/8	SC90022	SC91022
SB-1	1/4	5/8	SC90023	SC91023
SB-1L	1/4	1"	SC90024	SC91024
SB-2	5/16	3/4	SC90025	SC91025
SB-3	3/8	3/4	SC90026	SC91026
SB-3L	3/8	1"	SC90027	SC91027
SB-3X	3/8	1-1/2	SC90028	SC91028
SB-4	7/16	1"	SC90029	SC91029
SB-5	1/2	1"	SC90030	SC91030
SB-6	5/8	1"	SC90031	SC91031
SB-7	3/4	1"	SC90032	SC91032
SB-15	3/4	1/2	SC90033	SC91033
SB-16	3/4	3/4	SC90034	SC91034
SB-8	7/8	1"	SC90035	SC91035
SB-9	1"	1"	SC90036	SC91036



Cylinder Shape (SC)

- Cylindrical shape with Radius End
- Forme cylindrique à bout arrondi

STYLE	DIAMETER DIAMÈTRE	LENGTH OF CUT/ LONGEUR DE COUPE	DOUBLE CUT DENTURE CROISEE	SINGLE CUT DENTURE STANDARD
SC-11	1/8	1/2	SC90037	SC91037
SC-12	1/8	5/8	SC90038	SC91038
SC-13	5/32	5/8	SC90039	SC91039
SC-14	3/16	5/8	SC90040	SC91040
SC-1	1/4	5/8	SC90041	SC91041
SC-1L	1/4	1"	SC90042	SC91042
SC-2	5/16	3/4	SC90043	SC91043
SC-3	3/8	3/4	SC90044	SC91044
SC-3L	3/8	1"	SC90045	SC91045
SC-3X	3/8	1-1/2	SC90046	SC91046
SC-4	7/16	1"	SC90047	SC91047
SC-5	1/2	1"	SC90048	SC91048
SC-6	5/8	1"	SC90049	SC91049
SC-7	3/4	1"	SC90050	SC91050
SC-15	3/4	1/2	SC90051	SC91051
SC-16	3/4	3/4	SC90052	SC91052
SC-9	1"	1"	SC90053	SC91053



Ball Shape (SD)

- Ball shape
- Forme de balle

STYLE	DIAMETER DIAMÈTRE	LENGTH OF CUT/ LONGEUR DE COUPE	DOUBLE CUT DENTURE CROISEE	SINGLE CUT DENTURE STANDARD
SD-11	1/8	3/32	SC90054	SC91054
SD-14	3/16	1/8	SC90055	SC91055
SD-1	1/4	3/16	SC90056	SC91056
SD-2	5/16	1/4	SC90057	SC91057
SD-3	3/8	5/16	SC90058	SC91058
SD-4	7/16	3/8	SC90059	SC91059
SD-5	1/2	7/16	SC90060	SC91060
SD-6	5/8	9/16	SC90061	SC91061
SD-7	3/4	11/16	SC90062	SC91062
SD-9	1"	15/16	SC90063	SC91063



Oval Shape (SE)

- Oval Shape
- Forme ovale

STYLE	DIAMETER DIAMÈTRE	LENGTH OF CUT/ LONGEUR DE COUPE	DOUBLE CUT DENTURE CROISEE	SINGLE CUT DENTURE STANDARD
SE-11	3/16	5/16	SC90064	SC91064
SE-1	1/4	3/8	SC90065	SC91065
SE-3	3/8	5/8	SC90066	SC91066
SE-5	1/2	7/8	SC90067	SC91067
SE-6	5/8	1"	SC90068	SC91068
SE-7	3/4	1"	SC90069	SC91069



Tree Shape (SF)

- Tree shape with Radius End
- Forme d'arbre avec extrémité radiale

STYLE	DIAMETER DIAMÈTRE	LENGTH OF CUT/ LONGEUR DE COUPE	DOUBLE CUT DENTURE CROISEE	SINGLE CUT DENTURE STANDARD
SF-11	1/8	1/2	SC90070	SC91070
SF-1	1/4	5/8	SC90071	SC91071
SF-3	3/8	3/4	SC90072	SC91072
SF-4	7/16	1"	SC90073	SC91073
SF-5	1/2	1"	SC90074	SC91074
SF-13	1/2	3/4	SC90075	SC91075
SF-6	5/8	1"	SC90076	SC91076
SF-7	3/4	1"	SC90077	SC91077
SF-14	3/4	1-1/4	SC90078	SC91078
SF-15	3/4	1-1/2	SC90079	SC91079



Tree Shape (SG)

- Tree Shape with Pointed End
- Forme d'arbre avec extrémité pointue

STYLE	DIAMETER DIAMÈTRE	LENGTH OF CUT/ LONGEUR DE COUPE	DOUBLE CUT DENTURE CROISEE	SINGLE CUT DENTURE STANDARD
SG-1	1/4	5/8	SC90080	SC91080
SG-2	5/16	3/4	SC90081	SC91081
SG-3	3/8	3/4	SC90082	SC91082
SG-5	1/2	1"	SC90083	SC91083
SG-13	1/2	3/4	SC90084	SC91084
SG-6	5/8	1"	SC90085	SC91085
SG-7	3/4	1"	SC90086	SC91086
SG-15	3/4	1/2	SC90087	SC91087



Flame Shape (SH)

- Flame Shape
- Forme de flamme

STYLE	DIAMETER DIAMÈTRE	LENGTH OF CUT/ LONGEUR DE COUPE	DOUBLE CUT DENTURE CROISEE	SINGLE CUT DENTURE STANDARD
SH-1	1/4	5/8	SC90088	SC91088
SH-2	5/16	3/4	SC90089	SC91089
SH-5	1/2	1-1/4	SC90090	SC91090
SH-6	5/8	1-7/16	SC90091	SC91091
SH-7	3/4	1-5/8	SC90092	SC91092



Cone Shape (SJ)

- 60° Cone Shape
- Forme de cône à 60°

STYLE	DIAMETER DIAMÈTRE	LENGTH OF CUT/ LONGEUR DE COUPE	DOUBLE CUT DENTURE CROISEE	SINGLE CUT DENTURE STANDARD
SJ-1	1/4	3/16	SC90093	SC91093
SJ-3	3/8	5/16	SC90094	SC91094
SJ-5	1/2	7/16	SC90095	SC91095
SJ-6	5/8	9/16	SC90096	SC91096
SJ-7	3/4	11/16	SC90097	SC91097
SJ-9	1"	15/16	SC90098	SC91098
SJ-42	1/8	3/32	SC90174	SC91174



Cone Shape (SK)

- 90° Cone Shape
- Forme de cône à 90°

STYLE	DIAMETER DIAMÈTRE	LENGTH OF CUT/ LONGEUR DE COUPE	DOUBLE CUT DENTURE CROISEE	SINGLE CUT DENTURE STANDARD
SK-1	1/4	1/8	SC90099	SC91099
SK-3	3/8	3/16	SC90100	SC91100
SK-5	1/2	1/4	SC90101	SC91101
SK-6	5/8	5/16	SC90102	SC91102
SK-7	3/4	3/8	SC90103	SC91103
SK-9	1"	1/2	SC90104	SC91104



Taper Shape (SL)

- Taper Radius End 14°
- Fin du rayon de dépouille 14°

STYLE	DIAMETER DIAMÈTRE	LENGTH OF CUT/ LONGEUR DE COUPE	DOUBLE CUT DENTURE CROISEE	SINGLE CUT DENTURE STANDARD
SL-1	1/4	5/8	SC90105	SC91105
SL-2	5/16	7/8	SC90106	SC91106
SL-3	3/8	1-1/16	SC90107	SC91107
SL-4	1/2	1-1/8	SC90108	SC91108
SL-5	5/8	1-3/16	SC90109	SC91109
SL-6	5/8	1-5/16	SC90110	SC91110
SL-7	3/4	1-1/2	SC90111	SC91111



Cone Shape (SM)

- Cone Shape
- Forme de cône

STYLE	DIAMETER DIAMÈTRE	LENGTH OF CUT/ LONGEUR DE COUPE	DOUBLE CUT DENTURE CROISEE	SINGLE CUT DENTURE STANDARD
SM-1	1/4	1/2	SC90112	SC91112
SM-2	1/4	3/4	SC90113	SC91113
SM-3	1/4	1"	SC90114	SC91114
SM-4	3/8	5/8	SC90115	SC91115
SM-5	1/2	7/8	SC90116	SC91116
SM-6	5/8	1"	SC90117	SC91117



Inverted Cone Shape (SN)

- Inverted Cone Shape
- Forme de cône inversé

STYLE	DIAMETER DIAMÈTRE	LENGTH OF CUT/ LONGEUR DE COUPE	DOUBLE CUT DENTURE CROISEE	SINGLE CUT DENTURE STANDARD
SN-1	1/4	5/16	SC90118	SC91118
SN-2	3/8	3/8	SC90119	SC91119
SN-4	1/2	1/2	SC90120	SC91120
SN-6	5/8	3/4	SC90121	SC91121
SN-7	3/4	5/8	SC90122	SC91122

Cylinder Shape (SA)



- 6" Long Shank
- Cylindrical shape – flat, non-cutting end
- Queue De Longueur 6"
- Forme cylindrique - extrémité plate et non coupante

STYLE	DIAMETER DIAMÈTRE	LENGTH OF CUT/ LONGEUR DE COUPE	DOUBLE CUT DENTURE CROISEE	SINGLE CUT DENTURE STANDARD
SA-1L6	1/4	1/2	SC90601	SC91601
SA-3L6	3/8	3/4	SC90602	SC91602
SA-5L6	1/2	1"	SC90603	SC91603

Cylinder Shape (SC)



- 6" Long Shank
- Cylindrical shape with Radius end
- Queue De Longueur 6"
- Forme cylindrique à bout arrondi

STYLE	DIAMETER DIAMÈTRE	LENGTH OF CUT/ LONGEUR DE COUPE	DOUBLE CUT DENTURE CROISEE	SINGLE CUT DENTURE STANDARD
SC-1L6	1/4	1/2	SC90604	SC91604
SC-3L6	3/8	3/4	SC90605	SC91605
SC-5L6	1/2	1"	SC90606	SC91606

Ball Shape (SD)



- 6" Long Shank
- Ball shape
- Queue De Longueur 6"
- Forme de balle

STYLE	DIAMETER DIAMÈTRE	LENGTH OF CUT/ LONGEUR DE COUPE	DOUBLE CUT DENTURE CROISEE	SINGLE CUT DENTURE STANDARD
SD-1L6	1/4	3/16	SC90607	SC91607
SD-3L6	3/8	5/16	SC90608	SC91608
SD-5L6	1/2	7/16	SC90609	SC91609

Oval Shape (SE)



- 6" Long Shank
- Oval shape
- Queue De Longueur 6"
- Forme ovale

STYLE	DIAMETER DIAMÈTRE	LENGTH OF CUT/ LONGEUR DE COUPE	DOUBLE CUT DENTURE CROISEE	SINGLE CUT DENTURE STANDARD
SE-1L6	1/4	3/8	SC90610	SC91610
SE-3L6	3/8	5/8	SC90611	SC91611
SE-5L6	1/2	7/8	SC90612	SC91612

Tree Shape (SF)



- 6" Long Shank
- Tree shape with Radius End
- Queue De Longueur 6"
- Forme d'arbre avec extrémité radiale

STYLE	DIAMETER DIAMÈTRE	LENGTH OF CUT/ LONGEUR DE COUPE	DOUBLE CUT DENTURE CROISEE	SINGLE CUT DENTURE STANDARD
SF-1L6	1/4	1/2	SC90613	SC91613
SF-3L6	3/8	3/4	SC90614	SC91614
SF-5L6	1/2	1"	SC90615	SC91615

Tree Shape (SG)



- 6" Long Shank
- Tree Shape with Pointed End
- Queue De Longueur 6"
- Forme d'arbre avec extrémité pointue

STYLE	DIAMETER DIAMÈTRE	LENGTH OF CUT/ LONGEUR DE COUPE	DOUBLE CUT DENTURE CROISEE	SINGLE CUT DENTURE STANDARD
SG-1L6	1/4	1/2	SC90616	SC91616
SG-3L6	3/8	3/4	SC90617	SC91617
SG-5L6	1/2	1"	SC90618	SC91618

Flame Shape (SH)



- 6" Long Shank
- Flame Shape
- Queue De Longueur 6"
- Forme de flamme

STYLE	DIAMETER DIAMÈTRE	LENGTH OF CUT/ LONGEUR DE COUPE	DOUBLE CUT DENTURE CROISEE	SINGLE CUT DENTURE STANDARD
SH-2L6	5/16	3/4	SC90619	SC91619
SH-5L6	1/2	1-1/4	SC90620	SC91620

Taper Shape (SL)



- 6" Long Shank
- Taper Radius End 14°
- Queue De Longueur 6"
- Fin du rayon de dépouille 14°

STYLE	DIAMETER DIAMÈTRE	LENGTH OF CUT/ LONGEUR DE COUPE	DOUBLE CUT DENTURE CROISEE	SINGLE CUT DENTURE STANDARD
SL-1L6	1/4	5/8	SC90621	SC91621
SL-3L6	3/8	1-1/16	SC90622	SC91622
SL-4L6	1/2	1-1/8	SC90623	SC91623

Cylinder Shape (SA)



- Cylindrical shape – flat, non-cutting end
- Aluminum Cut for Non-Ferrous and other soft materials
- Forme cylindrique - extrémité plate et non coupante
- Coupe en aluminium pour matériaux non ferreux et autres matériaux tendres

STYLE	DIAMETER DIAMÈTRE	LENGTH OF CUT/ LONGEUR DE COUPE	SHANK DIA DIA QUEUE	ALU CUT DENTURE ALU
SA-1NF	1/4	3/4	1/4	SC95001
SA-3NF	3/8	3/4	1/4	SC95002
SA-5NF	1/2	1"	1/4	SC95003
SA-6NF	5/8	1"	1/4	SC95004
SA-7NF	3/4	1"	1/4	SC95005
SA7NF3/8	3/4	1"	3/8	SC95006

Cylinder Shape (SC)



- Cylindrical shape with Radius End
- Aluminum Cut for Non-Ferrous and other soft materials
- Forme cylindrique à bout arrondi
- Coupe en aluminium pour matériaux non ferreux et autres matériaux tendres

STYLE	DIAMETER DIAMÈTRE	LENGTH OF CUT/ LONGEUR DE COUPE	SHANK DIA DIA QUEUE	ALU CUT DENTURE ALU
SC-1NF	1/4	3/4	1/4	SC95019
SC-3NF	3/8	3/4	1/4	SC95020
SC-5NF	1/2	1"	1/4	SC95021
SC-6NF	5/8	1"	1/4	SC95022
SC-7NF	3/4	1"	1/4	SC95023
SC7NF3/8	3/4	1"	3/8	SC95024

Ball Shape (SD)



- Ball Shape
- Aluminum Cut for Non-Ferrous and other soft materials
- Forme de balle
- Coupe en aluminium pour matériaux non ferreux et autres matériaux tendres

STYLE	DIAMETER DIAMÈTRE	LENGTH OF CUT/ LONGEUR DE COUPE	SHANK DIA DIA QUEUE	ALU CUT DENTURE ALU
SD-1NF	1/4	3/4	1/4	SC95007
SD-3NF	3/8	3/8	1/4	SC95008
SD-5NF	1/2	1/2	1/4	SC95009
SD-6NF	5/8	5/8	1/4	SC95010
SD-7NF	3/4	3/4	1/4	SC95011
SD7NF3/8	3/4	3/4	3/8	SC95012

Oval Shape (SE)



- Oval Shape
- Aluminum Cut for Non-Ferrous and other soft materials

- Forme ovale
- Coupe en aluminium pour matériaux non ferreux et autres matériaux tendres

STYLE	DIAMETER DIAMÈTRE	LENGTH OF CUT/ LONGEUR DE COUPE	SHANK DIA DIA QUEUE	ALU CUT DENTURE ALU
SE-3NF	3/8	5/8	1/4	SC95025
SE-5NF	1/2	7/8	1/4	SC95026
SE-6NF	5/8	1"	1/4	SC95027
SE-7NF	3/4	1"	1/4	SC95028
SE7NF3/8	3/4	1"	3/8	SC95029

Tree Shape (SF)



- Tree shape with Radius End
- Aluminum Cut for Non-Ferrous and other soft materials

- Forme d'arbre avec extrémité radiale
- Coupe en aluminium pour matériaux non ferreux et autres matériaux tendres

STYLE	DIAMETER DIAMÈTRE	LENGTH OF CUT/ LONGEUR DE COUPE	SHANK DIA DIA QUEUE	ALU CUT DENTURE ALU
SF-1NF	1/4	3/4	1/4	SC95013
SF-3NF	3/8	3/4	1/4	SC95014
SF-5NF	1/2	1"	1/4	SC95015
SF-6NF	5/8	1"	1/4	SC95016
SF-14NF	3/4	1-1/4	1/4	SC95017
SF14NF3/8	3/4	1-1/4	3/8	SC95018

Taper Shape (SL)



- Taper Radius End 14°
- Aluminum Cut for Non-Ferrous and other soft materials

- Fin du rayon de dépouille 14°
- Coupe en aluminium pour matériaux non ferreux et autres matériaux tendres

STYLE	DIAMETER DIAMÈTRE	LENGTH OF CUT/ LONGEUR DE COUPE	SHANK DIA DIA QUEUE	ALU CUT DENTURE ALU
SL-3NF	3/8	1-1/16	1/4	SC95030
SL-4NF	1/2	1-1/8	1/4	SC95031
SL-5NF	5/8	1-3/16	1/4	SC95032
SL-6NF	5/8	1-5/16	1/4	SC95033
SL-7NF	3/4	1-1/2	1/4	SC95034
SL7NF3/8	3/4	1-1/2	3/8	SC95035

Burs with 1/8 Shank



SA-41 SA-42 SA-43 SB-43 SB-ECO SC-41 SC-42 SD-41 SD-42 SE-41 SF-41 SF-42 SG-41

Cut Diameter	1/16"	3/32"	1/8"	1/8"	1/8"	3/32"	1/8"	3/32"	1/8"	1/8"	1/8"	1/8"	1/8"
Flute Length	1/4"	7/16"	9/16"	9/16"	-	7/16"	9/16"	3/32"	1/8"	7/32"	1/4"	1/2"	1/4"



SG-43 SG-44 SH-41 SJ-42 SK-42 SL-41 SL-42 SM-41 SM-42 SM-43 SN-41 SN-42

Cut Diameter	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"
Flute Length	3/8"	1/2"	1/4"	3/32"	1/16"	3/8"	1/2"	11/32"	7/16"	5/8"	1/8"	3/16"
Taper				60° inc.	90° inc.	8°	8°	12°	14°	7°	10°	10°



Burs with 1/8 Shank

STYLE	DIAMETER DIAMÈTRE	LENGTH OF CUT/ LONGEUR DE COUPE	DOUBLE CUT DENTURE CROISEE	SINGLE CUT DENTURE STANDARD
SA-41	1/16	1/4	SC90150	SC91150
SA-42	3/32	7/16	SC90151	SC91151
SA-43	1/8	9/16	SC90152	SC91152
SB-43	1/8	9/16	SC90153	SC91153
SB-ECO	1/8	-	SC90154	SC91154
SC-41	3/32	7/16	SC90155	SC91155
SC-42	1/8	9/16	SC90156	SC91156
SD-41	3/32	3/32	SC90157	SC91157
SD-42	1/8	1/8	SC90158	SC91158
SE-41	1/8	7/32	SC90159	SC91159
SF-41	1/8	1/4	SC90160	SC91160
SF-42	1/8	1/2	SC90161	SC91161
SG-41	1/8	1/4	SC90162	SC91162
SG-42	1/8	5/16	SC90170	SC91170
SG-43	1/8	3/8	SC90171	SC91171
SG-44	1/8	1/2	SC90172	SC91172
SH-41	1/8	1/4	SC90173	SC91173
SK-42	1/8	1/16	SC90175	SC91175
SL-41	1/8	3/8	SC90176	SC91176
SL-42	1/8	1/2	SC90177	SC91177
SM-41	1/8	11/32	SC90178	SC91178
SM-42	1/8	7/16	SC90179	SC91179
SM-43	1/8	5/8	SC90180	SC91180
SN-41	3/32	1/8	SC90181	SC91181
SN-42	1/8	3/16	SC90182	SC91182

2" OVERALL LENGTH/LONGEUR DE 2"

SA-43L2	1/8	9/16	SC90190	SC91190
SC-42L2	1/8	9/16	SC90191	SC91191
SD-42L2	1/8	1/8	SC90192	SC91192
SE-41L2	1/8	7/32	SC90193	SC91193
SF-42L2	1/8	1/2	SC90194	SC91194
SG-44L2	1/8	1/2	SC90195	SC91195
SH-41L2	1/8	1/4	SC90196	SC91196
SH-42L2	1/8	1/2	SC90197	SC91197
SM-42L2	1/8	7/16	SC90198	SC91198

3" OVERALL LENGTH/LONGEUR DE 3"

SA-43L3	1/8	9/16	SC90200	SC91200
SC-42L3	1/8	9/16	SC90201	SC91201
SD-42L3	1/8	1/8	SC90202	SC91202
SE-41L3	1/8	7/32	SC90203	SC91203
SF-42L3	1/8	1/2	SC90204	SC91204
SG-44L3	1/8	1/2	SC90205	SC91205
SH-41L3	1/8	1/4	SC90206	SC91206
SM-42L3	1/8	7/16	SC90208	SC91208

Burs with 1/8 Shank

STYLE	DIAMETER DIAMÈTRE	LENGTH OF CUT/ LONGEUR DE COUPE	DOUBLE CUT DENTURE CROISEE	SINGLE CUT DENTURE STANDARD
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1/4" DIAMETER - 1/8" HARDENED SHANK/DIAMÈTRE DE 1/4" - QUEUE 1/8" DURCI

SA-51	1/4	1/2	SC90400	SC91400
SB-51	1/4	3/16	SC90401	SC91401
SC-51	1/4	1/2	SC90402	SC91402
SD-51	1/4	1/4	SC90403	SC91403
SE-51	1/4	3/8	SC90404	SC91404
SF-51	1/4	1/2	SC90405	SC91405
SG-51	1/4	1/2	SC90406	SC91406
SM-51	1/4	1/2	SC90407	SC91407
SN-51	1/4	1/4	SC90408	SC91408

3/32" SHANK - 1-1/4" OVERALL/QUEUE DE 3/32" - LONGEUR DE 1-1/4"

SA-61	1/16	1/4	SC90300	SC91300
SA-63	3/32	3/8	SC90301	SC91301
SC-61	3/32	3/8	SC90302	SC91302
SD-61	3/32	3/32	SC90303	SC91303
SE-61	3/32	1/8	SC90304	SC91304
SF-61	3/32	1/4	SC90305	SC91305
SG-61	3/32	1/4	SC90306	SC91306
SM-61	3/32	1/4	SC90307	SC91307
SN-61	3/32	1/8	SC90308	SC91308

3/16" SHANK - 2" OVERALL/QUEUE DE 3/16" - LONGEUR DE 2"

SA-81	3/16	1/2	SC90420	SC91420
SC-81	3/16	1/2	SC90421	SC91421
SD-81	3/16	3/16	SC90422	SC91422
SE-81	3/16	9/32	SC90423	SC91423
SF-81	3/16	1/2	SC90424	SC91424
SG-81	3/16	1/2	SC90425	SC91425
SL-81	3/16	7/16	SC90426	SC91426
SN-81	3/16	1/4	SC90427	SC91427

1/8" SHANK - ONE PIECE CONSTRUCTION/QUEUE DE 1/8" - SOLIDE

SA-52	5/32	1/2	SC90430	SC91430
SA-53	3/16	1/2	SC90431	SC91431
SC-52	5/32	1/2	SC90432	SC91432
SC-53	3/16	1/2	SC90433	SC91433
SD-53	3/16	3/16	SC90434	SC91434
SE-53	3/16	9/32	SC90435	SC91435
SF-53	3/16	1/2	SC90436	SC91436
SG-53	3/16	1/2	SC90437	SC91437
SH-53	3/16	3/8	SC90438	SC91438
SL-53	3/16	1/2	SC90439	SC91439
SM-53	3/16	1/2	SC90440	SC91440
SN-53	3/16	1/4	SC90441	SC91441



Sets

Solid Carbide Bur Sets

- We offer many different kit combinations, but we can customize any combination you require as we do all of our kitting in-house
- If you do not see the style you need, please ask, as we can offer specials made to suit your application

Fraises Limes - En Carbure

- Nous proposons de nombreuses combinaisons de kits, mais nous pouvons personnaliser toutes les combinaisons dont vous avez besoin, comme nous le faisons pour tous nos kits en interne
- Si vous ne voyez pas le style dont vous avez besoin, veuillez demander, car nous pouvons vous proposer des offres spéciales adaptées à votre application

SETS CONTENTS CONTENU D'ENSEMBLE DENTURE CROISEE	DOUBLE CUT	CASE	PCS
SA-5 SC-3 SC-5 SD-5 SF-3 SF-5 SG-3 SL-4	SC90800	Metal	8
SA-5 SC-3 SC-5 SD-5 SF-3 SF-5 SG-3 SL-4	SC90801	Wood	8
SA-61 SA-63 SC-61 SD-61 SE-61 SF-61 SG-61 SM-61 SN-61	SC90802	Plastic	9
SA-81 SC-81 SD-81 SE-81 SF-81 SG-81 SL-81 SN-81	SC90803	Plastic	8
SA-51 SB-51 SC-51 SD-51 SE-51 SF-51 SG-51 SM-51 SN-51	SC90804	Plastic	9
SA-52 SA-53 SC-52 SC-53 SD-53 SE-53 SF-53 SG-53 SH-53 SL-53 SM-53 SN-53	SC90805	Plastic	12
SA-42 SA-43 SC-41 SC-42 SD-42 SE-41 SF-42 SG-43 SH-41 SL-42 SM-42 SN-42	SC90806	Plastic	12
SA-3 SC-3 SC-5 SF-3 SF-5	SC90810	Metal	5



Brazed Tools Outils brasés

Single point carbide tipped brazed tools with HSS body are offered in a wide range of sizes and styles to meet your application requirements.

Use them for right or left-hand cutting, for turning or chamfering operations, for cut-off of tubing or bars, for threading, and for automotive and lathe operations.

Available in two grades:

- "C2" for Cast Iron / Non-Ferrous materials
- "C6" for Steel / Steel Alloys

Outils à plaquette rapportée en carbure avec HSS corps sont offerts dans une large gamme de tailles et de styles pour répondre à votre exigences d'application.

Utilisez-les pour la coupe à droite ou à gauche, pour les opérations de tournage ou de chanfreinage, pour tubes ou barres, pour le filetage, et pour les opérations automobiles et de tour.

Disponible en deux grades:

- "C2" pour la fonte / les matériaux non ferreux
- "C6" pour l'acier / les alliages d'acier



Style C - SP01

- “C” style for chamfering
- C2 version for Cast Iron / Non-Ferrous materials
- C6 Version for Steel / Steel Alloys

- Style “C” pour le chanfreinage
- Version C2 pour fonte / matériaux non ferreux
- Version C6 pour alliages acier / acier

NO	HEIGHT/TAILLE	WIDTH/LARGEUR	LENGTH/LONGEUR	PKG	C2 GRADE	C6 GRADE
C4	1/4	1/4	2"	12	SP01201	SP01501
C5	5/16	5/16	2-1/4	12	SP01202	SP01502
C6	3/8	3/8	2-1/2	12	SP01203	SP01503
C7	7/16	7/16	3"	12	SP01204	SP01504
C8	1/2	1/2	3-1/2	12	SP01205	SP01505
C10	5/8	5/8	4"	12	SP01206	SP01506
C12	3/4	3/4	4-1/2	12	SP01207	SP01507
C16	1"	1"	7"	6	SP01208	SP01508
C44	1/2	1"	7"	6	SP01210	



Style D - SP02

- “D” style for chamfering corners on the outside or inside of the part
- 80° included angle
- C2 version for Cast Iron / Non-Ferrous materials
- C6 Version for Steel / Steel Alloys

- Style «D» pour chanfreiner les angles à l'extérieur ou à l'intérieur de la pièce
- Angle inclus de 80 °
- Version C2 pour fonte / matériaux non ferreux
- Version C6 pour alliages acier / acier

NO	HEIGHT/TAILLE	WIDTH/LARGEUR	LENGTH/LONGEUR	PKG	C2 GRADE	C6 GRADE
D4	1/4	1/4	2"	12	SP02201	SP02501
D5	5/16	5/16	2-1/4	12	SP02202	SP02502
D6	3/8	3/8	2-1/2	12	SP02203	SP02503
D7	7/16	7/16	3"	12	SP02204	SP02504
D8	1/2	1/2	3-1/2	12	SP02205	SP02505
D10	5/8	5/8	4"	12	SP02206	SP02506
D12	3/4	3/4	4-1/2	12	SP02207	SP02507
D16	1"	1"	7"	6	SP02208	SP02508



Style E - SP03

- “E” style for threading on the outside of the part
- 60° included angle
- C2 version for Cast Iron / Non-Ferrous materials
- C6 Version for Steel / Steel Alloys

- Style «E» pour le filetage à l'extérieur de la pièce
- Angle inclus de 60 °
- Version C2 pour fonte / matériaux non ferreux
- Version C6 pour alliages acier / acier

NO	HEIGHT/TAILLE	WIDTH/LARGEUR	LENGTH/LONGEUR	PKG	C2 GRADE	C6 GRADE
E4	1/4	1/4	2"	12	SP03201	SP03501
E5	5/16	5/16	2-1/4	12	SP03202	SP03502
E6	3/8	3/8	2-1/2	12	SP03203	SP03503
E7	7/16	7/16	3"	12	SP03204	SP03504
E8	1/2	1/2	3-1/2	12	SP03205	SP03505
E10	5/8	5/8	4"	12	SP03206	SP03506
E12	3/4	3/4	4-1/2	12	SP03207	SP03507
E16	1"	1"	7"	6	SP03208	SP03508



Style AR • AL

SP04 • SP05

- AR Straight Turning Bit - (Right Hand)
- AL Straight Turning Bit - (Left Hand)
- For turning to a square shoulder
- For turning on the outside of the part.
- Used for general machining operations such as turning, boring and chamfering.
- C2 version for Cast Iron / Non-Ferrous materials
- C6 Version for Steel / Steel Alloys

- Mèche droite AR - (main droite)
- Mèche droite AL - (main gauche)
- Pour se transformer en Square shoulder
- Pour tourner à l'extérieur de la pièce
- Utilisé pour les opérations d'usinage générales telles que le tournage, l'alésage et le chanfreinage.
- Version C2 pour fonte / matériaux non ferreux
- Version C6 pour alliages acier / acier

NO	HEIGHT TAILLE	WIDTH LARGEUR	LENGTH LONGEUR	RAD	PKG	RIGHT HAND C2 GRADE	LEFT HAND C2 GRADE
AR4 • AL4	1/4	1/4	2"	1/64	12	SP04201	SP05201
AR5 • AL5	5/16	5/16	2-1/4	1/64	12	SP04202	SP05202
AR6 • AL6	3/8	3/8	2-1/2	1/64	12	SP04203	SP05203
AR7 • AL7	7/16	7/16	3"	1/32	12	SP04204	SP05204
AR8 • AL8	1/2	1/2	3-1/2	1/32	12	SP04205	SP05205
AR10 • AL10	5/8	5/8	4"	1/32	12	SP04206	SP05206
AR12 • AL12	3/4	3/4	4-1/2	1/32	12	SP04207	SP05207
AR16 • AL16	1"	1"	7"	1/32	6	SP04208	SP05208
AR44 • AL44	1/2	1"	7"	1/32	6	SP04211	SP05211

NO	HEIGHT TAILLE	WIDTH LARGEUR	LENGTH LONGEUR	RAD	PKG	RIGHT HAND C6 GRADE	LEFT HAND C6 GRADE
AR4 • AL4	1/4	1/4	2"	1/64	12	SP04501	SP05501
AR5 • AL5	5/16	5/16	2-1/4	1/64	12	SP04502	SP05502
AR6 • AL6	3/8	3/8	2-1/2	1/64	12	SP04503	SP05503
AR7 • AL7	7/16	7/16	3"	1/32	12	SP04504	SP05504
AR8 • AL8	1/2	1/2	3-1/2	1/32	12	SP04505	SP05505
AR10 • AL10	5/8	5/8	4"	1/32	12	SP04506	SP05506
AR12 • AL12	3/4	3/4	4-1/2	1/32	12	SP04507	SP05507
AR16 • AL16	1"	1"	7"	1/32	6	SP04508	SP05508
AR44 • AL44	1/2	1"	7"	1/32	6	SP04511	SP05511



Style BR • BL SP06 • SP07

- BR 15° Lead Angle Turning Bit - (Right Hand)
- BL 15° Lead Angle Turning Bit - (Left Hand)
- For turning and boring where a square shoulder is not required.
- Used for general machining operation such as turning, boring and chamfering.
- C2 version for Cast Iron / Non-Ferrous materials
- C6 Version for Steel / Steel Alloys
- Embout tournant 15° BR - (main droite)
- Embout tournant 15° BR - (main gauche)
- Pour tourner et allèser où un Square Shoulder n'est pas nécessaire.
- Utilisé pour les opérations d'usinage générales telles que le tournage, l'alésage et le chanfreinage.
- Version C2 pour fonte / matériaux non ferreux
- Version C6 pour alliages acier / acier

NO	HEIGHT TAILLE	WIDTH LARGEUR	LENGTH LONGEUR	RAD	PKG	RIGHT HAND C2 GRADE	LEFT HAND C2 GRADE
BR4 • BL4	1/4	1/4	2"	1/64	12	SP06201	SP07201
BR5 • BL5	5/16	5/16	2-1/4	1/64	12	SP06202	SP07202
BR6 • BL6	3/8	3/8	2-1/2	1/64	12	SP06203	SP07203
BR7 • BL7	7/16	7/16	3"	1/32	12	SP06204	SP07204
BR8 • BL8	1/2	1/2	3-1/2	1/32	12	SP06205	SP07205
BR10 • BL10	5/8	5/8	4"	1/32	12	SP06206	SP07206
BR12 • BL12	3/4	3/4	4-1/2	1/32	12	SP06207	SP07207
BR16 • BL16	1"	1"	7"	1/32	6	SP06208	SP07208
BR44 • BL44	1/2	1"	7"	1/32	6	SP06211	SP07211

NO	HEIGHT TAILLE	WIDTH LARGEUR	LENGTH LONGEUR	RAD	PKG	RIGHT HAND C6 GRADE	LEFT HAND C6 GRADE
BR4 • BL4	1/4	1/4	2"	1/64	12	SP06501	SP07501
BR5 • BL5	5/16	5/16	2-1/4	1/64	12	SP06502	SP07502
BR6 • BL6	3/8	3/8	2-1/2	1/64	12	SP06503	SP07503
BR7 • BL7	7/16	7/16	3"	1/32	12	SP06504	SP07504
BR8 • BL8	1/2	1/2	3-1/2	1/32	12	SP06505	SP07505
BR10 • BL10	5/8	5/8	4"	1/32	12	SP06506	SP07506
BR12 • BL12	3/4	3/4	4-1/2	1/32	12	SP06507	SP07507
BR16 • BL16	1"	1"	7"	1/32	6	SP06508	SP07508
BR44 • BL44	1/2	1"	7"	1/32	6	SP06511	SP07511



Style ER • EL SP08 • SP09

- “ER” style offset for threading, boring, V-grooving - (Right Hand)
- “EL” style offset for threading, boring, V-grooving - (Left Hand)
- The offset shank allows the threading to a square shoulder.
- C2 version for Cast Iron / Non-Ferrous materials
- C6 Version for Steel / Steel Alloys
- Décalage de type «ER» pour le filetage, le perçage et le rainurage en V - (main droite)
- Décalage de type «EL» pour le filetage, le perçage et le rainurage en V - (main gauche)
- La tige décalée permet le filetage à un Square Shoulder
- Version C2 pour fonte / matériaux non ferreux
- Version C6 pour alliages acier / acier

NO	HEIGHT TAILLE	WIDTH LARGEUR	LENGTH LONGEUR	RAD	PKG	RIGHT HAND C2 GRADE	LEFT HAND C2 GRADE
ER5 • EL5	5/16	5/16	2-1/4	1/16	12	SP08202	SP09202
ER6 • EL6	3/8	3/8	2-1/2	1/16	12	SP08203	SP09203
ER8 • EL8	1/2	1/2	3-1/2	3/32	12	SP08204	SP09204
ER10 • EL10	5/8	5/8	4"	3/32	12	SP08205	SP09205
ER12 • EL12	3/4	3/4	4-1/2	1/8	12	SP08206	SP09206

NO	HEIGHT TAILLE	WIDTH LARGEUR	LENGTH LONGEUR	RAD	PKG	RIGHT HAND C6 GRADE	LEFT HAND C6 GRADE
ER5 • EL5	5/16	5/16	2-1/4	1/16	12	SP08502	SP09502
ER6 • EL6	3/8	3/8	2-1/2	1/16	12	SP08503	SP09503
ER8 • EL8	1/2	1/2	3-1/2	3/32	12	SP08504	SP09504
ER10 • EL10	5/8	5/8	4"	3/32	12	SP08505	SP09505
ER12 • EL12	3/4	3/4	4-1/2	1/8	12	SP08506	SP09506



Style FR • FL SP10 • SP11

- “FR” style for offset end-cutting - (Right Hand)
- “FL” style for offset end-cutting - (Left Hand)
- For facing on the outside of the part
- Offset head provides additional side clearance
- C2 version for Cast Iron / Non-Ferrous materials
- C6 Version for Steel / Steel Alloys

- Style “FR” pour la coupe d’extrémité décaler - (main droite)
- Style “FL” pour la coupe d’extrémité décaler - (main gauche)
- Pour parement à l’extérieur de la pièce
- La tête décalée offre un dégagement latéral supplémentaire
- Version C2 pour fonte / matériaux non ferreux
- Version C6 pour alliages acier / acier

NO	HEIGHT TAILLE	WIDTH LARGEUR	LENGTH LONGEUR	RAD	PKG	RIGHT HAND C2 GRADE	LEFT HAND C2 GRADE
FR8 • FL8	1/2	1/2	3-1/2	1/32	12	SP10201	SP11201
FR10 • FL10	5/8	5/8	4"	1/32	12	SP10202	SP11202
FR12 • FL12	3/4	3/4	4-1/2	1/32	12	SP10203	SP11203
FR16 • FL16	1"	1"	7"	1/32	6	SP10204	SP11204
FR44 • FL44	1/2	1"	6"	1/32	6	SP10207	SP11207

NO	HEIGHT TAILLE	WIDTH LARGEUR	LENGTH LONGEUR	RAD	PKG	RIGHT HAND C6 GRADE	LEFT HAND C6 GRADE
FR8 • FL8	1/2	1/2	3-1/2	1/32	12	SP10501	SP11501
FR10 • FL10	5/8	5/8	4"	1/32	12	SP10502	SP11502
FR12 • FL12	3/4	3/4	4-1/2	1/32	12	SP10503	SP11503
FR16 • FL16	1"	1"	7"	1/32	6	SP10504	SP11504
FR44 • FL44	1/2	1"	6"	1/32	6	SP10507	SP11507



Style TSA - SP16

- “TSA” Style is for boring to a square shoulder in 90° boring bars
- C2 version for Cast Iron / Non-Ferrous materials
- C6 Version for Steel / Steel Alloys

- Le style “TSA” est destiné au perçage d’un Square shoulder dans des barres d’alésage à 90 °
- Version C2 pour fonte / matériaux non ferreux
- Version C6 pour alliages acier / acier

NO	HEIGHT/TAILLE	WIDTH/LARGEUR	LENGTH/LONGEUR	RAD	PKG	C2 GRADE	C6 GRADE
TSA5	5/16	5/16	1-1/2	1/64	12	SP16202	SP16502
TSA6	3/8	3/8	1-3/4	1/64	12	SP16203	SP16503
TSA8	1/2	1/2	2-1/2	1/32	12	SP16204	SP16504
TSA10	5/8	5/8	3"	1/32	12	SP16205	SP16505
TSA12	3/4	3/4	3-1/2	1/32	12	SP16206	SP16506



Style GR • GL SP12 • SP13

- “GR” style for Offset Side-Cutting - (Right Hand)
- “GL” style for Offset Side-Cutting - (Left Hand)
- For turning on the outside of the part
- Offset head provides additional side clearance

- Style “GR” pour la coupe d’extrémité décaler - (main droite)
- Style “GL” pour la coupe d’extrémité décaler - (main gauche)
- Pour tourner à l’extérieur de la pièce
- La tête décalée offre un dégagement latéral supplémentaire
- Version C2 pour fonte / matériaux non ferreux
- Version C6 pour alliages acier / acier

NO	HEIGHT TAILLE	WIDTH LARGEUR	LENGTH LONGEUR	RAD	PKG	RIGHT HAND C2 GRADE	LEFT HAND C2 GRADE
GR8 • GL8	1/2	1/2	3-1/2	1/32	12	SP12201	SP13201
GR10 • GL10	5/8	5/8	4"	1/32	12	SP12202	SP13202
GR12 • GL12	3/4	3/4	4-1/2	1/32	12	SP12203	SP13203
GR16 • GL16	1"	1"	7"	1/32	6	SP12204	SP13204
GR44 • GL44	1/2	1"	6"	1/32	6	SP12207	SP13207

NO	HEIGHT TAILLE	WIDTH LARGEUR	LENGTH LONGEUR	RAD	PKG	RIGHT HAND C6 GRADE	LEFT HAND C6 GRADE
GR8 • GL8	1/2	1/2	3-1/2	1/32	12	SP12501	SP13501
GR10 • GL10	5/8	5/8	4"	1/32	12	SP12502	SP13502
GR12 • GL12	3/4	3/4	4-1/2	1/32	12	SP12503	SP13503
GR16 • GL16	1"	1"	7"	1/32	6	SP12504	SP13504
GR44 • GL44	1/2	1"	6"	1/32	6	SP12507	SP13507



Style TSC - SP18

- “TSC” style is for boring to a square shoulder in 30° boring bars or for internal chamfering
- C2 version for Cast Iron / Non-Ferrous materials
- C6 Version for Steel / Steel Alloys

- Le style “TSC” est destiné au perçage d’un Square shoulder dans des barres d’alésage à 30 °
- Version C2 pour fonte / matériaux non ferreux
- Version C6 pour alliages acier / acier

NO	HEIGHT/TAILLE	WIDTH/LARGEUR	LENGTH/LONGEUR	RAD	PKG	C2 GRADE	C6 GRADE
TSC5	5/16	5/16	1-1/2	1/64	12	SP18202	SP18502
TSC6	3/8	3/8	1-3/4	1/64	12	SP18203	SP18503
TSC8	1/2	1/2	2-1/2	1/32	12	SP18204	SP18504
TSC10	5/8	5/8	3"	1/32	12	SP18205	SP18505
TSC12	3/4	3/4	3-1/2	1/32	12	SP18206	SP18506



Style CT (COR) • CTL (COL) SP14 • SP15

- “CT” (COR) style is an ideal tool for deep hole grooving or cut-off work – (Right Hand)
- “CTL” (COL) style is an ideal tool for deep hole grooving or cut-off work – (Left Hand)
- C2 version for Cast Iron / Non-Ferrous materials
- C6 Version for Steel / Steel Alloys
- Le style “CT” (COR) est l’outil idéal pour le rainurage de trous profonds ou le travail de tronçonnage - (main droite)
- Le style “CTL” (COL) est l’outil idéal pour le rainurage de trous profonds ou le travail de tronçonnage - (main gauche)
- Version C2 pour fonte / matériaux non ferreux
- Version C6 pour alliages acier / acier

NO	HEIGHT TAILLE	WIDTH LARGEUR	LENGTH LONGEUR	NECK COU	CUT COUPE	PKG	RIGHT HAND C2 GRADE	LEFT HAND C2 GRADE
CT111 • CTL111	1/2	1"	5"	3/4	1/8	6	SP14201	SP15201
CT122 • CTL122	1/2	1"	5"	13/16	3/16	6	SP14202	SP15202
CT120 • CTL120	1/2	1"	5"	1"	5/16	6	SP14203	SP15203
CT121 • CTL121	1/2	1"	5"	1"	1/4	6	SP14204	SP15204
CT130 • CTL130	5/8	1-1/4	5"	1-1/4	3/8	6	SP14205	SP15205
CT140 • CTL140	3/4	1-1/2	6"	1-1/4	3/8	6	SP14206	SP15206

NO	HEIGHT TAILLE	WIDTH LARGEUR	LENGTH LONGEUR	NECK COU	CUT COUPE	PKG	RIGHT HAND C6 GRADE	LEFT HAND C6 GRADE
CT111 • CTL111	1/2	1"	5"	3/4	1/8	6	SP14501	SP15501
CT122 • CTL122	1/2	1"	5"	13/16	3/16	6	SP14502	SP15502
CT120 • CTL120	1/2	1"	5"	1"	5/16	6	SP14503	SP15503
CT121 • CTL121	1/2	1"	5"	1"	1/4	6	SP14504	SP15504
CT130 • CTL130	5/8	1-1/4	5"	1-1/4	3/8	6	SP14505	SP15505
CT141 • CTL140	3/4	1-1/2	6"	1-1/4	3/8	6	SP14506	SP15506



Style TSE - SP20

- “TSE” style for boring to a square shoulder in 45° boring bars or boring with a 15° lead angle in a 30° boring bar
- C2 version for Cast Iron / Non-Ferrous materials
- C6 Version for Steel / Steel Alloys
- Style “TSE” pour aléser un Square shoulder dans des barres d’alésage à 45 ° ou avec un angle d’attaque de 15 ° dans barre d’alésage 30 °
- Version C2 pour fonte / matériaux non ferreux
- Version C6 pour alliages acier / acier

NO	HEIGHT/TAILE	WIDTH/LARGEUR	LENGTH/LONGEUR	RAD	PKG	C2 GRADE	C6 GRADE
TSE5	5/16	5/16	1-1/2	1/64	12	SP20202	SP20502
TSE6	3/8	3/8	1-3/4	1/64	12	SP20203	SP20503
TSE8	1/2	1/2	2-1/2	1/32	12	SP20204	SP20504
TSE10	5/8	5/8	3"	1/32	12	SP20205	SP20505
TSE12	3/4	3/4	3-1/2	1/32	12	SP20206	SP20506



Style TRC - SP22

- “TRC” style (round shank) tool for boring to a square shoulder in 30° boring bars or internal chamfering
- C2 version for Cast Iron / Non-Ferrous materials
- C6 Version for Steel / Steel Alloys
- Outil de type “TRC” (queue ronde) pour aléser un Square shoulder dans des barres d’alésage à 30 ° ou chanfreinage à l’intérieur.
- Version C2 pour fonte / matériaux non ferreux
- Version C6 pour alliages acier / acier

NO	DIA	WIDTH FLAT/LARGEUR	LENGTH/LONGEUR	HEIGHT/TAILLE	RAD	PKG	C2 GRADE	C6 GRADE
TRC5	5/16	19/64	1-1/2	7/32	1/64	12	SP22201	SP22501
TRC6	3/8	11/32	1-3/4	9/32	1/64	12	SP22202	SP22502
TRC8	1/2	15/32	2-1/2	3/8	1/32	12	SP22203	SP22503



Style TRE - SP23

- “TRE” style (round shank) tool for boring to a square shoulder in 45° boring bars or boring with a 15° lead angle in 30° boring bars
- C2 version for Cast Iron / Non-Ferrous materials
- C6 Version for Steel / Steel Alloys
- Outil de type “TRE” (queue ronde) pour aléser un Square shoulder dans des barres d’alésage à 45 ° ou chanfreinage à l’intérieur ou avec un angle d’attaque de 15 ° dans barres d’alésage 30 °
- Version C2 pour fonte / matériaux non ferreux
- Version C6 pour alliages acier / acier

NO	DIA	WIDTH FLAT/LARGEUR	LENGTH/LONGEUR	HEIGHT/TAILLE	RAD	PKG	C2 GRADE	C6 GRADE
TRE5	5/16	19/64	1-1/2	7/32	1/64	12	SP23201	SP23501
TRE6	3/8	11/32	1-3/4	9/32	1/64	12	SP23202	SP23502
TRE8	1/2	15/32	2-1/2	3/8	1/32	12	SP23203	SP23503



Style TRG - SP24

- “TRG” style (round shank) tool that is used for shouldering in 90° boring bars.
- Neutral rake
- C2 version for Cast Iron / Non-Ferrous materials
- C6 Version for Steel / Steel Alloys
- Outil de style “TRG” (tige ronde) utilisé pour épauler des barres d’alésage à 90 °
- Inclination neutre
- Version C2 pour fonte / matériaux non ferreux
- Version C6 pour alliages acier / acier

NO	DIA	WIDTH FLAT/LARGEUR	LENGTH/LONGEUR	HEIGHT/TAILLE	PKG	C2 GRADE	C6 GRADE
TRG5	5/16	19/64	1-1/2	13/16	12	SP24204	SP24504
TRG6	3/8	11/32	1-3/4	1/4	12	SP24205	SP24505
TRG8	1/2	15/32	2-1/2	9/32	12	SP24206	SP24506

Miscellaneous Divers



Annular Cutter - AC70·71·72·73

Clarkson Annular Cutter - HSS

- Cutting lengths of 1", 2" 3"
- Annular cutters cut large diameter holes efficiently and quickly
- Unlike traditional twist drills, Annular cutters remove only the periphery of the hole ejecting a slug at the end of the cut

Couteaux Annulaires Clarkson - HSS

- Longueur de coupe de 1", 2" 3"
- Les couteaux annulaires percent les trous de gros diamètre de manière efficace et rapide
- Contrairement aux forets hélicoïdaux traditionnels, les couteaux annulaires enlèvent uniquement la périphérie du trou éjectant une limace à la fin de la coupe

SIZE	DEC	SHANK	1" LOC CODE	2" LOC CODE	3" LOC CODE
7/16	0.4375	3/4	AC71028	AC72028	-
1/2	0.5000	3/4	AC71032	AC72032	-
9/16	0.5625	3/4	AC71036	AC72036	-
5/8	0.6250	3/4	AC71040	AC72040	-
11/16	0.6875	3/4	AC71044	AC72044	-
3/4	0.7500	3/4	AC71048	AC72048	AC73048
13/16	0.8125	3/4	AC71052	AC72052	AC73052
7/8	0.8750	3/4	AC71056	AC72056	AC73056
15/16	0.9375	3/4	AC71060	AC72060	AC73060
1"	1.0000	3/4	AC71100	AC72100	AC73100
1-1/16	1.0625	3/4	AC71104	AC72104	AC73104
1-1/8	1.1250	3/4	AC71108	AC72108	AC73108
1-3/16	1.1875	3/4	AC71112	AC72112	AC73112
1-1/4	1.2500	3/4	AC71116	AC72116	AC73116
1-5/16	1.3125	3/4	AC71120	AC72120	AC73120
1-3/8	1.3750	3/4	AC71124	AC72124	AC73124
1-7/16	1.4375	3/4	AC71128	AC72128	AC73128
1-1/2	1.5000	3/4	AC71132	AC72132	AC73132
1-9/16	1.5625	3/4	AC71136	AC72136	AC73136
1-5/8	1.6250	3/4	AC71140	AC72140	AC73140
1-11/16	1.6875	3/4	AC71144	AC72144	AC73144
1-3/4	1.7500	3/4	AC71148	AC72148	AC73148
1-13/16	1.8125	3/4	AC71152	AC72152	AC73152
1-7/8	1.8750	3/4	AC71156	AC72156	AC73156
1-15/16	1.9375	3/4	AC71160	AC72160	AC73160
2"	2.0000	3/4	AC71200	AC72200	AC73200
2-1/16	2.0625	3/4	AC71204	AC72204	AC73204
2-1/4	2.2500	3/4	AC71216	AC72216	-
CUT PIN FOR 7/16 CUTTERS			AC70101	AC70102	-
CUT PIN FOR 1/2 TO 2-1/4 CUTTERS			AC70001	AC70002	AC70003



Annular Cutter - AC81·82·83

Clarkson Annular Cutter - Cobalt

- Cutting lengths of 1", 2" 3"
- Annular cutters cut large diameter holes efficiently and quickly
- Unlike traditional twist drills, Annular cutters remove only the periphery of the hole ejecting a slug at the end of the cut

Coupeurs Annulaires Clarkson - Cobalt

- Longueur de coupe de 1", 2" 3"
- Les coupeurs annulaires percent les trous de gros diamètre de manière efficace et rapide
- Contrairement aux forets hélicoïdaux traditionnels, les coupeurs annulaires enlèvent uniquement la périphérie du trou éjectant une limace à la fin de la coupe

SIZE	DEC	SHANK	1" LOC CODE	2" LOC CODE	3" LOC CODE
7/16	0.4375	3/4	AC81028	AC82028	-
1/2	0.5000	3/4	AC81032	AC82032	-
9/16	0.5625	3/4	AC81036	AC82036	-
5/8	0.6250	3/4	AC81040	AC82040	-
11/16	0.6875	3/4	AC81044	AC82044	-
3/4	0.7500	3/4	AC81048	AC82048	AC83048
13/16	0.8125	3/4	AC81052	AC82052	AC83052
7/8	0.8750	3/4	AC81056	AC82056	AC83056
15/16	0.9375	3/4	AC81060	AC82060	AC83060
1"	1.0000	3/4	AC81100	AC82100	AC83100
1-1/16	1.0625	3/4	AC81104	AC82104	AC83104
1-1/8	1.1250	3/4	AC81108	AC82108	AC83108
1-3/16	1.1875	3/4	AC81112	AC82112	AC83112
1-1/4	1.2500	3/4	AC81116	AC82116	AC83116
1-5/16	1.3125	3/4	AC81120	AC82120	AC83120
1-3/8	1.3750	3/4	AC81124	AC82124	AC83124
1-7/16	1.4375	3/4	AC81128	AC82128	AC83128
1-1/2	1.5000	3/4	AC81132	AC82132	AC83132
1-9/16	1.5625	3/4	AC81136	AC82136	AC83136
1-5/8	1.6250	3/4	AC81140	AC82140	AC83140
1-11/16	1.6875	3/4	AC81144	AC82144	AC83144
1-3/4	1.7500	3/4	AC81148	AC82148	AC83148
1-13/16	1.8125	3/4	AC81152	AC82152	AC83152
1-7/8	1.8750	3/4	AC81156	AC82156	AC83156
1-15/16	1.9375	3/4	AC81160	AC82160	AC83160
2"	2.0000	3/4	AC81200	AC82200	AC83200
2-1/16	2.0625	3/4	AC81204	AC82204	AC83204
2-1/4	2.2500	3/4	AC81216	AC82216	-
CUT PIN FOR 7/16 CUTTERS			AC70101	AC70102	-
CUT PIN FOR 1/2 TO 2-1/4 CUTTERS			AC70001	AC70002	AC70003



Marking Stamp Set - MS01

Standard Set

- A range of high performance, low cost, precision hand stamps, in a wide choice of character sizes used to permanently mark single characters by indenting.
- Ideal for a whole range of marking uses on anything from Aluminium to Stainless Steel, plastics and some leathers up to a maximum hardness of 38 Rockwell C.
- Sharp Faced engraving style to produce clear positive impressions

Jeux A Caracters Reg.

- Une gamme d'estampes à main de précision hautes performances, économiques, dans un large choix de caractères tailles utilisées pour marquer de manière permanente des caractères uniques en indentant.
- Idéal pour toute une gamme d'utilisations de marquage sur tout, de l'aluminium à l'acier inoxydable, en passant par les plastiques et certains cuirs jusqu'à une dureté maximale de 38 Rockwell C.
- Style de gravure à facettes pointues pour produire des impressions positives claires

NUMBER/NOMBRE 0-9		NUMBER/NOMBRE 0-9		LETTER/LETRE A-Z		LETTER/LETRE A-Z	
FRAC	CODE	FRAC	CODE	FRAC	CODE	FRAC	CODE
1/16	MS01004	1/4	MS01016	1/16	MS01704	1/4	MS01716
3/32	MS01006	5/16	MS01020	3/32	MS01706	5/16	MS01720
1/8	MS01008	3/8	MS01024	1/8	MS01708	3/8	MS01724
5/32	MS01010	1/2	MS01032	5/32	MS01710	1/2	MS01732
3/16	MS01012			3/16	MS01712		



Marking Stamp Set - MS03

Reverse Set

- A range of high performance, low cost, precision hand stamps, in a wide choice of character sizes used to permanently mark single characters by indenting.
- Ideal for a whole range of marking uses on anything from Aluminium to Stainless Steel, plastics and some leathers up to a maximum hardness of 38 Rockwell C.
- Sharp Faced engraving style to produce clear positive impressions

Jeux A Caracters Inverses

- Une gamme d'estampes à main de précision hautes performances, économiques, dans un large choix de caractères tailles utilisées pour marquer de manière permanente des caractères uniques en indentant.
- Idéal pour toute une gamme d'utilisations de marquage sur tout, de l'aluminium à l'acier inoxydable, en passant par les plastiques et certains cuirs jusqu'à une dureté maximale de 38 Rockwell C.
- Style de gravure à facettes pointues pour produire des impressions positives claires

NUMBER/NOMBRE 0-9		LETTER/LETRE A-Z	
FRAC	CODE	FRAC	CODE
1/16	MS03004	1/16	MS03704
1/8	MS03008	1/8	MS03708
5/32	MS03010	5/32	MS03710
3/16	MS03012	3/16	MS03712
1/4	MS03016	1/4	MS03716





Marking Stamp Set - MS05

Heavy Duty Set

- A range of high performance, low cost, precision hand stamps, in a wide choice of character sizes used to permanently mark single characters by indenting.
- Ideal for a whole range of marking uses on anything from Aluminium to Stainless Steel, plastics and some leathers up to a maximum hardness of 38 Rockwell C.
- Sharp Faced engraving style to produce clear positive impressions

Jeux A Caracteres Robustes

- Une gamme d'estampes à main de précision hautes performances, économiques, dans un large choix de caractères tailles utilisées pour marquer de manière permanente des caractères uniques en indentant.
- Idéal pour toute une gamme d'utilisations de marquage sur tout, de l'aluminium à l'acier inoxydable, en passant par les plastiques et certains cuirs jusqu'à une dureté maximale de 38 Rockwell C.
- Style de gravure à facettes pointues pour produire des impressions positives claires

NUMBER/NOMBRE 0-9

FRAC	CODE
1/8	MS05008
3/16	MS05012
1/4	MS05016
5/16	MS05020
3/8	MS05024
1/2	MS05032

LETTER/LETRE A-Z

FRAC	CODE
1/8	MS05708
3/16	MS05712
1/4	MS05716
5/16	MS05720
3/8	MS05724
1/2	MS05732



Marking Stamp - MS2

Individual Marking Stamp

- A range of high performance, low cost, precision hand stamps, in a wide choice of character sizes used to permanently mark single characters by indenting.
- Ideal for a whole range of marking uses on anything from Aluminium to Stainless Steel, plastics and some leathers up to a maximum hardness of 38 Rockwell C.
- Sharp Faced engraving style to produce clear positive impressions

Poincons De Marque A L'Unite

- Une gamme d'estampes à main de précision hautes performances, économiques, dans un large choix de caractères tailles utilisées pour marquer de manière permanente des caractères uniques en indentant.
- Idéal pour toute une gamme d'utilisations de marquage sur tout, de l'aluminium à l'acier inoxydable, en passant par les plastiques et certains cuirs jusqu'à une dureté maximale de 38 Rockwell C.
- Style de gravure à facettes pointues pour produire des impressions positives claires

INDIVIDUAL NUMBER/ NOMBRE INDIVIDUEL

FRAC	CODE
1/16	MS204-<NUMBER>
3/32	MS206-<NUMBER>
1/8	MS208-<NUMBER>
5/32	MS210-<NUMBER>
3/16	MS212-<NUMBER>

INDIVIDUAL NUMBER/ NOMBRE INDIVIDUEL

FRAC	CODE
1/4	MS216-<NUMBER>
5/16	MS220-<NUMBER>
3/8	MS224-<NUMBER>
1/2	MS232-<NUMBER>

INDIVIDUAL LETTER/ LETTER INDIVIDUEL

FRAC	CODE
1/16	MS204-<LETTER>
3/32	MS206-<LETTER>
1/8	MS208-<LETTER>
5/32	MS210-<LETTER>
3/16	MS212-<LETTER>

INDIVIDUAL LETTER/ LETRE INDIVIDUEL

FRAC	CODE
1/4	MS216-<LETTER>
5/16	MS220-<LETTER>
3/8	MS224-<LETTER>
1/2	MS232-<LETTER>



Arch Punch - MS10

Arch (Wad) Punch

- Used to cut perfectly round holes in soft material such as leather, plastic, rubber and card etc.
- Manufactured from a single drop forging, the cutting edge is hardened and ground for a long life

Decoupoirs

- Utilisé pour percer des trous parfaitement ronds dans des matériaux souples tels que le cuir, le plastique, le caoutchouc et le carton, etc
- Fabriqué à partir d'une seule pièce matricée, le tranchant est trempé et rectifié pour une longue durée de vie

FRAC	CODE	FRAC	CODE	FRAC	CODE	FRAC	CODE
1/4	MS10004	3/4	MS10012	1-1/4	MS10104	1-3/4	MS10112
5/16	MS10005	13/16	MS10013	1-5/16	MS10105	1-7/8	MS10114
3/8	MS10006	7/8	MS1001	1-3/8	MS10106	2"	MS10200
7/16	MS10007	15/16	MS10015	1-7/16	MS10107	2-1/8	MS10202
1/2	MS10008	1"	MS10100	1-1/2	MS10108	2-1/4	MS10204
9/16	MS10009	1-1/16	MS10101	1-9/16	MS10109	2-3/8	MS10206
5/8	MS10010	1-1/8	MS10102	1-5/8	MS10110	2-1/2	MS10208
11/16	MS10011	1-3/16	MS10103	1-11/16	MS10111	3"	MS10300



Drill Rod - SS21

W1 Precision Drill Rod - Ground - Polished - 36" Long

- Ground, polished
- 36" long
- A water-hardening and cold-drawn drill rod with through-hardening qualities that affords it optimum response to heat treatment and provides toughness and maximum wear-resistance in many maintenance applications

W1 Acier A Foret De Precision - Poli - Longueur 36"

- Poli
- 36 "de long
- Une tige de forage durcissant à l'eau et étirée à froid avec les qualités de durcissement qui permettent une réponse optimale au traitement thermique et fournit la ténacité et une résistance à l'usure maximale dans nombreuses applications de maintenance

FRAC	CODE	FRAC	CODE	FRAC	CODE	FRAC	CODE
1/16	SS21004	13/64	SS21013	3/8	SS21024	7/8	SS21056
5/64	SS21005	7/32	SS21014	13/32	SS21026	15/16	SS21060
3/32	SS21006	15/64	SS21015	7/16	SS21028	1"	SS21100
7/64	SS21007	1/4	SS21016	1/2	SS21032	1-1/16	SS21104
1/8	SS21008	17/64	SS21017	9/16	SS21036	1-1/8	SS21108
9/64	SS21009	9/32	SS21018	5/8	SS21040	1-1/4	SS21116
5/32	SS21010	5/16	SS21020	11/16	SS21044	1-3/8	SS21124
11/64	SS21011	11/32	SC21022	3/4	SS21048	1-1/2	SS21132
3/16	SS21012			13/16	SS21052		



Drill Rod - SS33

O1 Precision Drill Rod - Ground - Polished - 36" Long

- Ground, polished
- 36" long
- A general-purpose oil-hardening tool steel that is versatile and suitable for a wide variety of cold work applications

FRAC	CODE	FRAC	CODE
1/16	SS33004	3/8	SS33024
1/8	SS33008	7/16	SS33028
3/16	SS33012	1/2	SS33032
1/4	SS33016	9/16	SS33036
5/16	SS33020		

O1 Acier A Foret De Precision - Poli - Longueur 36"

- Poli
- 36 "de long
- Un acier à outils à usage général, à durcissement à l'huile, polyvalent et adapté à une grande variété d'application à froid

FRAC	CODE	FRAC	CODE
5/8	SS33040	1-1/4	SS33116
3/4	SS33048	1-3/8	SS33124
7/8	SS33056	1-1/2	SS33132
1"	SS33100		
1-1/8	SS33108		



Tool Bits - T001-T006

Tool Bits - Ground - Square

- Ground HSS or Cobalt
- High speed steel (HSS) provides good wear resistance and can be used in general purpose applications for both ferrous and nonferrous materials.

SQUARE CARRE	LENGTH LONGEUR	HSS M2CODE	COBALT CODE
1/8	2-1/2	T001025	T006025
3/16	2-1/2	T001125	T006125
1/4	2-1/2	T001225	T006225
1/4	4"	T001227	T006227
1/4	6"	T001229	T006229
1/4	8"	T001231	T006231
5/16	2-1/2	T001325	T006325
5/16	4"	T001340	T006340
5/16	6"	T001329	T006329
3/8	3"	T001430	T006430
3/8	4"	T001432	T006432
3/8	6"	T001434	T006434
3/8	8"	T001436	T006436
7/16	3-1/2	T001535	T006535

Burins Carre

- Poli HSS or Cobalt
- L'acier rapide (HSS) offre une bonne résistance à l'usure et peut être utilisé à des applications générales pour les matériaux ferreux et non ferreux.

SQUARE CARRE	LENGTH LONGEUR	HSS M2CODE	COBALT CODE
1/2	4"	T001640	T006640
1/2	6"	T001642	T006642
1/2	8"	T001644	T006644
5/8	4"	T001744	-
5/8	4-1/2	T001745	T006745
5/8	8"	T001748	T006748
3/4	5"	T001850	T006850
3/4	8"	T001852	-
7/8	6"	T001960	T006960
1"	7"	T001970	T006970
1-1/8	8"	T001980	-
1-1/4	7"	T001990	T006990
1-1/4	9"	-	T006992
1-1/2	10"	T001995	-



Tool Bits - T002·T007

Tool Bits - Ground - Round

- Ground HSS or Cobalt
- Cobalt provides better wear and heat resistance vs HSS

DIA	LENGTH LONGEUR	HSS M2CODE	COBALT M42 CODE
3/16	2-1/2	T002325	T007325
3/16	3"	-	T007330
1/4	2-1/2	T002425	T007425
1/4	3"	-	T007430
1/4	4"	-	T007440
5/16	3"	-	T007530
5/16	4"	-	T007540
3/8	3"	T002630	T007630

Burins Ronde

- Poli HSS or Cobalt
- Cobalt offre une bonne resistance vs HSS

DIA	LENGTH LONGEUR	HSS M2CODE	COBALT M42 CODE
3/8	4"	-	T007640
1/2	4"	T002740	T007740
1/2	6"	-	T007760
5/8	4"	-	T007840
5/8	6"	-	T007860
3/4	4"	-	T007940
3/4	6"	-	T007960
1"	6"	T002966	T007966



Parting Off Blade - T056

Parting Off Blades - HSS

- HSS
- Bright finish provides a smooth, polished finish on the tool. It increases chip flow in softer materials such as aluminum, wood and plastic.

HEIGHT TAILLE	WIDTH 1 LARGEUR 1	WIDTH 2 LARGEUR 2	LENGTH LONGEUR	CODE
1/2	3/32	1/16	4-1/2	T056031
1/2	1/8	1/16	6"	T056041
5/8	3/32	1/16	5"	T056042
5/8	3/32	1/16	6"	T056052
5/8	1/8	1/16	6"	T056062

Lames A Saigner - Acier Rapide

- HSS
- La finition brillante donne une finition lisse et polie à l'outil. Il augmente le débit de copeaux avec des matériaux tels que l'aluminium, le bois et le plastique.

HEIGHT TAILLE	WIDTH 1 LARGEUR 1	WIDTH 2 LARGEUR 2	LENGTH LONGEUR	CODE
5/8	1/8	3/32	6"	T056072
7/8	1/8	1/16	7"	T056044
3/4	1/8	1/16	6"	T056043
1"	3/16	1/8	8"	T056045



Thread Plug Gage

TG01·TG05

Taper Lock Thread Plug Gage

- Our gages are made of tool steel hardened to Rockwell C 60-62 and then go through a cryogenic treatment process to ensure their stability
- Go and NoGo Thread Gages are used in manufacturing applications to provide the user with a quick and accurate method of inspecting and verifying that their threaded product meets the required specification
- Metric Thread Gages are also available in standard 6H and 6G Tolerance

Gage A Filet "Taper Lock"

- Nos jauges sont en acier trempé selon Rockwell C 60-62 et sont cryogéniquement congelés pour assurer leur stabilité
- Les jauges de fil Go and NoGo sont utilisées dans les applications de fabrication pour fournir à l'utilisateur une méthode rapide et précise d'inspection et de vérification de la conformité de leur produit fileté aux spécification requise
- Les jauges de filetage métriques sont également disponibles dans les tolérances standard 6H et 6G

DIA	GAGE 2B GO	GAGE 2B NO GO	GAGE 3B GO	GAGE 3B NO GO	HANDLE NO	HANDLE CODE
0-80 NF	TG02100	TG03100	TG04100	TG05100	#000	TG01001
1-64 NC	TG02001	TG03001	TG04001	TG05001	#000	TG01001
1-72 NF	TG02101	TG03101	TG04101	TG05101	#000	TG01001
2-56 NC	TG02002	TG03002	TG04002	TG05002	#000	TG01001
2-64 NF	TG02102	TG03102	TG04102	TG05102	#000	TG01001
3-48 NC	TG02003	TG03003	TG04003	TG05003	#000	TG01001
3-56 NF	TG02103	TG03103	TG04103	TG05103	#000	TG01001
4-40 NC	TG02004	TG03004	TG04004	TG05004	#00	TG01002
4-48 NF	TG02104	TG03104	TG04104	TG05104	#00	TG01002
5-40 NC	TG02005	TG03005	TG04005	TG05005	#00	TG01002
5-44 NF	TG02105	TG03105	TG04105	TG05105	#00	TG01002
6-32 NC	TG02006	TG03006	TG04006	TG05006	#00	TG01002
6-40 NF	TG02106	TG03106	TG04106	TG05106	#00	TG01002
8-32 NC	TG02008	TG03008	TG04008	TG05008	#0	TG01003
8-36 NF	TG02108	TG03108	TG04108	TG05108	#0	TG01003
10-24 NC	TG02010	TG03010	TG04010	TG05010	#0	TG01003
10-32 NF	TG02110	TG03110	TG04110	TG05110	#0	TG01003
12-24 NC	TG02012	TG03012	TG04012	TG05012	#0	TG01003
12-28 NF	TG02112	TG03112	TG04112	TG05112	#0	TG01003
1/4-20 NC	TG02016	TG03016	TG04016	TG05016	#1	TG01004
1-4-28 NF	TG02116	TG03116	TG04116	TG05116	#1	TG01004
5/16-18 NC	TG02020	TG03020	TG04020	TG05020	#1	TG01004
5/16-24 NF	TG02120	TG03120	TG04120	TG05120	#1	TG01004
3/8-16 NC	TG02024	TG03024	TG04024	TG05024	#2	TG01005
3/8-24 NF	TG02124	TG03124	TG04124	TG05124	#2	TG01005
7/16-14 NC	TG02028	TG03028	TG04028	TG05028	#2	TG01005
7/16-20 NF	TG02128	TG03128	TG04128	TG05128	#2	TG01005
1/2-13 NC	TG02032	TG03032	TG04032	TG05032	#2	TG01005
1/2-20 NF	TG02132	TG03132	TG04132	TG05132	#2	TG01005
9/16-12 NC	TG02036	TG03036	TG04036	TG05036	#3	TG01006
9/16-18 NF	TG02136	TG03136	TG04136	TG05136	#3	TG01006
5/8-11 NC	TG02040	TG03040	TG04040	TG05040	#3	TG01006
5/8-18 NF	TG02140	TG03140	TG04140	TG05140	#3	TG01006
3/4-10 NC	TG02048	TG03048	TG04048	TG05048	#3	TG01006
3/4-16 NF	TG02148	TG03148	TG04148	TG05148	#3	TG01006
7/8-9 NC	TG02056	TG03056	TG04056	TG05056	#4	TG01007
7/8-14 NF	TG02156	TG03156	TG04156	TG05156	#4	TG01007
1"-8 NC	TG02064	TG03064	TG04064	TG05064	#4	TG01007
1"-12 NF	TG02164	TG03164	TG04164	TG05164	#4	TG01007
1"-14 NS	TG02264	TG03264	TG04264	TG05264	#4	TG01007

Thread Pipe Gage - TG08·10

Pipe Thread Gage - NPT

- Our gages are made of tool steel hardened to Rockwell C 60-62 and then go through a cryogenic treatment process to ensure their stability
- Go and NoGo Thread Gages are used in manufacturing applications to provide the user with a quick and accurate method of inspecting and verifying that their threaded product meets the required specification

Gage A Filet - NPT

- Nos jauges sont en acier trempé selon Rockwell C 60-62 et sont cryogéniquement congelés pour assurer leur stabilité
- Les jauges de fil Go and NoGo sont utilisées dans les applications de fabrication pour fournir à l'utilisateur une méthode rapide et précise d'inspection et de vérification de la conformité de leur produit fileté aux spécification requise



DIM	SCREW GAGE 3B NO GO	RING GAGE 3B NO GO	HANDLE NO	HANDLE CODE
1/16-27 NPT	TG08001	TG10001	#1	TG01004
1/8-27 NPT	TG08002	TG10002	#2	TG01005
1/4-18 NPT	TG08004	TG10004	#3	TG01006
3/8-18 NPT	TG08006	TG10006	#3	TG01006
1/2-14 NPT	TG08008	TG10008	#4	TG01013
3/4-14 NPT	TG08012	TG10012	#4	TG01013
1-11.5 NPT	TG08016	TG10016	#5	TG01014
1-1/4 11.5 NPT	TG08020	TG10020	#5	TG01014
1-1/2 11.5 NPT	TG08024	TG10024	#5	TG01014
2-11.5 NPT	TG08032	TG10032	#5	TG01014

Maintenance Tools

Linge entre tien

The Maintenance Section features a variety of cutting tools that offer a more economical option while still providing very good quality.

Typical applications for these tools would include construction, maintenance, repair, and general purpose use.

Tools included are drills, taps, center drills, and screw extractors.

La section Maintenance comprend une variété d'outils de coupe qui offrent une option plus économique tout en offrant une très bonne qualité.

Les applications typiques de ces outils incluent la construction, la maintenance, la réparation et l'utilisation générale.

Les outils inclus sont les forets, les tarauds, les forets à centrer et les extracteurs de vis et boulons.



Jobber Drills - ZD16

Hyper HSS Ground Flute Jobber Drill

- HSS
- 118 Deg point suitable for general purpose drilling in a wide range of materials
- Steam Oxide surface treatment increases lubricant retention and wear resistance and reduces chip welding

CODE	FRAC	NO	DEC	FLT	OA	PKG
ZD16260		60	0.0400	11/16	1-5/8	12
ZD16259		59	0.0410	11/16	1-5/8	12
ZD16258		58	0.0420	11/16	1-5/8	12
ZD16257		57	0.0430	3/4	1-3/4	12
ZD16256		56	0.0465	3/4	1-3/4	12
ZD16003	3/64		0.0469	7/8	1-7/8	12
ZD16255		55	0.0520	7/8	1-7/8	12
ZD16254		54	0.0550	7/8	1-7/8	12
ZD16253		53	0.0595	7/8	1-7/8	12
ZD16004	1/16		0.0625	7/8	1-7/8	12
ZD16252		52	0.0635	7/8	1-7/8	12
ZD16251		51	0.0670	1"	2"	12
ZD16250		50	0.0700	1"	2"	12
ZD16249		49	0.0730	1"	2"	12
ZD16248		48	0.0760	1"	2"	12
ZD16005	5/64		0.0781	1"	2"	12
ZD16247		47	0.0785	1"	2"	12
ZD16246		46	0.0810	1-1/8	2-1/8	12
ZD16245		45	0.0820	1-1/8	2-1/8	12
ZD16244		44	0.0860	1-1/8	2-1/8	12
ZD16243		43	0.0890	1-1/4	2-1/4	12
ZD16242		42	0.0935	1-1/4	2-1/4	12
ZD16006	3/32		0.0938	1-1/4	2-1/4	12
ZD16241		41	0.0960	1-3/8	2-3/8	12
ZD16240		40	0.0980	1-3/8	2-3/8	12
ZD16239		39	0.0995	1-3/8	2-3/8	12

Forets A Queue Cylindrique Hyper

- HSS
- 118 ° C approprié pour le perçage général dans une large gamme de matériaux
- Le traitement de surface à l'oxyde de vapeur augmente la rétention de lubrifiant et la résistance à l'usure et réduit le soudage des copeaux

CODE	FRAC	NO	DEC	FLT	OA	PKG
ZD16238		38	0.1015	1-7/16	2-1/2	12
ZD16237		37	0.1040	1-7/16	2-1/2	12
ZD16236		36	0.1065	1-7/16	2-1/2	12
ZD16007	7/64		0.1094	1-1/2	2-5/8	12
ZD16235		35	0.1100	1-1/2	2-5/8	12
ZD16234		34	0.1110	1-1/2	2-5/8	12
ZD16233		33	0.1130	1-1/2	2-5/8	12
ZD16232		32	0.1160	1-5/8	2-3/4	12
ZD16231		31	0.1200	1-5/8	2-3/4	12
ZD16008	1/8		0.1250	1-5/8	2-3/4	12
ZD16230		30	0.1285	1-5/8	2-3/4	12
ZD16229		29	0.1360	1-3/4	2-7/8	12
ZD16228		28	0.1405	1-3/4	2-7/8	12
ZD16009	9/64		0.1406	1-3/4	2-7/8	12
ZD16227		27	0.1440	1-7/8	3"	12
ZD16226		26	0.1470	1-7/8	3"	12
ZD16225		25	0.1495	1-7/8	3"	12
ZD16224		24	0.1520	2"	3-1/8	12
ZD16223		23	0.1540	2"	3-1/8	12
ZD16010	5/32		0.1562	2"	3-1/8	12
ZD16222		22	0.1570	2"	3-1/8	12
ZD16221		21	0.1590	2-1/8	3-1/4	12
ZD16220		20	0.1610	2-1/8	3-1/4	12
ZD16219		19	0.1660	2-1/8	3-1/4	12
ZD16218		18	0.1695	2-1/8	3-1/4	12
ZD16011	11/64		0.1719	2-1/8	3-1/4	12



Jobber Drills - ZD16

CODE	FRAC	NO	DEC	FLT	OA	PKG
ZD16217		17	0.1730	2-3/16	3-3/8	12
ZD16216		16	0.1770	2-3/16	3-3/8	12
ZD16215		15	0.1800	2-3/16	3-3/8	12
ZD16214		14	0.1820	2-3/16	3-3/8	12
ZD16213		13	0.1850	2-5/16	3-1/2	12
ZD16012	3/16		0.1875	2-5/16	3-1/2	12
ZD16212		12	0.1890	2-5/16	3-1/2	12
ZD16211		11	0.1910	2-5/16	3-1/2	12
ZD16210		10	0.1935	2-7/16	3-5/8	12
ZD16209		9	0.1960	2-7/16	3-5/8	12
ZD16208		8	0.1990	2-7/16	3-5/8	12
ZD16207		7	0.2010	2-7/16	3-5/8	12
ZD16013	13/64		0.2031	2-7/16	3-5/8	12
ZD16206		6	0.2040	2-1/2	3-3/4	12
ZD16205		5	0.2055	2-1/2	3-3/4	12
ZD16204		4	0.2090	2-1/2	3-3/4	12
ZD16203		3	0.2130	2-1/2	3-3/4	12
ZD16014	7/32		0.2188	2-1/2	3-3/4	12
ZD16202		2	0.2210	2-5/8	3-7/8	12
ZD16201		1	0.2280	2-5/8	3-7/8	12
ZD16101		A	0.2340	2-5/8	3-7/8	12
ZD16015	15/64		0.2344	2-5/8	3-7/8	12
ZD16102		B	0.2380	2-3/4	4"	12
ZD16103		C	0.2420	2-3/4	4"	12
ZD16104		D	0.2460	2-3/4	4"	12
ZD16016	1/4		0.2500	2-3/4	4"	12
ZD16105		E	0.2500	2-3/4	4"	12
ZD16106		F	0.2570	2-7/8	4-1/8	12
ZD16107		G	0.2610	2-7/8	4-1/8	12
ZD16017	17/64		0.2656	2-7/8	4-1/8	12
ZD16108		H	0.2660	2-7/8	4-1/8	12
ZD16109		I	0.2720	2-7/8	4-1/8	12

CODE	FRAC	NO	DEC	FLT	OA	PKG
ZD16110		J	0.2770	2-7/8	4-1/8	12
ZD16111		K	0.2810	2-15/16	4-1/4	12
ZD16018	9/32		0.2812	2-15/16	4-1/4	12
ZD16112		L	0.2900	2-15/16	4-1/4	12
ZD16113		M	0.2950	3-1/16	4-3/8	12
ZD16019	19/64		0.2969	3-1/16	4-3/8	12
ZD16114		N	0.3020	3-1/16	4-3/8	12
ZD16020	5/16		0.3125	3-3/16	4-1/2	12
ZD16115		O	0.3160	3-3/16	4-1/2	12
ZD16116		P	0.3230	3-5/16	4-5/8	6
ZD16021	21/64		0.3281	3-5/16	4-5/8	6
ZD16117		Q	0.3320	3-7/16	4-3/4	6
ZD16118		R	0.3390	3-7/16	4-3/4	6
ZD16022	11/32		0.3438	3-7/16	4-3/4	6
ZD16119		S	0.3480	3-1/2	4-7/8	6
ZD16120		T	0.3580	3-1/2	4-7/8	6
ZD16023	23/64		0.3594	3-1/2	4-7/8	6
ZD16121		U	0.3680	3-5/8	5"	6
ZD16024	3/8		0.3750	3-5/8	5"	6
ZD16122		V	0.3770	3-5/8	5"	6
ZD16123		W	0.3860	3-3/4	5-1/8	6
ZD16025	25/64		0.3906	3-3/4	5-1/8	6
ZD16124		X	0.3970	3-3/4	5-1/8	6
ZD16125		Y	0.4040	3-7/8	5-1/4	6
ZD16026	13/32		0.4062	3-7/8	5-1/4	6
ZD16126		Z	0.4130	3-7/8	5-1/4	6
ZD16027	27/64		0.4219	3-15/16	5-3/8	6
ZD16028	7/16		0.4375	4-1/16	5-1/2	6
ZD16029	29/64		0.4531	4-3/16	5-5/8	6
ZD16030	15/32		0.4688	4-5/16	5-3/4	6
ZD16031	31/64		0.4844	4-3/8	5-7/8	6
ZD16032	1/2		0.5000	4-1/2	6"	6



Jobber Drill Sets - ZD16

Hyper Jobber Drill Sets

- HSS
- 118 Deg point suitable for general purpose drilling in a wide range of materials
- Steam Oxide surface treatment increases lubricant retention and wear resistance and reduces chip welding

CODE	PCS	MTL	FROM	TO	BY
ZD16813	#13	HSS	1/16	1/4	1/64
ZD16815	#15	HSS	1/16	1/2	1/32
ZD16821	#21	HSS	1/16	3/8	1/64
ZD16829	#29	HSS	1/16	1/2	1/32

Jeux De Forets A Queue Cylindrique Hyper

- HSS
- 118 ° C approprié pour le perçage général dans une large gamme de matériaux
- Le traitement de surface à l'oxyde de vapeur augmente la rétention de lubrifiant et la résistance à l'usure et réduit le soudage des copeaux

CODE	PCS	MTL	FROM	TO	BY
ZD16826	#26	HSS	A	Z	
ZD16860	#60	HSS	#1	#60	
ZD16915	#115	HSS	1/16	1/2	1/64
			A	Z	
			1	60	



Stub Drills - ZD12

Hyper Stub Drill - HSS - Split Point

- Alternatively known as Screw Machine Length Drills
- HSS
- Black Oxide
- 135 Deg Split Point eliminates "walking" and reduces thrust force
- Short flute and overall length provide maximum rigidity
- Recommended for drilling a wide range of low to medium strength materials

CODE	FRAC	DEC	FLT	OA	PKG
ZD12008	1/8	0.1250	11/16	1-15/16	10
ZD12010	5/32	0.1562	7/8	2-5/32	10
ZD12012	3/16	0.1875	1-1/32	2-7/16	10
ZD12014	7/32	0.2188	1-1/8	2-19/32	10

Forets Hyper Serie Extra Courte - Pointe En Croix

- Également connu sous le nom de forets à longueur de vis
- HSS
- Oxyde noir
- Le point de division de 135 degrés élimine la «marche» et réduit la force de poussée
- La flûte courte et la longueur totale offrent une rigidité maximal
- Recommandé pour percer une large gamme de matériaux de résistance faible à moyenne

CODE	FRAC	DEC	FLT	OA	PKG
ZD12016	1/4	0.2500	1-7/32	2-3/4	10
ZD12018	9/32	0.2812	1-5/16	2-29/32	10
ZD12020	5/16	0.3125	1-7/16	3-1/8	10
ZD12024	3/8	0.3750	1-11/16	3-1/2	5



Prentice Drills - ZD50

Hyper Prentice Drill - HSS - 1/2" Shank (Silver & Deming)

- HSS
- 118 Deg point
- 1/2" shank expands the range of 1/2" drill chucks
- For general purpose drilling in low to medium strength materials

CODE	FRAC	DEC	FLT	OA	PKG
ZD50033	33/64	0.5156	3"	6"	1
ZD50534	17/32	0.5313	3"	6"	1
ZD50035	35/64	0.5469	3"	6"	1
ZD50536	9/16	0.5625	3"	6"	1
ZD50037	37/64	0.5781	3"	6"	1
ZD50038	19/32	0.5938	3"	6"	1
ZD50039	39/64	0.6094	3"	6"	1
ZD50540	5/8	0.6250	3"	6"	1
ZD50041	41/64	0.6406	3"	6"	1
ZD50542	21/32	0.6563	3"	6"	1
ZD50043	43/64	0.6719	3"	6"	1
ZD50544	11/16	0.6875	3"	6"	1
ZD50045	45/64	0.7031	3"	6"	1
ZD50046	23/32	0.7188	3"	6"	1
ZD50047	47/64	0.7344	3"	6"	1
ZD50548	3/4	0.7500	3"	6"	1
ZD50049	49/64	0.7656	3"	6"	1
ZD50050	25/32	0.7813	3"	6"	1
ZD50051	51/64	0.7969	3"	6"	1
ZD50552	13/16	0.8125	3"	6"	1
ZD50553	53/64	0.8281	3"	6"	1
ZD50054	27/32	0.8438	3"	6"	1

Forets Hyper A Queue De 1/2" - Acier Rapide

- HSS
- 118 degrés
- La tige de 1/2" élargit la gamme des mandrins de perceuse de 1/2"
- Pour le forage général dans des matériaux de résistance faible à moyenne

CODE	FRAC	DEC	FLT	OA	PKG
ZD50555	55/64	0.8594	3"	6"	1
ZD50556	7/8	0.8750	3"	6"	1
ZD50557	57/64	0.8906	3"	6"	1
ZD50058	29/32	0.9063	3"	6"	1
ZD50559	59/64	0.9219	3"	6"	1
ZD50060	15/16	0.9375	3"	6"	1
ZD50561	61/64	0.9531	3"	6"	1
ZD50062	31/32	0.9688	3"	6"	1
ZD50563	63/64	0.9844	3"	6"	1
ZD50600	1"	1.0000	3"	6"	1
ZD50102	1-1/32	1.0313	3"	6"	1
ZD50104	1-1/16	1.0625	3"	6"	1
ZD50106	1-3/32	1.0938	3"	6"	1
ZD50108	1-1/8	1.1250	3"	6"	1
ZD50110	1-5/32	1.1563	3"	6"	1
ZD50112	1-3/16	1.1875	3"	6"	1
ZD50116	1-1/4	1.2500	3"	6"	1
ZD50620	1-5/16	1.3125	3"	6"	1
ZD50124	1-3/8	1.4	3"	6"	1
ZD50128	1-7/16	1.4	3"	6"	1
ZD50132	1-1/2	1.5	3"	6"	1



Prentice Drill Sets - ZD50

Hyper Prentice Drill Sets

- HSS
- 118 Deg point
- 1/2" shank expands the range of 1/2" drill chucks
- For general purpose drilling in low to medium strength materials

Jeux De Forets A Queue Reduit Hyper

- HSS
- 118 degrés
- La tige de 1/2" élargit la gamme des mandrins de perceuse de 1/2"
- Pour le forage général dans des matériaux de résistance faible à moyenne

CODE	NO	MTL	INCLUDES	PCS
ZD50705	#5HP	HSS	9/16, 5/8, 3/4, 7/8 1"	5
ZD50708	#8HP	HSS	9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1"	8



Morse Taper Drills - ZD30

Hyper Morse Taper Shank Drill

- HSS
- 118 Deg Split point eliminates “walking” and reduces thrust force
- For general purpose drilling in mild steel and pre hard tool steel

Forets A Queue Conique Morse

- HSS
- Le point de partage à 118 degrés élimine la «marche» et réduit la force de poussée
- Pour le perçage à usage général en acier doux et en acier à outil dur

CODE	FRAC	MTS	DEC	FLT	OA	PKG
ZD30008	1/8	#1	0.1250	1-7/8	5-1/8	1
ZD30009	9/64	#1	0.1406	2-1/8	5-3/8	1
ZD30010	5/32	#1	0.1562	2-1/8	5-3/8	1
ZD30011	11/64	#1	0.1719	2-1/2	5-3/4	1
ZD30012	3/16	#1	0.1875	2-1/2	5-3/4	1
ZD30013	13/64	#1	0.2031	2-3/4	6"	1
ZD30014	7/32	#1	0.2188	2-3/4	6"	1
ZD30015	15/64	#1	0.2344	2-7/8	6-1/8	1
ZD30016	1/4	#1	0.2500	2-7/8	6-1/8	1
ZD30017	17/64	#1	0.2656	3"	6-1/4	1
ZD30018	9/32	#1	0.2812	3"	6-1/4	1
ZD30019	19/64	#1	0.2969	3-1/8	6-3/8	1
ZD30020	5/16	#1	0.3125	3-1/8	6-3/8	1
ZD30021	21/64	#1	0.3281	3-1/4	6-1/2	1
ZD30022	11/32	#1	0.3438	3-1/4	6-1/2	1
ZD30023	23/64	#1	0.3594	3-1/2	6-3/4	1
ZD30024	3/8	#1	0.3750	3-1/2	6-3/4	1
ZD30025	25/64	#1	0.3906	3-5/8	7"	1
ZD30026	13/32	#1	0.4062	3-5/8	7"	1
ZD30027	27/64	#1	0.4219	3-7/8	7-1/4	1
ZD30028	7/16	#1	0.4375	3-7/8	7-1/4	1
ZD30029	29/64	#1	0.4531	4-1/8	7-1/2	1
ZD30030	15/32	#1	0.4688	4-1/8	7-1/2	1
ZD30031	31/64	#2	0.4844	4-3/8	8-1/4	1
ZD30032	1/2	#2	0.5000	4-3/8	8-1/4	1
ZD30033	33/64	#2	0.5156	4-5/8	8-1/2	1
ZD30034	17/32	#2	0.5312	4-5/8	8-1/2	1
ZD30035	35/64	#2	0.5469	4-7/8	8-3/4	1
ZD30036	9/16	#2	0.5625	4-7/8	8-3/4	1
ZD30037	37/64	#2	0.5781	4-7/8	8-3/4	1

CODE	FRAC	MTS	DEC	FLT	OA	PKG
ZD30038	19/32	#2	0.5938	4-7/8	8-3/4	1
ZD30039	39/64	#2	0.6094	4-7/8	8-3/4	1
ZD30040	5/8	#2	0.6250	4-7/8	8-3/4	1
ZD30041	41/64	#2	0.6406	5-1/8	9"	1
ZD30042	21/32	#2	0.6562	5-1/8	9"	1
ZD30043	43/64	#2	0.6719	5-3/8	9-1/4	1
ZD30044	11/16	#2	0.6875	5-3/8	9-1/4	1
ZD30045	45/64	#2	0.7031	5-5/8	9-1/2	1
ZD30046	23/32	#2	0.7188	5-5/8	9-1/2	1
ZD30047	47/64	#2	0.7344	5-7/8	9-3/4	1
ZD30048	3/4	#2	0.7500	5-7/8	9-3/4	1
ZD30049	49/64	#2	0.7656	6"	9-7/8	1
ZD30050	25/32	#2	0.7812	6"	9-7/8	1
ZD30051	51/64	#3	0.7969	6-1/8	10-3/4	1
ZD30052	13/16	#3	0.8125	6-1/8	10-3/4	1
ZD30053	53/64	#3	0.8281	6-1/8	10-3/4	1
ZD30054	27/32	#3	0.8438	6-1/8	10-3/4	1
ZD30055	55/64	#3	0.8594	6-1/8	10-3/4	1
ZD30056	7/8	#3	0.8750	6-1/8	10-3/4	1
ZD30057	57/64	#3	0.8906	6-1/8	10-3/4	1
ZD30058	29/32	#3	0.9062	6-1/8	10-3/4	1
ZD30059	59/64	#3	0.9219	6-1/8	10-3/4	1
ZD30060	15/16	#3	0.9375	6-1/8	10-3/4	1
ZD30061	61/64	#3	0.9531	6-3/8	11"	1
ZD30062	31/32	#3	0.9688	6-3/8	11"	1
ZD30063	63/64	#3	0.9844	6-3/8	11"	1
ZD30100	1"	#3	1.0000	6-3/8	11"	1
ZD30101	1-1/64	#3	1.0156	6-1/2	11-1/8	1
ZD30102	1-1/32	#3	1.0312	6-1/2	11-1/8	1
ZD30103	1-3/64	#3	1.0469	6-5/8	11-1/4	1



Morse Taper Drills - ZD30

CODE	FRAC	MTS	DEC	FLT	OA	PKG
ZD30104	1-1/16	#3	1.0625	6-5/8	11-1/4	1
ZD30105	1-5/64	#4	1.0781	6-7/8	12-1/2	1
ZD30106	1-3/32	#4	1.0938	6-7/8	12-1/2	1
ZD30107	1-7/64	#4	1.1094	7-1/8	12-3/4	1
ZD30108	1-1/8	#4	1.1250	7-1/8	12-3/4	1
ZD30109	1-9/64	#4	1.1406	7-1/4	12-7/8	1
ZD30110	1-5/32	#4	1.1562	7-1/4	12-7/8	1
ZD30111	1-11/64	#4	1.1719	7-3/8	13"	1
ZD30112	1-3/16	#4	1.1875	7-3/8	13"	1
ZD30113	1-13/64	#4	1.2031	7-1/2	13-1/8	1
ZD30114	1-7/32	#4	1.2188	7-1/2	13-1/8	1
ZD30115	1-15/64	#4	1.2344	7-7/8	13-1/2	1
ZD30116	1-1/4	#4	1.2500	7-7/8	13-1/2	1
ZD30117	1-17/64	#4	1.2656	8-1/2	14-1/8	1
ZD30118	1-9/32	#4	1.2812	8-1/2	14-1/8	1
ZD30119	1-19/64	#4	1.2969	8-5/8	14-1/4	1
ZD30120	1-5/16	#4	1.3125	8-5/8	14-1/4	1
ZD30121	1-21/64	#4	1.3281	8-3/4	14-3/8	1
ZD30122	1-11/32	#4	1.3438	8-3/4	14-3/8	1
ZD30123	1-23/64	#4	1.3594	8-7/8	14-1/2	1
ZD30124	1-3/8	#4	1.3750	8-7/8	14-1/2	1
ZD30125	1-25/64	#4	1.3906	9"	14-5/8	1
ZD30126	1-13/32	#4	1.4062	9"	14-5/8	1
ZD30127	1-27/64	#4	1.4219	9-1/8	14-1/4	1
ZD30128	1-7/16	#4	1.4375	9-1/8	14-1/4	1
ZD30129	1-29/64	#4	1.4531	9-1/4	14-7/8	1
ZD30130	1-15/32	#4	1.4688	9-1/4	14-7/8	1
ZD30131	1-31/64	#4	1.4844	9-3/8	15"	1
ZD30132	1-1/2	#4	1.5000	9-3/8	15"	1
ZD30133	1-33/64	#5	1.5156	9-3/8	16-3/8	1
ZD30134	1-17/32	#5	1.5312	9-3/8	16-3/8	1
ZD30135	1-35/64	#5	1.5469	9-5/8	16-5/8	1
ZD30136	1-9/16	#5	1.5625	9-5/8	16-5/8	1
ZD30137	1-37/64	#5	1.5781	9-7/8	16-7/8	1
ZD30138	1-19/32	#5	1.5938	9-7/8	16-7/8	1

CODE	FRAC	MTS	DEC	FLT	OA	PKG
ZD30139	1-39/64	#5	1.6094	10"	17"	1
ZD30140	1-5/8	#5	1.6250	10"	17"	1
ZD30141	1-41/64	#5	1.6406	10-1/8	17-1/8	1
ZD30142	1-21/32	#5	1.6562	10-1/8	17-1/8	1
ZD30143	1-43/64	#5	1.6719	10-1/8	17-1/8	1
ZD30144	1-11/16	#5	1.6875	10-1/8	17-1/8	1
ZD30145	1-45/64	#5	1.7031	10-1/8	17-1/8	1
ZD30146	1-23/32	#5	1.7188	10-1/8	17-1/8	1
ZD30147	1-47/64	#5	1.7344	10-1/8	17-1/8	1
ZD30148	1-3/4	#5	1.7500	10-1/8	17-1/8	1
ZD30150	1-25/32	#5	1.7812	10-1/8	17-1/8	1
ZD30152	1-13/16	#5	1.8125	10-1/8	17-1/8	1
ZD30154	1-27/32	#5	1.8438	10-1/8	17-1/8	1
ZD30156	1-7/8	#5	1.8750	10-3/8	17-3/8	1
ZD30158	1-29/32	#5	1.9062	10-3/8	17-3/8	1
ZD30160	1-15/16	#5	1.9375	10-3/8	17-3/8	1
ZD30162	1-31/32	#5	1.9688	10-3/8	17-3/8	1
ZD30200	2"	#5	2.0000	10-3/8	17-3/8	1
ZD30204	2-1/16	#5	2.0625	10-1/4	17-3/8	1
ZD30208	2-1/8	#5	2.1250	10-1/4	17-3/8	1
ZD30212	2-3/16	#5	2.1875	10-1/4	17-3/8	1
ZD30216	2-1/4	#5	2.2500	10-1/8	17-3/8	1
ZD30220	2-5/16	#5	2.3125	10-1/8	17-3/8	1
ZD30224	2-3/8	#5	2.3750	10-1/8	17-3/8	1
ZD30228	2-7/16	#5	2.4375	11-1/4	18-3/4	1
ZD30232	2-1/2	#5	2.5000	11-1/4	18-3/4	1
ZD30236	2-9/16	#5	2.5625	11-7/8	19-1/2	1
ZD30240	2-5/8	#5	2.6250	11-7/8	19-1/2	1
ZD30244	2-11/16	#5	2.6875	12-3/4	20-3/8	1
ZD30248	2-3/4	#5	2.7500	12-3/4	20-3/8	1
ZD30252	2-13/16	#5	2.8125	13-3/8	21-1/8	1
ZD30256	2-7/8	#5	2.8750	13-3/8	21-1/8	1
ZD30260	2-15/16	#5	2.9375	14"	21-3/4	1
ZD30300	3"	#5	3.0000	14"	21-3/4	1



Center Drills - ZD62

Hyper Center Drill (Combined Drill & Countersink)

- HSS
- Bright finish
- 60 Deg included angle
- For centering and spot drilling applications when high accuracy is necessary

Forets A Centrer - Hyper

- HSS
- finition brillante
- angle de 60 degrés inclus
- Pour les applications de centrage et de forage lorsqu'une grande précision est nécessaire

CODE	NO	SM DIA	LG DIA	OA	PKG
ZD62001	1	3/64	1/8	1-1/4	5
ZD62002	2	5/64	3/16	1-7/8	5
ZD62003	3	7/64	1/4	2"	5

CODE	NO	SM DIA	LG DIA	OA	PKG
ZD62004	4	1/8	5/16	2-1/8	5
ZD62005	5	3/16	7/16	2-3/4	5
ZD62006	6	7/32	1/2	3"	5



Step Drills - DR70

Step Drills - HSS

- HSS
- Split Point
- Progressive ("Step") drills are designed to create clean, accurate, burr free holes in thin metal (up to 1/8")
- Unique spiral flute design (No. 1, 2, 3) gives better hole accuracy and surface finish
- Available in a 3-piece kit

Forets - Multi Diametre

- HSS
- Point de partage
- Les forets progressifs («pas à pas») sont conçus pour créer des trous propres, précis et sans bavure dans le métal mince (jusqu'à 1/8 po)
- La conception de flûte en spirale unique (n ° 1, 2, 3) offre une meilleure précision des trous et une meilleure finition de surface
- Disponible en kit de 3 pièces

CODE	NO	STEPS	FLUTE STYLE	FROM	TO	BY	PKG	
DR70001	1	13	SPIRAL	1/8	1/2	1/32	1	
DR70002	2	6	SPIRAL	3/16	1/2	1/16	1	
DR70003	3	9	SPIRAL	1/4	3/4	1/16	1	
DR70101	1, 2, 3	SET IN PLASTIC CASE						
DR70004	4	4	STRAIGHT	3/16	7/8	1/16	1	
DR70005	5	5	STRAIGHT	1/4	1-3/8	1/8	1	



Spade Drills - ZD02

Hyper Spade Drill For Wood

- Designed for boring holes quickly through all types of wood
- Perform best at higher speeds and are easy to re-sharpen
- Ground flats on 1/4" shank

CODE	SIZE	OAL
ZD02016	1/4	6"
ZD02020	5/16	6"
ZD02024	3/8	6"
ZD02028	7/16	6"
ZD02032	1/2	6"
ZD02036	9/16	6"
ZD02040	5/8	6"
ZD02044	11/16	6"
ZD02048	3/4	6"

Forets Hyper A Centre Plat

- Conçu pour percer rapidement des trous dans tous les types de bois
- Performances optimales à des vitesses plus élevées et facile à réaffûter
- Méplats sur une tige de 1/4

CODE	SIZE	OAL
ZD02052	13/16	6"
ZD02056	7/8	6"
ZD02060	15/16	6"
ZD02100	1"	6"
ZD02108	1-1/8	6"
ZD02116	1-1/4	6"
ZD02124	1-3/8	6"
ZD02132	1-1/2	6"



Brad & Spur Point Drill ZD54

Hyper Brad And Spur Point Drill

- Brad and Spur point drills are to be used in wood
- The point style is designed to ensure an easy and accurate start
- The spurs cut a clean and smooth hole especially at breakthrough

CODE	SIZE	DEC	SHANK	FLT	OAL
ZD54008	1/8	0.1250	1/8	1-5/8	2-3/4
ZD54012	3/16	0.1875	3/16	2-5/16	3-1/2
ZD54016	1/4	0.2500	1/4	2-3/4	4"
ZD54020	5/16	0.3125	1/4	2-1/2	3-13/16
ZD54520	5/16	0.3125	5/16	3-3/16	4-1/2
ZD54024	3/8	0.3750	1/4	2-7/8	4-1/4

Forets Hyper A Pointe-Poinçon

- Les forets à pointe Brad et Spur doivent être utilisés dans le bois
- Le style de point est conçu pour assurer un démarrage facile et précis
- Les éperons creusent un trou propre et lisse, surtout à la percée

CODE	SIZE	DEC	SHANK	FLT	OAL
ZD54028	7/16	0.4375	1/4	3-3/8	4-11/16
ZD54032	1/2	0.5000	1/4	3-5/8	5-1/16
ZD54036	9/16	0.5625	1/2	3"	6"
ZD54040	5/8	0.6250	1/2	3"	6"
ZD54044	11/16	0.6875	1/2	3"	6"
ZD54048	3/4	0.7500	1/2	3"	6"



Carbide Tipped Masonry Drill - ZD52

Hyper Carbide Tipped Masonry Drill

- Bright finish
- Straight shank
- For drilling brick, stone and concrete

Forets A Maconnerie - Hyper

- Finition brillante
- Tige droite
- Pour percer la brique, la pierre et le béton

CODE	SIZE	DEC	FLT	OAL	PKG
ZD52008	1/8	0.1250	1-9/16	2-3/4	10
ZD52010	5/32	0.1562	1-9/16	2-3/4	10
ZD52012	3/16	0.1875	1-31/32	3-5/32	10
ZD52014	7/32	0.2188	2-3/8	3-15/16	10
ZD52016	1/4	0.2500	2-3/8	3-15/16	10
ZD52018	9/32	0.2812	2-3/8	4-11/32	10
ZD52020	5/16	0.3125	3-5/32	4-15/16	10
ZD52024	3/8	0.3750	3-5/32	4-15/16	5

CODE	SIZE	DEC	FLT	OAL	PKG
ZD52028	7/16	0.4375	3-17/32	5-1/2	5
ZD52032	1/2	0.5000	3-17/32	5-1/2	5
ZD52036	9/16	0.5625	3-17/32	5-1/2	1
ZD52040	5/8	0.6250	3-17/32	5-1/2	1
ZD52048	3/4	0.7500	3-15/16	6-5/16	1
ZD52056	7/8	0.8750	3-15/16	6-5/16	1
ZD52100	1"	1.0000	3-15/32	6-5/16	1



Carbide Tipped Drill (Glass/Tile) - SC02

Carbide Tipped Drill For Glass And Tile

- Carbide tipped
- For drilling glass, tiles, ceramics and other hard fragile materials without cracking or chipping the material
- Not suitable for porcelain

Forets Pour Verre Et Tuile - Pointe Au Carbure

- pointe en carbure
- Pour percer le verre, les carreaux, la céramique et autres matériaux durs et fragiles sans fissurer ni ébrécher le matériau
- Ne convient pas à la porcelaine

CODE	SIZE	OVERALL LENGTH
SC02008	1/8	2-1/2
SC02010	5/32	2-1/2
SC02012	3/16	2-1/2
SC02016	1/4	2-1/2
SC02020	5/16	2-1/2

CODE	SIZE	OVERALL LENGTH
SC02024	3/8	3"
SC02028	7/16	3-1/2
SC02032	1/2	3"
SC02036	9/16	4
SC02040	5/8	4



Maintenance Taps

ZT01·02·08·09

Osborn-M Maintenance Taps - HSS Ground Thread

- HSS
- Ground thread
- For tapping mild steel
- Great for chasing (cleaning) existing threads
- The set part number includes one of each Taper, Plug and Bottom Chamfers

Tarauts Osborn-M - Acier Rapide Filets Rectifies

- HSS
- Fil de terre
- Pour tarauder l'acier doux
- Idéal aussi pour chasser (nettoyer) les threads existants
- Le numéro de pièce défini comprend un de chanfriers coniques, enfichables et inférieurs

SIZE DIM	TAPER TEBAUCH	PLUG INTERM	BOTTOM FINISSEUR	THREAD FILETEE	LENGTH LONGEUR	SHK DIA QUEUE	FLTS CANN	SETS JEUX
4-40 NC	ZT08004	ZT01004	ZT09004	5/8	1-7/8	0.141	3	ZT02004
4-48 NF	ZT08204	ZT01204	ZT09204	5/8	1-7/8	0.141	3	ZT02204
6-32 NC	ZT08006	ZT01006	ZT09006	11/16	2"	0.141	3	ZT02006
6-40 NF	ZT08206	ZT01206	ZT09206	11/16	2"	0.141	3	ZT02206
8-32 NC	ZT08008	ZT01008	ZT09008	3/4	2-1/8	0.168	4	ZT02008
8-36 NF	ZT08208	ZT01208	ZT09208	3/4	2-1/8	0.168	4	ZT02208
10-24 NC	ZT08010	ZT01010	ZT09010	7/8	2-3/8	0.194	4	ZT02010
10-32 NF	ZT08210	ZT01210	ZT09210	7/8	2-3/8	0.194	4	ZT02210
12-24 NC	ZT08012	ZT01012	ZT09012	15/16	2-3/8	0.220	4	ZT02012
12-28 NF	ZT08212	ZT01212	ZT09212	15/16	2-3/8	0.220	4	ZT02212
1/4-20 NC	ZT08404	ZT01404	ZT09404	1"	2-1/2	0.255	4	ZT02404
1/4-28 NF	ZT08504	ZT01504	ZT09504	1"	2-1/2	0.255	4	ZT02504
5/16-18 NC	ZT08405	ZT01405	ZT09405	1-1/8	2-23/32	0.318	4	ZT02405
5/16-24 NF	ZT08505	ZT01505	ZT9505	1-1/8	2-23/32	0.318	4	ZT02505
3/8-16 NC	ZT08406	ZT01406	ZT09406	1-1/4	2-15/16	0.381	4	ZT02406
3/8-24 NF	ZT08506	ZT01506	ZT09506	1-1/4	2-15/16	0.381	4	ZT02506
7/16-14 NC	ZT08407	ZT01407	ZT09407	1-7/16	3-5/32	0.323	4	ZT02407
7-16-20 NF	ZT08507	ZT01507	ZT09507	1-7/16	3-5/32	0.323	4	ZT02507
1/2-13 NC	ZT08408	ZT01408	ZT09408	1-21/32	3-3/8	0.367	4	ZT02408
1/2-20 NF	ZT08508	ZT01508	ZT09508	1-21/32	3-3/8	0.367	4	ZT02508
9/16-12 NC	ZT08409	ZT01409	ZT09409	1-21/32	3-19/32	0.429	4	ZT02409
9/16-18 NF	ZT08509	ZT01509	ZT09509	1-21/32	3-19/32	0.429	4	ZT02509
5/8-11 NC	ZT08410	ZT01410	ZT09410	1-13/16	3-13/16	0.480	4	ZT02410
5/8-18 NF	ZT08510	ZT01510	ZT09510	1-13/16	3-13/16	0.480	4	ZT02510
3/4-10 NC	ZT08412	ZT01412	ZT09412	2"	4-1/4	0.590	4	ZT02412
3/4-16 NF	ZT08512	ZT01512	ZT09512	2"	4-1/4	0.590	4	ZT02512
7/8-9 NC	ZT08414	ZT01414	ZT09414	2-7/32	4-11/16	0.697	4	ZT02414
7/8-14 NF	ZT08514	ZT01514	ZT09514	2-7/32	4-11/16	0.697	4	ZT02514
1"-8 NC	ZT08416	ZT01416	ZT09416	2-1/2	5-1/8	0.800	4	ZT02416
1"-12 NF	ZT08516	ZT01516	ZT09516	2-1/2	5-1/8	0.800	4	ZT02516
1"-14 NS	ZT08616	ZT01616	ZT09616	2-1/2	5-1/8	0.800	4	ZT02616



Maintenance Taps - ZT04

Osborn-M Sprial Point Maintenance Taps - HSS - Ground Threads

- HSS
- Ground thread
- For tapping mild steel in through hole applications
- Great for chasing (cleaning) existing threads

Tarauds Osborn-M - Acier Rapide Filets Rectifies - Entrée En Helice

- HSS
- Fil de terre
- Pour le taraudage d'aciers doux dans des applications traversantes
- Idéal aussi pour chasser (nettoyer) les filetages existants

CODE	SIZE DIM	THREAD FLUTE	LENGTH LONGEUR	FLUTES CANN
ZT04006	6-32 NC	11/16	2"	2
ZT04206	6-40 NF	11/16	2"	2
ZT04008	8-32 NC	3/4	2-1/8	2
ZT04208	8-36 NF	3/4	2-1/8	2
ZT04010	10-24 NC	11/16	2-3/8	2
ZT04210	10-32 NF	11/16	2-3/8	2
ZT04012	12-24 NC	11/16	2-3/8	2
ZT04212	12-28 NF	11/16	2-3/8	2
ZT04404	1/4-20 NC	13/16	2-1/2	2
ZT04504	1/4-28 NF	13/16	2-1/2	2
ZT04405	5/16-18 NC	7/8	2-23/32	2
ZT04505	5/16-24 NF	7/8	2-23/32	2
ZT04406	3/8-16 NC	1"	2-15/16	3
ZT04506	3/8-24 NF	1"	2-15/16	3
ZT04407	7/16-14 NC	1-1/16	3-5/32	3

CODE	SIZE DIM	THREAD FLUTE	LENGTH LONGEUR	FLUTES CANN
ZT04507	7/16-20 NF	1-1/16	3-5/32	3
ZT04408	1/2-13 NC	1-3/16	3-3/8	3
ZT04508	1/2-20 NF	1-3/16	3-3/8	3
ZT04409	9/16-12 NC	1-13/16	3-3/16	3
ZT04509	9/16-18 NF	1-13/16	3-3/16	3
ZT04410	5/8-11 NC	1-13/16	3-13/16	3
ZT04510	5/8-18 NF	1-13/16	3-13/16	3
ZT04412	3/4-10 NC	2"	4-1/4	3
ZT04512	3/4-16 NF	2"	4-1/4	3
ZT04414	7/8-9 NC	2-7/32	4-11/16	3
ZT04514	7/8-14 NF	2-7/32	4-11/16	3
ZT04416	1"-8 NC	2-1/2	5-1/8	3
ZT04516	1"-12 NF	2-1/2	5-1/8	3
ZT04616	1"-14 NS	2-1/2	5-1/8	3



Maintenance Tap & Drill Sets - ZD16

Maintenance Tap & Drill Sets

- Maintenance Hand Taps and Hyper HSS drills
- Available in UNC and UNF
- Available in spiral point

Jeux De Forets Et Maintenance Tarauds

- Maintenance Tarauds à main et forets Hyper HSS
- Disponible en UNC et UNF
- Disponible en point en spirale

CODE	THREAD	FROM	TO	MTL	PCS	STYLE
ZD16890	NC	#6-32	1/2-13	HSS	18	Hand
ZD16899	NC	#6-32	1/2-13	HSS	18	Spiral Point
ZD16891	NF	#6-40	1/2-20	HSS	18	Hand
ZD16898	NF	#6-40	1/2-20	HSS	18	Spiral Point

Combined Tap & Drill DT02 · DT04 · DT10



Combined Tap & Drill

- Hi-Molybdenum tool steel ensures longer tool life
- Suited for tapping applications in construction, maintenance, repair, assembly/installation
- Self-centering split point provides excellent drilling precision and accuracy
- 3 Flats on the shank to prevent slipping
- DT-10 (NPT) does not have 3 flats on the shank

CODE	SIZE DIM	THREAD FILETEE	DRILL FORET	LENGTH LONGEUR	OA
DT02004	4-40 NC	3/8	0.091	1/4	1-7/8
DT02006	6-32 NC	7/16	0.112	5/16	2"
DT02008	8-32 NC	1/2	0.138	3/8	2-1/8
DT02010	10-24 NC	5/8	0.155	13/32	2-3/8
DT02110	10-32 NF	5/8	0.164	13/32	2-3/8
DT02012	12-24 NC	21/32	0.180	15/32	2-3/8
DT02404	1/4-20 NC	25/32	0.208	17/32	2-1/2
DT02504	1/4-28 NF	25/32	0.220	17/32	2-1/2
DT02405	5/16-18 NC	15/16	0.266	11/16	2-23/32
DT02505	5/16-24 NF	15/16	0.277	11/16	2-23/32
DT02406	3/8-16 NC	1-1/8	0.322	13/16	2-15/16
DT02506	3/8-24 NF	1-1/8	0.340	13/16	2-15/16
DT02407	7/16-14 NC	1-1/4	0.377	1"	3-3/4
DT02507	7/16-20 NF	1-1/4	0.395	1"	3-3/4
DT02408	1/2-13 NC	1-3/8	0.435	1-1/8	4-1/16
DT02508	1/2-20 NF	1-3/8	0.458	1-1/8	4-1/16
DT02410	5/8-11 NC	1-3/4	0.548	1-1/2	5-1/16

Tarauts Foret

- L'acier à outils en Hi-Molybdène assure une durée de vie plus longue
- Convient pour les applications de taraudage dans la construction, l'entretien, la réparation, l'assemblage / l'installation
- Le point de fente à centrage automatique offre une excellente précision et précision de perçage
- 3 méplats sur la tige pour éviter de glisser
- DT-10 (NPT) n'a pas 3 méplats sur la tige

CODE	SIZE DIM	THREAD FILETEE	DRILL FORET	LENGTH LONGEUR	OA
METRIC					
DT04030	M3.0 X 0.50	13/32	0.102	9/32	1-15/16
DT04035	M3.5 X 0.60	7/16	0.120	5/16	2"
DT04040	M4.0 X 0.70	1/2	0.134	3/8	2-1/8
DT04045	M4.5 X 0.75	5/8	0.152	13/32	2-3/8
DT04050	M5.0 X 0.80	5/8	0.172	13/32	2-3/8
DT04060	M6.0 X 1.00	25/32	0.203	17/32	2-1/2
DT04070	M7.0 X 1.00	15/16	0.242	11/16	2-23/32
DT04080	M8.0 X 1.25	15/16	0.274	11/16	2-23/32
DT04100	M10.0 X 1.50	1-1/8	0.344	13/16	2-15/16
DT04120	M12.0 X 1.75	1-3/8	0.414	1-1/8	4-1/16
PIPE SIZE (NPT)					
DT10001	1/16-27	11/16	0.242	11/16	2-13/16
DT10002	1/8-27	3/4	0.332	3/4	2-7/8
DT10004	1/4-18	1-1/16	0.438	7/8	3-5/16
DT10006	3/8-18	1-1/16	0.562	15/16	3-1/2
DT10008	1/2-14	1-3/8	0.703	1-1/4	4-3/8
DT10012	3/4-14	1-3/8	0.906	1-5/16	4-9/16
DT10016	1"-11.5	1-3/4	1.141	1-5/8	5-3/8



Screw Extractors TA97

Screw Extractors

- HSS, Spiral Flute
- For removing broken screws, studs, pipe fittings without damaging the threads
- Available in sets

Extracteurs de vis et boulons

- HSS, flûte spirale
- Pour retirer les vis, les goujons et les raccords de tuyaux cassés sans endommager les filetages
- Disponible en sets

CODE	NO	SM DIA	LG DIA	DRILL
TA97001	1	1.4	3.6	1.8
TA97002	2	2.1	4.9	3.2
TA97003	3	3.1	6.5	4.5
TA97004	4	4.8	8.8	6.5
TA97005	5	6.7	11.0	8.5
TA97006	6	9.4	15.0	11.8
TA97007	7	12.7	19.0	15.3
TA97008	8	17.5	24.0	20.0

SETS

CODE	PCS	FROM	TO
TA97105	5	1	5
TA97106	6	1	6
TA97108	8	1	8



Bandsaw Blades

Lames De Scie à Ruban

The Bandsaw listed can be cut and welded to any length
 To calculate the list price of a blade 12' x 1" x 4H Carbon:
 Find the 250' coil code: HA72856
 Multiply by the number of feet rounded to .5 feet: list price x 12'
 Add the weld charge as per list price (if applicable).
 To order the blade specify HA72856 x 12' or HA72856 x 144"

Lames de scie peuvent être soudées sur toute longueur
 Pour la prix liste d'un scie 12' x 1" x 4H Carbonne:
 Spécifier le code de 250': HA72856
 Multiplier par le nombre de pieds arrondi aux pieds
 de .5: liste des prix x 12'
 Ajouter le frais de soudure (le cas échéant).
 Pour commandez spécifier : HA72856 x 12' ou HA72856 x 144"



Carbon Flex Back

Metal Cutting Bandsaw Blade - Flex Back - Carbon Steel

- Carbon blades are a cost effective option for easier to machine materials
- Flex Back - Hardened Teeth
- Hard Back - Hardened Teeth & Back
- Carbon blades are suitable for the following materials;
 - 1 - Aluminum, Brass, Bronze (Non-Ferrous Materials)
 - 2 - Plastic
 - 3 - Carbon and Mild Steel
 - 4 - Wood, Wood Composites

Lames De Scie a Ruban - Endos Flexible - Acier Carbonne

- Les lames en carbone sont une option rentable pour des matériaux plus faciles à usiner
- Endos Flexible - Dents Durcies
- Acier Carbonne - Dents et dos durcis
- Les lames en carbone conviennent aux matériaux suivants
 - 1 - Aluminium, laiton, bronze (matériaux non ferreux)
 - 2 - Plastique
 - 3 - Faible alliage, métaux ferreux
 - 4 - Bois, composites de bois

WIDTH LARGEUR	TOOTH DENTS	THICKNESS ÉPAISSEUR	100' CODE	250' CODE
1/4	4H	0.025	HA72104	HA72604
1/4	6H	0.025	HA72106	HA72606
1/4	6N	0.025	HA70106	HA70606
1/4	8N	0.025	HA70108	HA70608
1/4	10N	0.025	HA70110	HA70610
1/4	14N	0.025	HA70114	HA70614
1/4	18N	0.025	HA70118	HA70618
1/4	24N	0.025	HA70124	HA70624
5/16	4H	0.025	HA72004	HA72504
5/16	6H	0.025	HA72006	HA72506
5/16	6N	0.025	HA70006	HA70506
5/16	8N	0.025	HA70008	HA70508
5/16	10N	0.025	HA70010	HA70510
5/16	14N	0.025	HA70014	HA70514
5/16	18N	0.025	HA70018	HA70518
5/16	24N	0.025	HA70024	HA70524
3/8	3H	0.025	HA72153	HA72653
3/8	4H	0.025	HA72154	HA72654

WIDTH LARGEUR	TOOTH DENTS	THICKNESS ÉPAISSEUR	100' CODE	250' CODE
3/8	6H	0.025	HA72156	HA72656
3/8	6N	0.025	HA70156	HA70656
3/8	8N	0.025	HA70158	HA70658
3/8	10N	0.025	HA70160	HA70660
3/8	14N	0.025	HA70164	HA70664
3/8	18N	0.025	HA70168	HA70668
3/8	24N	0.025	HA70174	HA70674
1/2	3H	0.025	HA72203	HA72703
1/2	4H	0.025	HA72204	HA72704
1/2	6H	0.025	HA72206	HA72706
1/2	6N	0.025	HA70206	HA70706
1/2	8N	0.025	HA70208	HA70708
1/2	10N	0.025	HA70210	HA70710
1/2	14N	0.025	HA70214	HA70714
1/2	18N	0.025	HA70218	HA70718
1/2	24N	0.025	HA70224	HA70724
5/8	3H	0.032	HA72253	HA72753
5/8	4H	0.032	HA72254	HA72754



Carbon Flex Back

WIDTH LARGEUR	TOOTH DENTS	THICKNESS ÉPAISSEUR	100' CODE	250' CODE
5/8	4N	0.032	HA70254	HA70754
5/8	6N	0.032	HA70256	HA70756
5/8	8N	0.032	HA70258	HA70758
5/8	10N	0.032	HA70260	HA70760
5/8	14N	0.032	HA70264	HA70764
5/8	18N	0.032	HA70268	HA70768
5/8	24N	0.032	HA70274	HA70774
3/4	3H	0.032	HA72303	HA72803
3/4	4H	0.032	HA72304	HA72804
3/4	6N	0.032	HA70306	HA70806
3/4	8N	0.032	HA70308	HA70808
3/4	10N	0.032	HA70310	HA70810

WIDTH LARGEUR	TOOTH DENTS	THICKNESS ÉPAISSEUR	100' CODE	250' CODE
3/4	14N	0.032	HA70314	HA70814
3/4	18N	0.032	HA70318	HA70818
1"	2H	0.035	HA72352	HA72852
1"	3H	0.035	HA72353	HA72853
1"	4H	0.035	HA72354	HA72856
1"	6N	0.035	HA70356	HA70856
1"	8N	0.035	HA70358	HA70858
1"	10N	0.035	HA70360	HA70860
1"	14N	0.035	HA70364	HA70864

RRR FLEX BACK

RRR Flex Back Carbon Bandsaw Blades have a pin-point carbide structure of 30-50 grains per μm^2 . The inclusion of hard iron carbides produces superior tooth edge wear resistance, together with high flex strength in the backing steel material. Free cutting materials, timber and particle boards.

Recommended Materials:

Convient aux matériaux suivants:



RRR PLUS (DOS DURCIS)

Les lames de scie à ruban Carbon Back RRR Flex présentent une structure en carbure de tungstène de 30 à 50 grains par μm^2 . L'inclusion de carbures de fer durs procure une résistance à l'usure supérieure des arêtes de la dent, ainsi qu'une résistance élevée à la flexion dans le matériau de support en acier. Matériaux de coupe, bois et panneaux de particules libres.



Carbon Hard Back

Metal Cutting Bandsaw Blade - Hard Back - Carbon Steel

- Carbon blades are a cost effective option for easier to machine materials
- Flex Back - Hardened Teeth
- Hard Back - Hardened Teeth & Back
- Carbon blades are suitable for the following materials;
 - 1 - Aluminum, Brass, Bronze (Non-Ferrous Materials)
 - 2 - Plastic
 - 3 - Carbon and Mild Steel
 - 4 - Wood, Wood Composites

WIDTH LARGEUR	TOOTH DENTS	THICKNESS ÉPAISSEUR	100' CODE	250' CODE
1/4	4H	0.025	HA73104	HA73604
1/4	6H	0.025	HA73106	HA73606
1/4	6N	0.025	HA71106	HA71606
1/4	8N	0.025	HA71108	HA71608
1/4	10N	0.025	HA71110	HA71610
1/4	14N	0.025	HA71114	HA71614
1/4	18N	0.025	HA71118	HA71618
1/4	24N	0.025	HA71124	HA71624
5/16	6H	0.025	HA73006	HA73506
5/16	6N	0.025	HA71006	HA71506
5/16	8N	0.025	HA71008	HA71508
5/16	10N	0.025	HA71010	HA71510
5/16	14N	0.025	HA71014	HA71514
5/16	18N	0.025	HA71018	HA71518
5/16	24N	0.025	HA71024	HA71524
3/8	4H	0.025	HA73154	HA73654
3/8	6H	0.025	HA73156	HA73656
3/8	6N	0.025	HA71156	HA71656

Lames De Scie a Ruban - "Hard Back" - Acier Carbonne

- Les lames en carbone sont une option rentable pour des matériaux plus faciles à usiner
- Endos Flexible - Dents Durcies
- Acier Carbonne - Dents et dos durcis
- Les lames en carbone conviennent aux matériaux suivants
 - 1 - Aluminium, laiton, bronze (matériaux non ferreux)
 - 2 - Plastique
 - 3 - Faible alliage, métaux ferreux
 - 4 - Bois, composites de bois

WIDTH LARGEUR	TOOTH DENTS	THICKNESS ÉPAISSEUR	100' CODE	250' CODE
3/8	8N	0.025	HA71158	HA71658
3/8	10N	0.025	HA71160	HA71660
3/8	14N	0.025	HA71164	HA71664
3/8	18N	0.025	HA71168	HA71668
3/8	24N	0.025	HA71174	HA71674
1/2	3H	0.025	HA73203	HA73703
1/2	4H	0.025	HA73204	HA73704
1/2	6H	0.025	HA73206	HA73706
1/2	6N	0.025	HA71206	HA71706
1/2	8N	0.025	HA71208	HA71708
1/2	10N	0.025	HA71210	HA71710
1/2	14N	0.025	HA71214	HA71714
1/2	18N	0.025	HA71218	HA71718
1/2	24N	0.025	HA71224	HA71724
5/8	3H	0.032	HA73253	HA73753
5/8	4H	0.032	HA73254	HA73754
5/8	4N	0.032	HA71254	HA71754
5/8	6N	0.032	HA71256	HA71756



Carbon Hard Back

WIDTH LARGEUR	TOOTH DENTS	THICKNESS ÉPAISSEUR	100' CODE	250' CODE
5/8	8N	0.032	HA71258	HA71758
5/8	10N	0.032	HA71260	HA71760
5/8	14N	0.032	HA71264	HA71764
5/8	18N	0.032	HA71259	HA71759
5/8	24N	0.032	HA71274	HA71774
3/4	4H	0.032	HA73304	HA73804
3/4	6N	0.032	HA71306	HA71806
3/4	8N	0.032	HA71308	HA71808
3/4	10N	0.032	HA71310	HA71810
3/4	14N	0.032	HA71314	HA71814

WIDTH LARGEUR	TOOTH DENTS	THICKNESS ÉPAISSEUR	100' CODE	250' CODE
3/4	18N	0.032	HA71318	HA71818
3/4	24N	0.032	HA71324	HA71824
1"	3H	0.035	HA73353	HA73853
1"	4H	0.035	HA73354	HA73854
1"	6H	0.035	HA73355	HA73855
1"	4N	0.035	HA71354	HA71854
1"	6N	0.035	HA71356	HA71856
1"	8N	0.035	HA71358	HA71858
1"	10N	0.035	HA71360	HA71860
1"	14N	0.035	HA71364	HA71864

RRR-PLUS (HARD BACK)

RRR-Plus Hard Back Carbon Bandsaw Blades have a pin-point carbide structure of 30-50 grains per μm^2 and precision milled tooth profiles. A special heat treatment process increases the tensile strength of the steel backing material and the wear resistance of the tooth edge. These features result in a premium quality, long-life carbon blade. Good for low alloyed materials with a tensile strength up to 800N/mm² [116ksi]

Recommended Materials:

Convient aux matériaux suivants:



RRR PLUS (DOS DURCIS)

Les lames de scie à ruban Carbon Back RRR-Plus présentent une structure en carbure de tungstène de 30 à 50 grains par μm^2 et des profils de dents fraisés avec précision. Un traitement thermique spécial augmente la résistance à la traction du matériau de support en acier et la résistance à l'usure du bord de la dent. Ces caractéristiques permettent d'obtenir une lame en carbone de grande qualité et de longue durée. Matériaux faiblement alliés avec une résistance à la traction allant jusqu'à 800 N / mm² [116ksi]



Bi-Metal M-42

Metal Cutting Bandsaw Blade Bi-Metal - M42 Cobalt

- The martensitic structure of the tooth tips and high cobalt content create excellent hot hardness and toughness reducing wear rates at high sawing speeds
- High chromium backing strip withstands considerable flexing stresses, tension and blade guide pressure present in sawing machines.
- Available in "Normal" and "Hook" tooth styles. The hook tooth has a positive cutting angle of 10° - well suited for solid, thick walled tubes and all higher alloyed materials.
- M42 Cobalt suitable for non-ferrous and ferrous materials including;
 - 1 - Aluminum
 - 2 - Mild steel and tool steel up to 44 Hrc
 - 3 - Stainless steel

WIDTH LARGEUR	TOOTH DENTS	THICKNESS ÉPAISSEUR	100' CODE	250' CODE
1/4	6H	0.025	HA75006	HA75506
1/4	10/14N	0.025	HA75010	HA74110
1/4	6H	0.035	HA75106	HA75606
1/4	10N	0.035	HA75111	HA75611
1/4	10/14N	0.035	HA75011	HA74610
1/4	14N	0.035	HA75114	HA75614
3/8	6H	0.025	HA75007	HA75507
3/8	10/14N	0.025	HA75014	HA74314
3/8	4H	0.035	HA75054	HA75554
3/8	6H	0.035	HA75056	HA75556
3/8	8N	0.035	HA75058	HA75558
3/8	10N	0.035	HA75060	HA75560
3/8	10/14N	0.035	HA75110	HA74310
3/8	14N	0.035	HA75102	HA75602
1/2	6H	0.025	HA75146	HA75656
1/2	6/10N	0.025	HA75156	HA74506
1/2	8/12N	0.025	HA75158	HA74508
1/2	10N	0.025	HA75150	HA75650
1/2	10/14N	0.025	HA75160	HA74509
1/2	14N	0.025	HA75152	HA75652
1/2	18N	0.025	HA75218	HA75718
1/2	3H	0.035	HA75203	HA75703
1/2	3ALU(WS)	0.035	-	HA79103
1/2	4H	0.035	HA75204	HA75704
1/2	4ALU(WS)	0.035	-	HA79104
1/2	6H	0.035	HA75206	HA75706

Lames De Scie A Ruban Bi-Metal - M42 Cobalt

- La structure martensitique des pointes de dents et la forte teneur en cobalt créent une dureté et une ténacité à chaud excellentes, réduisant les taux d'usure à des vitesses de sciage élevées
- La bande dorsale à forte teneur en chrome résiste aux contraintes de flexion, à la tension et à la pression de guidage des lames considérables dans les scies.
- Disponible en styles de dents «Normal» et «Crochet». La dent du crochet a un angle de coupe positif de 10°, ce qui convient parfaitement aux tubes solides à paroi épaisse et à tous les matériaux fortement alliés.
- M42 Cobalt adapté aux matériaux non ferreux et ferreux, y compris;
 - 1 - Aluminium
 - 2 - Acier doux et acier à outils jusqu'à 44 Hrc
 - 3 - Acier inoxydable

WIDTH LARGEUR	TOOTH DENTS	THICKNESS ÉPAISSEUR	100' CODE	250' CODE
1/2	8N	0.035	HA75208	HA75708
1/2	10N	0.035	HA75210	HA75710
1/2	10/14N	0.035	HA74010	HA74510
1/2	14N	0.035	HA75214	HA75714
3/4	3H	0.035	-	HA75803
3/4	3ALU(WS)	0.035	-	HA79303
3/4	4H	0.035	-	HA75804
3/4	4/6H	0.035	-	HA74504
3/4	5/8N	0.035	-	HA74805
3/4	6/10N	0.035	-	HA74806
3/4	8/12N	0.035	-	HA74808
3/4	10/14N	0.035	-	HA74810
3/4	14N	0.035	-	HA75814
3/4	18N	0.035	-	HA74818
1"	2H	0.035	-	HA77961
1"	2ALU(WS)	0.035	-	HA79202
1"	2/3H	0.035	-	HA78602
1"	3H	0.035	-	HA77962
1"	3N	0.035	-	HA77703
1"	3ALU(WS)	0.035	-	HA79203
1"	3/4H	0.035	-	HA78603
1"	3/4N	0.035	-	HA76603
1"	3/4P	0.035	-	HA78403
1"	3/4P(WS)	0.035	-	HA78503
1"	3/4WS	0.035	-	HA76703
1"	4H	0.035	-	HA77963



Bi-Metal M-42

WIDTH LARGEUR	TOOTH DENTS	THICKNESS ÉPAISSEUR	100' CODE	250' CODE
1"	4N	0.035	-	HA77704
1"	4ALU(WS)	0.035	-	HA79204
1"	4/5H	0.035	-	HA78601
1"	4/6H	0.035	-	HA78604
1"	4/6N	0.035	-	HA76604
1"	4/6P	0.035	-	HA78404
1"	4/6WS	0.035	-	HA76704
1"	5/6H	0.035	-	HA78605
1"	5/7P	0.035	-	HA78405
1"	5/8N	0.035	-	HA76605
1"	6H	0.035	-	HA77966
1"	6N	0.035	-	HA77706
1"	6/10N	0.035	-	HA76606
1"	8N	0.035	-	HA77708
1"	8/11P	0.035	-	HA78408
1"	8/12N	0.035	-	HA76608
1"	10N	0.035	-	HA77710
1"	10/14N	0.035	-	HA76610
1"	14N	0.035	-	HA77714
1-1/4	1.25H	0.042	-	HA78841
1-1/4	1.25ALU(WS)	0.042	-	HA79901
1-1/4	2H	0.042	-	HA78842
1-1/4	2ALU(WS)	0.042	-	HA79902
1-1/4	2/3H	0.042	-	HA78852
1-1/4	2/3P(WS)	0.042	-	HA78512
1-1/4	2/3WS	0.042	-	HA76872
1-1/4	3H	0.042	-	HA78843
1-1/4	3N	0.042	-	HA77903
1-1/4	3ALU(WS)	0.042	-	HA79903
1-1/4	3/4H	0.042	-	HA78854
1-1/4	3/4N	0.042	-	HA76854
1-1/4	3/4P	0.042	-	HA78413
1-1/4	3/4P(WS)	0.042	-	HA78513
1-1/4	3/4(WS)	0.042	-	HA76873
1-1/4	4H	0.042	-	HA78844
1-1/4	4N	0.042	-	HA77904
1-1/4	4/5H	0.042	-	HA78856
1-1/4	4/6H	0.042	-	HA78855

WIDTH LARGEUR	TOOTH DENTS	THICKNESS ÉPAISSEUR	100' CODE	250' CODE
1-1/4	4/6N	0.042	-	HA76855
1-1/4	4/6P	0.042	-	HA78414
1-1/4	4/6WS	0.042	-	HA76874
1-1/4	5/6H	0.042	-	HA78857
1-1/4	5/7P	0.042	-	HA78415
1-1/4	5/8N	0.042	-	HA76856
1-1/4	6N	0.042	-	HA77906
1-1/4	6/10N	0.042	-	HA76857
1-1/4	8N	0.042	-	HA77908
1-1/4	8/12N	0.042	-	HA76858
1-1/4	10N	0.042	-	HA77910
1-1/2	1.25H	0.050	-	HA77991
1-1/2	1.5/2H	0.050	-	HA78938
1-1/2	2H	0.050	-	HA77992
1-1/2	2/3H	0.050	-	HA78940
1-1/2	2/3P(WS)	0.050	-	HA78522
1-1/2	2/3WS	0.050	-	HA78952
1-1/2	3H	0.050	-	HA77993
1-1/2	3/4H	0.050	-	HA78945
1-1/2	3/4N	0.050	-	HA76445
1-1/2	3/4P	0.050	-	HA78423
1-1/2	3/4P(WS)	0.050	-	HA78523
1-1/2	3/4WS	0.050	-	HA78953
1-1/2	4H	0.050	-	HA77994
1-1/2	4/5H	0.050	-	HA78946
1-1/2	4/6H	0.050	-	HA78947
1-1/2	4/6N	0.050	-	HA76447
1-1/2	4/6P	0.050	-	HA78424
1-1/2	4/6WS	0.050	-	HA78954
1-1/2	5/7P	0.050	-	HA78425
1-1/2	5/8N	0.050	-	HA76449
1-1/2	6/10N	0.050	-	HA76450
2"	1.1/1.6H	0.050	-	HA78960
2"	1.25H	0.050	-	HA78959
2"	1.5/2H	0.050	-	HA78961
2"	2/3H	0.050	-	HA78962
2"	2/3P(WS)	0.050	-	HA78532
2"	3/4H	0.050	-	HA78963



Bi-Metal M-42

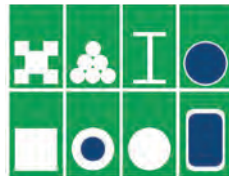
WIDTH LARGEUR	TOOTH DENTS	THICKNESS ÉPAISSEUR	100' CODE	250' CODE
2"	3/4P(WS)	0.050	-	HA78533
2"	4/5H	0.050	-	HA78964
2"	4/6H	0.050	-	HA78965
2"	.75/1.25H	0.063	-	HA79600
2"	1.1/1.6H	0.063	-	HA79601
2"	1.25H	0.063	-	HA79501
2"	1.5/2H	0.063	-	HA79602
2"	2H	0.063	-	HA79502
2"	2/3H	0.063	-	HA79603
2"	2/3P(WS)	0.063	-	HA78542
2"	2/3(WS)	0.063	-	HA78972
2"	3H	0.063	-	HA79503
2"	3/4H	0.063	-	HA79604
2"	3/4P	0.063	-	HA78443
2"	3/4P(WS)	0.063	-	HA78543
2"	3/4(WS)	0.063	-	HA78973
2"	4/5H	0.063	-	HA79605
2"	4/6H	0.063	-	HA79606

WIDTH LARGEUR	TOOTH DENTS	THICKNESS ÉPAISSEUR	100' CODE	250' CODE
2"	5/6H	0.063	-	HA79607
2-5/8	.75/1.25H	0.063	-	HA79712
2-5/8	1.1/1.6H	0.063	-	HA79716
2-5/8	1.25H	0.063	-	HA79701
2-5/8	1.5/2H	0.063	-	HA79720
2-5/8	2H	0.063	-	HA79702
2-5/8	2/3H	0.063	-	HA79730
2-5/8	2/3(WS)	0.063	-	HA78982
2-5/8	3/4H	0.063	-	HA79740
2-5/8	3/4(WS)	0.063	-	HA78983
2-5/8	4/6(WS)	0.063	-	HA78984
3-1/8	.75H	0.063	-	HA79800
3-1/8	.75/1.25H	0.063	-	HA79812
3-1/8	1.1/1.6H	0.063	-	HA79816
3-1/8	1.5/2H	0.063	-	HA79820
3-1/8	2/3H	0.063	-	HA79830

BI-ALFA COBALT (H = HOOK, N = NORMAL)

Recommended Materials:

- All materials <44 HRc



BI-ALFA COBALT (H = CROCHET, N = NORMAL)

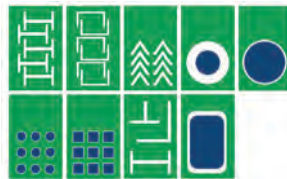
Convient aux matériaux suivants:

- Tous matériaux <44 HRc

BI-ALFA PROFILE & PROFILE WS (P/P(WS))

Recommended Materials:

- Tubes and profile
- Structural Steel sections with high tension load



PROFIL BI-ALFA ET PROFIL WS (P / P (WS))

Convient aux matériaux suivants:

- Tubes et profil
- Profilés en acier de construction soumis à une tension élevée

BI-ALFA COBALT WS (WS)

Recommended Materials:

- All work pieces especially structural steels with high tension



BI-ALFA COBALT WS (WS)

Convient aux matériaux suivants:

- Toutes les pièces, en particulier les aciers de construction à haute tension

BI-ALFA COBAT WS ALU (ALU(WS))

Recommended Materials:

- Cutting of non-ferrous plate, bars and gates and risers on castings
- For aluminum with a silicon content <7%



BI-ALFA COBALT WS ALU (ALU (WS))

Convient aux matériaux suivants:

- Découpe de plaques, barres, portails et contremarches en métaux non ferreux sur pièces coulees
- Pour l'aluminium avec une teneur en silicium <7%



Bi-Metal Master Cut

Metal Cutting Bandsaw Blade - Bi-Metal - M42 Cobalt - Master Cut

- "Triple Chip" tooth geometry, widely recognised as the optimal form for production sawing.
- The teeth are CBN precision ground to form a chamfered high tooth (A) and a pair of lower finishing teeth (B & C). Cutting faces are ground parallel to the back edge ensuring absolutely straight cutting. The M42 tooth tips have a height difference calculated to suit the typical chip load characteristics of each blade width/pitch combination.
- High cutting rates achievable without compromising blade life or cut finish.

WIDTH LARGEUR	TOOTH DENTS	THICKNESS ÉPAISSEUR	100' CODE	164' CODE
1"	3/4M	0.035	-	HA88204
1-1/4	2/3M	0.042	-	HA88403
1-1/4	2/3RPM	0.042	-	HA88413
1-1/4	3/4M	0.042	-	HA88404
1-1/4	3/4RPM	0.042	-	HA88414
1-1/2	1.5/2M	0.050	-	HA88602
1-1/2	1.5/2RPM	0.050	-	HA88612
1-1/2	2/3M	0.050	-	HA88603
1-1/2	2/3RPM	0.050	-	HA88613
1-1/2	3/4M	0.050	-	HA88604

Lames De Scie A Ruban - Bi-Metal - M42 Cobalt - Master Cut

- Géométrie «Triple Chip» largement reconnue comme la forme optimale pour le sciage de production.
- Les dents sont rectifiées CBN pour former une dent haute chanfreinée (A) et une paire de dents de finition inférieures (B & C). Les faces de coupe sont rectifiées parallèlement au bord arrière, ce qui garantit une coupe parfaitement droite. Les cônes M42 ont une différence de pitch calculée en fonction des caractéristiques de charge de copeaux typiques de chaque combinaison largeur / pitch.
- Des vitesses de coupe élevées peuvent être atteintes sans compromettre la durée de vie de la lame ou la finition de la coupe.

WIDTH LARGEUR	TOOTH DENTS	THICKNESS ÉPAISSEUR	100' CODE	164' CODE
1-1/2	3/4RPM	0.050	-	HA88614
2"	1.1/1.6RPM	0.063	-	HA88863
2"	1.5/2RPM	0.063	-	HA88864
2"	2/3RPM	0.063	-	HA88962
2"	3/4RPM	0.063	-	HA88963
2-5/8	0.75/1.25RPM	0.063	-	HA88971
2-5/8	1.1/1.6RPM	0.063	-	HA88972
2-5/8	1.5/2RPM	0.063	-	HA88973
3-1/8	0.75/1.25RPM	0.063	-	HA88981
3-1/8	1.1/1.6RPM	0.063	-	HA88983

BI-ALFA MASTER (M)

Recommended Materials

- Heat resistant steels
- Titanium
- Exotic alloys and stainless steel



BI-ALFA MASTER (M)

Convient aux matériaux suivants:

- Aciers résistant à la chaleur
- Titane
- Alliages exotiques et acier inoxydable

BI-ALFA RP MASTER (RPM)

Recommended Materials:

- Heat resistant steels
- Exotic alloys and stainless steel
- Titanium and nickel based alloys



BI-ALFA RP MASTER (RPM)

- Aciers résistant à la chaleur
- Alliages exotiques et acier inoxydable
- Titane et alliages à base de nickel



Bi-Metal M51

Metal Cutting Bandsaw Blade - Bi-Metal - M51 Cobalt

- Comprised of an alloyed steel backing of about 4% chromium content and an HSS-M51 cutting edge.
- High thermal and mechanical wear resistance due to cobalt and tungsten content of the cutting edge.

Lames De Scie A Ruban - Bi-Metal - M51 Cobalt

- Composé d'un support en acier allié contenant environ 4% de chrome et d'un tranchant HSS-M51.
- Résistance élevée à l'usure thermique et mécanique due à la teneur en cobalt et en tungstène du tranchant.

WIDTH LARGEUR	TOOTH DENTS	THICKNESS ÉPAISSEUR	100' CODE	164' CODE
1"	2/3H	0.035	-	HA89002
1"	3/4H	0.035	-	HA89003
1"	4/5H	0.035	-	HA89004
1"	4/6H	0.035	-	HA89005
1-1/4	2/3H	0.042	-	HA89102
1-1/4	2/3MS	0.042	-	HA89502
1-1/4	3/4H	0.042	-	HA89103
1-1/4	3/4MS	0.042	-	HA89503
1-1/4	4/6H	0.042	-	HA89104
1-1/2	1.5/2H	0.50	-	HA89201
1-1/2	1.5/2MS	0.50	-	HA89601
1-1/2	2/3H	0.50	-	HA89202
1-1/2	2/3MS	0.50	-	HA89602
1-1/2	3/4H	0.50	-	HA89203
1-1/2	4/6H	0.50	-	HA89204
2"	1.1/1.6MS	0.063	-	HA89700

WIDTH LARGEUR	TOOTH DENTS	THICKNESS ÉPAISSEUR	100' CODE	164' CODE
2"	1.5/2H	0.063	-	HA89301
2"	1.5/2MS	0.063	-	HA89701
2"	2/3H	0.063	-	HA89302
2"	2/3MS	0.063	-	HA89702
2"	3/4H	0.063	-	HA89304
2-5/8	0.75/1.25H	0.063	-	HA89400
2-5/8	0.75/1.25MS	0.063	-	HA89800
2-5/8	1.1/1.6H	0.063	-	HA89402
2-5/8	1.1/1.6MS	0.063	-	HA89801
2-5/8	1.5/2H	0.063	-	HA89403
2-5/8	1.5/2MS	0.063	-	HA89802
2-5/8	2/3H	0.063	-	HA89404
3-1/8	0.75/1.25H	0.063	-	HA89451
3-1/8	0.75/1.25MS	0.063	-	HA89901
3-1/8	1.1/1.6MS	0.063	-	HA89902

BI-ALFA COBALT M51

Recommended Materials:

- Hard and abrasive steels at high cutting speeds
- Heat, corrosion and acid resistant steels up to 50HRc
- Higher cutting speeds will not compromise blade life or cut finish



BI-ALFA COBALT M51

Convient aux matériaux suivants:

- Aciers durs et abrasifs à des vitesses de coupe élevées
- Aciers résistant à la chaleur, à la corrosion et aux acides jusqu'à 50 HRc
- Des vitesses de coupe supérieures ne compromettent pas la durée de vie de la lame ni la finition de la coupe

MASTER SUPREME (MS) COBALT M51

Recommended Materials:

- Heat resistant steel, exotic alloys and stainless steel
- Titanium, nickel base alloys
- Large cross sections



COBALT M51 MASTER CUT (MS)

Convient aux matériaux suivants:

- Acier résistant à la chaleur, alliages exotiques et acier inoxydable
- Titane, alliages à base de nickel
- Grandes sections transversales



HA81-84 Carbide Tipped

Metal Cutting Bandsaw Blade - HM Titan - Carbide Tipped

- Ideal for cutting extremely hard and/or abrasive materials.
- They offer a high resistance to wear and fatigue.
- Available in five different styles

Lames De Scie A Ruban - HM Titan - Pointe En Carbure

- Idéal pour couper des matériaux extrêmement durs et / ou abrasifs.
- Ils offrent une grande résistance à l'usure et à la fatigue.
- Disponible dans cinq styles différents

SIZE LARGEUR	TOOTH DENTS	THICKNESS ÉPAISSEUR	MU CODE	BO CODE	MU FORTE C CODE	BO FORTE C CODE	ALU CODE
3/4	3	0.035	-	-	-	-	HA83103
1'	2/3	0.035	HA81202	-	-	-	HA83204
1'	3	0.035	-	-	-	-	HA83203
1'	3/4	0.035	HA81203	HA84203	-	-	-
1-1/4	1.5/2	0.042	HA81401	-	-	-	HA83304
1-1/4	2	0.042	-	-	-	-	HA83302
1-1/4	2/3	0.042	HA81402	HA84402	-	-	-
1-1/4	3	0.042	-	-	-	-	HA83303
1-1/4	3/4	0.042	HA81403	HA84403	-	HA84413	-
1-1/2	1.5/2	0.050	HA81501	-	HA82501	-	HA83401
1-1/2	2/3	0.050	HA81502	HA84502	HA82502	-	HA83402
1-1/2	3/4	0.050	HA81503	HA84503	HA82503	HA84513	-
2"	0.85/1.15	0.050	HA81600	-	-	-	HA83520
2"	1.5/2	0.050	HA81601	-	-	-	HA83521
2"	2/3	0.050	HA81602	-	-	-	HA83522
2"	0.85/1.15	0.063	HA81620	-	-	-	HA83620
2"	1.1/1.6	0.063	HA81621	-	-	-	HA83621
2"	1.5/2	0.063	HA81631	-	HA82631	-	HA83622
2"	2/3	0.063	HA81632	HA84602	HA82632	-	-
2-5/8	0.85/1.15	0.063	HA81720	-	-	-	-
2-5/8	1.1/1.6	0.063	HA81721	-	HA82721	-	-
2-5/8	1.5/2	0.063	HA81731	-	-	-	-
3-1/8	0.85/1.15	0.063	HA81820	-	-	-	-
3-1/8	1.1/1.6	0.063	HA81821	-	-	-	-

HM-TITAN MU

Recommended Materials:

- Tool steels, stainless steels and high speed steels



HM-TITAN MU

Convient aux matériaux suivants:

- Aciers à outils, aciers inoxydables et aciers rapides

HM-TITAN B0

Recommended Materials:

- Induction hardened chromium steels
- Hardened materials >50HRc



HM-TITAN B0

Convient aux matériaux suivants:

- Aciers au chrome trempés par induction
- Matériaux durcis > 50HRc

HM-TITAN FORTEC

Recommended Materials:

- Tool steels, stainless steels and high speed steels
- Chromium-nickel steels and nickel based alloys



HM-TITAN FORTEC

Convient aux matériaux suivants:

- Aciers à outils, aciers inoxydables et aciers rapides
- Aciers au chrome-nickel et alliages à base de nickel

HM-TITAN B0 FORTEC

Recommended Materials:

- Induction hardened chromium steels and hardened materials between 50 - 62 HRc



HM-TITAN B0 FORTEC

Convient aux matériaux suivants:

- Aciers au chrome trempés par induction et matériaux durcis entre 50 et 62 HRc

HM-TITAN ALU

Recommended Materials:

- Aluminum castings, plates and bars



HM-TITAN ALU

Convient aux matériaux suivants:

- Moulages, plaques et barres en aluminium

BANDSAW TOOTH FORMS | FORMES DE SCIE À RUBAN



Normal Tooth (N)

The normal tooth has a cutting angle of 0°. It is suited for material with a high carbon content (such as cast iron), for material with small cross sections and for thin-wall profiles and tubes



Hook Tooth (H)

The hook tooth has a positive cutting angle of 10°. This tooth form is well suited for solids, thick wall tubes and all higher grade alloy materials.



RP Tooth

The RP tooth has a milled positive cutting angle of 16°. Due to its aggressive cutting characteristics, it is suited for high-alloy and highest-grade alloy material and for non-ferrous metal.



Master Tooth

The Master tooth is based on a high-low triple chip design recognized as one of the most efficient in engineered cutting technology. To cope with the demands of a wide range of difficult steel and exotic alloys the teeth are available with cutting angles of both 10° and 16°.

Dent normale (N)

La dent normale a un angle de coupe de 0°. Il convient aux matériaux à forte teneur en carbone (comme la fonte), aux matériaux de petites sections et aux profilés et tubes à paroi mince

Crochet Dent (H)

La dent du crochet a un angle de coupe positif de 10°. Cette forme de dent est bien adaptée aux solides, aux tubes à paroi épaisse et à tous les matériaux en alliage de qualité supérieure.

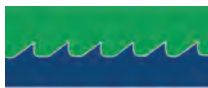
RP dent

La dent RP a un angle de coupe positif fraisé de 16°. En raison de ses caractéristiques de coupe agressives, il convient aux matériaux d'alliage à haute teneur en alliages et de qualité supérieure et aux métaux non ferreux.

Dent Master

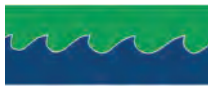
La dent Master est basée sur une conception de puce triple haute-basse reconnue comme l'une des plus efficaces en technologie de coupe sophistiquée. Pour répondre aux exigences d'une large gamme d'acier difficiles et d'alliages exotiques, les dents sont disponibles avec des angles de coupe de 10° et 16°.

TOOTH PITCHES | PITCH DE LA DENT



Regular Tooth Pitch

The distance between the teeth is constant throughout the blade. Ideally suited to cutting solid materials on sawing machines with efficient clamping. Very effective on high-alloy steels and exotic alloys.



Combi (variable) Tooth Pitch

Combi tooth pitch is based on groups of differing tooth pitches repeated at regular intervals throughout the blade, reducing vibration through resonance during cutting. Sawing thin-walled hollow sections and material in bundles or with weak clamping are typical applications for this tooth pitch configuration.

Pitch normale de la dent

La distance entre les dents est constante sur toute la lame. Idéalement adapté à la coupe de matériaux solides sur des machines à scier à serrage efficace. Très efficace sur les aciers fortement alliés et les alliages exotiques.

Pitch variable de la dent

Le pitch des dents combinées est basé sur des groupes de pitch différents qui sont répétés à intervalles réguliers sur toute la lame, réduisant ainsi les vibrations par résonance lors de la coupe. Le sciage de sections creuses à paroi mince et de matériaux en faisceaux ou avec un serrage faible est une application typique de cette configuration de pitch.

SET PATTERNS | DÉFINIR DES MODÈLES



Raker Set

Teeth are set in groups of 3, left, right, straight. This is the most popular set pattern for regular tooth pitches



Combi Set

Teeth are set left and right, predominantly in groups of 5 or 7 with 1 straight tooth per group. This set pattern is most popular on variable/combi tooth pitches. The number of teeth in a group is determined by the characteristics of the variable pitch pattern repeat.



Group Set

For some specialized non-ferrous applications the teeth are set in pairs to the left then to the right with the 5th tooth straight. This is the least popular of the 4 set patterns.



Wave Set

This set pattern is used on very fine pitches where the saw blade teeth are too small to be set individually. The degree of set changes incrementally throughout the blade in waves from left to right.

Raker Set

Les dents sont placées par groupes de 3, gauche, droite, droite. C'est le modèle de prise le plus populaire pour les pitches de dents régulières

Combi Set

Les dents sont placées à gauche et à droite, principalement par groupes de 5 ou 7 avec 1 dent droite par groupe. Ce modèle de jeu est le plus populaire sur les pitches de dent variables / combinés. Le nombre de dents dans un groupe est déterminé par les caractéristiques de la répétition de motif à pas variable.

Ensemble de groupe

Pour certaines applications non ferreuses spécialisées, les dents sont placées par paires à gauche puis à droite, la 5ème dent étant droite. C'est le moins populaire des 4 modèles.

Wave Set

Ce modèle de réglage est utilisé sur des pitches très fines où les dents de la lame de scie sont trop petites pour être réglées individuellement. Le degré de réglage change progressivement dans la lame par vagues de gauche à droite.

Bandsaw Tooth Selection

SOLID MATERIAL | MATÉRIAU SOLIDE

Normal-Toothing Cross-Section Dent normale Coupe transversale	Pitch Pitch	Combi-Toothing Cross-Section Combi Dent Coupe transversale	Pitch Pitch	HM-Titan Cross-Section HM-Titan Coupe transversale	HM-Titan Tothing HM-Titan Dent
< 3/8 inch	14 tpi	< 1 inch	10/14 tpi	2 - 5 inch	3/4 tpi
3/8 - 1 1/4 inch	10 tpi	1 - 1 1/2 inch	8/12 tpi	4 - 10 inch	2/3 tpi
1 1/4 - 2 inch	8 tpi	1 - 2 inch	6/10 tpi	6 - 16 inch	1.5/2 tpi
2 - 3 inch	6 tpi	1 1/2 - 2 3/4 inch	5/8 tpi	14 - 24 inch	1.1/1.6 tpi
3 - 5 inch	4 tpi	1 1/2 - 3 1/2 inch	5/6 tpi	> 20 inch	0.85/1.15 tpi
5 - 8 inch	3 tpi	2 - 5 inch	4/6 tpi *		
8 - 16 inch	2 tpi	4 - 7 inch	3/4 tpi *		
16 - 28 inch	1.25 tpi	5 - 14 inch	2/3 tpi		
		> 24 inch	0.75 tpi	6 - 18 inch	1.5/2 tpi
		8 - 24 inch		1.1/1.6 tpi	
		> 20 inch	0.75/1.25 tpi		

* Please notice that it is also possible to choose our Combi pitch 4/5 for these cross sections.

* Veuillez noter qu'il est également possible de choisir notre pitch Combi 4/5 pour ces sections transversales.

TUBES | TUBES

Wall-Thickness in inches (s) / Épaisseur de paroi en pouces (s)	Outside diameter in inches D Tooth selection (tpi) / Sélection de dents (TPI)									
	3/4	1 1/2	2 3/8	3 1/8	4	5	6	8	12	20
5/64	14	10/14	10/14	10/14	10/14	8/12	8/12	8/12	8/12	5/8
1/8	14	10/14	10/14	8/12	8/12	8/12	8/12	6/10	6/10	5/8
5/32	10/14	10/14	8/12	8/12	8/12	6/10	6/10	5/8	5/8	4/6
3/16	10/14	10/14	8/12	8/12	6/10	6/10	5/8	4/6	4/6	4/6
1/4	10/14	8/12	8/12	6/10	6/10	5/8	5/8	4/6	4/6	4/6
5/16	10/14	8/12	8/12	6/10	5/8	5/8	4/6	4/6	4/6	4/6
3/8	-	8/12	6/10	5/8	4/6	4/6	4/6	4/6	4/6	4/5
1/2	-	8/12	6/10	4/6	4/6	4/6	4/6	4/6	4/6	4/5
5/8	-	8/12	6/10	4/6	4/6	4/6	4/6	4/5	4/5	4/5
3/4	-	-	4/6	4/6	4/6	4/6	4/5	4/5	4/5	3/4
1 1/4	-	-	-	4/6	4/6	4/5	4/5	4/5	4/5	2/3
2	-	-	-	-	-	-	4/5	3/4	2/3	2/3
3 1/8	-	-	-	-	-	-	-	3/4	2/3	2/3
> 4	-	-	-	-	-	-	-	-	2/3	1.5/2

For thin tubes (up to 5/16 wall-thickness) it is advisable to choose the toothing with 0 cutting angle.

Pour les tubes minces (jusqu'à 5/16 d'épaisseur de paroi), il est conseillé de choisir la denture avec un angle de coupe de 0°.

BREAK-IN OF A BANDSAW | RUPTURE D'UNE LAME À BANDSAW

Material Matériau	Cutting Speed ft/min Vitesse de coupe pi/min	Cutting Capacity in sq.in. / min for Solids of Diameter Capacité de coupe en sq.in. / min pour les solides de diamètre						
		1"	2"	3"	4"	6"	8"	
Construction Steel/Machining Steel / Acier de construction / acier d'usinage		260-295	4-5.5	6-8	8-9.5	8.5-11	11-14	11.5-13
Case Hardened Steels/Steels for Hardening & Tempering / Aciers cémentés / aciers pour trempé et revenu		145-245	3-4	4-5.5	4.5-6	5.5-8	6-9.5	6-8
Non-Alloyed Tool Steels/Roller Bearing Steels / Aciers à outils non alliés / Aciers à roulement		130-195	3-4	4-5.5	4.5-5.5	4.5-6	6-8	6-8
Alloyed Tool Steels/High Speed Steels / Aciers à outils alliés / Aciers rapides		100-130	2.5-3	3-4	4-4.5	4.5-5.5	4.5-5.5	4.5-5.5
Rust Resistant Steels / Aciers résistants à la rouille		65-115	1.5-2.5	2.3-3	2.3-3	2.3-3	2.3-3	2.3-3
Heat Resistant Steels/High Temperature Alloy Steels / Aciers résistant à la chaleur / Aciers alliés à haute température		50-80	0.8-1.5	0.8-1.5	1-2	0.8-2.3	0.8-2.3	0.8-2.3

The life of a bandsaw blade can be increased significantly by following the recommended break-in procedure. A new blade benefits from a short period of cutting at a reduced band speed and cutting feed rate. The recommended maximum production band speed and feed rate can be selected from the chart above. The break-in rates should be set at 70% of band speed and 50% of feed. After approximately 80 sq. in. of cross sectional area has been cut, the band speed and feed should be gradually increased to maximum recommended cutting parameters.

La durée de vie d'une lame de scie à ruban peut être considérablement augmentée en suivant la procédure de rodage recommandée. Une nouvelle lame bénéficie d'une courte période de coupe à une vitesse de bande et à une vitesse réduites. La vitesse de bande de production maximale recommandée et le débit d'alimentation peuvent être sélectionnés dans le tableau dessus. Les taux de rodage doivent être fixés à 70% de la vitesse de la bande et à 50% de l'alimentation. Après avoir coupé environ 80 cm² de section transversale, la vitesse de la bande et l'alimentation doivent être progressivement augmentées pour atteindre les paramètres de coupe maximum recommandés.

Technical Information Information techniques

Decimal Equivalents

Équivalents Décimaux

SIZE	DECIMAL INCHES	SIZE	DECIMAL INCHES	SIZE	DECIMAL INCHES	SIZE	DECIMAL INCHES	SIZE	DECIMAL INCHES
0.25	.0098	#61	.0390	5/64	.0781	2.90	.1142	4.40	.1732
0.30	.0118	1.00	.0394	#47	.0785	#32	.1160	#16	.1770
#80	.0135	#60	.0400	2.00	.0787	2.95	.1161	4.50	.1772
0.35	.0138	#59	.0410	2.05	.0807	3.00	.1181	#15	.1800
#79	.0145	1.05	.0413	#46	.0810	#31	.1200	4.60	.1811
1/64	.0156	#58	.0420	#45	.0820	3.10	.1220	#14	.1820
0.40	.0157	#57	.0430	2.10	.0827	1/8	.1250	#13	.1850
#78	.0160	1.10	.0433	2.15	.0846	3.20	.1260	4.70	.1850
0.45	.0177	1.15	.0453	#44	.0860	#30	.1285	3/16	.1875
#77	.0180	#56	.0465	2.20	.0866	3.30	.1299	4.80	.1890
0.50	.0197	3/64	.0469	2.25	.0886	3.40	.1339	#12	.1890
#76	.0200	1.20	.0472	#43	.0890	#29	.1360	#11	.1910
#75	.0210	1.25	.0492	2.30	.0906	3.50	.1378	4.90	.1929
0.55	.0217	1.30	.0512	2.35	.0925	#28	.1405	#10	.1935
#74	.0225	#55	.0520	#42	.0935	9/64	.1406	#9	.1960
0.60	.0236	1.35	.0531	3/32	.0938	3.60	.1417	5.00	.1969
#73	.0240	#54	.0550	2.40	.0945	#27	.1440	#8	.1990
#72	.0250	1.40	.0551	#41	.0960	3.70	.1457	5.10	.2008
0.65	.0256	1.45	.0571	2.45	.0965	#26	.1470	#7	.2010
#71	.0260	1.50	.0591	#40	.0980	#25	.1495	13/64	.2031
0.70	.0276	#53	.0595	2.50	.0984	3.80	.1496	#6	.2040
#70	.0280	1.55	.0610	#39	.0995	#24	.1520	5.20	.2047
#69	.0292	1/16	.0625	2.55	.1004	3.90	.1535	#5	.2055
0.75	.0295	1.60	.0630	#38	.1015	#23	.1540	5.30	.2087
#68	.0310	#52	.0635	2.60	.1024	5/32	.1562	#4	.2090
1/32	.0312	1.65	.0650	#37	.1040	#22	.1570	5.40	.2126
0.80	.0315	1.70	.0669	2.65	.1043	4.00	.1575	#3	.2130
#67	.0320	#51	.0670	2.70	.1063	#21	.1590	5.50	.2165
#66	.0330	1.75	.0689	#36	.1065	#20	.1610	7/32	.2188
0.85	.0335	#50	.0700	2.75	.1083	4.10	.1614	5.60	.2205
#65	.0350	1.80	.0709	7/64	.1094	4.20	.1654	#2	.2210
0.90	.0354	1.85	.0728	#35	.1100	#19	.1660	5.70	.2244
#64	.0360	#49	.0730	2.80	.1102	4.30	.1693	#1	.2280
#63	.0370	1.90	.0748	#34	.1110	#18	.1695	5.80	.2283
0.95	.0374	#48	.0760	2.85	.1122	11/64	.1719	5.90	.2323
#62	.0380	1.95	.0768	#33	.1130	#17	.1730	A	.2340

Decimal Equivalents

Équivalents Décimaux

SIZE	DECIMAL INCHES	SIZE	DECIMAL INCHES	SIZE	DECIMAL INCHES	SIZE	DECIMAL INCHES	SIZE	DECIMAL INCHES
15/64	.2344	7.80	.3071	25/64	.3906	12.60	.4961	17.75	.6988
6.00	.2362	7.90	.3110	10.00	.3937	1/2	.5000	45/64	.7031
B	.2380	5/16	.3125	X	.3970	12.70	.5000	18.00	.7087
6.10	.2402	8.00	.3150	10.10	.3976	12.80	.5039	23/32	.7188
C	.2420	O	.3160	10.20	.4016	12.90	.5079	18.50	.7283
6.20	.2441	8.10	.3189	Y	.4040	13.00	.5118	47/64	.7344
D	.2460	8.20	.3228	10.30	.4055	33/64	.5156	19.00	.7480
6.30	.2480	P	.3230	13/32	.4062	13.20	.5197	3/4	.7500
1/4	.2500	8.30	.3268	10.40	.4094	17/32	.5312	49/64	.7656
E	.2500	21/64	.3281	Z	.4130	13.50	.5315	19.50	.7677
6.40	.2520	8.40	.3307	10.50	.4134	13.80	.5433	25/32	.7812
6.50	.2559	Q	.3320	10.60	.4173	35/64	.5469	20.00	.7874
F	.2570	8.50	.3346	10.70	.4213	14.00	.5512	51/64	.7969
6.60	.2598	8.60	.3386	27/64	.4219	14.25	.5610	20.50	.8071
G	.2610	R	.3390	10.80	.4252	9/16	.5625	13/16	.8125
6.70	.2638	8.70	.3425	10.90	.4291	14.50	.5709	21.00	.8268
17/64	.2656	11/32	.3438	11.00	.4331	37/64	.5781	53/64	.8281
H	.2660	8.80	.3465	11.10	.4370	14.75	.5807	27/32	.8438
6.80	.2677	S	.3480	7/16	.4375	15.00	.5906	21.50	.8465
6.90	.2717	8.90	.3504	11.20	.4409	19/32	.5938	55/64	.8594
I	.2720	9.00	.3543	11.30	.4449	15.25	.6004	22.00	.8661
7.00	.2756	T	.3580	11.40	.4488	39/64	.6094	7/8	.8750
J	.2770	9.10	.3583	11.50	.4528	15.50	.6102	22.50	.8858
7.10	.2795	23/64	.3594	29/64	.4531	15.75	.6201	57/64	.8906
K	.2810	9.20	.3622	11.60	.4567	5/8	.6250	23.00	.9055
9/32	.2812	9.30	.3661	11.70	.4606	16.00	.6229	29/32	.9062
7.20	.2835	U	.3680	11.80	.4646	16.25	.6398	59/64	.9219
7.30	.2874	9.40	.3701	11.90	.4685	41/64	.6406	23.50	.9252
L	.2900	9.50	.3740	15/32	.4688	16.50	.6496	15/16	.9375
7.40	.2913	3/8	.3750	12.00	.4724	21/32	.6562	24.00	.9449
M	.2950	V	.3770	12.10	.4764	16.75	.6594	61/64	.9531
7.50	.2953	9.60	.3780	12.20	.4803	17.00	.6693	24.50	.9646
19/64	.2969	9.70	.3819	12.30	.4843	43/64	.6719	31/32	.9688
7.60	.2992	9.80	.3858	31/64	.4844	17.25	.6791	25.00	.9843
N	.3020	W	.3860	12.40	.4882	11/16	.6875	63/64	.9844
7.70	.3031	9.90	.3898	12.50	.4921	17.50	.6890	1"	1.000

RPM

M/MIN	5	7	10	12	15	18	20	22	25	28	30	35	40	50
FT/MIN	16	22	32	40	50	60	65	72	82	92	98	115	130	165

DIA		REVOLUTIONS PER MINUTE (RPM)													
MM	INCH	5	7	10	12	15	18	20	22	25	28	30	35	40	50
0.79	1/32	2000	2800	4000	4810	6010	7220	8020	8820	10000	11220	12020	14030	16030	20040
1.00		1600	2220	3180	3820	4780	5730	6370	7000	7960	8910	9550	11150	12730	15920
1.19	3/64	1340	1870	2670	3200	4000	4810	5340	5900	6680	7480	8020	9350	10700	13360
1.50		1060	1480	2120	2550	3180	3820	4240	4670	5300	5940	6360	7430	8490	10600
1.59	1/16	1000	1400	2000	2400	3000	3600	4000	4400	5000	5600	6000	7000	8010	10000
1.98	5/64	8000	1120	1600	1920	2400	2890	3200	3530	4000	4500	4800	5600	6400	8000
2.00		795	1115	1590	1910	2380	2860	3180	3500	3980	4450	4770	5570	6360	7960
2.38	3/32	670	935	1340	1600	2000	2400	2670	2940	3340	3750	4000	4690	5350	6690
2.50		635	890	1270	1530	1910	2300	2550	2800	3180	3560	3820	4450	5100	6360
2.78	7/64	575	800	1150	1380	1720	2060	2290	2520	2860	3200	3440	4000	4580	5730
3.00		530	745	1060	1270	1590	1910	2120	2330	2650	2970	3180	3710	4240	5300
3.18	1/8	500	700	1000	1200	1500	1800	2000	2200	2500	2800	3000	3500	4010	5010
3.50		455	635	910	1090	1360	1640	1820	2000	2270	2550	2730	3180	3640	4550
3.97	5/32	400	560	800	960	1200	1440	1600	1760	2000	2250	2400	2800	3200	4010
4.00		395	555	795	955	1195	1430	1590	1750	1990	2230	2390	2790	3180	3970
4.50		300	495	710	850	1060	1270	1415	1550	1770	1980	2120	2480	2830	3540
4.76	3/16	335	470	670	800	1000	1200	1340	1470	1670	1870	2000	2340	2670	3340
5.00		320	445	635	765	955	1145	1275	1400	1590	1780	1910	2230	2550	3180
5.56	7/32	285	400	575	685	860	1030	1145	1260	1430	1600	1720	2000	2290	2860
6.00		265	370	530	635	795	955	1060	1170	1330	1490	1590	1860	2120	2650
6.35	1/4	250	350	500	600	750	900	1000	1100	1250	1400	1500	1750	2000	2500
7.00		225	320	455	545	680	820	910	1000	1140	1270	1360	1590	1820	2270
7.94	5/16	200	280	400	480	600	720	800	880	1000	1120	1200	1400	1600	2000
8.00		200	280	400	475	595	715	795	875	995	1110	1190	1390	1590	1990
9.00		175	250	355	425	530	635	705	780	880	990	1060	1240	1420	1770
9.53	3/8	165	235	335	400	500	600	670	730	830	940	1000	1170	1340	1670
10.00		160	226	320	380	475	570	635	700	800	890	955	1110	1270	1590
11.11	7/16	145	200	285	345	430	515	575	630	720	800	860	1000	1150	1430
12.00		135	185	265	320	400	475	530	580	660	740	800	930	1060	1330
12.70	1/2	125	175	250	300	375	450	500	550	630	700	750	880	1000	1250
14.00		115	160	225	275	340	410	455	500	570	640	680	800	910	1140
15.00		105	150	210	255	320	380	425	470	530	590	640	740	850	1060
15.88	5/8	100	140	200	240	300	360	400	440	500	560	600	700	800	1000
16.00		100	140	200	240	300	360	400	440	500	560	600	700	795	995
18.00		90	125	175	210	265	320	355	390	440	495	530	620	710	885
19.05	3/4	85	115	165	200	250	300	335	370	415	465	500	585	670	840
20.00		80	110	160	190	240	285	320	350	400	445	475	555	635	800
22.23	7/8	70	100	140	170	215	260	285	315	355	400	430	500	575	715
24.00		66	95	135	160	200	240	265	290	330	370	400	465	530	665
25.00		64	90	125	155	190	230	255	280	320	360	380	445	510	640
25.40	1	63	88	125	150	190	225	250	275	310	350	375	440	500	630
27.00		59	83	120	140	180	210	235	260	300	330	355	415	470	590
28.57	1-1/8	56	78	110	135	165	200	225	245	280	310	335	390	445	555
30.00		53	75	105	125	160	190	210	235	265	300	320	370	425	530
31.75	1-1/4	50	70	100	120	150	180	200	220	250	280	300	350	400	500
32.00		50	70	99	120	150	180	200	220	250	280	300	350	400	495
34.93	1-3/8	46	64	90	110	135	165	180	200	230	255	275	320	365	455
36.00		44	62	88	105	130	160	175	195	220	250	265	310	355	440
38.10	1-1/2	42	58	84	100	125	150	165	182	210	235	250	290	335	420
40.00		40	56	80	95	120	145	150	175	200	225	240	280	320	400
44.45	1-3/4	36	50	72	86	105	130	145	160	180	200	215	250	285	360
50.00		32	45	64	75	95	115	125	140	160	180	190	225	255	320

Speed & Feed Recommendations for HSS

Recommandations de vitesse et avance pour acier rapide

MATERIAL MATÉRIAU	HARDNESS DURETÉ	DRILLING FORAGE	REAMING ALÉSAGE	MILLING FRAISAGE	TAPPING TAPEMENT
	BHN	SURFACE FEET PER MINUTE / PIEDS EXTÉRIEURS PAR MINUTE			
STEEL / ACIER					
Magnetic Soft / Doux Magnétique	<120	92-115	65-82	92-130	50-60
Structural	<200	72-92	55-80	72-105	50-60
Plain Carbon / Carbone Plat	<250	60-72	40-50	60-82	50-60
Alloyed / Allié	<250	40-60	32-40	60-82	32-50
Alloyed / Allié	250-350	32-50	16-22	45-65	22-32
Alloyed / Allié	>350	16-22	10-20	22-40	10-16
STAINLESS STEEL / ACIER INOXYDABLE					
Free Machining / Usinage Libre	<250	40-60	40-60	60-82	22-32
Austenitic / Austénitique	<250	22-32	16-22	45-65	16-22
Ferritic Austenitic / Austénitique De Ferrite	<300	32-50	16-32	22-40	10-16
CAST IRON / FER DE FONTE					
Lamellar Graphite / Graphite De Lameller	<150	72-92	40-60	72-105	50-80
Lamellar Graphite / Graphite De Lameller	150-300	60-72	32-50	60-82	30-40
Nodular Graphite / Graphite Nodulaire	<200	50-65	22-40	72-105	30-40
Nodular Graphite / Graphite Nodulaire	200-300	40-60	22-32	45-65	20-30
TITANIUM / TITANE					
Unalloyed / Pur	<200	60-72	32-50	72-105	32-50
Alloyed / Allié	<270	32-50	22-32	45-65	22-40
Alloyed / Allié	270-350	22-32	10-20	22-40	16-22
NICKEL					
Unalloyed / Pur	<150	22-32	16-32	92-130	22-40
Alloyed / Allié	>270	14-16	-	22-40	16-22
Alloyed / Allié	270-350	10-14	-	22-32	10-16
COPPER / CUIVRE					
Unalloyed / Pur	<100	82-105	50-65	195-260	22-40
Brass - Bronze / Laiton - Bronze	<200	92-115	65-82	92-130	82-115
Brass / Laiton	<200	82-105	50-65	115-165	50-65
Bronze High Strength / Bronze - Haute Résistance	<470	50-65	22-40	32-50	10-16
ALUMINUM - MAGNESIUM / ALUMINIUM - MAGNÉSIUM					
Unalloyed / Pur	<100	92-250	72-105	260-330	32-50
Silicon Alloyed < 5% / Silicium Allié < 5%	<150	92-250	105-130	195-260	82-150
Silicon Alloyed > 5% < 10% / Silicium Allié > 5% < 10%	<120	72-92	50-65	130-195	50-65
Silicon Alloyed > 10% / Silicium Allié > 10%	<120	60-72	40-60	115-165	32-50
PLASTIC / PLASTIQUE					
Thermoplastic / Thermoplastique	-	92-115	40-60	195-260	60-105
Thermosetting / Thermodurcissable	-	72-92	50-65	130-195	22-40

RECOMMENDED FEED / AVANCES RECOMMANDÉE

Tool Diameter Diamètre D'Outil	Drilling Forage	Slot Drills Fraises À Deux Cannelures	End Mills Fraises	Tool Diameter Diamètre D'Outil	Drilling Forage	Slot Drills Fraises À Deux Cannelures	End Mills Fraises
1/16 - 3/32	.001 - .003	0.0005	.0005 - .0010	5/8 - 3/4	.010 - .015	0.0030	.0020 - .0025
1/8 - 5/32	.002 - .005	0.0007	.0007 - .0012	7/8 - 1	.015 - .020	0.0030	.0020 - .0025
3/16 - 7/32	.003 - .006	0.0010	.0010 - .0015	1-1/8 - 1-1/4	.017 - .022	0.0050	.0025 - .0030
1/4 - 5/16	.004 - .008	0.0020	.0015 - .0020	1-3/8 - 1-1/2	.019 - .024	0.0050	.0025 - .0030
3/8 - 7/16	.005 - .010	0.0020	.0015 - .0020	1-1/2 - 2	.020 - .025	0.0050	.0025 - .0030
1/2 - 9/16	.007 - .012	0.0030	.0020 - .0025				

HSS Cutting Tool Tolerances

Tolérances Pour Outils Coupant Acier Rapide

DRILLS/ FORETS			
DIA >	DIA ≤	TOLERANCE	
-	0.0394	+0.0000	-0.0006
0.0394	0.1181	+0.0000	-0.0006
0.1181	0.2362	+0.0000	-0.0007
0.2362	0.3937	+0.0000	-0.0009
0.3937	0.7087	+0.0000	-0.0011
0.7087	1.1811	+0.0000	-0.0013
1.1811	1.9685	+0.0000	-0.0015
1.9685	3.1496	+0.0000	-0.0018
3.1496	4.7244	+0.0000	-0.0021

REAMERS/ ALÉSOIRS			
DIA >	DIA ≤	TOLERANCE	
0.0394	0.1181	+0.0004	+0.0001
0.1181	0.2362	+0.0005	+0.0002
0.2362	0.3937	+0.0006	+0.0002
0.3937	0.7087	+0.0007	+0.0003
0.7087	1.1811	+0.0008	+0.0003
1.1811	1.9685	+0.0010	+0.0004
1.9685	3.1496	+0.0012	+0.0004
3.1496	4.7244	+0.0014	+0.0005

TAPS/ TARAUDS					
NC >	NC ≤	CLASS	NF >	NF ≤	CLASS
-	#5	H2	-	#8	H2
#5	3/4	H3	#8	3/4	H3
3/4	1"	H4	3/4	1"	H4
1"	1-1/2	H4	1"	1-1/2	H4
1-1/2	+	H7	1-1/2	+	H7

SLOT DRILLS/ FRAISES À DEUX CANNELURES			
DIA >	DIA ≤	TOLERANCE	
-	1.5000	-0.0005	-0.0013
1.5000	+	-0.0005	-0.0015

END MILLS/FRAISES EN BOUT			
DIA >	DIA ≤	TOLERANCE	
-	1.5000	+0.0025	-0.0005
1.5000	+	+0.0050	-0.0000

WOODRUFF CUTTERS/FRAISES WOODRUFF			
		TOLERANCE	
DIA		+0.015	+0.010
WIDTH		+0.000	-0.001

DOVETAIL CUTTERS/ FRAISES EN FORME DE QUEUE D'ARONDE			
		TOLERANCE	
ALL / TOUS		+0.010	-0.000

T-SLOT CUTTERS/FRAISES À RAINURER EN T			
		TOLERANCE	
DIA		+0.005	-0.005
WIDTH		+0.005	-0.005

TOOL BITS/BURINS			
DIA/SQ >	DIA/SQ ≤	TOLERANCE	
-	0.118	+0.0000	-0.0039
0.118	0.236	+0.0000	-0.0047
0.236	0.394	+0.0000	-0.0059
0.394	0.709	+0.0000	-0.0071
0.709	1.181	+0.0000	-0.0083
1.181	1.969	+0.0000	-0.0098

SQUARE DIMENSIONS OF TAPS/ DIMENSIONS CARRÉE DES TARAUDS		
SHANK DIA DIA QUEUE	SQ LENGTH LONGEUR	SQ A/F CARRÉE
0.141	3/16	0.110
0.168	1/4	0.131
0.194	1/4	0.152
0.220	9/32	0.165
0.255	5/16	0.191
0.318	3/8	0.238
0.323	13/32	0.242
0.367	7/16	0.275
0.381	7/16	0.286
0.429	1/2	0.322
0.480	9/16	0.360
0.590	11/16	0.442
0.697	3/4	0.523
0.800	13/16	0.600
0.896	7/8	0.672
1.021	1	0.766
1.080	1-1/16	0.831
1.233	1-1/8	0.925
1.430	1-1/4	1.072
1.644	1-3/8	1.233

Speed and Feed Recommendations for Carbide

Recommandations De Vitesse Et Advance Pour Carbure

MATERIAL MATÉRIAU	DRILLING FORAGE	REAMING ALÉSAGE	MILLING FRAISAGE
Steel / Acier	Surface Feet Per Minute / Pieds Extérieurs Par Minute		
Mild Steel / Acier Doux	300	215	155
Plain Carbon / Carbone Plat	300	215	155
Alloyed / Allié < Rc30	260	175	130
Alloyed / Allié Rc30 - Rc38	215	145	110
Alloyed / Allié Rc38 - Rc45	170	110	90
Cast Iron / Fer de Fonte			
Cast Iron / Fer de Fonte	300	200	170
Titanium / Titane			
Alloyed (Annealed) / Allié (Recuit)	130	82	110
Alloyed (Treated) / Allié (Traité) - Inconel	60	48	60
Aluminum - Magnesium / Aluminium - Magnésium			
Aluminum / Aluminium	600	420	400
Magnesium / Magnésium	600	420	400
Plastic / Plastique			
Graphite Composite / Composé De Graphite	210	-	-
Epoxy Fibre / Fibre Époxyde	210	-	-
Acrylic / Acrylique	160	-	-

RECOMMENDED FEED - Feed (Inch/Revolution) / AVANCES RECOMMANDÉE - Avance (Pouce/Révolution)

DRILLING/FORAGE		REAMING/ALÉSAGE	
Diameter/Diamètre	Feed/Avance	Diameter/ Diamètre	Feed/Avance
1/16 - 3/32	0.001 - 0.003	Up To 1/16	0.001 - 0.003
1/8 - 5/32	0.002 - 0.005	1/16 - 1/8	0.002 - 0.006
3/16 - 7/32	0.003 - 0.006	1/8 - 1/4	0.004 - 0.010
1/4 - 5/16	0.004 - 0.008	1/4 - 1/2	0.006 - 0.015
3/8 - 7/16	0.005 - 0.010	1/2 - 1"	0.010 - 0.030
1/2 - 9/16	0.007 - 0.012	1" +	0.020 - 0.050
5/8 - 3/4	0.010 - 0.015		
7/8 - 1	0.015 - 0.020		

FEED PER TOOTH / AVANCE PAR DENT

SLOT DRILL / FRAISE DEUX DENTS		END MILLS / FRAISE EN BOUT	
Diameter/Diamètre	Feed/Avance	Diameter/Diamètre	Feed/Avance
1/16 - 3/32	0.0005	1/16 - 3/32	0.0005 - 0.0010
1/8 - 5/32	0.0007	1/8 - 5/32	0.0007 - 0.0012
3/16 - 7/32	0.001	3/16 - 7/32	0.0010 - 0.0015
1/4 - 7/16	0.002	1/4 - 7/16	0.0015 - 0.0020
1/2 - 1"	0.003	1/2 - 1"	0.0020 - 0.0025
Over 1"	0.005	Over 1"	0.0025 - 0.0030

Tap Drill Sizes

Les Tailles Des Forets

TAP/TARAUD	DRILL/FORET	DRILL/FORET
NC	INCH/POUCE	MM
1-64	#53	1.55
2-56	#50	1.85
3-48	#47	2.10
4-40	#43	2.35
5-40	#38	2.65
6-32	#36	2.85
8-32	#29	3.50
10-24	#25	3.90
12-24	#16	4.50
1/4-20	#7	5.10
5/16-18	"F"	6.60
3/8-16	5/16	8.00
7/16-14	"U"	9.40
1/2-13	27/64	10.80
9/16-12	31/64	12.20
5/8-11	17/32	13.50
3/4-10	21/32	16.50
7/8-9	49/64	19.50
1"-8	7/8	22.25
1-1/8 7	63/64	25.00
1-1/4 7	1-7/64	28.00
1-3/8 6	1-7/32	30.75
1-1/2 6	1-11/32	34.00
1-3/4 5	1-9/16	39.50
2" 4-1/2	1-25/32	45.00

TAP/TARAUD	DRILL/FORET	DRILL/FORET
NF	INCH/POUCE	MM
0-80	3/64	1.25
1-72	#53	1.55
2-64	#50	1.90
3-56	#45	2.15
4-48	#42	2.40
5-44	#37	2.70
6-40	#33	2.95
8-36	#29	3.50
10-32	#21	4.10
12-28	#14	4.70
1/4-28	#3	5.50
5/16-24	"I"	6.90
3/8-24	"Q"	8.50
7/16-20	25/64	9.90
1/2-20	29/64	11.50
9/16-18	33/64	12.90
5/8-18	37/64	14.50
3/4-16	11/16	17.50
7/8-14	13/16	20.40
1"-12	59/64	23.25
1"-14NS	15/16	23.50
1-1/8 12	1-3/64	26.50
1-1/4 12	1-11/64	29.50
1-3/8 12	1-19/64	32.75
1-1/2 12	1-27/64	36.00

TAP/TARAUD	DRILL/FORET
BSW	MM
1/8-40	2.55
5/32-32	3.20
3/16-24	3.70
7/32-24	4.50
1/4-20	5.10
5/16-18	6.50
3/8-16	7.90
7/16-14	9.30
1/2-12	10.50
9/16-12	12.10
5/8-11	13.50
11/16-10	15.00
3/4-10	16.25
7/8-9	19.25
1"-8	22.00
1-1/8 7	24.75
1-1/4 7	28.00
1-1/2 6	33.50
1-3/4 5	39.00
2" 4-1/2	44.50

TAP/TARAUD	DRILL/FORET	DRILL/FORET
MM	INCH/POUCE	MM
M1.0 X 0.25	#68	0.75
M1.1 X 0.25	#65	0.85
M1.2 X 0.25	#62	0.95
M1.4 X 0.30	#57	1.10
M1.6 X 0.35	3/64	1.25
M1.8 X 0.35	#53	1.45
M2.0 X 0.40	1/16	1.60
M2.2 X 0.45	#50	1.75
M2.5 X 0.45	#46	2.05
M3.0 X 0.50	#40	2.50

TAP/TARAUD	DRILL/FORET	DRILL/FORET
MF/MS	INCH/POUCE	MM
MF3.0 X 0.35	#37	2.65
MF3.5 X 0.35	1/8	3.15
MF4.0 X 0.50	#28	3.50
MF4.5 X 0.50	#21	4.00
MF5.0 X 0.50	#16	4.50
MF6.0 X 0.75	#5	5.20
MF7.0 X 0.75	"D"	6.20
MF8.0 X 1.00	"J"	7.00
MF8.0 X 0.75	"L"	7.20
MF9.0 X 1.00	"O"	8.00

TAP/TARAUD	DRILL/FORET
BSF	MM
3/16-32	4.00
7/32-28	4.60
1/4-26	5.30
9/32-26	6.10
5/16-22	6.80
3/8-20	8.30
7/16-18	9.70
1/2-16	11.10
9/16-16	12.70
5/8-14	14.00

Tap Drill Sizes

Les Tailles Des Forets

TAP/TARAUD	DRILL/FORET	DRILL/FORET
MM	INCH/POUCE	MM
M3.5 X 0.60	#32	2.90
M4.0 X 0.70	#30	3.30
M4.5 X 0.75	#26	3.70
M5.0 X 0.80	#19	4.20
M6.0 X 1.00	#9	5.00
M7.0 X 1.00	15/64	6.00
M8.0 X 1.25	17/64	6.80
M9.0 X 1.25	5/16	7.80
M10 X 1.50	"Q"	8.50
M11 X 1.50	"V"	9.50
M12 X 1.75	"Y"	10.20
M14 X 2.00	15/32	12.00
M16 X 2.00	35/64	14.00
M18 X 2.50	39/64	15.50
M20 X 2.50	11/16	17.50
M22 X 2.50	49/64	19.50
M24 X 3.00	53/64	21.00
M27 X 3.00	61/64	24.00
M30 X 3.50	1-3/64	26.50
M33 X 3.50	1-11/64	29.50
M36 X 4.00	1-1/4	32.00
M39 X 4.00	1-3/8	35.00
M42 X 4.50	1-31/64	37.50
M45 X 4.50	1-19/32	40.50
M48 X 5.00	1-45/64	43.00

TAP/TARAUD	DRILL/FORET	DRILL/FORET
NPT	INCH/POUCE	MM
1/16-27	"D"	6.30
1/8-27	"Q"	8.50
1/4-18	7/16	11.10
3/8-18	9/16	14.70
1/2-14	45/64	18.25
3/4-14	29/32	23.40
1" 11-1/2	1-9/64	29.40
1-1/4 11-1/2	1-31/64	38.10
1-1/2 11-1/2	1-47/64	44.00
2" 11-1/2	2-13/64	56.30

TAP/TARAUD	DRILL/FORET	DRILL/FORET
MF/MS	INCH/POUCE	MM
MF10 X 1.25	11/32	8.80
MF10 X 1.00	"T"	9.00
MF10 X 0.75	"U"	9.20
MF11 X 0.75	"Y"	10.20
MF12 X 1.50	"Z"	10.50
MF12 X 1.25	27/64	10.80
MF12 X 1.00	7/16	11.00
MF14 X 1.50	31/64	12.50
MF14 X 1.25	33/64	12.80
MF16 X 1.50	9/16	14.50
MF16 X 1.00	19/32	15.00
MF18 X 1.50	41/64	16.50
MF18 X 1.00	43/64	17.00
MF20 X 1.50	23/32	18.50
MF20 X 1.00	3/4	19.00
MF22 X 1.50	13/16	20.50
MF24 X 2.00	55/64	22.00
MF24 X 1.50	57/64	22.50
MF25 X 1.50	59/64	23.50
MF27 X 2.00	63/64	25.00
MF30 X 2.00	1-7/64	28.00
MF32 X 1.50	1-13/64	30.50
MF33 X 2.00	1-7/32	31.00
MF36 X 3.00	1-19/64	33.00
MF39 X 3.00	1-27/64	36.00

TAP/TARAUD	DRILL/FORET	DRILL/FORET
NPS	INCH/POUCE	MM
1/16-27	1/4	6.80
1/8-27	11/32	9.10
1/4-18	7/16	11.90
3/8-18	37/64	15.25
1/2-14	23/32	19.00
3/4-14	59/64	23.75
1" 11-1/2	1-5/32	30.00
1-1/4 11-1/2	1-33/64	39.50
1-1/2 11-1/2	1-3/4	45.50
2" 11-1/2	2-7/32	62.00

TAP/TARAUD	DRILL/FORET
BSF	MM
11/16-14	15.50
3/4-12	16.75
7/8-11	19.75
1"-10	22.75
1-1/8 9	25.50
1-1/4 9	28.50
1-3/8 8	31.50
1-1/2 8	34.50
1-3/4 7	40.50
2"-7	47.00

TAP/TARAUD	DRILL/FORET
BSTP	MM
1/8-28	8.40
1/4-19	11.20
3/8-19	14.75
1/2-14	18.25
3/4-14	23.75
1"-11	30.00
1-1/4 11	38.50
1-1/2 11	44.50
2"-11	56.00
2-1/2 11	71.00

TAP/TARAUD	DRILL/FORET
BS	MM
1/8-28	8.60
1/4-19	11.50
3/8-19	15.00
1/2-14	18.75
5/8-14	20.75
3/4-14	24.25
7/8-14	28.00
1"-11	30.40
1-1/2 11	45.00
2-11	56.75

Carbide Cutting Tool Tolerances

Tolérances Pour Outils Coupant En Carbure

DRILLS / FORETS			
DIA >	DIA ≤	TOLERANCE	
0.040	0.500	+0.0000	-0.0005

REAMERS / ALÉSOIRS			
DIA >	DIA ≤	TOLERANCE	
0.040	0.250	+0.0004	+0.0001
0.250	0.500	+0.0005	+0.0002

END MILLS / FRAISES EN BOUT			
DIA >	DIA ≤	TOLERANCE	
0.031	0.125	+0.0000	-0.0010
0.125	1.000	+0.0000	-0.0015

SPEED RECOMMENDATIONS FOR CARBIDE BURS / RECOMMANDATIONS DE VITESSE POUR DES LIMES DE CARBURE					
DIA	RPM	RPM MAX	DIA	RPM	RPM MAX
1/16	55,000 - 85,000	90,000	3/8	17,000 - 38,000	63,000
3/32	50,000 - 60,000	85,000	7/16	13,000 - 37,000	55,000
1/8	35,000 - 65,000	80,000	1/2	14,000 - 36,000	50,000
3/16	30,000 - 55,000	75,000	5/8	11,000 - 23,000	40,000
1/4	25,000 - 50,000	70,000	3/4	8,000 - 19,000	30,000
5/16	18,000 - 38,000	65,000	1	7,000 - 18,000	25,000

Before using any carbide bur be certain to check the recommended speed chart, since speed recommendations vary according to bur diameter, bur type, and material to be cut.

Burs must be chucked true and to the full capacity of the collet.

Avant de se servir de n'importe quelle lime, s'assurer que la vitesse utilisée corresponde au diagramme, tenant compte du type, du diamètre et du matériel à utiliser.

Les limes doivent être correctement montées et serrées sur toute la longueur de la pince.

For more technical information please visit our website.

Pour plus d'information technique visitez notre site web s'il vous plait.

www.clarkson-osborn.com

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MS03	Reverse Marking Stamp Set	Jeux A Caracters Inverse	298
MS05	Heavy Duty Marking Stamp Set	Jeux A Caracters Robuste	299
MS10	Arch Punch	Découpoirs	300
MS20	Individual Marking Stamp	Poincons De Marque A L'Unite	299

RE	REAMERS	ALÉSOIRS	
RE01 • RE02	Bridge Reamer • Straight & Spiral Flute	Alésoirs De Chaudronnerie • Cannelures Droite & Cannelures Hélicoidale	184
RE17	Chucking Reamer • Straight Flute Straight Shank	Alésoirs En Bout • Denture Droite Queue Cylindrique	174
RE18	Chucking Reamer • Straight Flute Taper Shank	Alésoirs En Bout • Queue Conique Cannelures Droite	180
RE19 • RE20	Aligning Reamer • Straight Shank & Hex Shank	Alésoirs Alignant • Queue Cylindrique & Queue Hexagonal	185
RE22	Chucking Reamer • Spiral Flute Taper Shank	Alésoirs En Bout • Queue Conique Cannelures Hélicoidale	181
RE24	Chucking Reamer • Spiral Flute Straight Shank	Alésoirs En Bout • Queue Cylindrique Cannelures Hélicoidale Cobalt	176
RE30	Taper Pin Reamer • Straight Flute Straight Shank	Alésoirs Conique Pour Trous De Goupilles Queue Cylindrique Denture Droite	179
RE31	Taper Pin Reamer • Spiral Flute Straight Shank	Alésoirs Conique Pour Trous De Goupilles Queue Cylindrique Cannelures Hélicoidale	180
RE41	Hand Reamer	Alésoirs A Main • Queue Cylindrique Cannelures Hélicoidale	177
RE45	Machine Reamer	Alésoirs Pour Machine • Queue Conique Cannelures Hélicoidale	182

SC	SOLID CARBIDE	OUTILS EN CARBURE	
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SC03	Solid Carbide Jobber Drill Metric	Forets En Carbone Monobloc Métrique	10
SC04	Carbide Tipped Jobber Drill	Forets À Pointé De Carbone	12
SC05	Solid Carbide Die Drill	Forets En Carbone Monobloc Flûte Droite	17
SC06	Carbide Tipped Die Drill	Forets À Pointé De Carbone Flûte Droite	19
SC07	Solid Carbide Center Drill (Combined Drill & Countersink)	Forets À Centrer En Carbone	68
SC08 • SC09 • SC10	Solid Carbide Countersink	Fraises Coniques En Carbone	256
SC12	Solid Carbide Stub Drill	Forets Extra Courte En Carbone	14
SC14	Solid Carbide Jobber Drill Parabolic Flute	Forets En Carbone Monobloc Parabolique	16
SC15	Carbide Tipped Taper Length Drill	Forets À Pointé De Carbone Série Longue	21
SC16	Solid Carbide Jobber Drill 3 Flute	Forets En Carbone Monobloc 3 Cannelures	20
SC20 • SC70	Solid Carbide 2 Flute Endmill	Fraises En Bout Carbone Monobloc 2 Cannelures	188
SC21	Solid Carbide 3 Flute Endmill	Fraises En Bout Carbone Monobloc 3 Cannelures	194
SC22 • SC72	Solid Carbide 4 Flute Endmill	Fraises En Bout Carbone Monobloc 4 Cannelures	197
SC23 • SC73	Solid Carbide 2 Flute Ball Nose Endmill	Fraises À Bout Sphérique Carbone Monobloc 2 Cannelures	189
SC24	Solid Carbide 3 Flute Ball Nose Endmill	Fraises À Bout Sphérique Carbone Monobloc 3 Cannelures	195
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SC27 • SC77	Solid Carbide 4 Flute Long Series Endmill	Fraises En Bout Carbone Monobloc 4 Cannelures Serie Longue	199
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SC31 • SC33	Solid Carbide 4 Flute Extra Long Series Endmill & Ball Nose	Fraises En Bout Carbone Monobloc 4 Cannelures Serie Extra Longue et Ball Nose	201
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SC35	Solid Carbide 4 Flute Double End	Fraises En Bout Doubles Carbone Monobloc 4 Cannelures	205
SC36	Solid Carbide 2 Flute Double End Ball Nose	Fraises À Bout Sphérique Doubles Carbone Monobloc 2 Cannelures Extra Courte	204
SC37	Solid Carbide 4 Flute Double End Ball Nose	Fraises À Bout Sphérique Doubles Carbone Monobloc 4 Cannelures	205
SC38 • SC40	Solid Carbide Double End 2 Flute Weldon Flat & Ball Nose	Fraises En Bout Doubles Carbone Monobloc Queue Weldon 2 Cannelures et Ball Nose	206
SC39 • SC41	Solid Carbide Double End 4 Flute Weldon Flat & Ball Nose	Fraises En Bout Doubles Carbone Monobloc Queue Weldon 4 Cannelures et Ball Nose	207

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SC47 • SC48	Solid Carbide 4 Flute Roughing Cutter Standard & Long Series	Fraises À Ébaucher 4 Cannelures Longueur Standard & Serie Longue	203
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Terms of Trading

Prices

All price lists and quotations do not include GST, HST or Provincial Sales Tax which is extra if applicable, unless otherwise stated.

Delivery

Please check our website for current prepaid shipping policy.

Minimum Invoice Value

A minimum invoice value of \$50 net of taxes and freight charges will be applied.

Payment Terms

Net 30 days from date of invoice for credit sales.

Returning Goods

Goods are not accepted for return unless authorized by the company. All goods returned for credit are to be offset by an order of twice the value unless the customer has our written permission to return goods without charge. Transportation on all goods returned must be prepaid. Specials will not be accepted for return unless it is agreed that the goods are defective.

Claims

In the event of loss or non-delivery of the whole or part of a consignment, the buyer must notify the company in writing within 14 days of our invoice.

All prices and specifications are subject to change without notice.

Limited warranty and limitation of liability

Clarkson-Osborn Tools Ltd. (the "company") warrants to the buyer of the goods manufactured by the company that such goods will be free from defects in material and workmanship. This constitutes the sole and exclusive obligation of the company. There are no other conditions, warranties, representations or collateral agreements, express or implied, statutory or otherwise, including merchantability or fitness for purpose, except as set forth herein. Goods furnished by the company but manufactured by others are not warranted by the company, but to the extent that any original manufacturer's warranty to the company is assignable to the buyer, the company hereby assigns such warranty to the buyer. This warranty extends to the first buyer only and not to subsequent purchasers or users of the goods.

Company's obligation under this warranty is limited to replacing, repairing, or at its option, refunding the original purchase price of any goods or parts thereof that are manufactured by the company, and that are found by the company to be defective and are returned, transportation prepaid, to the company. The company shall not be responsible for any costs relating to disassembling any material or equipment in which the goods may be incorporated or for any similar costs, nor shall the company be responsible for any installation costs of any replacement goods.

The company shall have no obligation or liability of any kind to the buyer or to any other person in respect of the goods and shall not be liable for any loss, costs or damages, or any kind whatsoever, whether consequential; indirect, special or otherwise, or any other claims except as provided herein, even if caused by the negligence of the company, its employees or agents and notwithstanding any fundamental breach by the company or the buyer. The provisions hereof relating to the warranty and limitations thereon and limitations of liability shall continue to be enforceable between the parties notwithstanding termination of any agreement between the parties for any reason including fundamental breach. Without limitation, the company shall have no obligation with respect to latent defects or for any loss or damage which may arise as a result of improper installation or application of the goods or for any goods subjected to misuse, abuse, neglect or accident, or for buyer's failure to use the goods in accordance with proper procedures and any safety notices provided by the company. The company shall have no responsibility for the adequacy of buyer's design and specifications.

Conditions De Vente

Prix

Toutes listes de prix et soumissions n'incluent pas la TPS, HST ou impôt provinciale qui sont en plus si imposable, à moins qu'elles soient indiqués autrement.

Livraison

S'il vous plaît vérifier notre website pour la politique d'expédition prépayée en cours.

Valeur Minimum D'une Facture

La valeur minimum d'une facture est \$50.00 netter. Impôt et frais de livraison en plus.

Termes De Paiement

Facture(s) payable en entier 30 jours après la date de facturation en ce qui concerne les ventes à crédit.

Produits Retournés

Aucun produit ne sera accepté pour retour, à moins d'une permission de la compagnie. Des produits retournés doivent être compensés par un ordre deux fois de la valeur à moins que le client aie notre permission écrite l'avisant autrement. Tout retour pour crédit devront être port payé. Aucun retour de marchandise ne sera accepté en ce qui concerne les produits speciaux à moins qu'il ne soit prouvé qu'il ne sont défectueux.

Reclamations

Dans le cas de perte totale ou de livraison insuffisante d'une consignment, l'acheteur devra nous aviser par écrit durant les quatorze jours suivant la date de facturation.

Prix et specifications sujet a changer sans avis.

Garantie et limitation de responsabilite

Clarkson-Osborn Tools Ltd. (La Compagnie) garanti à l'acheteur que le produit fabriqué par la compagnie est exempt de tous vices de fabrications et de matériaux. Ceci constitue la seule et unique obligation de la compagnie. Il n'y a aucune autre condition, garantie, représentation ou d'accord soit verbal ou écrit à l'exception de celle ci-haut mentionnée. Pour les produits que la compagnie à elle même achetés, l'obligation de cette dernière se limite à fournir à l'acheteur la garantie qu'elle a reçu le cas échéant, du fournisseur du produit en question. Cette garantie s'applique seulement au premier acheteur et non pas aux acheteurs et utilisateurs subséquents.

L'obligation de la compagnie sous cette garantie se limite soit au remplacement, réparation ou au remboursement total ou partiel de l'achat de la marchandise en question don't la compagnie à déterminé qu'il y a vices de fabrications ou de matériaux.

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