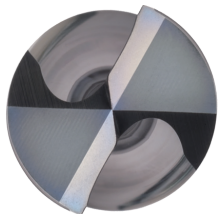


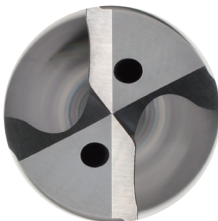
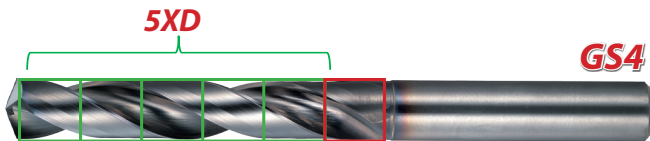


Longer flute lengths for deeper hole capability and more material available for regrinding.



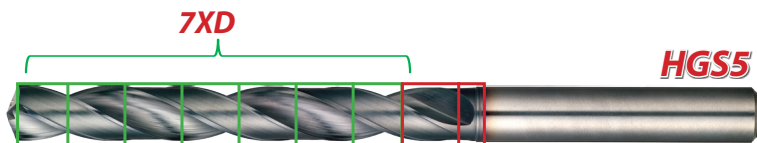
GS Series - External Coolant:

- GS2 (2XD) - Possible to drill to 3XD*
- GS4 (4XD) - Possible to drill to 5XD*



HGS Series - Internal Coolant:

- HGS3 (3XD) - Possible to drill to 4XD*
- HGS5 (5XD) - Possible to drill to 7XD*
- HGS8 (8XD) - Possible to drill to 10XD*



* Not all drills can achieve this depth and some drills may have even deeper capability. *Always check for sufficient flute length.*

Super Drill for Super Alloys!

Newly developed PVD DEX coating provides improved heat and wear resistance at increased speeds.

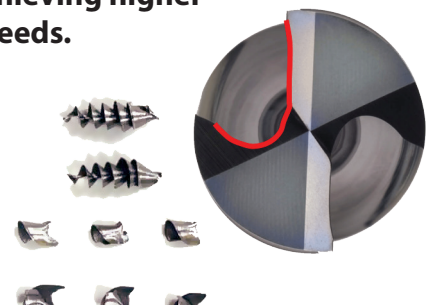
DEX coating



Unique thinning design promotes stable drilling performance.



J-Flute design offers a wide chip pocket, producing more compact chips while achieving higher speeds.



Solid Carbide Drills



SERIES

MDW-GS/HGS

SOLID CARBIDE DRILLS

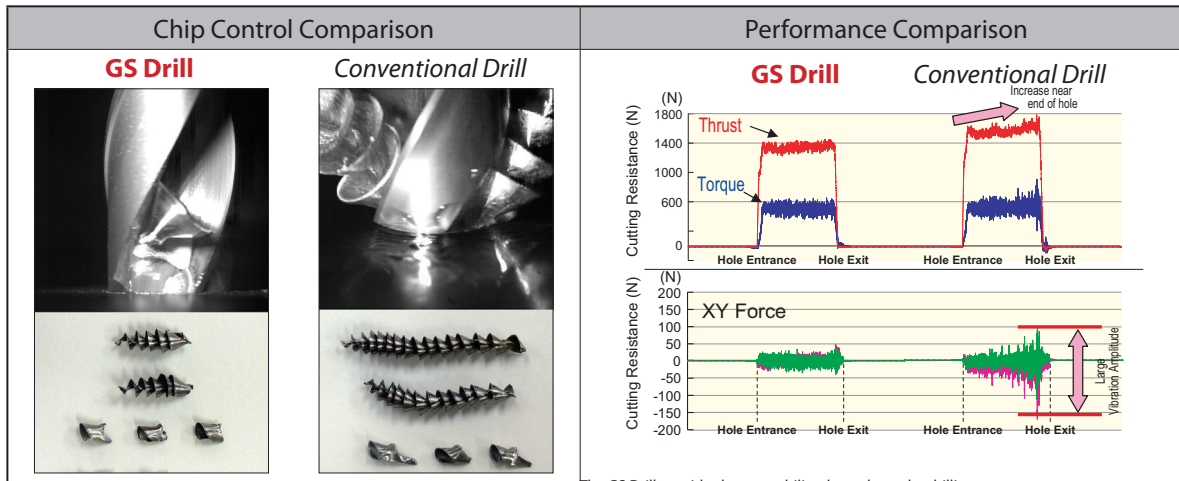
GS & HGS Series Solid Carbide Drills



■ Features & Benefits

- **Long Tool Life**
New cutting edge design and special DEX coating provide long tool life in a wide variety of work materials
- **Stable Chip Evacuation**
New flute design and wide chip pocket allows for excellent chip management and evacuation
- **Quiet Cutting & Stable Cutting**
Stable drilling with minimal vibration even in small machine applications
- **Environmentally Friendly**
Compatible with MQL (Minimum Quantity Lubrication) Systems

■ Performance



The GS Drill provides better stability throughout the drilling process.

Tool: MDW0800GS4
 Work Material: 1049 steel (200HB)
 Cutting Conditions: $v_c = 80\text{m/min}$ (262 sfm)
 $f = 0.25\text{mm/rev}$ (0.10 ipr)
 $H = 24\text{mm}$ (0.945 in)
 External coolant (water soluble)

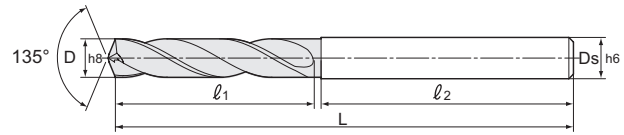
■ Application Examples

S43C (250HB) Automotive Component	Boron Steel (30HRC) Machine Component	SS400 Machine Component
· Tool: MDW0970GS4 · Cutting Conditions: 262 SFM $f=0.0098$ IPR $H= 1$ in. External Coolant (Water Soluble)	· Tool: MDW0980GS2 · Cutting Conditions: $v_c=230$ SFM $f=0.0059$ IPR $H= .276$ in. External Coolant (Water Soluble)	· Tool: MDW1050GS4 · Cutting Conditions: $v_c= 500$ SFM $f=0.012$ IPR $H= .012$ in. External Coolant (Water Soluble)
Achieving 1.5x tool life! Reduced wear on peripheral cutting edge	1.3x tool life of conventional tools! Good circularity and cylindricity.	Achieving 1.5x tool life! Good chip control



MDW-GS2 Series Solid Carbide Drills

SERIES MDW-GS2



MDW-GS2 2XD drill for excellent chip management and long tool life (External coolant)

Catalog Number (inch/metric)	Stock	Fractional Wire & Letters	Diameter D (in)	Diameter D (mm)	Overall Length L (in/mm)	Flute Length l_1 (in/mm)	Shank Length l_2 (in/mm)	Shank Diameter D_s (in/mm)	Tap Size
MDW0200GS2	●		0.0787	2.00	45.0	8.0	34.0	3.0	
MDW0210GS2	●		0.0827	2.10	45.0	10.0	32.0	3.0	3-56
MDW0220GS2	●		0.0866	2.20	45.0	10.0	32.0	3.0	
MDW0230GS2	●		0.0906	2.30	45.0	10.0	32.0	3.0	
MDW00937GS2	●	3/32	0.0940	2.38	1.772	0.394	1.260	0.1250	
MDW0240GS2	●		0.0945	2.40	45.0	10.0	32.0	3.0	
MDW0250GS2	●		0.0984	2.50	45.0	10.0	32.0	3.0	
MDW0260GS2	●		0.1024	2.60	45.0	13.0	30.0	3.0	
MDW0270GS2	●		0.1063	2.70	45.0	13.0	30.0	3.0	6-32
MDW0280GS2	●		0.1102	2.80	45.0	13.0	30.0	3.0	
MDW01110GS2	●		0.1110	2.82	1.7717	0.5118	1.1811	0.1250	
MDW01130GS2	●		0.1130	2.87	1.7717	0.5118	1.1811	0.1250	6-40
MDW0290GS2	●		0.1142	2.90	45.0	13.0	30.0	3.0	3.5x.6
MDW01160GS2	●		0.1160	2.95	1.7717	0.5118	1.1811	0.1250	
MDW0300GS2	●		0.1181	3.00	45.0	13.0	30.0	3.0	
MDW01200GS2	●		0.1200	3.05	1.7717	0.5118	1.1811	0.1250	
MDW0310GS2	●		0.1220	3.10	54.0	19.0	33.0	4.0	
MDW01250GS2	●	1/8	0.1250	3.18	1.7717	0.5118	1.1811	0.1250	
MDW0320GS2	●		0.1260	3.20	54.0	19.0	33.0	4.0	
MDW01285GS2	●		0.1285	3.26	2.1260	0.7480	1.2992	0.1562	
MDW0330GS2	●		0.1299	3.30	54.0	19.0	33.0	4.0	M4x.7
MDW0340GS2	●		0.1339	3.40	54.0	19.0	33.0	4.0	
MDW01360GS2	●		0.1360	3.45	2.1260	0.7480	1.2992	0.1562	8-32/8-36
MDW0350GS2	●		0.1378	3.50	54.0	19.0	33.0	4.0	
MDW01405GS2	●		0.1405	3.57	2.1260	0.8268	1.2992	0.1562	
MDW01406GS2	●		0.1406	3.57	2.1260	0.8268	1.2992	0.1562	
MDW0360GS2	●		0.1417	3.60	54.0	21.0	33.0	4.0	
MDW01440GS2	●		0.1440	3.66	2.1260	0.8268	1.2992	0.1562	
MDW0370GS2	●		0.1457	3.70	54.0	21.0	33.0	4.0	M4.5x.7
MDW01470GS2	●		0.1470	3.73	2.1260	0.8268	1.2992	0.1562	
MDW01495GS2	●		0.1495	3.797	2.1260	0.8268	1.2992	0.1562	10-24
MDW0380GS2	●		0.1496	3.80	54.0	21.0	33.0	4.0	
MDW01520GS2	●		0.1520	3.86	2.1260	0.8268	1.2992	0.1562	
MDW0390GS2	●		0.1535	3.90	54.0	21.0	33.0	4.0	
MDW01540GS2	●		0.1540	3.91	2.1260	0.8268	1.2992	0.1562	
MDW01562GS2	●	5/32	0.1562	3.97	2.1260	0.8268	1.2992	0.1562	
MDW01570GS2	●		0.1570	3.99	2.4016	0.9055	1.4173	0.1875	
MDW0400GS2	●		0.1575	4.00	54.0	21.0	33.0	4.0	
MDW01590GS2	●	#21	0.1590	4.04	2.4016	0.9055	1.4173	0.1875	10-32
MDW01610GS2	●		0.1610	4.09	2.4016	0.9055	1.4173	0.1875	
MDW0410GS2	●		0.1614	4.10	61.0	23.0	36.0	5.0	
MDW0420GS2	●		0.1654	4.20	61.0	23.0	36.0	5.0	M5x.8
MDW01660GS2	●		0.1660	4.22	2.4016	0.9055	1.4173	0.1875	
MDW0430GS2	●		0.1693	4.30	61.0	23.0	36.0	5.0	
MDW01695GS2	●		0.1695	4.31	2.4016	0.9055	1.4173	0.1875	
MDW01719GS2	●	11/64	0.1719	4.37	2.4016	0.9055	1.4173	0.1875	
MDW01730GS2	●		0.1730	4.39	2.4016	0.9055	1.4173	0.1875	
MDW0440GS2	●		0.1732	4.40	61.0	23.0	36.0	5.0	
MDW01770GS2	●		0.1770	4.49	2.4016	0.9055	1.4173	0.1875	12-24
MDW0450GS2	●		0.1772	4.50	61.0	23.0	36.0	5.0	
MDW01800GS2	●		0.1800	4.57	2.4016	0.9843	1.4173	0.1875	
MDW0460GS2	●		0.1811	4.60	61.0	25.0	36.0	5.0	
MDW01820GS2	●		0.1820	4.62	2.4016	0.9843	1.4173	0.1875	12-28
MDW01850GS2	●		0.1850	4.70	2.4016	0.9843	1.4173	0.1875	
MDW0470GS2	●		0.1850	4.70	61.0	25.0	36.0	5.0	

●=USA stocked item

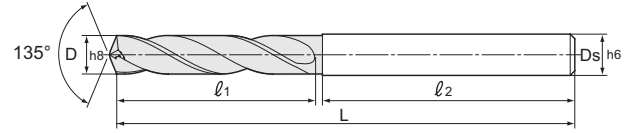
Some drills can achieve greater depths. Always check for sufficient flute length. Note: Special diameters available upon request.



SERIES MDW-GS2

MDW-GS2 Series Solid Carbide Drills

(continued from previous page)



MDW-GS2 2XD drill for excellent chip management and long tool life (External coolant)

Catalog Number (inch/metric)	Stock	Fractional Wire & Letters	Diameter D (in)	Diameter D (mm)	Overall Length L (in/mm)	Flute Length l_1 (in/mm)	Shank Length l_2 (in/mm)	Shank Diameter D_s (in/mm)	Tap Size
MDW01875GS2	●	3/16	0.1875	4.76	2.4016	0.9843	1.4173	0.1875	
MDW0480GS2	●		0.1890	4.80	61.0	25.0	36.0	5.0	
MDW01890GS2	●		0.1890	4.80	2.5591	0.9843	1.4961	0.2344	
MDW01910GS2	●		0.1910	4.85	2.5591	0.9843	1.4961	0.2344	
MDW0490GS2	●		0.1929	4.90	61.0	25.0	36.0	5.0	
MDW01935GS2	●		0.1935	4.91	2.5591	0.9843	1.4961	0.2344	
MDW01960GS2	●		0.1960	4.98	2.5591	0.9843	1.4961	0.2344	
MDW0500GS2	●		0.1969	5.00	61.0	25.0	36.0	5.0	M6x1
MDW0510GS2	●		0.2008	5.10	65.0	25.0	38.0	6.0	
MDW02010GS2	●	#7	0.2010	5.11	2.5591	0.9843	1.4961	0.2344	1/4-20
MDW02031GS2	●	13/64	0.2031	5.16	2.5591	0.9843	1.4961	0.2344	
MDW02040GS2	●		0.2040	5.18	2.5591	0.9843	1.4961	0.2344	
MDW0520GS2	●		0.2047	5.20	65.0	25.0	38.0	6.0	
MDW02055GS2	●		0.2055	5.22	2.5591	0.9843	1.4961	0.2344	
MDW0530GS2	●		0.2087	5.30	65.0	25.0	38.0	6.0	
MDW02090GS2	●		0.2090	5.31	2.5591	0.9843	1.4961	0.2344	
MDW0540GS2	●		0.2126	5.40	65.0	25.0	38.0	6.0	
MDW02130GS2	●	#3	0.2130	5.41	2.5591	0.9843	1.4961	0.2344	
MDW0550GS2	●		0.2165	5.50	65.0	25.0	38.0	6.0	
MDW02188GS2	●	7/32	0.2188	5.56	2.5591	1.0630	1.4961	0.2344	1/4-28
MDW0560GS2	●		0.2205	5.60	65.0	27.0	38.0	6.0	
MDW02210GS2	●	#2	0.2210	5.61	2.5591	1.0630	1.4961	0.2344	
MDW0570GS2	●		0.2244	5.70	65.0	27.0	38.0	6.0	
MDW02280GS2	●		0.2280	5.79	2.5591	1.0630	1.4961	0.2344	
MDW0580GS2	●		0.2283	5.80	65.0	27.0	38.0	6.0	
MDW0590GS2	●		0.2323	5.90	65.0	27.0	38.0	6.0	
MDW02340GS2	●		0.2340	5.94	2.5591	1.0630	1.4961	0.2344	
MDW02344GS2	●	15/64	0.2344	5.95	2.5591	1.0630	1.4961	0.2344	
MDW0600GS2	●		0.2362	6.00	65.0	27.0	38.0	6.0	M7x1
MDW02380GS2	●		0.2380	6.05	2.8740	1.2205	1.5748	0.2812	
MDW0610GS2	●		0.2402	6.10	73.0	31.0	40.0	7.0	
MDW02420GS2	●	#C	0.2420	6.15	2.8740	1.2205	1.5748	0.2812	
MDW0620GS2	●		0.2441	6.20	73.0	31.0	40.0	7.0	
MDW02460GS2	●		0.2460	6.25	2.8740	1.2205	1.5748	0.2812	
MDW0630GS2	●		0.2480	6.30	73.0	31.0	40.0	7.0	
MDW02500GS2	●	1/4	0.2500	6.35	2.8740	1.2205	1.5748	0.2812	
MDW0640GS2	●		0.2520	6.40	73.0	31.0	40.0	7.0	
MDW0650GS2	●		0.2559	6.50	73.0	31.0	40.0	7.0	
MDW02570GS2	●	#F	0.2570	6.53	2.8740	1.2992	1.5748	0.2812	5/16-18
MDW0660GS2	●		0.2598	6.60	73.0	33.0	40.0	7.0	
MDW02600GS2	●		0.2600	6.604	2.8740	1.2992	1.5748	0.2812	
MDW02610GS2	●		0.2610	6.63	2.8740	1.2992	1.5748	0.2812	
MDW0670GS2	●		0.2638	6.70	73.0	33.0	40.0	7.0	
MDW02656GS2	●	17/64	0.2656	6.75	2.8740	1.2992	1.5748	0.2812	
MDW02660GS2	●	#H	0.2660	6.76	2.8740	1.2992	1.5748	0.2812	
MDW02677GS2	●		0.2677	6.80	2.8740	1.2992	1.5748	0.2812	
MDW0680GS2	●		0.2677	6.80	73.0	33.0	40.0	7.0	
MDW0690GS2	●		0.2717	6.90	73.0	33.0	40.0	7.0	
MDW02720GS2	●	#I	0.2720	6.91	2.8740	1.2992	1.5748	0.2812	5/16-24
MDW0700GS2	●		0.2756	7.00	73.0	33.0	40.0	7.0	
MDW02756GS2	●		0.2756	7.00	2.8740	1.2992	1.5748	0.2812	
MDW02770GS2	●	#J	0.2770	7.04	2.8740	1.2992	1.5748	0.2812	
MDW0710GS2	●		0.2795	7.10	78.0	33.0	43.0	8.0	
MDW02810GS2	●		0.2810	7.14	2.8740	1.2992	1.5748	0.2812	

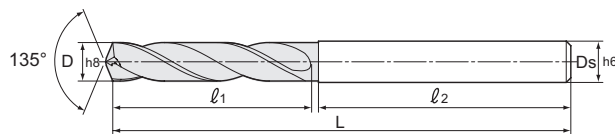
● = USA stocked item ★ = Worldwide Warehouse item available in 10 business days
Some drills can achieve greater depths. Always check for sufficient flute length. Note: Special diameters available upon request.



MDW-GS2 Series Solid Carbide Drills

SERIES MDW-GS2

(continued from previous page)



MDW-GS2 2XD drill for excellent chip management and long tool life (External coolant)

Catalog Number (inch/metric)	Stock	Fractional Wire & Letters	Diameter D (in)	Diameter D (mm)	Overall Length L (in/mm)	Flute Length l_1 (in/mm)	Shank Length l_2 (in/mm)	Shank Diameter D_s (in/mm)	Tap Size
MDW02812GS2	●	9/32	0.2812	7.142	2.8740	1.2992	1.5748	0.2812	
MDW0720GS2	●		0.2835	7.20	78.0	33.0	43.0	8.0	
MDW0730GS2	●		0.2874	7.30	78.0	33.0	43.0	8.0	
MDW02900GS2	●		0.2900	7.37	3.0709	1.2992	1.6929	0.3125	
MDW0740GS2	●		0.2913	7.40	78.0	33.0	43.0	8.0	
MDW02950GS2	●		0.2950	7.49	3.0709	1.2992	1.6929	0.3125	
MDW0750GS2	●		0.2953	7.50	78.0	33.0	43.0	8.0	
MDW02969GS2	●	19/64	0.2969	7.54	3.0709	1.4173	1.6535	0.3125	
MDW0760GS2	●		0.2992	7.60	78.0	36.0	42.0	8.0	
MDW03020GS2	●		0.3020	7.67	3.0709	1.4173	1.6535	0.3125	
MDW0770GS2	●		0.3031	7.70	78.0	36.0	42.0	8.0	
MDW0780GS2	●		0.3071	7.80	78.0	36.0	42.0	8.0	M9x1.25
MDW0790GS2	●		0.3110	7.90	78.0	36.0	42.0	8.0	
MDW03125GS2	●	5/16	0.3125	7.94	3.0709	1.4173	1.6535	0.3125	3/8-16
MDW0800GS2	●		0.3150	8.00	78.0	36.0	42.0	8.0	
MDW03160GS2	●		0.3160	8.03	3.2283	1.4173	1.7323	0.3594	
MDW0810GS2	●		0.3189	8.10	82.0	36.0	44.0	9.0	
MDW0820GS2	●		0.3228	8.20	82.0	36.0	44.0	9.0	
MDW03230GS2	●	#P	0.3230	8.204	3.2283	1.4173	1.7323	0.3594	
MDW0830GS2	●		0.3268	8.30	82.0	36.0	44.0	9.0	
MDW03281GS2	●	21/64	0.3281	8.33	3.2283	1.4173	1.7323	0.3594	
MDW03307GS2	●		0.3307	8.40	3.2283	1.4173	1.7323	0.3594	
MDW0840GS2	●		0.3307	8.40	82.0	36.0	44.0	9.0	
MDW03320GS2	●	#Q	0.3320	8.43	3.2283	1.4173	1.7323	0.3594	
MDW0850GS2	●		0.3346	8.50	82.0	36.0	44.0	9.0	M10x1.5
MDW0860GS2	●		0.3386	8.60	82.0	38.0	44.0	9.0	
MDW03386GS2	●		0.3386	8.60	3.2283	1.4961	1.7323	0.3594	
MDW03390GS2	●		0.3390	8.61	3.2283	1.4961	1.7323	0.3594	3/8-24
MDW0870GS2	●		0.3425	8.70	82.0	38.0	44.0	9.0	
MDW03438GS2	●	11/32	0.3438	8.73	3.2283	1.4961	1.7323	0.3594	
MDW0880GS2	●		0.3465	8.80	82.0	38.0	44.0	9.0	
MDW03475GS2	●		0.3475	8.83	3.2283	1.4961	1.7323	0.3594	
MDW03480GS2	●		0.3480	8.84	3.2283	1.4961	1.7323	0.3594	
MDW0890GS2	●		0.3504	8.90	82.0	38.0	44.0	9.0	
MDW0900GS2	●		0.3543	9.00	82.0	38.0	44.0	9.0	
MDW03580GS2	●		0.3580	9.09	3.2283	1.4961	1.7323	0.3594	
MDW0910GS2	●		0.3583	9.10	87.0	38.0	47.0	10.0	
MDW03594GS2	●	23/64	0.3594	9.13	3.2283	1.4961	1.7323	0.3594	
MDW0920GS2	●		0.3622	9.20	87.0	38.0	47.0	10.0	
MDW0930GS2	●		0.3661	9.30	87.0	38.0	47.0	10.0	
MDW03680GS2	●	#U	0.3680	9.35	3.4252	1.4961	1.8504	0.3906	7/16-14
MDW0940GS2	●		0.3701	9.40	87.0	38.0	47.0	10.0	
MDW0950GS2	●		0.3740	9.50	87.0	38.0	47.0	10.0	
MDW03750GS2	●	3/8	0.3750	9.53	3.4252	1.6142	1.8110	0.3906	
MDW03770GS2	●		0.3770	9.58	3.4252	1.6142	1.8110	0.3906	
MDW0960GS2	●		0.3780	9.60	87.0	41.0	46.0	10.0	
MDW03780GS2	●		0.3780	9.60	3.4252	1.6142	1.8110	0.3906	
MDW0970GS2	●		0.3819	9.70	87.0	41.0	46.0	10.0	
MDW0980GS2	●		0.3858	9.80	87.0	41.0	46.0	10.0	
MDW03860GS2	●		0.3860	9.804	3.4252	1.6142	1.8110	0.3906	
MDW0990GS2	●		0.3898	9.90	87.0	41.0	46.0	10.0	
MDW03906GS2	●	25/64	0.3906	9.92	3.4252	1.6142	1.8110	0.3906	7/16-20
MDW1000GS2	●		0.3937	10.00	87.0	41.0	46.0	10.0	
MDW03970GS2	●		0.3970	10.08	3.6614	1.6142	1.9685	0.4375	

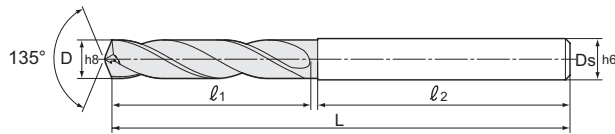
●=USA stocked item

Some drills can achieve greater depths. Always check for sufficient flute length. Note: Special diameters available upon request.



SERIES MDW-GS2

MDW-GS2 Series Solid Carbide Drills



(continued from previous page)

MDW-GS2 2XD drill for excellent chip management and long tool life (External coolant)

Catalog Number (inch/metric)	Stock	Fractional Wire & Letters	Diameter D (in)	Diameter D (mm)	Overall Length L (in/mm)	Flute Length l_1 (in/mm)	Shank Length l_2 (in/mm)	Shank Diameter D_s (in/mm)	Tap Size
MDW1010GS2	●		0.3976	10.10	93.0	41.0	50.0	11.0	
MDW1020GS2	●		0.4016	10.20	93.0	41.0	50.0	11.0	M12x1.75
MDW04040GS2	●		0.4040	10.26	3.6614	1.6142	1.9685	0.4375	
MDW1030GS2	●		0.4055	10.30	93.0	41.0	50.0	11.0	
MDW04062GS2	●	13/32	0.4062	10.32	3.6614	1.6142	1.9685	0.4375	
MDW1040GS2	●		0.4094	10.40	93.0	41.0	50.0	11.0	
MDW04130GS2	●		0.4130	10.49	3.6614	1.6142	1.9685	0.4375	
MDW1050GS2	●		0.4134	10.50	93.0	41.0	50.0	11.0	
MDW1060GS2	●		0.4173	10.60	93.0	45.0	48.0	11.0	
MDW1070GS2	●		0.4213	10.70	93.0	45.0	48.0	11.0	
MDW04219GS2	●	27/64	0.4219	10.72	3.6614	1.7717	1.8898	0.4375	1/2-13
MDW1080GS2	●		0.4252	10.80	93.0	45.0	48.0	11.0	
MDW1090GS2	●		0.4291	10.90	93.0	45.0	48.0	11.0	
MDW1100GS2	●		0.4331	11.00	93.0	45.0	48.0	11.0	
MDW1110GS2	●		0.4370	11.10	100.0	45.0	53.0	12.0	
MDW04375GS2	●	7/16	0.4375	11.11	3.6614	1.7717	1.8898	0.4375	
MDW1120GS2	●		0.4409	11.20	100.0	45.0	53.0	12.0	
MDW1130GS2	●		0.4449	11.30	100.0	45.0	53.0	12.0	
MDW1140GS2	●		0.4488	11.40	100.0	45.0	53.0	12.0	
MDW1150GS2	●		0.4528	11.50	100.0	45.0	53.0	12.0	
MDW04531GS2	●	29/64	0.4531	11.51	3.9370	1.8504	2.0866	0.4688	1/2-20
MDW1160GS2	●		0.4567	11.60	100.0	47.0	53.0	12.0	
MDW04570GS2	●		0.4570	11.61	3.9370	1.8504	2.0866	0.4688	
MDW1170GS2	●		0.4606	11.70	100.0	47.0	53.0	12.0	
MDW1180GS2	●		0.4646	11.80	100.0	47.0	53.0	12.0	
MDW1190GS2	●		0.4685	11.90	100.0	47.0	53.0	12.0	
MDW04688GS2	●	15/32	0.4688	11.91	3.9370	1.8504	2.0866	0.4688	
MDW1200GS2	●		0.4724	12.00	100.0	47.0	53.0	12.0	M14x2
MDW1210GS2	●		0.4764	12.10	100.0	47.0	51.0	13.0	
MDW1220GS2	●		0.4803	12.20	100.0	47.0	51.0	13.0	
MDW1230GS2	●		0.4843	12.30	100.0	47.0	51.0	13.0	9/16-12
MDW04844GS2	●	31/64	0.4844	12.304	3.9370	1.8504	2.0079	0.5156	
MDW1240GS2	●		0.4882	12.40	100.0	47.0	51.0	13.0	
MDW1250GS2	●		0.4921	12.50	100.0	47.0	51.0	13.0	
MDW1260GS2	●		0.4961	12.60	100.0	49.0	51.0	13.0	
MDW1270GS2	●	1/2	0.5000	12.70	100.0	49.0	51.0	13.0	
MDW05000GS2	●	1/2	0.5000	12.70	3.9370	1.9291	2.0079	0.5156	
MDW1280GS2	●		0.5039	12.80	100.0	49.0	51.0	13.0	
MDW05050GS2	●		0.5050	12.83	3.9370	1.9291	2.0079	0.5156	
MDW1290GS2	●		0.5079	12.90	100.0	49.0	51.0	13.0	
MDW1300GS2	●		0.5118	13.00	100.0	49.0	51.0	13.0	
MDW05156GS2	●	33/64	0.5156	13.09	3.9370	1.9291	2.0079	0.5156	9/16-18
MDW1310GS2	●		0.5157	13.10	105.0	50.0	53.0	14.0	
MDW1320GS2	●		0.5197	13.20	105.0	50.0	53.0	14.0	
MDW1330GS2	●		0.5236	13.30	105.0	50.0	53.0	14.0	
MDW1340GS2	●		0.5276	13.40	105.0	50.0	53.0	14.0	
MDW05312GS2	●	17/32	0.5312	13.49	4.1339	1.9685	2.0866	0.5469	5/8-11
MDW1350GS2	●		0.5315	13.50	105.0	50.0	53.0	14.0	
MDW1360GS2	●		0.5354	13.60	105.0	52.0	53.0	14.0	
MDW1370GS2	●		0.5394	13.70	105.0	52.0	53.0	14.0	
MDW1380GS2	●		0.5433	13.80	105.0	52.0	53.0	14.0	
MDW05469GS2	●	35/64	0.5469	13.89	4.1339	2.0472	2.0866	0.5469	M16x2
MDW1390GS2	●		0.5472	13.90	105.0	52.0	53.0	14.0	
MDW1400GS2	●		0.5512	14.00	105.0	52.0	53.0	14.0	

●=USA stocked item

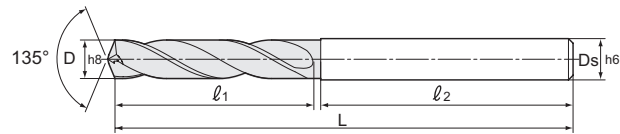
Some drills can achieve greater depths. Always check for sufficient flute length. Note: Special diameters available upon request.

(continued on next page)



MDW-GS2 Series Solid Carbide Drills

SERIES MDW-GS2



(continued from previous page)

MDW-GS2 2XD drill for excellent chip management and long tool life (External coolant)

Catalog Number (inch/metric)	Stock	Fractional Wire & Letters	Diameter D (in)	Diameter D (mm)	Overall Length L (in/mm)	Flute Length l_1 (in/mm)	Shank Length l_2 (in/mm)	Shank Diameter D_s (in/mm)	Tap Size
MDW1410GS2	●		0.5551	14.10	108.0	52.0	55.0	15.0	
MDW1420GS2	●		0.5591	14.20	108.0	52.0	55.0	15.0	
MDW05625GS2	●	9/16	0.5625	14.29	4.2520	2.0472	2.1654	0.5937	
MDW1430GS2	●		0.5630	14.30	108.0	52.0	55.0	15.0	
MDW1440GS2	●		0.5669	14.40	108.0	52.0	55.0	15.0	
MDW1450GS2	●		0.5709	14.50	108.0	52.0	55.0	15.0	
MDW1460GS2	●		0.5748	14.60	108.0	53.0	55.0	15.0	
MDW05781GS2	●	37/64	0.5781	14.68	4.2520	2.0866	2.1654	0.5937	5/8-18
MDW1470GS2	●		0.5787	14.70	108.0	53.0	55.0	15.0	
MDW1480GS2	●		0.5827	14.80	108.0	53.0	55.0	15.0	
MDW1490GS2	●		0.5866	14.90	108.0	53.0	55.0	15.0	
MDW1500GS2	●		0.5906	15.00	108.0	53.0	55.0	15.0	
MDW05937GS2	●	19/32	0.5937	15.08	4.2520	2.0866	2.1654	0.5937	
MDW1510GS2	●		0.5945	15.10	112.0	53.0	57.0	16.0	
MDW1520GS2	●		0.5984	15.20	112.0	53.0	57.0	16.0	
MDW1530GS2	●		0.6024	15.30	112.0	53.0	57.0	16.0	
MDW1540GS2	●		0.6063	15.40	112.0	53.0	57.0	16.0	
MDW06094GS2	●	39/64	0.6094	15.48	4.4094	2.0866	2.2441	0.6250	11/16-12
MDW1550GS2	●		0.6102	15.50	112.0	53.0	57.0	16.0	M18x2.5
MDW1560GS2	●		0.6142	15.60	112.0	55.0	57.0	16.0	
MDW1570GS2	●		0.6181	15.70	112.0	55.0	57.0	16.0	
MDW1580GS2	●		0.6220	15.80	112.0	55.0	57.0	16.0	
MDW06250GS2	●	5/8	0.6250	15.88	4.4094	2.1654	2.2441	0.6250	11/16-16
MDW1590GS2	●		0.6260	15.90	112.0	55.0	57.0	16.0	
MDW1600GS2	●		0.6299	16.00	112.0	55.0	57.0	16.0	
MDW06406GS2	●	41/64	0.6406	16.27	4.567	2.205	2.323	0.669	
MDW1650GS2	★		0.6496	16.50	116	56	59	17	
MDW06562GS2	●	21/32	0.6562	16.67	4.567	2.244	2.323	0.669	3/4-10
MDW1700GS2	★		0.6693	17.00	116	57	59	17	
MDW06875GS2	●	11/16	0.6875	17.46	4.724	2.283	2.402	0.709	3/4-16
MDW1750GS2	★		0.6890	17.50	120	58	61	18	
MDW07031GS2	●	45/64	0.7031	17.86	4.724	2.323	2.402	0.709	
MDW1800GS2	★		0.7087	18.00	120	59	61	18	
MDW07187GS2	●	23/32	0.7187	18.25	4.843	2.323	2.480	0.748	
MDW1850GS2	★		0.7283	18.50	123	59	63	19	
MDW07344GS2	●	47/64	0.7344	18.65	4.843	2.362	2.480	0.748	7/8-9
MDW1900GS2	★		0.7480	19.00	123	60	63	19	
MDW07500GS2	●	3/4	0.7500	19.05	5.000	2.402	2.559	0.787	
MDW1950GS2	★		0.7677	19.50	127	61	65	20	
MDW07812GS2	●	25/32	0.7812	19.84	5.000	2.441	2.559	0.787	
MDW2000GS2	★		0.7874	20.00	127	62	65	20	

● = USA stocked item

Some drills can achieve greater depths. Always check for sufficient flute length. Note: Special diameters available upon request.

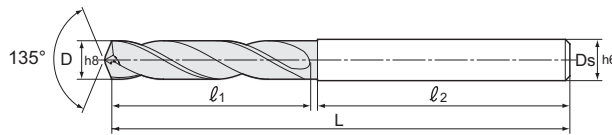
★ = Product expansion

Solid Carbide Drills



SERIES MDW-GS4

MDW-GS4 Series Solid Carbide Drills



MDW-GS4 4XD drill for excellent chip management and long tool life (External coolant)

Catalog Number (inch/metric)	Stock	Fractional Wire & Letters	Diameter D (in)	Diameter D (mm)	Overall Length L (in/mm)	Flute Length l_1 (in/mm)	Shank Length l_2 (in/mm)	Shank Diameter D_s (in/mm)	Tap Size
MDW0200GS4	●		0.0787	2.00	49.0	15.0	31.0	3.0	
MDW0210GS4	●		0.0827	2.10	49.0	17.0	30.0	3.0	3-56
MDW0220GS4	●		0.0866	2.20	49.0	17.0	30.0	3.0	
MDW0230GS4	●		0.0906	2.30	49.0	17.0	30.0	3.0	
MDW00937GS4	●	3/32	0.0937	2.38	1.9291	0.6693	1.1811	0.125	
MDW0240GS4	●		0.0945	2.40	49.0	17.0	30.0	3.0	
MDW0250GS4	●		0.0984	2.50	49.0	17.0	30.0	3.0	
MDW0260GS4	●		0.1024	2.60	49.0	19.0	30.0	3.0	
MDW0270GS4	●		0.1063	2.70	49.0	19.0	30.0	3.0	6-32
MDW0280GS4	●		0.1102	2.80	49.0	19.0	30.0	3.0	
MDW0290GS4	●		0.1142	2.90	49.0	19.0	30.0	3.0	3.5x.6
MDW0300GS4	●		0.1181	3.00	49.0	19.0	30.0	3.0	
MDW0310GS4	●		0.1220	3.10	60.0	24.0	34.0	4.0	
MDW0320GS4	●		0.1260	3.20	60.0	24.0	34.0	4.0	
MDW0330GS4	●		0.1299	3.30	60.0	24.0	34.0	4.0	M4x.7
MDW0340GS4	●		0.1339	3.40	60.0	24.0	34.0	4.0	
MDW0350GS4	●		0.1378	3.50	60.0	24.0	34.0	4.0	
MDW0360GS4	●		0.1417	3.60	60.0	27.0	33.0	4.0	
MDW0370GS4	●		0.1457	3.70	60.0	27.0	33.0	4.0	M4.5x.7
MDW0380GS4	●		0.1496	3.80	60.0	27.0	33.0	4.0	
MDW0390GS4	●		0.1535	3.90	60.0	27.0	33.0	4.0	
MDW0400GS4	●		0.1575	4.00	60.0	27.0	33.0	4.0	
MDW0410GS4	●		0.1614	4.10	76.0	31.0	43.0	5.0	
MDW0420GS4	●		0.1654	4.20	76.0	31.0	43.0	5.0	M5x.8
MDW0430GS4	●		0.1693	4.30	76.0	31.0	43.0	5.0	
MDW0440GS4	●		0.1732	4.40	76.0	31.0	43.0	5.0	
MDW0450GS4	●		0.1772	4.50	76.0	31.0	43.0	5.0	
MDW0460GS4	●		0.1811	4.60	76.0	38.0	38.0	5.0	
MDW0470GS4	●		0.1850	4.70	76.0	38.0	38.0	5.0	
MDW0480GS4	●		0.1890	4.80	76.0	38.0	38.0	5.0	
MDW0490GS4	●		0.1929	4.90	76.0	38.0	38.0	5.0	
MDW0500GS4	●		0.1969	5.00	76.0	38.0	38.0	5.0	M6x1
MDW0510GS4	●		0.2008	5.10	81.0	39.0	40.0	6.0	
MDW02010GS4	●	#7	0.2010	5.11	3.1890	1.5354	1.5748	0.2344	1/4-20
MDW0520GS4	●		0.2047	5.20	81.0	39.0	40.0	6.0	
MDW0530GS4	●		0.2087	5.30	81.0	39.0	40.0	6.0	
MDW0540GS4	●		0.2126	5.40	81.0	39.0	40.0	6.0	
MDW0550GS4	●		0.2165	5.50	81.0	39.0	40.0	6.0	
MDW0560GS4	●		0.2205	5.60	81.0	41.0	40.0	6.0	
MDW0570GS4	●		0.2244	5.70	81.0	41.0	40.0	6.0	
MDW0580GS4	●		0.2283	5.80	81.0	41.0	40.0	6.0	
MDW0590GS4	●		0.2323	5.90	81.0	41.0	40.0	6.0	
MDW0600GS4	●		0.2362	6.00	81.0	41.0	40.0	6.0	M7x1
MDW0610GS4	●		0.2402	6.10	83.0	42.0	40.0	7.0	
MDW0620GS4	●		0.2441	6.20	83.0	42.0	40.0	7.0	
MDW02460GS4	●		0.2460	6.25	3.2677	1.6535	1.5748	0.2812	
MDW0630GS4	●		0.2480	6.30	83.0	42.0	40.0	7.0	
MDW02500GS4	●	1/4	0.2500	6.35	3.2677	1.6535	1.5748	0.2812	
MDW0640GS4	●		0.2520	6.40	83.0	42.0	40.0	7.0	
MDW0650GS4	●		0.2559	6.50	83.0	42.0	40.0	7.0	
MDW02570GS4	●	#F	0.2570	6.53	3.2677	1.6929	1.5748	0.2812	5/16-18
MDW0660GS4	●		0.2598	6.60	83.0	43.0	40.0	7.0	
MDW02610GS4	●		0.2610	6.63	3.2677	1.6929	1.5748	0.2812	
MDW0670GS4	●		0.2638	6.70	83.0	43.0	40.0	7.0	

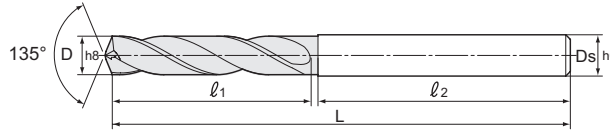
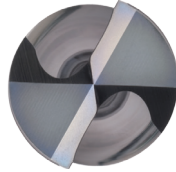
●=USA stocked item

Some drills can achieve greater depths. Always check for sufficient flute length. Note: Special diameters available upon request.



MDW-GS4 Series Solid Carbide Drills

SERIES MDW-GS4



(continued from previous page)

MDW-GS4 4XD drill for excellent chip management and long tool life (External coolant)

Catalog Number (inch/metric)	Stock	Fractional Wire & Letters	Diameter D (in)	Diameter D (mm)	Overall Length L (in/mm)	Flute Length l_1 (in/mm)	Shank Length l_2 (in/mm)	Shank Diameter D_s (in/mm)	Tap Size
MDW0265GS4	●	17/64	0.2656	6.75	3.2677	1.6929	1.5748	0.2812	
MDW0266GS4	●	#H	0.2660	6.76	3.2677	1.6929	1.5748	0.2812	
MDW0680GS4	●		0.2677	6.80	83.0	43.0	40.0	7.0	
MDW0690GS4	●		0.2717	6.90	83.0	43.0	40.0	7.0	
MDW02720GS4	●	#I	0.2720	6.91	3.2677	1.6929	1.5748	0.2812	5/16-24
MDW0700GS4	●		0.2756	7.00	83.0	43.0	40.0	7.0	
MDW02770GS4	●	#J	0.2770	7.04	3.2677	1.6929	1.5748	0.2812	
MDW0710GS4	●		0.2795	7.10	90.0	45.0	43.0	8.0	
MDW02810GS4	●		0.2810	7.14	3.2677	1.6929	1.5748	0.2812	
MDW02812GS4	●	9/32	0.2812	7.142	3.2677	1.6929	1.5748	0.2812	
MDW0720GS4	●		0.2835	7.20	90.0	45.0	43.0	8.0	
MDW0730GS4	●		0.2874	7.30	90.0	45.0	43.0	8.0	
MDW02900GS4	●		0.2900	7.37	3.5433	1.7717	1.6929	0.3125	
MDW0740GS4	●		0.2913	7.40	90.0	45.0	43.0	8.0	
MDW02950GS4	●		0.2950	7.49	3.5433	1.7717	1.6929	0.3125	
MDW0750GS4	●		0.2953	7.50	90.0	45.0	43.0	8.0	
MDW02969GS4	●	19/64	0.2969	7.54	3.5433	1.8898	1.6535	0.3125	
MDW0760GS4	●		0.2992	7.60	90.0	48.0	42.0	8.0	
MDW03020GS4	●		0.3020	7.67	3.5433	1.8898	1.6535	0.3125	
MDW0770GS4	●		0.3031	7.70	90.0	48.0	42.0	8.0	
MDW0780GS4	●		0.3071	7.80	90.0	48.0	42.0	8.0	M9x1.25
MDW0790GS4	●		0.3110	7.90	90.0	48.0	42.0	8.0	
MDW03125GS4	●	5/16	0.3125	7.94	3.5433	1.8898	1.6535	0.3125	3/8-16
MDW0800GS4	●		0.3150	8.00	90.0	48.0	42.0	8.0	
MDW03160GS4	●		0.3160	8.03	3.8583	2.0866	1.6929	0.3594	
MDW0810GS4	●		0.3189	8.10	98.0	53.0	43.0	9.0	
MDW0820GS4	●		0.3228	8.20	98.0	53.0	43.0	9.0	
MDW03230GS4	●	#P	0.3230	8.204	3.8583	2.0866	1.6929	0.3594	
MDW0830GS4	●		0.3268	8.30	98.0	53.0	43.0	9.0	
MDW03281GS4	●	21/64	0.3281	8.33	3.8583	2.0866	1.6929	0.3594	
MDW0840GS4	●		0.3307	8.40	98.0	53.0	43.0	9.0	
MDW03320GS4	●	#Q	0.3320	8.43	3.8583	2.0866	1.6929	0.3594	
MDW0850GS4	●		0.3346	8.50	98.0	53.0	43.0	9.0	M10x1.5
MDW0860GS4	●		0.3386	8.60	98.0	55.0	43.0	9.0	
MDW03390GS4	●		0.3390	8.61	3.8583	2.1654	1.6929	0.3594	3/8-24
MDW0870GS4	●		0.3425	8.70	98.0	55.0	43.0	9.0	
MDW03438GS4	●	11/32	0.3438	8.73	3.8583	2.1654	1.6929	0.3594	
MDW0880GS4	●		0.3465	8.80	98.0	55.0	43.0	9.0	
MDW03480GS4	●		0.3480	8.84	3.8583	2.1654	1.6929	0.3594	
MDW0890GS4	●		0.3504	8.90	98.0	55.0	43.0	9.0	
MDW0900GS4	●		0.3543	9.00	98.0	55.0	43.0	9.0	
MDW03580GS4	●		0.3580	9.09	3.8583	2.1654	1.6929	0.3594	
MDW0910GS4	●		0.3583	9.10	105.0	58.0	45.0	10.0	
MDW03594GS4	●	23/64	0.3594	9.13	3.8583	2.1654	1.6929	0.3594	
MDW0920GS4	●		0.3622	9.20	105.0	58.0	45.0	10.0	
MDW0930GS4	●		0.3661	9.30	105.0	58.0	45.0	10.0	
MDW03680GS4	●	#U	0.3680	9.35	4.1339	2.2835	1.7717	0.3906	7/16-14
MDW0940GS4	●		0.3701	9.40	105.0	58.0	45.0	10.0	
MDW0950GS4	●		0.3740	9.50	105.0	58.0	45.0	10.0	
MDW03750GS4	●	3/8	0.3750	9.53	4.1339	2.3622	1.7717	0.3906	
MDW03770GS4	●		0.3770	9.58	4.1339	2.3622	1.7717	0.3906	
MDW0960GS4	●		0.3780	9.60	105.0	60.0	45.0	10.0	

● = USA stocked item

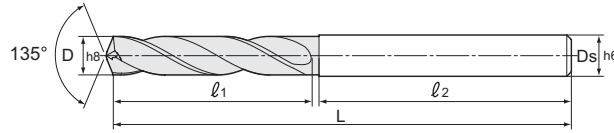
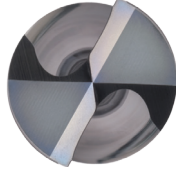
Some drills can achieve greater depths. Always check for sufficient flute length. Note: Special diameters available upon request.

(continued on next page)



SERIES MDW-GS4

MDW-GS4 Series Solid Carbide Drills



(continued from previous page)

MDW-GS4 4XD drill for excellent chip management and long tool life (External coolant)

Catalog Number (inch/metric)	Stock	Fractional Wire & Letters	Diameter D (in)	Diameter D (mm)	Overall Length L (in/mm)	Flute Length l_1 (in/mm)	Shank Length l_2 (in/mm)	Shank Diameter D_s (in/mm)	Tap Size
MDW0970GS4	●		0.3819	9.70	105.0	60.0	45.0	10.0	
MDW0980GS4	●		0.3858	9.80	105.0	60.0	45.0	10.0	
MDW03860GS4	●		0.3860	9.804	4.1339	2.3622	1.7717	0.3906	
MDW0990GS4	●		0.3898	9.90	105.0	60.0	45.0	10.0	
MDW03906GS4	●	25/64	0.3906	9.92	4.1339	2.3622	1.7717	0.3906	7/16-20
MDW1000GS4	●		0.3937	10.00	105.0	60.0	45.0	10.0	
MDW03970GS4	●		0.3970	10.08	4.4882	2.5984	1.8110	0.4375	
MDW1010GS4	●		0.3976	10.10	114.0	66.0	46.0	11.0	
MDW1020GS4	●		0.4016	10.20	114.0	66.0	46.0	11.0	M12x1.75
MDW04040GS4	●		0.4040	10.26	4.4882	2.5984	1.8110	0.4375	
MDW1030GS4	●		0.4055	10.30	114.0	66.0	46.0	11.0	
MDW04062GS4	●	13/32	0.4062	10.32	4.4882	2.5984	1.8110	0.4375	
MDW1040GS4	●		0.4094	10.40	114.0	66.0	46.0	11.0	
MDW04130GS4	●		0.4130	10.49	4.4882	2.5984	1.8110	0.4375	
MDW1050GS4	●		0.4134	10.50	114.0	66.0	46.0	11.0	
MDW1060GS4	●		0.4173	10.60	114.0	68.0	46.0	11.0	
MDW1070GS4	●		0.4213	10.70	114.0	68.0	46.0	11.0	
MDW04219GS4	●	27/64	0.4219	10.72	4.4882	2.6772	1.8110	0.4375	1/2-13
MDW1080GS4	●		0.4252	10.80	114.0	68.0	46.0	11.0	
MDW1090GS4	●		0.4291	10.90	114.0	68.0	46.0	11.0	
MDW1100GS4	●		0.4331	11.00	114.0	68.0	46.0	11.0	
MDW1110GS4	●		0.4370	11.10	121.0	71.0	48.0	12.0	
MDW04375GS4	●	7/16	0.4375	11.11	4.4882	2.6772	1.8110	0.4375	
MDW1120GS4	●		0.4409	11.20	121.0	71.0	48.0	12.0	
MDW1130GS4	●		0.4449	11.30	121.0	71.0	48.0	12.0	
MDW1140GS4	●		0.4488	11.40	121.0	71.0	48.0	12.0	
MDW1150GS4	●		0.4528	11.50	121.0	71.0	48.0	12.0	
MDW04531GS4	●	29/64	0.4531	11.51	4.7638	2.8740	1.8898	0.4688	1/2-20
MDW1160GS4	●		0.4567	11.60	121.0	73.0	48.0	12.0	
MDW1170GS4	●		0.4606	11.70	121.0	73.0	48.0	12.0	
MDW1180GS4	●		0.4646	11.80	121.0	73.0	48.0	12.0	
MDW1190GS4	●		0.4685	11.90	121.0	73.0	48.0	12.0	
MDW04688GS4	●	15/32	0.4688	11.91	4.7638	2.8740	1.8898	0.4688	
MDW1200GS4	●		0.4724	12.00	121.0	73.0	48.0	12.0	M14x2
MDW1210GS4	●		0.4764	12.10	137.0	76.0	59.0	13.0	
MDW1220GS4	●		0.4803	12.20	137.0	76.0	59.0	13.0	
MDW1230GS4	●		0.4843	12.30	137.0	76.0	59.0	13.0	9/16-12
MDW04844GS4	●	31/64	0.4844	12.308	5.3937	2.9921	2.3228	0.5156	
MDW1240GS4	●		0.4882	12.40	137.0	76.0	59.0	13.0	
MDW1250GS4	●		0.4921	12.50	137.0	76.0	59.0	13.0	
MDW1260GS4	●		0.4961	12.60	137.0	78.0	59.0	13.0	
MDW1270GS4	●	1/2	0.5000	12.70	137.0	78.0	59.0	13.0	
MDW05000GS4	●	1/2	0.5000	12.70	5.3937	3.0709	2.3228	0.5156	
MDW1280GS4	●		0.5039	12.80	137.0	78.0	59.0	13.0	
MDW05050GS4	●		0.5050	12.83	5.3937	3.0709	2.3228	0.5156	
MDW1290GS4	●		0.5079	12.90	137.0	78.0	59.0	13.0	
MDW1300GS4	●		0.5118	13.00	137.0	78.0	59.0	13.0	
MDW05156GS4	●	33/64	0.5156	13.09	5.3937	3.0709	2.3228	0.5156	9/16-18
MDW1310GS4	●		0.5157	13.10	147.0	84.0	61.0	14.0	
MDW1320GS4	●		0.5197	13.20	147.0	84.0	61.0	14.0	
MDW1330GS4	●		0.5236	13.30	147.0	84.0	61.0	14.0	
MDW1340GS4	●		0.5276	13.40	147.0	84.0	61.0	14.0	

● = USA stocked item

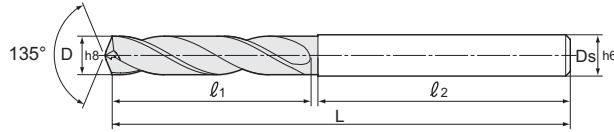
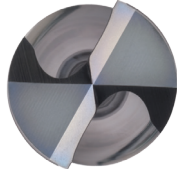
Some drills can achieve greater depths. Always check for sufficient flute length. Note: Special diameters available upon request.

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MDW-GS4 Series Solid Carbide Drills

SERIES MDW-GS4



(continued from previous page)

MDW-GS4 4XD drill for excellent chip management and long tool life (External coolant)

Catalog Number (inch/metric)	Stock	Fractional Wire & Letters	Diameter D (in)	Diameter D (mm)	Overall Length L (in/mm)	Flute Length ℓ_1 (in/mm)	Shank Length ℓ_2 (in/mm)	Shank Diameter D_s (in/mm)	Tap Size
MDW05312GS4	●	17/32	0.5312	13.49	5.7874	3.3071	2.4016	0.5469	5/8-11
MDW1350GS4	●		0.5315	13.50	147.0	84.0	61.0	14.0	
MDW1360GS4	●		0.5354	13.60	147.0	86.0	61.0	14.0	
MDW1370GS4	●		0.5394	13.70	147.0	86.0	61.0	14.0	
MDW1380GS4	●		0.5433	13.80	147.0	86.0	61.0	14.0	
MDW05469GS4	●	35/64	0.5469	13.89	5.7874	3.3858	2.4016	0.5469	M16x2
MDW1390GS4	●		0.5472	13.90	147.0	86.0	61.0	14.0	
MDW1400GS4	●		0.5512	14.00	147.0	86.0	61.0	14.0	
MDW1410GS4	●		0.5551	14.10	153.0	89.0	62.0	15.0	
MDW1420GS4	●		0.5591	14.20	153.0	89.0	62.0	15.0	
MDW05625GS4	●	9/16	0.5625	14.29	6.0236	3.5039	2.4409	0.5937	
MDW1430GS4	●		0.5630	14.30	153.0	89.0	62.0	15.0	
MDW1440GS4	●		0.5669	14.40	153.0	89.0	62.0	15.0	
MDW1450GS4	●		0.5709	14.50	153.0	89.0	62.0	15.0	
MDW1460GS4	●		0.5748	14.60	153.0	91.0	62.0	15.0	
MDW05781GS4	●	37/64	0.5781	14.68	6.0236	3.5827	2.4409	0.5937	5/8-18
MDW1470GS4	●		0.5787	14.70	153.0	91.0	62.0	15.0	
MDW1480GS4	●		0.5827	14.80	153.0	91.0	62.0	15.0	
MDW1490GS4	●		0.5866	14.90	153.0	91.0	62.0	15.0	
MDW1500GS4	●		0.5906	15.00	153.0	91.0	62.0	15.0	
MDW05937GS4	●	19/32	0.5937	15.08	6.0236	3.5827	2.4409	0.5937	
MDW1510GS4	●		0.5945	15.10	160.0	94.0	64.0	16.0	
MDW1520GS4	●		0.5984	15.20	160.0	94.0	64.0	16.0	
MDW1530GS4	●		0.6024	15.30	160.0	94.0	64.0	16.0	
MDW1540GS4	●		0.6063	15.40	160.0	94.0	64.0	16.0	
MDW06094GS4	●	39/64	0.6094	15.48	6.2992	3.7008	2.5197	0.6250	11/16-12
MDW1550GS4	●		0.6102	15.50	160.0	94.0	64.0	16.0	M18x2.5
MDW1560GS4	●		0.6142	15.60	160.0	96.0	64.0	16.0	
MDW1570GS4	●		0.6181	15.70	160.0	96.0	64.0	16.0	
MDW1580GS4	●		0.6220	15.80	160.0	96.0	64.0	16.0	
MDW06250GS4	●	5/8	0.6250	15.88	6.2992	3.7795	2.5197	0.6250	11/16-16
MDW1590GS4	●		0.6260	15.90	160.0	96.0	64.0	16.0	
MDW1600GS4	●		0.6299	16.00	160.0	96.0	64.0	16.0	
MDW06406GS4	●	41/64	0.6406	16.27	6.575	3.858	2.559	0.669	
MDW1650GS4	●		0.6496	16.50	167	98	65	17	
MDW06562GS4	●	21/32	0.6562	16.67	6.575	3.858	2.559	0.669	3/4-10
MDW1700GS4	●		0.6693	17.00	167	98	65	17	
MDW06875GS4	●	11/16	0.6875	17.46	6.575	3.937	2.559	0.709	3/4-16
MDW1750GS4	★		0.6890	17.50	167	100	65	18	
MDW07031GS4	●	45/64	0.7031	17.86	6.575	4.016	2.559	0.709	
MDW1800GS4	●		0.7087	18.00	167	102	65	18	
MDW07187GS4	●	23/32	0.7187	18.25	7.047	4.094	2.559	0.748	
MDW1850GS4	★		0.7283	18.50	179	104	65	19	
MDW07344GS4	●	47/64	0.7344	18.65	7.047	4.173	2.559	0.748	7/8-9
MDW1900GS4	★		0.7480	19.00	179	106	65	19	
MDW07500GS4	●	3/4	0.7500	19.05	7.047	4.331	2.559	0.787	
MDW1950GS4	★		0.7677	19.50	179	110	65	20	
MDW07812GS4	●	25/32	0.7812	19.84	7.047	4.488	2.559	0.787	
MDW2000GS4	★		0.7874	20.00	179	114	65	20	

●=USA stocked item

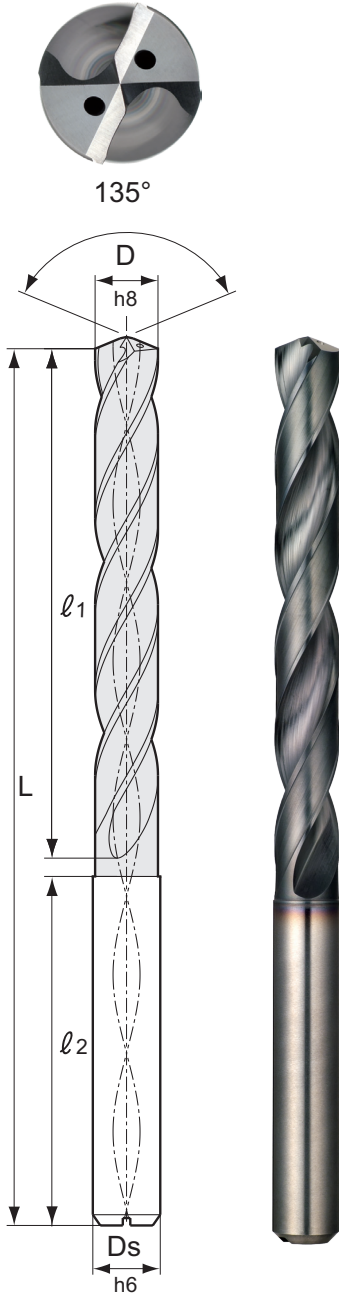
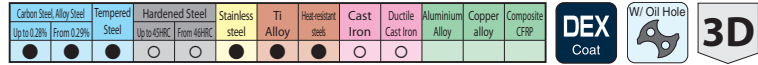
Some drills can achieve greater depths. Always check for sufficient flute length. Note: Special diameters available upon request.

★ = Product expansion



SERIES MDW-HGS3

MDW-HGS3 Series Solid Carbide Drills Coolant Through Drills



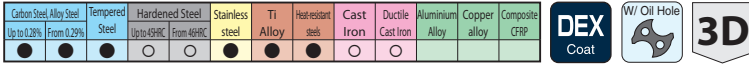
Items labeled in purple represent drills that fit in Shrink Fit Holders

Catalog Number (inch/metric)	Type	Stock	D _c mm	D _c Inch	Shank Diameter D _s (in/mm)	Overall Length L (in/mm)	Flute Length l ₁ (in/mm)	Shank Length l ₂ (in/mm)	Tap Size	Fractional Wire & Letters
MDW0150	HGS3	●	1.50	0.059	3.0	63.0	10	50		
MDW0160	HGS3	●	1.60	0.063	3.0	63.0	12	50	M2x.4	
MDW0170	HGS3	●	1.70	0.067	3.0	63.0	12	50		
MDW0180	HGS3	●	1.80	0.071	3.0	63.0	12	50		
MDW0190	HGS3	●	1.90	0.075	3.0	63.0	12	50		
MDW0200	HGS3	●	2.00	0.079	3.0	63.0	12.5	48		
MDW0210	HGS3	●	2.10	0.083	3.0	68.0	15	51	3-56	
MDW0220	HGS3	●	2.20	0.087	3.0	68.0	15	51		
MDW0230	HGS3	●	2.30	0.091	3.0	68.0	15	51		
MDW00937	HGS3	●	2.38	0.094	.125 3.0	2.677	0.689	1.929		3/32
MDW0240	HGS3	●	2.40	0.095	3.0	68.0	15	51		
MDW0250	HGS3	●	2.50	0.098	3.0	68.0	15	51		
MDW0260	HGS3	●	2.60	0.102	3.0	68.0	17.5	49		
MDW0270	HGS3	●	2.70	0.106	3.0	68.0	17.5	49	6-32	
MDW01094	HGS3	●	2.78	0.109	.125 3.0	2.677	0.689	1.929		7/64
MDW0280	HGS3	●	2.80	0.110	3.0	68.0	17.5	49		
MDW0290	HGS3	●	2.90	0.114	3.0	68.0	17.5	49	3.5x.6	
MDW0300	HGS3	●	3.00	0.118	3.0 6.0	68.0	17.5	49		
MDW0310	HGS3	●	3.10	0.122	4.0 6.0	72.0	20	50		
MDW01250	HGS3	●	3.18	0.125	.125 6.0	2.677	0.689	1.929		1/8
MDW0320	HGS3	●	3.20	0.126	4.0 6.0	72.0	20	50		
MDW0330	HGS3	●	3.30	0.130	4.0 6.0	72.0	20	50	M4x.7	
MDW0340	HGS3	●	3.40	0.134	4.0 6.0	72.0	20	50		
MDW0350	HGS3	●	3.50	0.138	4.0 6.0	72.0	20	50		
MDW0360	HGS3	●	3.60	0.142	4.0 6.0	72.0	22.5	48		
MDW0370	HGS3	●	3.70	0.146	4.0 6.0	72.0	22.5	48	M4.5x.7	
MDW0380	HGS3	●	3.80	0.150	4.0 6.0	72.0	22.5	48		
MDW0390	HGS3	●	3.90	0.154	4.0 6.0	72.0	22.5	48		
MDW01562	HGS3	●	3.97	0.156	.156 6.0	2.835	0.886	1.890		5/32
MDW0400	HGS3	●	4.00	0.158	4.0 6.0	72.0	22.5	48		
MDW01590	HGS3	●	4.04	0.159	.188 6.0	3.150	0.984	2.087	10-32	#21
MDW0410	HGS3	●	4.10	0.161	5.0 6.0	80.0	25	53		
MDW0420	HGS3	●	4.20	0.165	5.0 6.0	80.0	25	53	M5x.8	
MDW0430	HGS3	●	4.30	0.169	5.0 6.0	80.0	25	53		
MDW01719	HGS3	●	4.37	0.172	.188 6.0	3.1	0.984	2.087		11/64



MDW-HGS3 Series Solid Carbide Coolant Through Drills

SERIES MDW-HGS3



Items labeled in purple represent drills that fit in Shrink Fit Holders

Catalog Number (inch/metric)	Type	Stock	D _c mm	D _c Inch	Shank Diameter D _s (in/mm)	Overall Length L (in/mm)	Flute Length l ₁ (in/mm)	Shank Length l ₂ (in/mm)	Tap Size	Fractional Wire & Letters
MDW0440	HGS3 HGS3S	●	4.40	0.173	5.0 6.0	80.0	25	53		
MDW0450	HGS3 HGS3S	●	4.50	0.177	5.0 6.0	80.0	25	53		
MDW0460	HGS3 HGS3S	●	4.60	0.181	5.0 6.0	80.0	27.5	51		
MDW0470	HGS3 HGS3S	●	4.70	0.185	5.0 6.0	80.0	27.5	51		
MDW01875	HGS3 HGS3S	●	4.76	0.188	0.188 6.0	3.10	1.083	2.008		3/16
MDW0480	HGS3 HGS3S	●	4.80	0.189	5.0 6.0	80.0	27.5	51		
MDW0490	HGS3 HGS3S	●	4.90	0.193	5.0 6.0	80.0	27.5	51		
MDW0500	HGS3 HGS3S	●	5.00	0.197	5.0 6.0	80.0	27.5	51	M6x1	
MDW0510	HGS3 HGS3S	●	5.10	0.201	6.0	82.0	27.5	53		
MDW02010	HGS3 HGS3S	●	5.11	0.201	0.234 6.0	3.228	1.083	2.087	1/4-2020	#7
MDW02031	HGS3 HGS3S	●	5.16	0.203	0.234 6.0	3.228	1.083	2.087		13/64
MDW0520	HGS3 HGS3S	●	5.20	0.205	6.0	82.0	27.5	53		
MDW0530	HGS3 HGS3S	●	5.30	0.209	6.0	82.0	27.5	53		
MDW0540	HGS3 HGS3S	●	5.40	0.213	6.0	82.0	27.5	53		
MDW02130	HGS3 HGS3S	●	5.41	0.213	0.234 6.0	3.228	1.083	2.087		#3
MDW0550	HGS3 HGS3S	●	5.50	0.217	6.0	82.0	27.5	53		
MDW02188	HGS3 HGS3S	●	5.56	0.219	0.234 6.0	3.228	1.181	2.047	1/4-2028	7/32
MDW0560	HGS3 HGS3S	●	5.60	0.221	6.0	82.0	30	52		
MDW02210	HGS3 HGS3S	●	5.61	0.221	0.234 6.0	3.228	1.181	2.047		#2
MDW0570	HGS3 HGS3S	●	5.70	0.224	6.0	82.0	30	52		
MDW0580	HGS3 HGS3S	●	5.80	0.228	6.0	82.0	30	52		
MDW0590	HGS3 HGS3S	●	5.90	0.232	6.0	82.0	30	52		
MDW02344	HGS3 HGS3S	●	5.995	0.234	0.234 6.0	3.228	1.181	2.047		15/64
MDW0600	HGS3 HGS3S	●	6.00	0.236	6.0	82.0	30	52	M7x1	
MDW0610	HGS3 HGS3S	●	6.10	0.240	7.0 8.0	88.0	32.5	53		
MDW02420	HGS3 HGS3S	●	6.15	0.242	0.281 8.0	3.465	1.280	2.087		#C
MDW0620	HGS3 HGS3S	●	6.20	0.244	7.0 8.0	88.0	32.5	53		
MDW0630	HGS3 HGS3S	●	6.30	0.248	7.0 8.0	88.0	32.5	53		
MDW02500	HGS3 HGS3S	●	6.35	0.250	0.281 8.0	3.465	1.280	2.087		1/4
MDW0640	HGS3 HGS3S	●	6.40	0.252	7.0 8.0	88.0	32.5	53		
MDW0650	HGS3 HGS3S	●	6.50	0.256	7.0 8.0	88.0	32.5	53		
MDW02570	HGS3 HGS3S	●	6.53	0.257	0.281 8.0	3.465	1.378	2.087	5/16-18	#F
MDW0660	HGS3 HGS3S	●	6.60	0.260	7.0 8.0	88.0	35	53		
MDW0670	HGS3 HGS3S	●	6.70	0.264	7.0 8.0	88.0	35	53		
MDW02656	HGS3 HGS3S	●	6.75	0.266	0.281 8.0	3.465	1.378	2.087		17/64

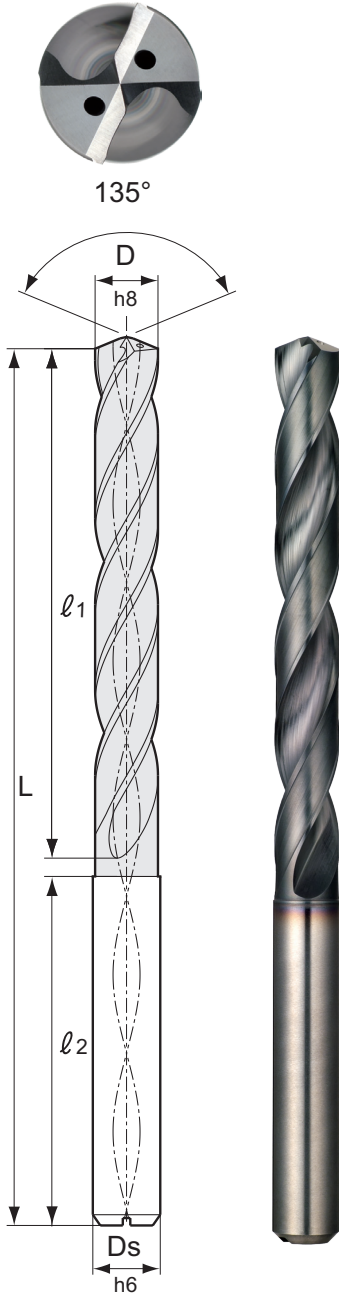
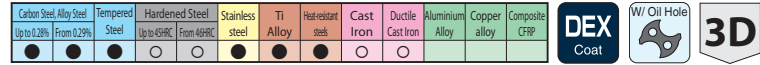
Solid Carbide
Drills



SERIES MDW-HGS3

MDW-HGS3 Series Solid Carbide Drills

Coolant Through Drills



Items labeled in purple represent drills that fit in Shrink Fit Holders

Catalog Number (inch/metric)	Type	Stock	D _c mm	D _c Inch	Shank Diameter D _s (in/mm)	Overall Length L (in/mm)	Flute Length l ₁ (in/mm)	Shank Length l ₂ (in/mm)	Tap Size	Fractional Wire & Letters
MDW02660	HGS3 HGS3S	●	6.76	0.266	0.281 8.0	3.465	1.378	2.087		
MDW0680	HGS3 HGS3S	●	6.80	0.268	7.0 8.0	88.0	35	53		
MDW0690	HGS3 HGS3S	●	6.90	0.272	7.0 8.0	88.0	35	53		
MDW02720	HGS3 HGS3S	●	6.91	0.272	0.281 8.0	3.465	1.378	2.087	5/16-24	#I
MDW0700	HGS3 HGS3S	●	7.00	0.276	7.0 8.0	88.0	35	53		
MDW02770	HGS3 HGS3S	●	7.04	0.277	0.281 8.0	3.465	1.378	2.087		#J
MDW0710	HGS3 HGS3S	●	7.10	0.280	8.0	94.0	37.5	54		
MDW02812	HGS3 HGS3S	●	7.14	0.281	0.281 8.0	3.465	1.378	2.087		9/32
MDW0720	HGS3 HGS3S	●	7.20	0.284	8.0	94.0	37.5	54		
MDW0730	HGS3 HGS3S	●	7.30	0.287	8.0	94.0	37.5	54		
MDW0740	HGS3 HGS3S	●	7.40	0.291	8.0	94.0	37.5	54		
MDW0750	HGS3 HGS3S	●	7.50	0.295	8.0	94.0	37.5	54		
MDW02969	HGS3 HGS3S	●	7.54	0.297	0.313 8.0	3.701	1.575	2.126		19/64
MDW0760	HGS3 HGS3S	●	7.60	0.299	8.0	94.0	40	54		
MDW0770	HGS3 HGS3S	●	7.70	0.303	8.0	94.0	40	54		
MDW0780	HGS3 HGS3S	●	7.80	0.307	8.0	94.0	40	54	M9x1.25	
MDW0790	HGS3 HGS3S	●	7.90	0.311	8.0	94.0	40	54		
MDW03125	HGS3 HGS3S	●	7.94	0.313	0.313 8.0	3.701	1.575	2.126	3/8-16	5/16
MDW0800	HGS3 HGS3S	●	8.00	0.315	8.0	94.0	40	54		
MDW0810	HGS3 HGS3S	●	8.10	0.319	9.0 10.0	100.0	42.5	55		
MDW0820	HGS3 HGS3S	●	8.20	0.323	9.0 10.0	100.0	42.5	55		
MDW03230	HGS3 HGS3S	●	8.204	0.323	0.359 10.0	3.937	1.673	2.165		#P
MDW0830	HGS3 HGS3S	●	8.30	0.327	9.0 10.0	100.0	42.5	55		
MDW03281	HGS3 HGS3S	●	8.33	0.328	0.359 10.0	3.937	1.673	2.165	M7x1	21/64
MDW0840	HGS3 HGS3S	●	8.40	0.331	9.0 10.0	100.0	42.5	55		
MDW03320	HGS3 HGS3S	●	8.43	0.332	0.359 10.0	3.937	1.673	2.165		#Q
MDW0850	HGS3 HGS3S	●	8.50	0.335	9.0 10.0	100.0	42.5	55	M10x1.5	
MDW0860	HGS3 HGS3S	●	8.60	0.339	9.0 10.0	100.0	45	55		
MDW0870	HGS3 HGS3S	●	8.70	0.343	9.0 10.0	100.0	45	55		
MDW03438	HGS3 HGS3S	●	8.73	0.344	0.359 10.0	3.937	1.772	2.165		11/32
MDW0880	HGS3 HGS3S	●	8.80	0.347	9.0 10.0	100.0	45	55		
MDW0890	HGS3 HGS3S	●	8.90	0.350	9.0 10.0	100.0	45	55		
MDW0900	HGS3 HGS3S	●	9.00	0.354	9.0 10.0	100.0	45	55		
MDW0910	HGS3 HGS3S	●	9.10	0.358	10.0	106.0	47.5	56		
MDW03594	HGS3 HGS3S	●	9.13	0.359	0.359 10.0	3.937	1.772	2.165		23/64

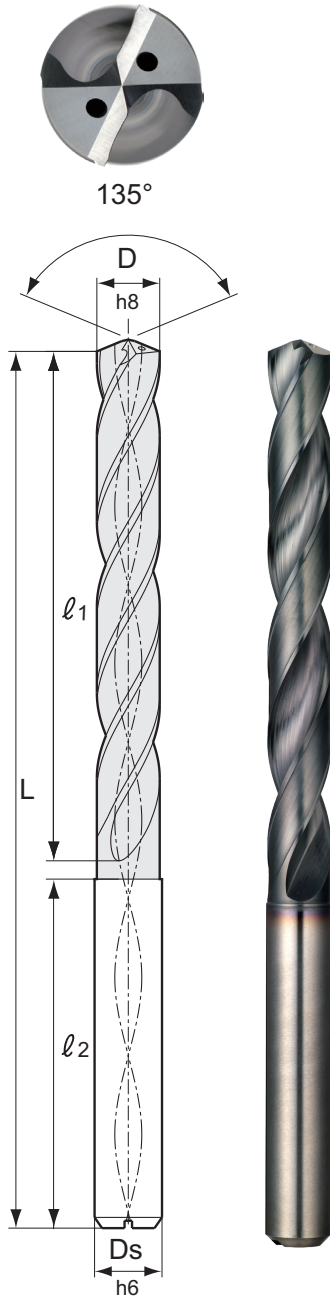


MDW-HGS3 Series Solid Carbide Coolant Through Drills

SERIES MDW-HGS3

Carbon Steel, Alloy Steel	Tempered Steel	Hardened Steel	Stainless Steel	Ti Alloy	Heat-resistant steel	Cast Iron	Ductile Cast Iron	Aluminum Alloy	Copper alloy	Composite CFRP	DEX Coat	W/Oil Hole	3D
Up to 0.28%	From 0.29%	Up to 45RC	From 48RC										

Items labeled in purple represent drills that fit in Shrink Fit Holders



Catalog Number (inch/metric)	Type	Stock	D _c mm	D _c Inch	Shank Diameter D _s (in/mm)	Overall Length L (in/mm)	Flute Length l ₁ (in/mm)	Shank Length l ₂ (in/mm)	Tap Size	Fractional Wire & Letters
MDW0920	HGS3 HGS3S	●	9.2	0.362	10.0	106	47.5	56		
MDW0930	HGS3 HGS3S	●	9.3	0.366	10.0	106	47.5	56		
MDW03680	HGS3 HGS3S	●	9.35	0.368	0.391 10.0	4.173	1.870	2.205	7/16-14	#U
MDW0940	HGS3 HGS3S	●	9.4	0.370	10.0	106	47.5	56		
MDW0950	HGS3 HGS3S	●	9.5	0.374	10.0	106	47.5	56		
MDW03750	HGS3 HGS3S	●	9.53	0.375	0.391 10.0	4.173	1.969	2.205		3/8
MDW0960	HGS3 HGS3S	●	9.6	0.378	10.0	106	50	56		
MDW0970	HGS3 HGS3S	●	9.7	0.382	10.0	106	50	56		
MDW0980	HGS3 HGS3S	●	9.8	0.386	10.0	106	50	56		
MDW0990	HGS3 HGS3S	●	9.9	0.390	10.0	106	50	56		
MDW03906	HGS3 HGS3S	●	9.92	0.391	0.391 10.0	4.173	1.969	2.205	7/16-20	25/64
MDW1000	HGS3 HGS3S	●	10.0	0.394	10.0	106	50	56		
MDW1010	HGS3 HGS3S	●	10.1	0.398	11.0 12.0	116	52.5	61		
MDW1020	HGS3 HGS3S	●	10.2	0.402	11.0 12.0	116	52.5	61	M12x1.75	
MDW1030	HGS3 HGS3S	●	10.3	0.406	11.0 12.0	116	52.5	61		
MDW4062	HGS3 HGS3S	●	10.32	0.406	0.438 12.0	4.567	2.067	2.402		13/32
MDW1040	HGS3 HGS3S	●	10.4	0.409	11.0 12.0	116	52.5	61		
MDW1050	HGS3 HGS3S	●	10.5	0.413	11.0 12.0	116	52.5	61		
MDW1060	HGS3 HGS3S	●	10.6	0.417	11.0 12.0	116	55	61		
MDW1070	HGS3 HGS3S	●	10.7	0.421	11.0 12.0	116	55	61		
MDW04219	HGS3 HGS3S	●	10.72	0.422	0.438 12.0	4.567	2.165	2.402	1/2-13	27/64
MDW1080	HGS3 HGS3S	●	10.8	0.425	11.0 12.0	116	55	61		
MDW1090	HGS3 HGS3S	●	10.9	0.429	11.0 12.0	116	55	61		
MDW1100	HGS3 HGS3S	●	11.0	0.433	11.0 12.0	116	55	61		
MDW1110	HGS3 HGS3S	●	11.1	0.437	12.0	122	57.5	62		
MDW04375	HGS3 HGS3S	●	11.11	0.438	0.438 12.0	4.567	2.165	2.402		7/16
MDW1120	HGS3 HGS3S	●	11.2	0.441	12.0	122	57.5	62		
MDW1130	HGS3 HGS3S	●	11.3	0.445	12.0	122	57.5	62		
MDW1140	HGS3 HGS3S	●	11.4	0.449	12.0	122	57.5	62		
MDW1150	HGS3 HGS3S	●	11.5	0.453	12.0	122	57.5	62		
MDW04531	HGS3 HGS3S	●	11.51	0.453	0.469 12.0	4.803	2.362	2.441	1/2-20	29/64
MDW1160	HGS3 HGS3S	●	11.6	0.457	12.0	122	60	62		
MDW1170	HGS3 HGS3S	●	11.7	0.461	12.0	122	60	62		
MDW1180	HGS3 HGS3S	●	11.8	0.465	12.0	122	60	62		
MDW1190	HGS3 HGS3S	●	11.9	0.469	12.0	122	60	62		
MDW04688	HGS3 HGS3S	●	11.91	0.469	0.469 12.0	4.803	2.362	2.441		15/32

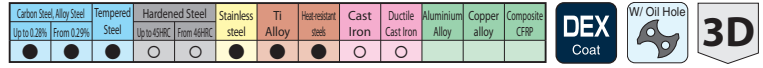
Solid Carbide
Drills



SERIES MDW-HGS3

MDW-HGS3 Series Solid Carbide Drills

Coolant Through Drills



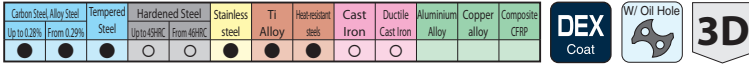
Items labeled in purple represent drills that fit in Shrink Fit Holders

Catalog Number (inch/metric)	Type	Stock	D _c mm	D _c Inch	Shank Diameter D _s (in/mm)	Overall Length L (in/mm)	Flute Length l ₁ (in/mm)	Shank Length l ₂ (in/mm)	Tap Size	Fractional Wire & Letters
MDW1200	HGS3 HGS3S	●	12.0	0.472	12.0	122	60	62		
MDW1210	HGS3 HGS3S	●	12.1	0.476	13.0 14.0	128	62.5	63		
MDW1220	HGS3 HGS3S	●	12.2	0.480	13.0 14.0	128	62.5	63		
MDW1230	HGS3 HGS3S	●	12.3	0.484	13.0 14.0	128	65	63	9/16-12	
MDW04844	HGS3 HGS3S	●	12.31	0.484	0.516 14.0	5.039	2.461	2.480		31/64
MDW1240	HGS3 HGS3S	●	12.4	0.488	13.0 14.0	128	62.5	63		
MDW1250	HGS3 HGS3S	●	12.5	0.492	13.0 14.0	128	62.5	63		
MDW1260	HGS3 HGS3S	●	12.6	0.496	13.0 14.0	128	65	63		
MDW1270	HGS3 HGS3S	●	12.7	0.500	13.0 14.0	128	65	63		1/2
MDW05000	HGS3 HGS3S	●	12.7	0.500	0.516 14.0	5.039	2.559	2.480		1/2
MDW1280	HGS3 HGS3S	●	12.8	0.504	13.0 14.0	128	65	63		
MDW1290	HGS3 HGS3S	●	12.9	0.508	13.0 14.0	128	65	63		
MDW1300	HGS3 HGS3S	●	13.0	0.512	13.0 14.0	128	65	63		
MDW05156	HGS3 HGS3S	●	13.09	0.516	0.516 14.0	5.039	2.559	2.480	9/16-18	33/64
MDW1310	HGS3 HGS3S	●	13.1	0.516	14.0	134	67.5	64		
MDW1320	HGS3 HGS3S	●	13.2	0.520	14.0	134	67.5	64		
MDW1330	HGS3 HGS3S	●	13.3	0.524	14.0	134	67.5	64		
MDW1340	HGS3 HGS3S	●	13.4	0.528	14.0	134	67.5	64		
MDW05312	HGS3 HGS3S	●	13.49	0.531	0.547 14.0	5.276	2.658	2.520	5/8-11	17/32
MDW1350	HGS3 HGS3S	●	13.5	0.532	14.0	134	67.5	64		
MDW1360	HGS3 HGS3S	●	13.6	0.535	14.0	134	70	64		
MDW1370	HGS3 HGS3S	●	13.7	0.539	14.0	134	70	64		
MDW1380	HGS3 HGS3S	●	13.8	0.543	14.0	134	70	64		
MDW05469	HGS3 HGS3S	●	13.89	0.547	0.547 14.0	5.276	2.756	2.520	M16x2	35/64
MDW1390	HGS3 HGS3S	●	13.9	0.547	14.0	134	70	64		
MDW1400	HGS3 HGS3S	●	14.0	0.551	14.0	134	70	64		
MDW1410	HGS3 HGS3S	●	14.1	0.555	15.0 16.0	140	72.5	65		
MDW1420	HGS3 HGS3S	●	14.2	0.559	15.0 16.0	140	72.5	65		
MDW05625	HGS3 HGS3S	●	14.29	0.563	0.594 16.0	5.512	2.854	2.559		9/16
MDW1430	HGS3 HGS3S	●	14.3	0.563	15.0 16.0	140	72.5	65		
MDW1440	HGS3 HGS3S	●	14.4	0.567	15.0 16.0	140	72.5	65		
MDW1450	HGS3 HGS3S	●	14.5	0.571	15.0 16.0	140	72.5	65		
MDW1460	HGS3 HGS3S	●	14.6	0.575	15.0 16.0	140	75	65		
MDW05781	HGS3 HGS3S	●	14.68	0.578	0.594 16.0	5.512	2.953	2.559	5/8-18	37/64
MDW1470	HGS3 HGS3S	●	14.7	0.579	15.0 16.0	140	75	65		



MDW-HGS3 Series Solid Carbide Coolant Through Drills

SERIES MDW-HGS3



Items labeled in purple represent drills that fit in Shrink Fit Holders

Catalog Number (inch/metric)	Type	Stock	D _c mm	D _c Inch	Shank Diameter D _s (in/mm)	Overall Length L (in/mm)	Flute Length ℓ ₁ (in/mm)	Shank Length ℓ ₂ (in/mm)	Tap Size	Fractional Wire & Letters
MDW1480	HGS3 HGS3S	●	14.8	0.583	15.0 16.0	140	75	65		
MDW1490	HGS3 HGS3S	●	14.9	0.587	15.0 16.0	140	75	65		
MDW1500	HGS3 HGS3S	●	15.0	0.591	15.0 16.0	140	75	65		
MDW05937	HGS3 HGS3S	●	15.08	0.594	0.594 16.0	5.515	2.953	2.559		19/32
MDW1510	HGS3 HGS3S	●	15.1	0.595	16.0	146	77.5	66		
MDW1520	HGS3 HGS3S	●	15.2	0.598	16.0	146	77.5	66		
MDW1530	HGS3 HGS3S	●	15.3	0.602	16.0	146	77.5	66		
MDW1540	HGS3 HGS3S	●	15.4	0.606	16.0	146	77.5	66		
MDW06094	HGS3 HGS3S	●	15.48	0.609	0.625 16.0	5.748	3.051	2.598	11/16-12	39/64
MDW1550	HGS3 HGS3S	●	15.5	0.610	16.0	146	77.5	66	M18x2.5	
MDW1560	HGS3 HGS3S	●	15.6	0.614	16.0	146	80	66		
MDW1570	HGS3 HGS3S	●	15.7	0.618	16.0	146	80	66		
MDW1580	HGS3 HGS3S	●	15.8	0.622	16.0	146	80	66		
MDW06250	HGS3 HGS3S	●	15.88	0.625	0.625 16.0	5.748	3.150	2.598	11/16-16	5/8
MDW1590	HGS3 HGS3S	●	15.9	0.626	16.0	146	80	66		
MDW1600	HGS3 HGS3S	●	16.0	0.630	16.0	146	80	66		
MDW06406	HGS3 HGS3S	●	16.27	0.641	0.669	5.984	3.248	2.638		41/64
MDW1650	HGS3 HGS3S	●	16.5	0.650	17.0	152	82.5	67		
MDW06562	HGS3 HGS3S	●	16.67	0.656	0.669	5.984	3.346	2.638	3/4-10	21/32
MDW1700	HGS3 HGS3S	●	17.0	0.669	17.0	152	85	67		
MDW06875	HGS3 HGS3S	●	17.46	0.687	0.709	6.220	3.445	2.677	3/4-16	11/16
MDW1750	HGS3 HGS3S	●	17.5	0.689	17.0	158	87.5	68		
MDW07031	HGS3 HGS3S	●	17.86	0.703	0.709	6.220	3.543	2.677		45/64
MDW1800	HGS3 HGS3S	★	18.0	0.709	18.0	158	90	68		
MDW07187	HGS3 HGS3S	●	18.25	0.719	0.748	6.457	3.642	2.717		23/32
MDW1850	HGS3 HGS3S	★	18.5	0.728	18.0	164	92.5	69		
MDW07344	HGS3 HGS3S	●	18.65	0.734	0.748	6.457	3.740	2.717	7/8-9	47/64
MDW1900	HGS3 HGS3S	●	19.0	0.748	19.0	164	95	69		
MDW07500	HGS3 HGS3S	●	19.05	0.750	0.787	6.693	3.839	2.756		3/4
MDW1925	HGS3 HGS3S	●	19.25	0.748	20.0	170	97.5	70		72/95
MDW1950	HGS3 HGS3S	★	19.5	0.768	20.0	170	97.5	70		
MDW07812	HGS3 HGS3S	●	19.84	0.781	0.787	6.693	3.937	2.756		25/32
MDW2000	HGS3 HGS3S	★	20.0	0.787	20.0	170	100	70		

Solid Carbide Drills

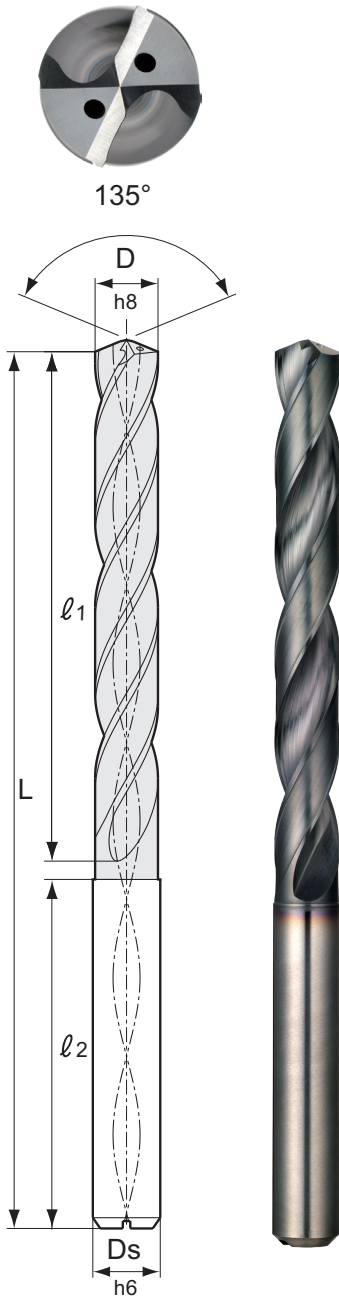
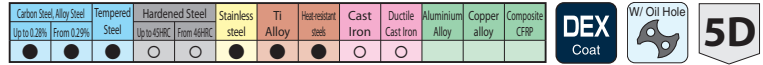


SERIES MDW-HGS5

MDW-HGS5 Series Solid Carbide Drills

Coolant Through Drills

Items labeled in purple represent drills that fit in Shrink Fit Holders

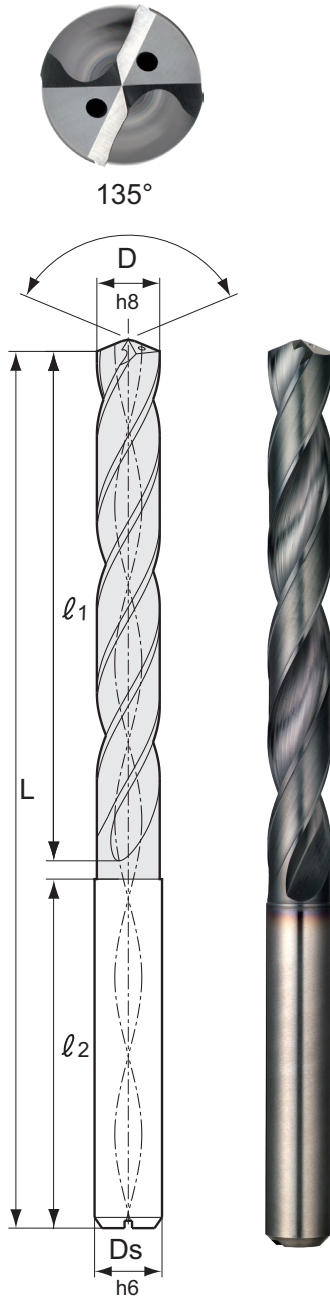


Catalog Number (inch/metric)	Type	Stock	D _c mm	D _c Inch	Shank Diameter D _s (in/mm)	Overall Length L (in/mm)	Flute Length l ₁ (in/mm)	Shank Length l ₂ (in/mm)	Tap Size	Fractional Wire & Letters
MDW0150	HGS5 HGS5S	●	1.50	0.059	3.0	70	14	56		
MDW0160	HGS5 HGS5S	●	1.60	0.063	3.0	70	19	51		
MDW0170	HGS5 HGS5S	●	1.70	0.067	3.0	70	19	51		
MDW0180	HGS5 HGS5S	●	1.80	0.071	3.0	70	19	51		
MDW0190	HGS5 HGS5S	●	1.90	0.075	3.0	70	19	51		
MDW0200	HGS5 HGS5S	●	2.00	0.079	3.0	70	19	49		
MDW0210	HGS5 HGS5S	●	2.10	0.083	3.0	78	24	52		
MDW0220	HGS5 HGS5S	●	2.20	0.087	3.0	78	24	52		
MDW0230	HGS5 HGS5S	●	2.30	0.091	3.0	78	24	52		
MDW00937	HGS5 HGS5S	●	2.38	0.094	.125 3.0	3.07	0.945	1.889		3/32
MDW0240	HGS5 HGS5S	●	2.40	0.095	3.0	78	24	52		
MDW0250	HGS5 HGS5S	●	2.50	0.098	3.0	78	24	52		
MDW0260	HGS5 HGS5S	●	2.60	0.102	3.0	78	28	48		
MDW0270	HGS5 HGS5S	●	2.70	0.106	3.0	78	28	48		
MDW01094	HGS5 HGS5S	●	2.78	0.109	.125 3.0	3.07	1.10	1.889		7/64
MDW0280	HGS5 HGS5S	●	2.80	0.110	3.0	78	28	48		
MDW0290	HGS5 HGS5S	●	2.90	0.114	3.0	78	28	48		
MDW0300	HGS5 HGS5S	●	3.00	0.118	3.0 6.0	78	28	48		
MDW0310	HGS5 HGS5S	●	3.10	0.122	4.0 6.0	86	32	52		
MDW01250	HGS5 HGS5S	●	3.18	0.125	.125 6.0	3.07	1.10	1.889		1/8
MDW0320	HGS5 HGS5S	●	3.20	0.126	4.0 6.0	86	32	52		
MDW0330	HGS5 HGS5S	●	3.30	0.130	4.0 6.0	86	32	52		
MDW0340	HGS5 HGS5S	●	3.40	0.134	4.0 6.0	86	32	52		
MDW0350	HGS5 HGS5S	●	3.50	0.138	4.0 6.0	86	32	52		
MDW01406	HGS5 HGS5S	●	3.57	0.140	.156 6.0	3.39	1.42	1.890		
MDW0360	HGS5 HGS5S	●	3.60	0.142	4.0 6.0	86	36	48		
MDW0370	HGS5 HGS5S	●	3.70	0.146	4.0 6.0	86	36	48		
MDW0380	HGS5 HGS5S	●	3.80	0.150	4.0 6.0	86	36	48		
MDW0390	HGS5 HGS5S	●	3.90	0.154	4.0 6.0	86	36	48		
MDW01562	HGS5 HGS5S	●	3.97	0.156	.156 6.0	3.39	1.42	1.890		5/32
MDW0400	HGS5 HGS5S	●	4.00	0.158	4.0 6.0	86	36	48		
MDW01590	HGS5 HGS5S	●	4.04	0.159	.188 6.0	3.86	1.57	2.20		#21
MDW0410	HGS5 HGS5S	●	4.10	0.161	5.0 6.0	98	40	56		
MDW0420	HGS5 HGS5S	●	4.20	0.165	5.0 6.0	98	40	56		
MDW0430	HGS5 HGS5S	●	4.30	0.169	5.0 6.0	98	40	56		
MDW01719	HGS5 HGS5S	●	4.37	0.172	.188 6.0	3.86	1.57	2.20		11/64



MDW-HGS5 Series Solid Carbide Coolant Through Drills

SERIES MDW-HGS5



Items labeled in purple represent drills that fit in Shrink Fit Holders

Catalog Number (inch/metric)	Type	Stock	D _c mm	D _c Inch	Shank Diameter D _s (in/mm)	Overall Length L (in/mm)	Flute Length l ₁ (in/mm)	Shank Length l ₂ (in/mm)	Tap Size	Fractional Wire & Letters
MDW0440	HGS5	●	4.40	0.173	5.0	98.0	40	56		
	HGS5S	●			6.0					
MDW0450	HGS5	●	4.50	0.177	5.0	98.0	40	56		
	HGS5S	●			6.0					
MDW0460	HGS5	●	4.60	0.181	5.0	98.0	44	52		
	HGS5S	●			6.0					
MDW0470	HGS5	●	4.70	0.185	5.0	98.0	44	52		
	HGS5S	●			6.0					
MDW01875	HGS5	●	4.76	0.188	0.188	3.86	1.73	2.05		3/16
	HGS5S	●			6.0					
MDW0480	HGS5	●	4.80	0.189	5.0	98.0	44	52		
	HGS5S	●			6.0					
MDW0490	HGS5	●	4.90	0.193	5.0	98.0	44	52		
	HGS5S	●			6.0					
MDW0500	HGS5	●	5.00	0.196	5.0	98.0	44	52		
	HGS5S	●			6.0					
MDW0510	HGS5	●	5.10	0.201	6.0	100.0	44	54		
	HGS5S	●								
MDW02031	HGS5	●	5.16	0.203	0.234	3.937	1.73	2.13		13/64
	HGS5S	●			6.0					
MDW0520	HGS5	●	5.20	0.205	6.0	100.0	44	54		
	HGS5S	●								
MDW0530	HGS5	●	5.30	0.209	6.0	100.0	44	54		
	HGS5S	●								
MDW0540	HGS5	●	5.40	0.213	6.0	100.0	44	54		
	HGS5S	●								
MDW02130	HGS5	●	5.41	0.213	0.234	3.94	1.73	2.13		#3
	HGS5S	●			6.0					
MDW0550	HGS5	●	5.50	0.216	6.0	100.0	44	54		
	HGS5S	●								
MDW02188	HGS5	●	5.56	0.219	0.234	3.94	1.89	2.047		7/32
	HGS5S	●			6.0					
MDW0560	HGS5	●	5.60	0.221	6.0	100.0	48	52		
	HGS5S	●								
MDW02210	HGS5	●	5.61	0.221	0.234	3.94	1.89	2.047		#2
	HGS5S	●			6.0					
MDW0570	HGS5	●	5.70	0.224	6.0	100.0	48	52		
	HGS5S	●								
MDW0580	HGS5	●	5.80	0.228	6.0	100.0	48	52		
	HGS5S	●								
MDW0590	HGS5	●	5.90	0.232	6.0	100.0	48	52		
	HGS5S	●								
MDW02344	HGS5	●	5.995	0.234	0.234	3.94	1.89	2.047		15/64
	HGS5S	●			6.0					
MDW0600	HGS5	●	6.00	0.236	6.0	100.0	48	52		
	HGS5S	●								
MDW0610	HGS5	●	6.10	0.240	7.0	109.0	52	53		
	HGS5S	●			8.0					
MDW0620	HGS5	●	6.20	0.244	7.0	109.0	52	53		
	HGS5S	●			8.0					
MDW0630	HGS5	●	6.30	0.248	7.0	109.0	52	53		
	HGS5S	●			8.0					
MDW02500	HGS5	●	6.35	0.250	0.281	4.29	2.05	2.08		1/4
	HGS5S	●			8.0					
MDW0640	HGS5	●	6.40	0.252	7.0	109.0	52	53		
	HGS5S	●			8.0					
MDW0650	HGS5	●	6.50	0.256	7.0	109.0	52	53		
	HGS5S	●			8.0					
MDW02570	HGS5	●	6.53	0.257	0.281	3.465	2.20	2.087		#F
	HGS5S	●			8.0					
MDW0653	HGS5	●	6.53	0.257	7.0	109.0	56	53		
	HGS5S	●			8.0					
MDW0660	HGS5	●	6.60	0.260	7.0	109.0	56	53		
	HGS5S	●			8.0					
MDW0670	HGS5	●	6.70	0.264	7.0	109.0	56	53		
	HGS5S	●			8.0					
MDW02656	HGS5	●	6.75	0.266	0.281	4.29	2.20	2.087		17/64
	HGS5S	●			8.0					
MDW02660	HGS5	●	6.76	0.266	0.281	4.29	2.20	2.087		#H
	HGS5S	●			8.0					

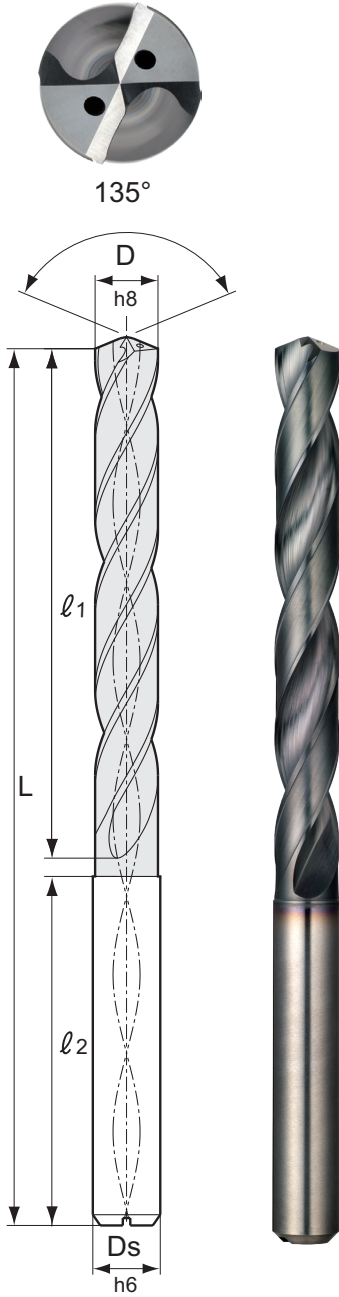
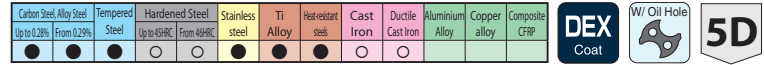
Solid Carbide
Drills



SERIES MDW-HGS5

MDW-HGS5 Series Solid Carbide Drills

Coolant Through Drills



Solid Carbide Drills

Items labeled in purple represent drills that fit in Shrink Fit Holders

Catalog Number (inch/metric)	Type	Stock	D _c mm	D _c Inch	Shank Diameter D _s (in/mm)	Overall Length L (in/mm)	Flute Length l ₁ (in/mm)	Shank Length l ₂ (in/mm)	Tap Size	Fractional Wire & Letters
MDW0680	HGS5 HGS5S	●	6.80	0.268	7.0 8.0	109.0	56	53		
MDW0690	HGS5 HGS5S	●	6.90	0.272	7.0 8.0	109.0	56	53		
MDW02720	HGS5 HGS5S	●	6.91	0.272	0.281 8.0	4.29	2.20	2.087		#I
MDW0700	HGS5 HGS5S	●	7.00	0.276	7.0 8.0	109.0	56	53		
MDW02770	HGS5 HGS5S	●	7.04	0.277	0.281 8.0	4.29	2.20	2.087		#J
MDW0710	HGS5 HGS5S	●	7.10	0.280	8.0	118.0	60	53		
MDW02812	HGS5 HGS5S	●	7.14	0.281	0.281 8.0	4.29	2.20	2.087		9/32
MDW0720	HGS5 HGS5S	●	7.20	0.284	8.0	118.0	60	54		
MDW0730	HGS5 HGS5S	●	7.30	0.287	8.0	118.0	60	54		
MDW0740	HGS5 HGS5S	●	7.40	0.291	8.0	118.0	60	54		
MDW0750	HGS5 HGS5S	●	7.50	0.295	8.0	118.0	60	54		
MDW02969	HGS5 HGS5S	●	7.54	0.297	0.313 8.0	4.64	2.52	2.126		19/64
MDW0760	HGS5 HGS5S	●	7.60	0.299	8.0	118.0	64	54		
MDW0770	HGS5 HGS5S	●	7.70	0.303	8.0	118.0	64	54		
MDW0780	HGS5 HGS5S	●	7.80	0.307	8.0	118.0	64	54		
MDW0790	HGS5 HGS5S	●	7.90	0.311	8.0	118.0	64	54		
MDW03125	HGS5 HGS5S	●	7.94	0.313	0.313 8.0	4.64	2.52	2.126		5/16
MDW0800	HGS5 HGS5S	●	8.00	0.315	8.0	118.0	64	54		
MDW0810	HGS5 HGS5S	●	8.10	0.319	9.0 10.0	127.0	68	55		
MDW0820	HGS5 HGS5S	●	8.20	0.323	9.0 10.0	127.0	68	55		
MDW03230	HGS5 HGS5S	●	8.204	0.323	0.359 10.0	5.0	2.68	2.165		#P
MDW0830	HGS5 HGS5S	●	8.30	0.327	9.0 10.0	127.0	68	55		
MDW03281	HGS5 HGS5S	●	8.33	0.328	0.359 10.0	5.0	2.68	2.165		21/64
MDW0840	HGS5 HGS5S	●	8.40	0.331	9.0 10.0	127.0	68	55		
MDW03320	HGS5 HGS5S	●	8.43	0.332	0.359 10.0	5.0	2.68	2.165		#Q
MDW0850	HGS5 HGS5S	●	8.50	0.335	9.0 10.0	127.0	68	55		
MDW0860	HGS5 HGS5S	●	8.60	0.339	9.0 10.0	127.0	72	55		
MDW0870	HGS5 HGS5S	●	8.70	0.343	9.0 10.0	127.0	72	55		
MDW03438	HGS5 HGS5S	●	8.73	0.344	0.359 10.0	5.00	2.83	2.165		11/32
MDW0880	HGS5 HGS5S	●	8.80	0.347	9.0 10.0	127.0	72	55		
MDW0890	HGS5 HGS5S	●	8.90	0.350	9.0 10.0	127.0	72	55		
MDW0900	HGS5 HGS5S	●	9.00	0.354	9.0 10.0	127.0	72	55		
MDW0910	HGS5 HGS5S	●	9.10	0.358	10.0	136.0	76	56		
MDW03594	HGS5 HGS5S	●	9.13	0.359	0.359 10.0	5.0	2.83	2.16		23/64



MDW-HGS5 Series Solid Carbide Coolant Through Drills

SERIES MDW-HGS5

Carbon Steel Alloy Steel Up to 0.28% C From 0.29% C	Tempered Steel	Hardened Steel Up to 45HRC From 48HRC	Stainless steel	Ti Alloy	Heat-resistant steel	Cast Iron	Ductile Cast Iron	Aluminum Alloy	Copper alloy	Composite CFRP	DEX Coat	W/Oil Hole	5D
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Items labeled in purple represent drills that fit in Shrink Fit Holders



Catalog Number (inch/metric)	Type	Stock	D _C mm	D _C Inch	Shank Diameter D _S (in/mm)	Overall Length L (in/mm)	Flute Length ℓ ₁ (in/mm)	Shank Length ℓ ₂ (in/mm)	Tap Size	Fractional Wire & Letters
MDW0920	HGS5 HGS5S	●	9.2	0.362	10.0	136	76	56		
MDW0930	HGS5 HGS5S	●	9.3	0.366	10.0	136	76	56		
MDW03680	HGS5 HGS5S	●	9.35	0.368	0.391 10.0	5.35	2.99	2.205		#U
MDW0940	HGS5 HGS5S	●	9.4	0.370	10.0	136	76	56		
MDW0950	HGS5 HGS5S	●	9.5	0.374	10.0	136	76	56		
MDW03750	HGS5 HGS5S	●	9.53	0.375	0.391 10.0	5.35	3.15	2.205		3/8
MDW0960	HGS5 HGS5S	●	9.6	0.378	10.0	136	80	56		
MDW0970	HGS5 HGS5S	●	9.7	0.382	10.0	136	80	56		
MDW0980	HGS5 HGS5S	●	9.8	0.386	10.0	136	80	56		
MDW0990	HGS5 HGS5S	●	9.9	0.390	10.0	136	80	56		
MDW03906	HGS5 HGS5S	●	9.92	0.391	0.391 10.0	5.35	3.14	2.205		25/64
MDW1000	HGS5 HGS5S	●	10.0	0.394	10.0	136	80	56		
MDW1010	HGS5 HGS5S	●	10.1	0.398	11.0 12.0	149	84	61		
MDW1020	HGS5 HGS5S	●	10.2	0.402	11.0 12.0	149	84	61		
MDW1030	HGS5 HGS5S	●	10.3	0.406	11.0 12.0	149	84	61		
MDW4062	HGS5 HGS5S	●	10.32	0.406	0.438 12.0	5.87	3.31	2.402		13/32
MDW1040	HGS5 HGS5S	●	10.4	0.409	11.0 12.0	149	84	61		
MDW1050	HGS5 HGS5S	●	10.5	0.413	11.0 12.0	149	84	61		
MDW1060	HGS5 HGS5S	●	10.6	0.417	11.0 12.0	149	88	61		
MDW1070	HGS5 HGS5S	●	10.7	0.421	11.0 12.0	149	88	61		
MDW04219	HGS5 HGS5S	●	10.72	0.422	0.438 12.0	5.87	3.47	2.402		27/64
MDW1080	HGS5 HGS5S	●	10.8	0.425	11.0 12.0	149	88	61		
MDW1090	HGS5 HGS5S	●	10.9	0.429	11.0 12.0	149	88	61		
MDW1100	HGS5 HGS5S	●	11.0	0.433	11.0 12.0	149	88	61		
MDW1110	HGS5 HGS5S	●	11.1	0.437	12.0	158	92	62		
MDW04375	HGS5 HGS5S	●	11.11	0.438	0.438 12.0	5.87	3.47	2.402		7/16
MDW1120	HGS5 HGS5S	●	11.2	0.441	12.0	158	92	62		
MDW1130	HGS5 HGS5S	●	11.3	0.445	12.0	158	92	62		
MDW1140	HGS5 HGS5S	●	11.4	0.449	12.0	158	92	62		
MDW1150	HGS5 HGS5S	●	11.5	0.453	12.0	158	92	62		
MDW04531	HGS5 HGS5S	●	11.51	0.453	0.469 12.0	6.22	3.78	2.441		29/64
MDW1160	HGS5 HGS5S	●	11.6	0.457	12.0	158	96	62		
MDW1170	HGS5 HGS5S	●	11.7	0.461	12.0	158	96	62		
MDW1180	HGS5 HGS5S	●	11.8	0.465	12.0	158	96	62		
MDW1190	HGS5 HGS5S	●	11.9	0.469	12.0	158	96	62		
MDW04688	HGS5 HGS5S	●	11.91	0.469	0.469 12.0	6.22	3.78	2.441		15/32

Solid Carbide
Drills

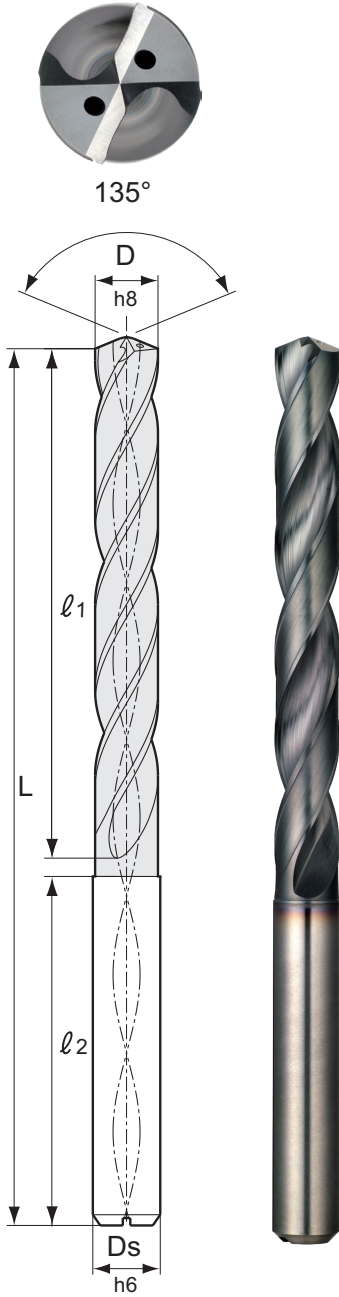
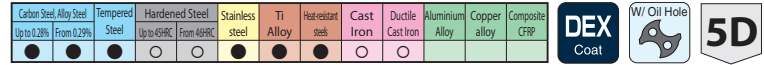


SERIES MDW-HGS5

MDW-HGS5 Series Solid Carbide Drills

Coolant Through Drills

Items labeled in purple represent drills that fit in Shrink Fit Holders



Catalog Number (inch/metric)	Type	Stock	Dc mm	Dc Inch	Shank Diameter Ds (in/mm)	Overall Length L (in/mm)	Flute Length l1 (in/mm)	Shank Length l2 (in/mm)	Tap Size	Fractional Wire & Letters
MDW1200	HGS5 HGS5S	●	12.0	0.472	12.0	158	96	63		
MDW1210	HGS5 HGS5S	●	12.1	0.476	13.0 14.0	167	100	63		
MDW1220	HGS5 HGS5S	●	12.2	0.480	13.0 14.0	167	100	63		
MDW1230	HGS5 HGS5S	●	12.3	0.484	13.0 14.0	167	100	63		
MDW04844	HGS5 HGS5S	●	12.31	0.484	0.516 14.0	6.57	3.78	2.480		31/64
MDW1240	HGS5 HGS5S	●	12.4	0.488	13.0 14.0	167	100	63		
MDW1250	HGS5 HGS5S	●	12.5	0.492	13.0 14.0	167	100	63		
MDW1260	HGS5 HGS5S	●	12.6	0.496	13.0 14.0	167	104	63		
MDW1270	HGS5 HGS5S	●	12.7	0.500	13.0 14.0	167	104	63		1/2
MDW05000	HGS5 HGS5S	●	12.7	0.500	0.516 14.0	6.57	4.09	2.480		1/2
MDW1280	HGS5 HGS5S	●	12.8	0.504	13.0 14.0	167	104	63		
MDW1283	HGS5 HGS5S	●	12.83	0.505	13.0 14.0	167	104	63		
MDW1290	HGS5 HGS5S	●	12.9	0.508	13.0 14.0	167	104	63		
MDW1300	HGS5 HGS5S	●	13.0	0.512	13.0 14.0	167	104	63		
MDW05156	HGS5 HGS5S	●	13.09	0.516	0.516 14.0	6.57	4.09	2.480		33/64
MDW1310	HGS5 HGS5S	●	13.1	0.516	14.0	176	108	64		
MDW1320	HGS5 HGS5S	●	13.2	0.520	14.0	176	108	64		
MDW1330	HGS5 HGS5S	●	13.3	0.524	14.0	176	108	64		
MDW1340	HGS5 HGS5S	●	13.4	0.528	14.0	176	108	64		
MDW05312	HGS5 HGS5S	●	13.49	0.531	0.547 14.0	6.93	4.25	2.520		17/32
MDW1350	HGS5 HGS5S	●	13.5	0.532	14.0	176	108	64		
MDW1360	HGS5 HGS5S	●	13.6	0.535	14.0	176	112	64		
MDW1370	HGS5 HGS5S	●	13.7	0.539	14.0	176	112	64		
MDW1380	HGS5 HGS5S	●	13.8	0.543	14.0	176	112	64		
MDW05469	HGS5 HGS5S	●	13.89	0.547	0.547 14.0	6.93	4.41	2.520		35/64
MDW1390	HGS5 HGS5S	●	13.9	0.547	14.0	176	112	64		
MDW1400	HGS5 HGS5S	●	14.0	0.551	14.0	176	112	64		
MDW1410	HGS5 HGS5S	●	14.1	0.555	15.0 16.0	185	116	65		
MDW1420	HGS5 HGS5S	●	14.2	0.559	15.0 16.0	185	116	65		
MDW05625	HGS5 HGS5S	●	14.29	0.563	0.594 16.0	7.28	4.57	2.559		9/16
MDW1430	HGS5 HGS5S	●	14.3	0.563	15.0 16.0	185	116	65		
MDW1440	HGS5 HGS5S	●	14.4	0.567	15.0 16.0	185	116	65		
MDW1450	HGS5 HGS5S	●	14.5	0.571	15.0 16.0	185	116	65		
MDW1460	HGS5 HGS5S	●	14.6	0.575	15.0 16.0	185	120	65		
MDW05781	HGS5 HGS5S	●	14.68	0.578	0.594 16.0	7.28	4.72	2.55	5/8-18	37/64
MDW1470	HGS5 HGS5S	●	14.7	0.579	15.0 16.0	185	120	65		



MDW-HGS5 Series Solid Carbide Coolant Through Drills

SERIES MDW-HGS5

Carbon Steel Alloy Steel Up to 0.28% From 0.29%	Tempered Steel	Hardened Steel Up to 49HRC From 48HRC	Stainless steel	Ti Alloy	Heat-resistant steel	Cast Iron	Ductile Cast Iron	Aluminium Alloy	Copper alloy	Composite CFRP	DEX Coat	W/Oil Hole	5D
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Items labeled in purple represent drills that fit in Shrink Fit Holders

Catalog Number (inch/metric)	Type	Stock	D _c mm	D _c Inch	Shank Diameter D _s (in/mm)	Overall Length L (in/mm)	Flute Length l ₁ (in/mm)	Shank Length l ₂ (in/mm)	Tap Size	Fractional Wire & Letters
MDW1480	HGS5 HGSSS	●	14.8	0.583	15.0 16.0	185	120	65		
MDW1490	HGS5 HGSSS	●	14.9	0.587	15.0 16.0	185	120	65		
MDW1500	HGS5 HGSSS	●	15.0	0.591	15.0 16.0	185	120	65		
MDW05937	HGS5 HGSSS	●	15.08	0.594	0.594 16.0	7.28	4.72	2.559		19/32
MDW1510	HGS5 HGSSS	●	15.1	0.595	16.0	194	124	66		
MDW1520	HGS5 HGSSS	●	15.2	0.598	16.0	194	124	66		
MDW1530	HGS5 HGSSS	●	15.3	0.602	16.0	194	124	66		
MDW1540	HGS5 HGSSS	●	15.4	0.606	16.0	194	124	66		
MDW06094	HGS5 HGSSS	●	15.48	0.609	0.625 16.0	7.64	4.88	2.598	11/16-12	39/64
MDW1550	HGS5 HGSSS	●	15.5	0.610	16.0	194	124	66	M18X2.5	
MDW1560	HGS5 HGSSS	●	15.6	0.614	16.0	194	128	66		
MDW1570	HGS5 HGSSS	●	15.7	0.618	16.0	194	128	66		
MDW1580	HGS5 HGSSS	●	15.8	0.622	16.0	194	128	66		
MDW06250	HGS5 HGSSS	●	15.88	0.625	0.625 16.0	7.64	5.04	2.598	11/16-16	5/8
MDW1590	HGS5 HGSSS	●	15.9	0.626	16.0	194	128	66		
MDW1600	HGS5 HGSSS	●	16.0	0.630	16.0	194	128	66		
MDW06406	HGS5 HGSSS	●	16.27	0.641	0.669	7.992	5.197	66		41/64
MDW1650	HGS5 HGSSS	★	16.5	0.650	17.0	203	132	67		
MDW06562	HGS5 HGSSS	●	16.67	0.656	0.669	7.992	5.354	67	3/4-10	21/32
MDW1700	HGS5 HGSSS	★	17.0	0.669	17.0	203	136	67		
MDW06875	HGS5 HGSSS	●	17.46	0.709	0.709	8.425	5.512	67	3/4-16	11/16
MDW1750	HGS5 HGSSS	★	17.5	0.689	17.0	214	140	74		
MDW1800	HGS5 HGSSS	★	18.0	0.709	18.0	214	144	70		
MDW1850	HGS5 HGSSS	★	18.5	0.728	18.0	221	148	73		
MDW1900	HGS5 HGSSS	★	19.0	0.748	19.0	221	152	69		
MDW1950	HGS5 HGSSS	★	19.5	0.768	19.0	230	156	74		
MDW2000	HGS5 HGSSS	★	20.0	0.787	20.0	230	160	70		

Solid Carbide
Drills

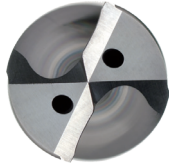


SERIES

MDW-HGS8

MDW-HGS8 Series Solid Carbide

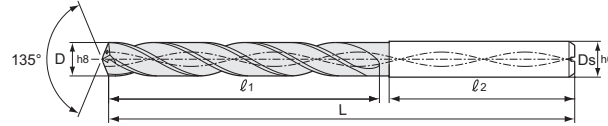
Coolant Through Drills



Carbon Steel Alloy Steel Up to 0.2% From 0.2%	Tempered Steel	Hardened Steel Up to 45RC From 45RC	Stainless steel	Ti Alloy	Heat resistant steel	Cast Iron	Ductile Cast Iron	Aluminium Alloy	Copper alloy	Composite CFRP	DEX Coat	W/ Oil Hole	8D
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h8 Manufacturing Tolerances

Tolerances of Diameters (in.)		Tolerances of Diameters (in.)		Tolerances of Diameters (in.)	
$D \leq .118$	+0 -.00055	$.236 < D \leq .394$	+0 -.00087	$.709 < D \leq .768$	+0 -.00130
$.118 < D \leq .236$	+0 -.00071	$.394 < D \leq .709$	+0 -.00106		



MDW-HGS8 8XD drill for excellent chip management and long tool life (Internal coolant)

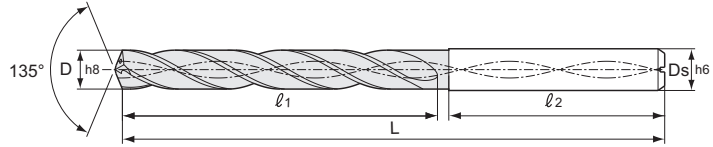
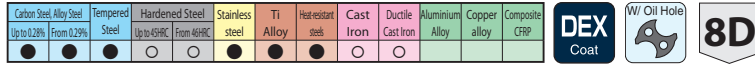
Catalog Number (inch/metric)	Stock	Fractional Wire & Letters	Diameter D (in)	Diameter D (mm)	Overall Length L (in/mm)	Flute Length l_1 (in/mm)	Shank Length l_2 (in/mm)	Shank Diameter D_s (in/mm)	Tap Size
MDW0150HGS8	●		0.0591	1.50	70.0	18.5		3.00	
MDW0200HGS8	●		0.0787	2.00	76.00	24.00	50.00	3.00	
MDW0210HGS8			0.0827	2.10	81.00	27.50	52.00	3.00	3-56
MDW0220HGS8			0.0866	2.20	81.00	27.50	52.00	3.00	
MDW0230HGS8			0.0906	2.30	81.00	27.50	52.00	3.00	
MDW00937HGS8	●	3/32	0.0937	2.38	3.1890	1.0827	2.0472	0.1250	
MDW0240HGS8			0.0945	2.40	81.00	27.50	52.00	3.00	
MDW0250HGS8	●		0.0984	2.50	81.00	27.50	52.00	3.00	
MDW0260HGS8			0.1024	2.60	81.00	33.00	48.00	3.00	
MDW0270HGS8			0.1063	2.70	81.00	33.00	48.00	3.00	6-32
MDW0280HGS8			0.1102	2.80	81.00	33.00	48.00	3.00	
MDW0290HGS8			0.1142	2.90	81.00	33.00	48.00	3.00	3.5x6
MDW0300HGS8	●		0.1181	3.00	81.00	33.00	48.00	3.00	
MDW0310HGS8			0.1220	3.10	92.00	38.50	52.00	4.00	
MDW01250HGS8	●	1/8	0.1250	3.18	3.1890	1.2992	1.8898	0.1250	
MDW0320HGS8			0.1260	3.20	92.00	38.50	52.00	4.00	
MDW0330HGS8	●		0.1299	3.30	92.00	38.50	52.00	4.00	M4x.7
MDW0340HGS8			0.1339	3.40	92.00	38.50	52.00	4.00	
MDW0350HGS8	●		0.1378	3.50	92.00	38.50	52.00	4.00	
MDW01406HGS8	●		0.1406	3.57	3.6220	1.7323	1.8898	0.1562	
MDW0360HGS8			0.1417	3.60	92.00	44.00	48.00	4.00	
MDW0370HGS8			0.1457	3.70	92.00	44.00	48.00	4.00	M4.5x.7
MDW0380HGS8	●		0.1496	3.80	92.00	44.00	48.00	4.00	
MDW0390HGS8			0.1535	3.90	92.00	44.00	48.00	4.00	
MDW01562HGS8	●	5/32	0.1562	3.97	3.6220	1.7323	1.8898	0.1562	
MDW0400HGS8	●		0.1575	4.00	92.00	44.00	48.00	4.0	
MDW01590HGS8	●	#21	0.1590	4.04	4.1339	1.9488	2.1260	0.1875	10-32
MDW0410HGS8			0.1614	4.10	105.00	49.50	54.00	5.00	
MDW0420HGS8	●		0.1654	4.20	105.00	49.50	54.00	5.00	M5x.8
MDW0430HGS8			0.1693	4.30	105.00	49.50	54.00	5.00	
MDW01719HGS8	●	11/64	0.1719	4.37	4.1339	1.9488	2.1260	0.1875	
MDW0440HGS8			0.1732	4.40	105.00	49.50	54.00	5.00	
MDW0450HGS8	●		0.1772	4.50	105.00	49.50	54.00	5.00	
MDW0460HGS8			0.1811	4.60	105.00	55.00	50.00	5.00	
MDW0470HGS8			0.1850	4.70	105.00	55.00	50.00	5.00	
MDW01875HGS8	●	3/16	0.1875	4.76	4.1339	2.1654	1.9685	0.1875	
MDW0480HGS8			0.1890	4.80	105.00	55.00	50.00	5.00	
MDW0490HGS8			0.1929	4.90	105.00	55.00	50.00	5.00	
MDW0500HGS8	●		0.1969	5.00	105.00	55.00	50.00	5.00	M6x1
MDW0510HGS8	★		0.2008	5.10	118.00	60.50	56.00	6.00	
MDW02010HGS8	●	#7	0.2010	5.11	4.6457	2.3819	2.2047	0.2344	1/4-20
MDW02031HGS8	●	13/64	0.2031	5.16	4.6457	2.3819	2.2047	0.2344	
MDW0520HGS8			0.2047	5.20	118.00	60.50	56.00	6.00	
MDW0530HGS8			0.2087	5.30	118.00	60.50	56.00	6.00	
MDW0540HGS8			0.2126	5.40	118.00	60.50	56.00	6.00	
MDW02130HGS8	●	#3	0.2130	5.41	4.6457	2.3819	2.2047	0.2344	
MDW0550HGS8	●		0.2165	5.50	118.00	60.50	56.00	6.00	
MDW02188HGS8	●	7/32	0.2188	5.56	4.6457	2.5984	2.0472	0.2344	1/4-28
MDW0560HGS8	●		0.2205	5.60	118.00	66.00	52.00	6.00	

● = USA stocked item ★ = Worldwide Warehouse item available in 10 business days
Some drills can achieve greater depths. Always check for sufficient flute length. Note: Special diameters available upon request. (continued on next page)



MDW-HGS8 Series Solid Carbide Coolant Through Drills

SERIES MDW-HGS8



(continued from previous page)

MDW-HGS8 8XD drill for excellent chip management and long tool life (Internal coolant)

Catalog Number (inch/metric)	Stock	Fractional Wire & Letters	Diameter D (in)	Diameter D (mm)	Overall Length L (in/mm)	Flute Length ℓ_1 (in/mm)	Shank Length ℓ_2 (in/mm)	Shank Diameter D_s (in/mm)	Tap Size
MDW02210HGS8	●	#2	0.2210	5.61	4.6457	2.5984	2.0472	0.2344	
MDW0570HGS8			0.2244	5.70	118.00	66.00	52.00	6.0	
MDW0580HGS8			0.2283	5.80	118.00	66.00	52.00	6.0	
MDW0590HGS8			0.2323	5.90	118.00	66.00	52.00	6.0	
MDW02344HGS8	●	15/64	0.2344	5.95	4.6457	2.5984	2.0472	0.2344	
MDW0600HGS8	●		0.2362	6.00	118.00	66.00	52.00	6.00	M7x1
MDW0610HGS8			0.2402	6.10	130.00	71.50	53.00	7.00	
MDW0620HGS8			0.2441	6.20	130.00	71.50	53.00	7.00	
MDW0630HGS8			0.2480	6.30	130.00	71.50	53.00	7.00	
MDW02500HGS8	●	1/4	0.2500	6.35	5.1181	2.8150	2.0866	0.2812	
MDW0640HGS8			0.2520	6.40	130.00	71.50	53.00	7.00	
MDW0650HGS8	●		0.2559	6.50	130.00	71.50	53.00	7.00	
MDW02570HGS8	●	#F	0.2570	6.53	5.1181	3.0315	2.0866	0.2812	5/16-18
MDW0653HGS8			0.2571	6.53	130.00	77.00	53.00	7.00	
MDW0660HGS8			0.2598	6.60	130.00	77.00	53.00	7.00	
MDW0670HGS8			0.2638	6.70	130.00	77.00	53.00	7.00	
MDW02656HGS8	●	17/64	0.2656	6.75	5.1181	3.0315	2.0866	0.2812	
MDW02660HGS8	●	#H	0.2660	6.76	5.1181	3.0315	2.0866	0.2812	
MDW0680HGS8	●		0.2677	6.80	130.00	77.00	53.00	7.00	
MDW0690HGS8			0.2717	6.90	130.00	77.00	53.00	7.00	
MDW02720HGS8	●	#I	0.2720	6.91	5.1181	3.0315	2.0866	0.2812	5/16-24
MDW0700HGS8	●		0.2756	7.00	130.00	77.00	53.00	7.00	
MDW02770HGS8	●	#J	0.2770	7.04	5.1181	3.0315	2.0866	0.2812	
MDW0710HGS8	●		0.2795	7.10	142.00	82.50	54.00	8.00	
MDW02812HGS8	●	9/32	0.2812	7.14	5.1181	3.0315	2.0866	0.2812	
MDW0720HGS8			0.2835	7.20	142.00	82.50	54.00	8.00	
MDW0730HGS8			0.2874	7.30	142.00	82.50	54.00	8.00	
MDW0740HGS8			0.2913	7.40	142.00	82.50	54.00	8.00	
MDW0750HGS8	●		0.2953	7.50	142.00	82.50	54.00	8.00	
MDW02969HGS8	●	19/64	0.2969	7.54	5.5906	3.4646	2.1260	0.3125	
MDW0760HGS8			0.2992	7.60	142.00	88.00	54.00	8.00	
MDW0770HGS8			0.3031	7.70	142.00	88.00	54.00	8.00	
MDW0780HGS8			0.3071	7.80	142.00	88.00	54.00	8.00	M9x1.25
MDW0790HGS8			0.3110	7.90	142.00	88.00	54.00	8.00	
MDW03125HGS8	●	5/16	0.3125	7.94	5.5906	3.4646	2.1260	0.3125	3/8-16
MDW0800HGS8	●		0.3150	8.00	142.00	88.00	54.00	8.00	
MDW0810HGS8			0.3189	8.10	154.00	93.50	55.00	9.00	
MDW0820HGS8	★		0.3228	8.20	154.00	93.50	55.00	9.00	
MDW03230HGS8	●	#P	0.3230	8.20	6.0630	3.6811	2.1654	0.3594	
MDW0830HGS8			0.3268	8.30	154.00	93.50	55.00	9.00	
MDW03281HGS8	●	21/64	0.3281	8.33	6.0630	3.6811	2.1654	0.3594	
MDW0840HGS8			0.3307	8.40	154.00	93.50	55.00	9.00	
MDW03320HGS8	●	#Q	0.3320	8.43	6.0630	3.6811	2.1654	0.3594	
MDW0850HGS8	●		0.3346	8.50	154.00	93.50	55.00	9.00	M10x1.5
MDW0860HGS8			0.3386	8.60	154.00	99.00	55.00	9.00	
MDW0870HGS8			0.3425	8.70	154.00	99.00	55.00	9.00	
MDW03438HGS8	●	11/32	0.3438	8.73	6.0630	3.8976	2.1654	0.3594	

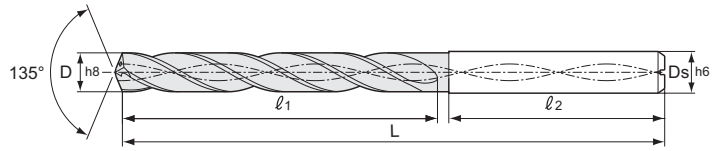
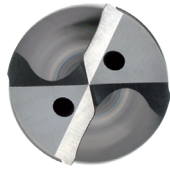
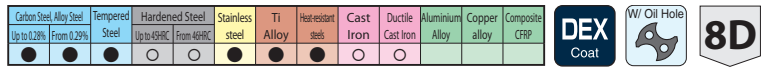
● = USA stocked item ★ = Worldwide Warehouse item available in 10 business days
Some drills can achieve greater depths. Always check for sufficient flute length. Note: Special diameters available upon request.



SERIES MDW-HGS8

MDW-HGS8 Series Solid Carbide

Coolant Through Drills



(continued from previous page)

MDW-HGS8 8XD drill for excellent chip management and long tool life (Internal coolant)

Catalog Number (inch/metric)	Stock	Fractional Wire & Letters	Diameter D (in)	Diameter D (mm)	Overall Length L (in/mm)	Flute Length l_1 (in/mm)	Shank Length l_2 (in/mm)	Shank Diameter D_s (in/mm)	Tap Size
MDW0880HGS8			0.3465	8.80	154.00	99.00	55.00	9.00	
MDW0890HGS8			0.3504	8.90	154.00	99.00	55.00	9.00	
MDW0900HGS8	●		0.3543	9.00	154.00	99.00	55.00	9.00	
MDW0910HGS8			0.3583	9.10	166.00	104.50	56.00	10.00	
MDW03594HGS8	●	23/64	0.3594	9.13	6.0630	3.8976	2.1654	0.3594	
MDW0920HGS8			0.3622	9.20	166.00	104.50	56.00	10.00	
MDW0930HGS8			0.3661	9.30	166.00	104.50	56.00	10.00	
MDW03680HGS8	●	#U	0.3680	9.35	6.5354	4.1142	2.2047	0.3906	7/16-14
MDW0940HGS8			0.3701	9.40	166.00	104.50	56.00	10.00	
MDW0950HGS8	●		0.3740	9.50	166.00	104.50	56.00	10.00	
MDW03750HGS8	●	3/8	0.3750	9.53	6.5354	4.3307	2.2047	0.3906	
MDW0960HGS8	●		0.3780	9.60	166.00	110.00	56.00	10.00	
MDW0970HGS8			0.3819	9.70	166.00	110.00	56.00	10.00	
MDW0980HGS8			0.3858	9.80	166.00	110.00	56.00	10.00	
MDW0990HGS8			0.3898	9.90	166.00	110.00	56.00	10.00	
MDW03906HGS8	●	25/64	0.3906	9.92	6.5354	4.3307	2.2047	0.3906	
MDW1000HGS8	●		0.3937	10.00	166.00	110.00	56.00	10.00	
MDW1010HGS8			0.3976	10.10	182.00	115.50	61.00	11.00	
MDW1020HGS8			0.4016	10.20	182.00	115.50	61.00	11.00	M12x1.75
MDW1030HGS8	●		0.4055	10.30	182.00	115.50	61.00	11.00	
MDW04062HGS8	●	13/32	0.4062	10.32	7.1654	4.5472	2.4016	0.4375	
MDW1040HGS8			0.4094	10.40	182.00	115.50	61.00	11.00	
MDW1050HGS8	●		0.4134	10.50	182.00	115.50	61.00	11.00	
MDW1060HGS8			0.4173	10.60	182.00	121.00	61.00	11.00	
MDW1070HGS8			0.4213	10.70	182.00	121.00	61.00	11.00	
MDW04219HGS8	●	27/64	0.4219	10.72	7.1654	4.7638	2.4016	0.4375	1/2-13
MDW1080HGS8			0.4252	10.80	182.00	121.00	61.00	11.00	
MDW1090HGS8			0.4291	10.90	182.00	121.00	61.00	11.00	
MDW1100HGS8	●		0.4331	11.00	182.00	121.00	61.00	11.00	
MDW1110HGS8			0.4370	11.10	194.00	126.50	62.00	12.00	
MDW04375HGS8	●	7/16	0.4375	11.11	7.1654	4.7638	2.4016	0.4375	
MDW1120HGS8			0.4409	11.20	194.00	126.50	62.00	12.00	
MDW1130HGS8			0.4449	11.30	194.00	126.50	62.00	12.00	
MDW1140HGS8			0.4488	11.40	194.00	126.50	62.00	12.00	
MDW1150HGS8	●		0.4528	11.50	194.00	126.50	62.00	12.00	
MDW04531HGS8	●	29/64	0.4531	11.51	7.6378	5.1969	2.4409	0.4688	1/2-20
MDW1160HGS8			0.4567	11.60	194.00	132.00	62.00	12.00	
MDW1170HGS8			0.4606	11.70	194.00	132.00	62.00	12.00	
MDW1180HGS8			0.4646	11.80	194.00	132.00	62.00	12.00	
MDW1190HGS8			0.4685	11.90	194.00	132.00	62.00	12.00	
MDW04688HGS8	●	15/32	0.4688	11.91	7.6378	5.1969	2.4409	0.4688	
MDW1200HGS8	●		0.4724	12.00	194.00	132.00	62.00	12.00	M14x2
MDW1210HGS8			0.4764	12.10	206.00	137.50	63.00	13.00	
MDW1220HGS8			0.4803	12.20	206.00	137.50	63.00	13.00	
MDW1230HGS8			0.4843	12.30	206.00	137.50	63.00	13.00	9/16-12
MDW04844HGS8	●	31/64	0.4844	12.30	8.1102	5.4134	2.4803	0.5156	
MDW1240HGS8			0.4882	12.40	206.00	137.50	63.00	13.00	

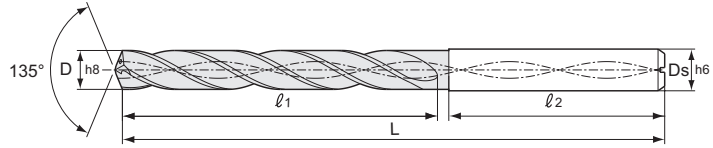
● = USA stocked item ★ = Worldwide Warehouse item available in 10 business days
Some drills can achieve greater depths. Always check for sufficient flute length. Note: Special diameters available upon request.



**MDW-HGS8 Series Solid Carbide
Coolant Through Drills**

**SERIES
MDW-HGS8**

Carbon Steel, Alloy Steel Up to 0.28%	Tempered Steel From 0.29%	Hardened Steel Up to 45HRC	Stainless Steel From 46HRC	Ti Alloy	Heat-resistant steel	Cast Iron	Ductile Cast Iron	Aluminum Alloy	Copper alloy	Composite CFRP	DEX Coat	W/Oil Hole	8D
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(continued from previous page)

MDW-HGS8 8XD drill for excellent chip management and long tool life (Internal coolant)

Catalog Number (inch/metric)	Stock	Fractional Wire & Letters	Diameter D (in)	Diameter D (mm)	Overall Length L (in/mm)	Flute Length l_1 (in/mm)	Shank Length l_2 (in/mm)	Shank Diameter D_s (in/mm)	Tap Size
MDW1250HGS8	●		0.4921	12.50	206.00	137.50	63.00	13.00	
MDW1260HGS8			0.4961	12.60	206.00	143.00	63.00	13.00	
MDW1270HGS8		1/2	0.5000	12.70	206.00	143.00	63.00	13.00	
MDW05000HGS8	●	1/2	0.5000	12.70	8.1102	5.6299	2.4803	0.5156	
MDW1280HGS8			0.5039	12.80	206.00	143.00	63.00	13.00	
MDW1283HGS8			0.5051	12.83	206.00	143.00	63.00	13.00	
MDW1290HGS8			0.5079	12.90	206.00	143.00	63.00	13.00	
MDW1300HGS8	●		0.5118	13.00	206.00	143.00	63.00	13.00	
MDW05156HGS8	●	33/64	0.5156	13.10	8.1102	5.6299	2.4803	0.5156	9/19-18
MDW1310HGS8			0.5157	13.10	218.00	148.50	64.00	14.00	
MDW1320HGS8			0.5197	13.20	218.00	148.50	64.00	14.00	
MDW1330HGS8			0.5236	13.30	218.00	148.50	64.00	14.00	
MDW1340HGS8			0.5276	13.40	218.00	148.50	64.00	14.00	
MDW05312HGS8	●	17/32	0.5312	13.49	8.5827	5.8465	2.5197	0.5469	5/8-11
MDW1350HGS8	●		0.5315	13.50	218.00	148.50	64.00	14.00	
MDW1360HGS8			0.5354	13.60	218.00	154.00	64.00	14.00	
MDW1370HGS8			0.5394	13.70	218.00	154.00	64.00	14.00	
MDW1380HGS8			0.5433	13.80	218.00	154.00	64.00	14.00	
MDW05469HGS8	●	35/64	0.5469	13.89	8.5827	6.0630	2.5197	0.5469	M16x2
MDW1390HGS8			0.5472	13.90	218.00	154.00	64.00	14.00	
MDW1400HGS8	●		0.5512	14.00	218.00	154.00	64.00	14.00	
MDW1410HGS8			0.5551	14.10	230.00	159.50	65.00	15.00	
MDW1420HGS8			0.5591	14.20	230.00	159.50	65.00	15.00	
MDW05625HGS8	●	9/16	0.5625	14.29	9.0551	6.2795	2.5591	0.5937	
MDW1430HGS8			0.5630	14.30	230.00	159.50	65.00	15.00	
MDW1440HGS8			0.5669	14.40	230.00	159.50	65.00	15.00	
MDW1450HGS8	●		0.5709	14.50	230.00	159.50	65.00	15.00	
MDW1460HGS8			0.5748	14.60	230.00	165.00	65.00	15.00	
MDW05781HGS8	●	37/64	0.5781	14.68	9.0551	6.4961	2.5591	0.5937	5/8-18
MDW1470HGS8			0.5787	14.70	230.00	165.00	65.00	15.00	
MDW1480HGS8			0.5827	14.80	230.00	165.00	65.00	15.00	
MDW1490HGS8			0.5866	14.90	230.00	165.00	65.00	15.00	
MDW1500HGS8	●		0.5906	15.00	230.00	165.00	65.00	15.00	
MDW05937HGS8	●	19/32	0.5937	15.08	9.0551	6.4961	2.5591	0.5937	
MDW1510HGS8			0.5945	15.10	242.00	170.50	66.00	16.00	
MDW1520HGS8			0.5984	15.20	242.00	170.50	66.00	16.00	
MDW1530HGS8			0.6024	15.30	242.00	170.50	66.00	16.00	
MDW1540HGS8			0.6063	15.40	242.00	170.50	66.00	16.00	
MDW06094HGS8	●	39/64	0.6094	15.48	9.5276	6.7126	2.5984	0.6250	11/16-12
MDW1550HGS8	●		0.6102	15.50	242.00	170.50	66.00	16.00	M18x2.5
MDW1560HGS8			0.6142	15.60	242.00	176.00	66.00	16.00	
MDW1570HGS8			0.6181	15.70	242.00	176.00	66.00	16.00	
MDW1580HGS8			0.6220	15.80	242.00	176.00	66.00	16.00	
MDW06250HGS8	●	5/8	0.6250	15.88	9.5276	6.9291	2.5984	0.6250	11/16-16
MDW1590HGS8			0.6260	15.90	242.00	176.00	66.00	16.00	
MDW1600HGS8	●		0.6299	16.00	242.00	176.00	66.00	16.00	

●=USA stocked item ★ = Worldwide Warehouse item available in 10 business days
Some drills can achieve greater depths. Always check for sufficient flute length. Note: Special diameters available upon request.

Solid Carbide Drills



Recommended Parameters for MDW GS Series

Recommended Speeds & Feeds

MDW		Work Material	Hardness HB	Speed = SFM Feed = IPR	Drill Diameter (inch)			
					ø < - ø0.196	ø0.197 - ø0.394	ø0.395 - ø0.630	
GS 2D 4D	P	Low Carbon Steel	<190	SFM	110 - 250	160 - 275	210 - 360	
				IPR	.004 - .008	.006 - .010	.008 - .012	
			190 ~ 250	SFM	110 - 250	160 - 275	210 - 360	
				IPR	.004 - .008	.006 - .010	.008 - .012	
			250 ~ 300	SFM	100 - 225	140 - 250	190 - 325	
				IPR	.003 - .006	.004 - .008	.006 - .010	
		Medium Carbon Steel	180 ~ 275	SFM	110 - 250	160 - 275	210 - 360	
				IPR	.004 - .008	.006 - .010	.008 - .012	
			275 ~ 350	SFM	100 - 225	140 - 250	190 - 325	
				IPR	.003 - .006	.004 - .008	.006 - .010	
			Alloy Steel	200	SFM	110 - 250	160 - 275	210 - 360
					IPR	.004 - .008	.006 - .010	.008 - .012
	350	SFM		80 - 210	115 - 220	115 - 250		
		IPR		.003 - .006	.004 - .008	.006 - .010		
	M	300 Austenitic Stainless Steel	SFM	50 - 115	60 - 160	80 - 210		
			IPR	.002 - .006	.003 - .008	.004 - .010		
		400 Martensitic Stainless Steel	SFM	60 - 120	75 - 180	90 - 225		
			IPR	.002 - .006	.003 - .008	.006 - .010		
	K	Cast Iron	SFM	115 - 300	195 - 390	250 - 415		
			IPR	.006 - .010	.006 - .014	.006 - .014		
		Ductile Iron	SFM	115 - 185	160 - 300	210 - 375		
			IPR	.006 - .010	.006 - .014	.006 - .014		
	H	Hardened Steel	45-60 Rc	SFM	40 - 60	40 - 80	50 - 100	
				IPR	.002 - .004	.003 - .006	.004 - .008	
S	Titanium Alloy Ti-6Al-4V		SFM	40 - 80	40 - 100	50 - 110		
			IPR	.003 - .004	.003 - .005	.003 - .006		
	Exotics - Inconel, Monel		SFM	30 - 60	30 - 60	40 - 80		
			IPR	.002 - .003	.003 - .005	.003 - .006		
N	Aluminum alloy		SFM	300 - 700	400 - 800	400 - 800		
			IPR	.003 - .006	.004 - .008	.006 - .012		
	Copper Alloy		SFM	300 - 700	400 - 800	400 - 800		
			IPR	.003 - .006	.004 - .008	.006 - .010		

Solid Carbide Drills



MDW		Work Material	Hardness HB	Speed = SFM Feed = IPR	Drill Diameter (inch)			
					$\varnothing < - \varnothing 0.196$	$\varnothing 0.197 - \varnothing 0.394$	$\varnothing 0.395 - \varnothing 0.630$	
HGS 3D 5D 8D	P	Low Carbon Steel	<190	SFM	300 - 475	400 - 550	450 - 650	
				IPR	.004 - .008	.006 - .010	.008 - .014	
			190 ~ 250	SFM	225 - 425	265 - 530	425 - 625	
				IPR	.004 - .008	.006 - .010	.008 - .014	
			250 ~ 300	SFM	175 - 375	225 - 495	250 - 525	
				IPR	.003 - .006	.004 - .008	.006 - .012	
		Medium Carbon Steel	180 ~ 275	SFM	225 - 425	265 - 530	350 - 575	
				IPR	.004 - .008	.006 - .010	.008 - .014	
			275 ~ 350	SFM	175 - 375	225 - 495	305 - 525	
				IPR	.003 - .006	.004 - .008	.006 - .012	
			Alloy Steel	200	SFM	190 - 380	225 - 475	275 - 525
					IPR	.003 - .008	.006 - .010	.008 - .014
	350	SFM		125 - 300	155 - 325	155 - 350		
		IPR		.003 - .006	.004 - .008	.006 - .010		
	M	300 Austenitic Stainless Steel	SFM	120 - 225	150 - 325	150 - 325		
			IPR	.002 - .006	.004 - .010	.006 - .012		
		400 Martensitic Stainless Steel	SFM	120 - 250	175 - 350	175 - 350		
			IPR	.002 - .006	.004 - .010	.006 - .012		
	K	Cast Iron	SFM	150 - 380	250 - 475	275 - 530		
			IPR	.006 - .010	.006 - .014	.006 - .014		
		Ductile Iron	SFM	150 - 350	225 - 450	250 - 500		
			IPR	.006 - .010	.006 - .014	.006 - .014		
	H	Hardened Steel	45-60 Rc	SFM	60 - 190	80 - 225	80 - 225	
			IPR	.002 - .004	.003 - .006	.004 - .008		
S	Titanium Alloy Ti-6Al-4V	SFM	65 - 130	80 - 130	80 - 160			
		IPR	.003 - .004	.003 - .005	.003 - .006			
	Exotics - Inconel, Monel	SFM	40 - 85	40 - 100	50 - 120			
		IPR	.002 - .003	.003 - .005	.003 - .006			
N	Aluminum alloy	SFM	500 - 800	600 - 1000	600 - 1000			
		IPR	.003 - .006	.004 - .008	.006 - .012			
	Copper Alloy	SFM	400 - 800	500 - 800	500 - 800			
		IPR	.003 - .006	.004 - .008	.006 - .010			

Solid Carbide Drills

