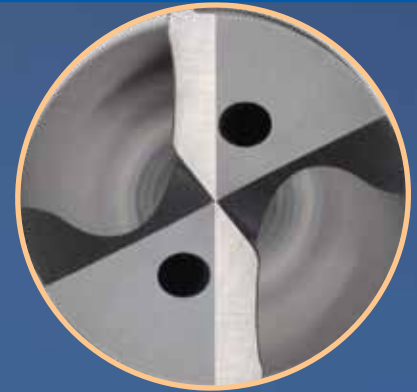


Solid Carbide GS Drill Series

**Additional large diameters
and shank sizes
NOW AVAILABLE!
(see product expansion)**



MDW-GS Series Solid Carbide Drills



GS Series

GS Series Solid Carbide Drills.

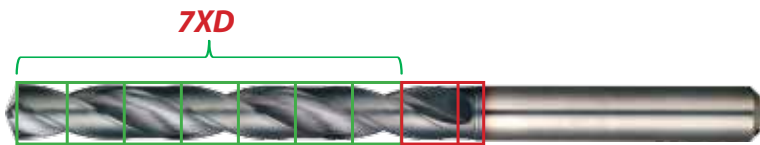


Longer flute lengths for deeper hole capability and more material available for regrinding.



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*

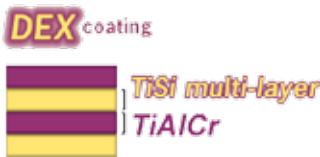


* Not all drills can achieve this depth and some drills may have even deeper capability. *Always check for sufficient flute length.*

■ 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
- **Additional Shank Sizes**
Even mm shank sizes to accommodate shrink fit holders or common collet sizing

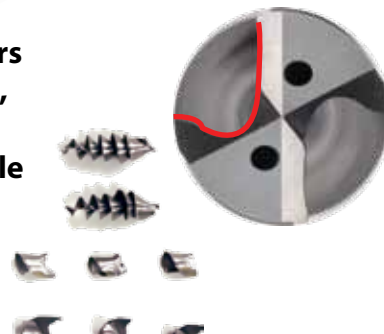
Newly developed PVD DEX coating provides improved heat and wear resistance at increased speeds.



Unique thinning design promotes stable drilling performance.



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



■ Recommended Cutting Conditions

Drill Dia. (inch)		Steels <Hb200	Steels Hb200-300	Alloy Steels >Hb300	Prehard Steels HRC45	Die Steels (Annealed)	Stainless Steels*	Ductile Cast Iron	Gray Cast Iron	Titanium Alloy Ti-6Al-4V	Inconel, Monel, etc.
< .196	v	290 - 460	190 - 380	155 - 305	75 - 190	115 - 215	115 - 225	150 - 380	305 - 455	75 - 150	40 - 85
	f	.006 - .010	.006 - .010	.004 - .008	.003 - .004	.003 - .006	.004 - .008	.006 - .010	.006 - .012	.003 - .004	.002 - .003
.197 - .394	v	415 - 550	265 - 530	155 - 305	115 - 225	185 - 275	190 - 325	305 - 540	380 - 540	90 - 150	40 - 100
	f	.008 - .014	.008 - .014	.004 - .010	.004 - .006	.004 - .008	.004 - .010	.008 - .014	.008 - .014	.003 - .005	.003 - .004
.395 - .630	v	495 - 630	305 - 570	155 - 380	115 - 225	185 - 275	190 - 355	325 - 460	460 - 630	90 - 150	40 - 115
	f	.010 - .014	.010 - .014	.006 - .012	.005 - .008	.005 - .009	.006 - .012	.010 - .014	.010 - .016	.004 - .006	.003 - .006

*For difficult-to-machine stainless steels, (316, 302, 304, 17-4ph, etc.) adjust speeds & feeds accordingly

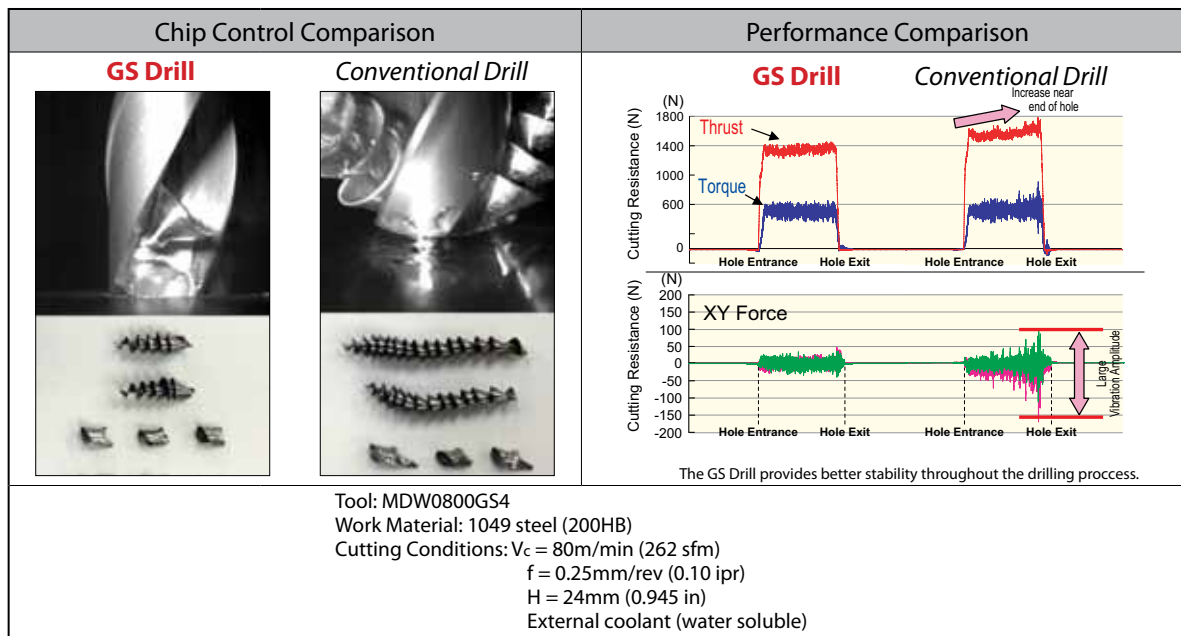
HGS Series Solid Carbide Drills



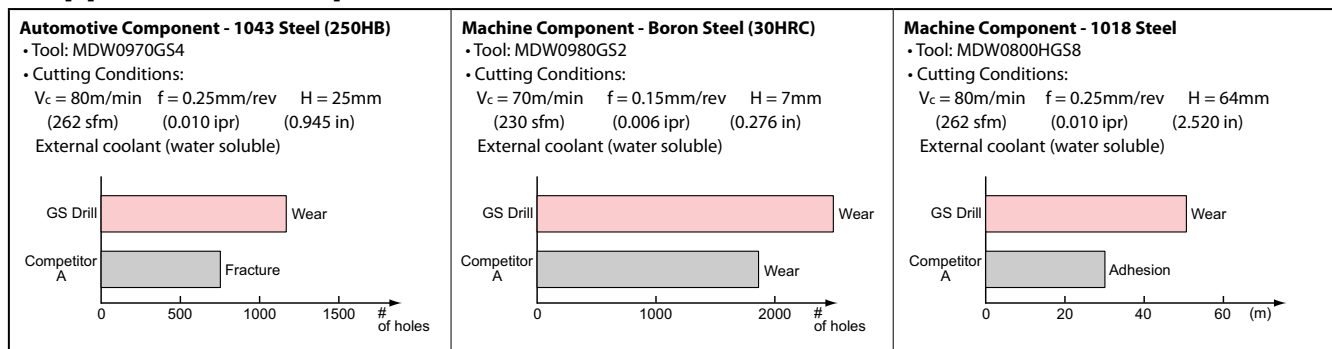
■ Cutting Materials



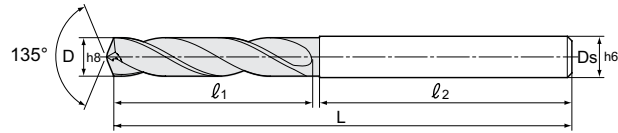
■ Performance



■ Application Examples



MDW-GS2



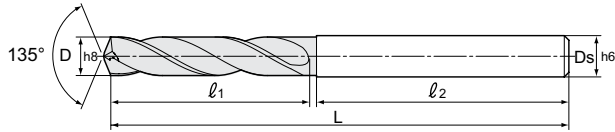
MDW-GS2 2XD drill for excellent chip management and long tool life (External coolant)

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.

MDW-GS2



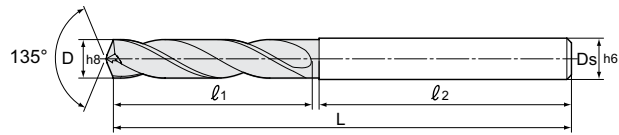
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MDW-GS2 2XD drill for excellent chip management and long tool life (External coolant)

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



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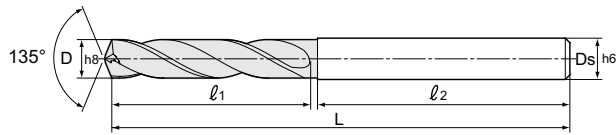
MDW-GS2 2XD drill for excellent chip management and long tool life (External coolant)

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.

MDW-GS2



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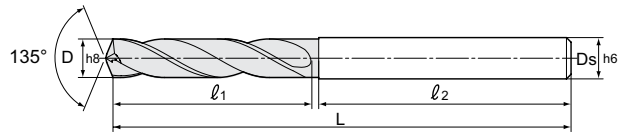
MDW-GS2 2XD drill for excellent chip management and long tool life (External coolant)

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 Ds (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.

MDW-GS2



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

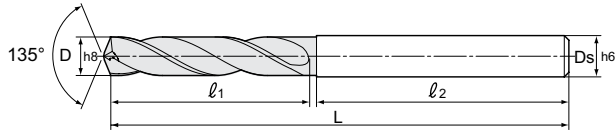
Catalog Number (inch/metric)	Stock	Fractional Wire & Letters	Diameter D (in)	Diameter D (mm)	Overall Length L (in/mm)	Flute Length l_1 (in/mm)	Shank Length l_2 (in/mm)	Shank Diameter D_s (in/mm)	Tap Size
MDW1410GS2	●		0.5551	14.10	108.0	52.0	55.0	15.0	
MDW1420GS2	●		0.5591	14.20	108.0	52.0	55.0	15.0	
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

MDW-GS4



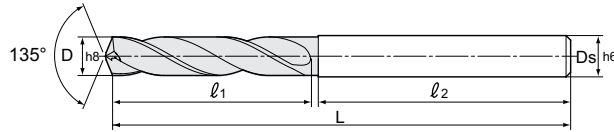
MDW-GS4 4XD drill for excellent chip management and long tool life (External coolant)

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



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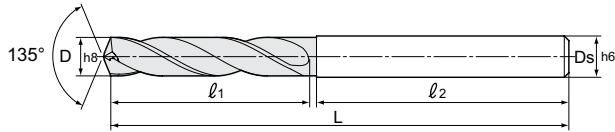
MDW-GS4 4XD drill for excellent chip management and long tool life (External coolant)

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
MDW02656GS4	●	17/64	0.2656	6.75	3.2677	1.6929	1.5748	0.2812	
MDW02660GS4	●	#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.

MDW-GS4



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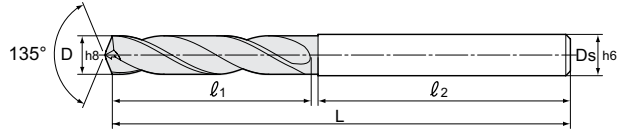
MDW-GS4 4XD drill for excellent chip management and long tool life (External coolant)

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.

MDW-GS4



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

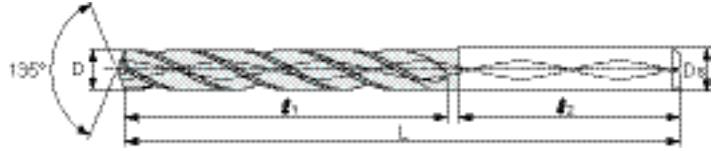
Catalog Number (inch/metric)	Stock	Fractional Wire & Letters	Diameter D (in)	Diameter D (mm)	Overall Length L (in/mm)	Flute Length l_1 (in/mm)	Shank Length l_2 (in/mm)	Shank Diameter D_s (in/mm)	Tap Size
MDW05312GS4	●	17/32	0.5312	13.49	5.7874	3.3071	2.4016	0.5469	5/8-11
MDW1350GS4	●		0.5315	13.50	147.0	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

MDW-HGS3 (S)



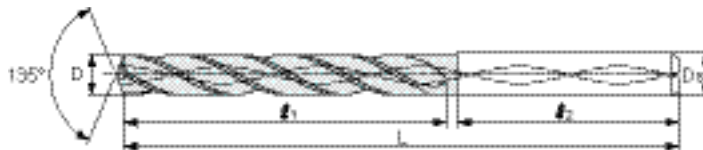
MDW-HGS3 3XD drill for excellent chip management and long tool life (Internal coolant)

Catalog Number (inch/metric)	Stock	Fractional Wire & Letters	Diameter	Diameter D (mm)	Shank Diameter Ds (in/mm)	HGS3S	HGS3S Shank Diameter Ds	Overall Length L (in/mm)	Flute Length ℓ_1 (in/mm)	Shank Length ℓ_2 (in/mm)	Tap Size
MDW0150HGS3	●		0.059	1.50	3.0			63.0	10.0	50.0	
MDW0160HGS3	●		0.063	1.60	3.0			63.0	12.0		M2x.4
MDW0170HGS3	●		0.067	1.70	3.0			63.0	12.0		
MDW0180HGS3	●		0.071	1.80	3.0			63.0	12.0		
MDW0190HGS3	●		0.075	1.90	3.0			63.0	12.0		
MDW0200HGS3	●		0.079	2.00	3.0			63.0	12.5	48.0	
MDW0210HGS3	●		0.083	2.10	3.0			68.0	15.0	51.0	3-56
MDW0220HGS3	●		0.087	2.20	3.0			68.0	15.0	51.0	
MDW0230HGS3	●		0.091	2.30	3.0			68.0	15.0	51.0	
MDW00937HGS3	●	3/32	0.094	2.38	0.125	●	3.0	2.677	0.689	1.929	
MDW0240HGS3	●		0.095	2.40	3.0			68.0	15.0	51.0	
MDW0250HGS3	●		0.098	2.50	3.0			68.0	15.0	51.0	
MDW0260HGS3	●		0.102	2.60	3.0			68.0	17.5	49.0	
MDW0270HGS3	●		0.106	2.70	3.0			68.0	17.5	49.0	6-32
MDW01094HGS3	●	7/64	0.109	2.78	0.125	●	3.0	2.677	0.689	1.929	
MDW0280HGS3	●		0.110	2.80	3.0			68.0	17.5	49.0	
MDW0290HGS3	●		0.114	2.90	3.0			68.0	17.5	49.0	3.5x.6
MDW0300HGS3	●		0.118	3.00	3.0	●	6.0	68.0	17.5	49.0	
MDW0310HGS3	●		0.122	3.10	4.0	●	6.0	72.0	20.0	50.0	
MDW01250HGS3	●	1/8	0.125	3.18	0.125	●	6.0	2.677	0.689	1.929	
MDW0320HGS3	●		0.126	3.20	4.0	●	6.0	72.0	20.0	50.0	
MDW0330HGS3	●		0.130	3.30	4.0	●	6.0	72.0	20.0	50.0	M4x.7
MDW0340HGS3	●		0.134	3.40	4.0	●	6.0	72.0	20.0	50.0	
MDW0350HGS3	●		0.138	3.50	4.0	●	6.0	72.0	20.0	50.0	
MDW0360HGS3	●		0.142	3.60	4.0	●	6.0	72.0	22.5	48.0	
MDW0370HGS3	●		0.146	3.70	4.0	●	6.0	72.0	22.5	48.0	M4.5x.7
MDW0380HGS3	●		0.150	3.80	4.0	●	6.0	72.0	22.5	48.0	
MDW0390HGS3	●		0.154	3.90	4.0	●	6.0	72.0	22.5	48.0	
MDW01562HGS3	●	5/32	0.156	3.97	0.156	●	6.0	2.835	0.886	1.890	
MDW0400HGS3	●		0.158	4.00	4.0	●	6.0	72.0	22.5	48.0	
MDW01590HGS3	●	#21	0.159	4.04	0.188	●	6.0	3.150	0.984	2.087	10-32
MDW0410HGS3	●		0.161	4.10	5.0	●	6.0	80.0	25.0	53.0	
MDW0420HGS3	●		0.165	4.20	5.0	●	6.0	80.0	25.0	53.0	M5x.8
MDW0430HGS3	●		0.169	4.30	5.0	●	6.0	80.0	25.0	53.0	
MDW01719HGS3	●	11/64	0.172	4.37	0.188	●	6.0	3.1	0.984	2.087	
MDW0440HGS3	●		0.173	4.40	5.0	●	6.0	80.0	25.0	53.0	
MDW0450HGS3	●		0.177	4.50	5.0	●	6.0	80.0	25.0	53.0	
MDW0460HGS3	●		0.181	4.60	5.0	●	6.0	80.0	27.5	51.0	
MDW0470HGS3	●		0.185	4.70	5.0	●	6.0	80.0	27.5	51.0	
MDW01875HGS3	●	3/16	0.188	4.76	0.188	●	6.0	3.1	1.083	2.008	
MDW0480HGS3	●		0.189	4.80	5.0	●	6.0	80.0	27.5	51.0	
MDW0490HGS3	●		0.193	4.90	5.0	●	6.0	80.0	27.5	51.0	
MDW0500HGS3	●		0.197	5.00	5.0	●	6.0	80.0	27.5	51.0	M6x1
MDW0510HGS3	●		0.201	5.10	6.0			82.0	27.5	53.0	
MDW02010HGS3	●	#7	0.201	5.11	0.234	●	6.0	3.228	1.083	2.087	1/4-2020
MDW02031HGS3	●	13/64	0.203	5.16	0.234	●	6.0	3.228	1.083	2.087	
MDW0520HGS3	●		0.205	5.20	6.0			82.0	27.5	53.0	
MDW0530HGS3	●		0.209	5.30	6.0			82.0	27.5	53.0	
MDW0540HGS3	●		0.213	5.40	6.0			82.0	27.5	53.0	
MDW02130HGS3	●	#3	0.213	5.41	0.234	●	6.0	3.228	1.083	2.087	
MDW0550HGS3	●		0.217	5.50	6.0			82.0	27.5	53.0	
MDW02188HGS3	●	7/32	0.219	5.56	0.234	●	6.0	3.228	1.181	2.047	1/4-2028

● = 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.

● = Items labeled in purple represent Shrink Fit Shank Drills

MDW-HGS3 (S)



MDW-HGS3 3XD drill for excellent chip management and long tool life (Internal coolant)

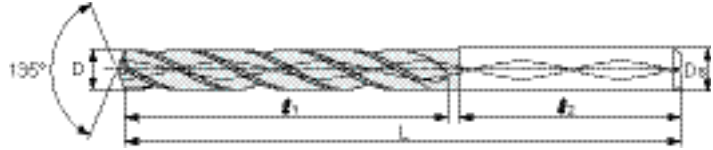
Catalog Number (inch/metric)	Stock	Fractional Wire & Letters	Diameter	Diameter D (mm)	Shank Diameter Ds (in/mm)	HGS3S	HGS3S Shank Diameter Ds	Overall Length L (in/mm)	Flute Length ℓ1 (in/mm)	Shank Length ℓ2 (in/mm)	Tap Size
MDW0560HGS3	●		0.221	5.6	6.0			82	30	52	
MDW02210HGS3	●	#2	0.221	5.61	0.234	●	6.0	3.228	1.181	2.047	
MDW0570HGS3	●		0.224	5.7	6.0			82	30	52	
MDW0580HGS3	●		0.228	5.8	6.0			82	30	52	
MDW0590HGS3	●		0.232	5.9	6.0			82	30	52	
MDW02344HGS3	●	15/64	0.234	5.95	0.234	●	6.0	3.228	1.181	2.047	
MDW0600HGS3	●		0.236	6	6.0			82	30	52	M7x1
MDW0610HGS3	●		0.240	6.1	7.0	●	8.0	88	32.5	53	
MDW02420HGS3	●	#C	0.242	6.15	0.281	●	8.0	3.465	1.280	2.087	
MDW0620HGS3	●		0.244	6.2	7.0	●	8.0	88	32.5	53	
MDW0630HGS3	●		0.248	6.3	7.0	●	8.0	88	32.5	53	
MDW02500HGS3	●	1/4	0.25	6.35	0.281	●	8.0	3.465	1.280	2.087	
MDW0640HGS3	●		0.252	6.4	7.0	●	8.0	88	32.5	53	
MDW0650HGS3	●		0.256	6.5	7.0	●	8.0	88	32.5	53	
MDW02570HGS3	●	#F	0.257	9.68	0.281	●	8.0	3.465	1.378	2.087	5/16-18
MDW0653HGS3	●		0.257	6.53	7.0	●	8.0	88	35	53	
MDW0660HGS3	●		0.260	6.6	7.0	●	8.0	88	35	53	
MDW0670HGS3	●		0.264	6.7	7.0	●	8.0	88	35	53	
MDW02656HGS3	●	17/64	0.266	6.75	0.281	●	8.0	3.465	1.378	2.087	
MDW02660HGS3	●		0.266	6.76	0.281	●	8.0	3.465	1.378	2.087	
MDW0680HGS3	●		0.268	6.8	7.0	●	8.0	88	35	53	
MDW0690HGS3	●		0.272	6.9	7.0	●	8.0	88	35	53	
MDW02720HGS3	●	#I	0.272	6.91	0.281	●	8.0	3.465	1.378	2.087	5/16-24
MDW0700HGS3	●		0.276	7	7.0	●	8.0	88	35	53	
MDW02770HGS3	●	#J	0.277	7.04	0.281	●	8.0	3.465	1.378	2.087	
MDW0710HGS3	●		0.280	7.1	8.0			94	37.5	54	
MDW02812HGS3	●	9/32	0.281	7.14	0.281	●	8.0	3.465	1.378	2.087	
MDW0720HGS3	●		0.284	7.2	8.0			94	37.5	54	
MDW0730HGS3	●		0.287	7.3	8.0			94	37.5	54	
MDW0740HGS3	●		0.291	7.4	8.0			94	37.5	54	
MDW0750HGS3	●		0.295	7.5	8.0			94	37.5	54	
MDW02969HGS3	●	19/64	0.297	7.54	0.313	●	8.0	3.701	1.575	2.126	
MDW0760HGS3	●		0.299	7.6	8.0			94	40	54	
MDW0770HGS3	●		0.303	7.7	8.0			94	40	54	
MDW0780HGS3	●		0.307	7.8	8.0			94	40	54	M9x1.25
MDW0790HGS3	●		0.311	7.9	8.0			94	40	54	
MDW03125HGS3	●	5/16	0.313	7.94	0.313	●	8.0	3.701	1.575	2.126	3/8-16
MDW0800HGS3	●		0.315	8	8.0			94	40	54	
MDW0810HGS3	●		0.319	8.1	9.0	●	10.0	100	42.5	55	
MDW0820HGS3	●		0.323	8.2	9.0	●	10.0	100	42.5	55	
MDW03230HGS3	●	#P	0.323	8.204	0.359	●	10.0	3.937	1.673	2.165	
MDW0830HGS3	●		0.327	8.3	9.0	●	10.0	100	42.5	55	
MDW03281HGS3	●	21/64	0.328	8.33	0.359	●	10.0	3.937	1.673	2.165	
MDW0840HGS3	●		0.331	8.4	9.0	●	10.0	100	42.5	55	
MDW03320HGS3	●	#Q	0.332	8.43	0.359	●	10.0	3.937	1.673	2.165	
MDW0850HGS3	●		0.335	8.5	9.0	●	10.0	100	42.5	55	M10x1.5
MDW0860HGS3	●		0.339	8.6	9.0	●	10.0	100	45	55	

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MDW-HGS3 (S)



MDW-HGS3 3XD drill for excellent chip management and long tool life (Internal coolant)

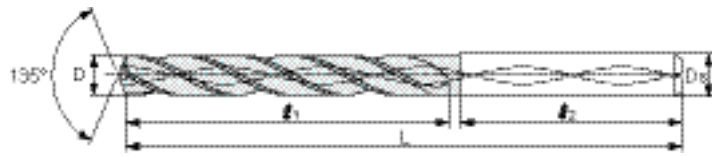
Catalog Number (inch/metric)	Stock	Fractional Wire & Letters	Diameter	Diameter D (mm)	Shank Diameter Ds (in/mm)	HGS3S	HGS3S Shank Diameter Ds	Overall Length L (in/mm)	Flute Length ℓ1 (in/mm)	Shank Length ℓ2 (in/mm)	Tap Size
MDW0870HGS3	●		0.343	8.7	9.0	●	10.0	100	45	55	
MDW03438HGS3	●	11/32	0.344	8.73	0.359	●	10.0	3.937	1.772	2.165	
MDW0880HGS3	●		0.347	8.8	9.0	●	10.0	100	45	55	
MDW0890HGS3	●		0.350	8.9	9.0	●	10.0	100	45	55	
MDW0900HGS3	●		0.354	9	9.0	●	10.0	100	45	55	
MDW0910HGS3	●		0.358	9.1	10.0	●	10.0	106	47.5	56	
MDW03594HGS3	●	23/64	0.359	9.13	0.359	●	10.0	3.937	1.772	2.165	
MDW0920HGS3	●		0.362	9.2	10.0	●	10.0	106	47.5	56	
MDW0930HGS3	●		0.366	9.3	10.0	●	10.0	106	47.5	56	
MDW03680HGS3	●	#U	0.368	9.35	0.391	●	10.0	4.173	1.870	2.205	7/16-14
MDW0940HGS3	●		0.370	9.4	10.0	●	10.0	106	47.5	56	
MDW0950HGS3	●		0.374	9.5	10.0	●	10.0	106	47.5	56	
MDW03750HGS3	●	3/8	0.375	9.53	0.391	●	10.0	4.173	1.969	2.205	
MDW0960HGS3	●		0.378	9.6	10.0	●	10.0	106	50	56	
MDW0970HGS3	●		0.382	9.7	10.0	●	10.0	106	50	56	
MDW0980HGS3	●		0.386	9.8	10.0	●	10.0	106	50	56	
MDW0990HGS3	●		0.390	9.9	10.0	●	10.0	106	50	56	
MDW03906HGS3	●	25/64	0.391	9.92	0.391	●	10.0	4.173	1.969	2.205	7/16-20
MDW1000HGS3	●		0.394	10	10.0	●	10.0	106	50	56	
MDW1010HGS3	●		0.398	10.1	11.0	●	12.0	116	52.5	61	
MDW1020HGS3	●		0.402	10.2	11.0	●	12.0	116	52.5	61	M12x1.75
MDW1030HGS3	●		0.406	10.3	11.0	●	12.0	116	52.5	61	
MDW04062HGS3	●	13/32	0.406	10.32	0.438	●	12.0	4.567	2.067	2.402	
MDW1040HGS3	●		0.409	10.4	11.0	●	12.0	116	52.5	61	
MDW1050HGS3	●		0.413	10.5	11.0	●	12.0	116	52.5	61	
MDW1060HGS3	●		0.417	10.6	11.0	●	12.0	116	55	61	
MDW1070HGS3	●		0.421	10.7	11.0	●	12.0	116	55	61	
MDW04219HGS3	●	27/64	0.422	10.72	0.438	●	12.0	4.567	2.165	2.402	1/2-13
MDW1080HGS3	●		0.425	10.8	11.0	●	12.0	116	55	61	
MDW1090HGS3	●		0.429	10.9	11.0	●	12.0	116	55	61	
MDW1100HGS3	●		0.433	11	11.0	●	12.0	116	55	61	
MDW1110HGS3	●		0.437	11.1	12.0	●	12.0	122	57.5	62	
MDW04375HGS3	●	7/16	0.438	11.11	0.438	●	12.0	4.567	2.165	2.402	
MDW1120HGS3	●		0.441	11.2	12.0	●	12.0	122	57.5	62	
MDW1130HGS3	●		0.445	11.3	12.0	●	12.0	122	57.5	62	
MDW1140HGS3	●		0.449	11.4	12.0	●	12.0	122	57.5	62	
MDW1150HGS3	●		0.453	11.5	12.0	●	12.0	122	57.5	62	
MDW04531HGS3	●	29/64	0.453	11.51	0.469	●	12.0	4.803	2.362	2.441	1/2-20
MDW1160HGS3	●		0.457	11.6	12.0	●	12.0	122	60	62	
MDW1170HGS3	●		0.461	11.7	12.0	●	12.0	122	60	62	
MDW1180HGS3	●		0.465	11.8	12.0	●	12.0	122	60	62	
MDW1190HGS3	●		0.469	11.9	12.0	●	12.0	122	60	62	
MDW04688HGS3	●	15/32	0.469	11.91	0.469	●	12.0	4.803	2.362	2.441	
MDW1200HGS3	●		0.472	12	12.0	●	12.0	122	60	62	M14x2
MDW1210HGS3	●		0.476	12.1	13.0	●	14.0	128	62.5	63	
MDW1220HGS3	●		0.480	12.2	13.0	●	14.0	128	62.5	63	
MDW1230HGS3	●		0.484	12.3	13.0	●	14.0	128	62.5	63	9/16-12

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● = Items labeled in purple represent Shrink Fit Shank Drills

MDW-HGS3 (S)



MDW-HGS3 3XD drill for excellent chip management and long tool life (Internal coolant)

Catalog Number (inch/metric)	Stock	Fractional Wire & Letters	Diameter	Diameter D (mm)	Shank Diameter Ds (in/mm)	HGS3S	HGS3S Shank Diameter Ds	Overall Length L (in/mm)	Flute Length L1 (in/mm)	Shank Length L2 (in/mm)	Tap Size
MDW04844HGS3	●	31/64	0.484	12.304	0.516	●	14.0	5.039	2.461	2.480	
MDW1240HGS3	●		0.488	12.4	13.0	●	14.0	128	62.5	63	
MDW1250HGS3	●		0.492	12.5	13.0	●	14.0	128	62.5	63	
MDW1260HGS3	●		0.496	12.6	13.0	●	14.0	128	65	63	
MDW1270HGS3	●	1/2	0.5	12.7	13.0	●	14.0	128	65	63	
MDW05000HGS3	●	1/2	0.5	12.7	0.516	●	14.0	5.039	2.559	2.480	
MDW1280HGS3	●		0.504	12.8	13.0	●	14.0	128	65	63	
MDW1290HGS3	●		0.508	12.9	13.0	●	14.0	128	65	63	
MDW1300HGS3	●		0.512	13	13.0	●	14.0	128	65	63	
MDW05156HGS3	●	33/64	0.516	13.09	0.516	●	14.0	5.039	2.559	2.480	9/16-18
MDW1310HGS3	●		0.516	13.1	14.0			134	67.5	64	
MDW1320HGS3	●		0.520	13.2	14.0			134	67.5	64	
MDW1330HGS3	●		0.524	13.3	14.0			134	67.5	64	
MDW1340HGS3	●		0.528	13.4	14.0			134	67.5	64	
MDW05312HGS3	●	17/32	0.531	13.49	0.547	●	14.0	5.276	2.658	2.520	5/8-11
MDW1350HGS3	●		0.532	13.5	14.0			134	67.5	64	
MDW1360HGS3	●		0.535	13.6	14.0			134	70	64	
MDW1370HGS3	●		0.539	13.7	14.0			134	70	64	
MDW1380HGS3	●		0.543	13.8	14.0			134	70	64	
MDW05469HGS3	●	35/64	0.547	13.89	0.547	●	14.0	5.276	2.756	2.520	M16x2
MDW1390HGS3	●		0.547	13.9	14.0			134	70	64	
MDW1400HGS3	●		0.551	14	14.0			134	70	64	
MDW1410HGS3	●		0.555	14.1	15.0	●	16.0	140	72.5	65	
MDW1420HGS3	●		0.559	14.2	15.0	●	16.0	140	72.5	65	
MDW05625HGS3	●	9/16	0.563	14.29	0.594	●	16.0	5.512	2.854	2.559	
MDW1430HGS3	●		0.563	14.3	15.0	●	16.0	140	72.5	65	
MDW1440HGS3	●		0.567	14.4	15.0	●	16.0	140	72.5	65	
MDW1450HGS3	●		0.571	14.5	15.0	●	16.0	140	72.5	65	
MDW1460HGS3	●		0.575	14.6	15.0	●	16.0	140	75	65	
MDW05781HGS3	●	37/64	0.578	14.68	0.594	●	16.0	5.512	2.953	2.559	5/8-18
MDW1470HGS3	●		0.579	14.7	15.0	●	16.0	140	75	65	
MDW1480HGS3	●		0.583	14.8	15.0	●	16.0	140	75	65	
MDW1490HGS3	●		0.587	14.9	15.0	●	16.0	140	75	65	
MDW1500HGS3	●		0.591	15	15.0	●	16.0	140	75	65	
MDW05937HGS3	●	19/32	0.594	15.08	0.594	●	16.0	5.512	2.953	2.559	
MDW1510HGS3	●		0.595	15.1	16.0			146	77.5	66	
MDW1520HGS3	●		0.598	15.2	16.0			146	77.5	66	
MDW1530HGS3	●		0.602	15.3	16.0			146	77.5	66	
MDW1540HGS3	●		0.606	15.4	16.0			146	77.5	66	
MDW06094HGS3	●	39/64	0.609	15.48	0.625	●	16.0	5.748	3.051	2.598	11/16-12
MDW1550HGS3	●		0.610	15.5	16.0			146	77.5	66	M18x2.5
MDW1560HGS3	●		0.614	15.6	16.0			146	80	66	
MDW1570HGS3	●		0.618	15.7	16.0			146	80	66	
MDW1580HGS3	●		0.622	15.8	16.0			146	80	66	
MDW06250HGS3	●	5/8	0.625	15.88	0.625	●	16.0	5.748	3.150	2.598	11/16-16
MDW1590HGS3	●		0.626	15.9	16.0	●	16.0	146	80	66	
MDW1600HGS3	●		0.6299	16.00	16	●	16.0	146	80	66	
MDW06406HGS3	●	41/64	0.6406	16.27	0.669			5.984	3.248	2.638	
MDW1650HGS3	●		0.6496	16.50	17			152	82.5	67	
MDW06562HGS3	●	21/32	0.6562	16.67	0.669			5.984	3.346	2.638	3/4-10
MDW1700HGS3	●		0.6693	17.00	17			152	85	67	
MDW06875HGS3	●	11/16	0.6875	17.46	0.709			6.220	3.445	2.677	3/4-16
MDW1750HGS3	●		0.6890	17.50	18			158	87.5	68	
MDW07031HGS3	●	45/64	0.7031	17.86	0.709			6.220	3.543	2.677	
MDW1800HGS3	★		0.7087	18.00	18			158	90	68	
MDW07187HGS3	●	23/32	0.7187	18.25	0.748			6.457	3.642	2.717	
MDW1850HGS3	★		0.7283	18.50	19			164	92.5	69	
MDW07344HGS3	●	47/64	0.7344	18.65	0.748			6.457	3.740	2.717	7/8-9
MDW1900HGS3	●		0.7480	19.00	19			164	95	69	
MDW07500HGS3	●	3/4	0.7500	19.05	0.787			6.693	3.839	2.756	
MDW1925HGS3	●	72/95	0.7579	19.25	20			170	97.5	70	
MDW1950HGS3	★		0.7677	19.50	20			170	97.5	70	
MDW07812HGS3	●	25/32	0.7812	19.84	0.787			6.693	3.937	2.756	
MDW2000HGS3	★		0.7874	20.00	20			170	100	70	

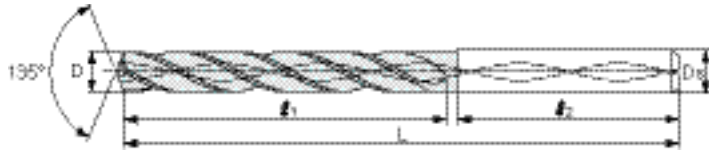
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Items labeled in purple represent Shrink Fit Shank Drills

Items labeled in red represent Product expansion

MDW-HGS5 (S)



MDW-HGS5 5XD drill for excellent chip management and long tool life (Internal coolant)

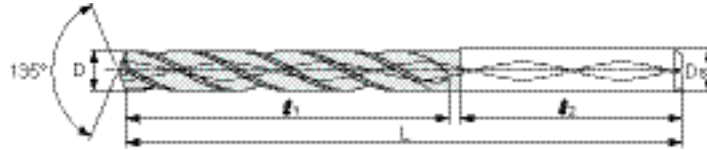
Catalog Number (inch/metric)	Stock	Fractional Wire & Letters	Diameter	Diameter D (mm)	Shank Diameter Ds (in/mm)	HGS5S	HGS5S Shank Diameter Ds	Overall Length L (in/mm)	Flute Length l1 (in/mm)	Shank Length l2 (in/mm)	Tap Size
MDW0150HGS5	●		0.0591	1.5	3.0			70	14	56	
MDW0160HGS5	●		0.063	1.6	3.0			70	19	51	
MDW0170HGS5	●		0.067	1.7	3.0			70	19	51	
MDW0180HGS5	●		0.0709	1.8	3.0			70	19	51	
MDW0190HGS5	●		0.0748	1.9	3.0			70	19	51	
MDW0200HGS5	●		0.0787	2	3.0			70	19	49	
MDW0210HGS5	●		0.0827	2.1	3.0			78	24	52	
MDW0220HGS5	●		0.0866	2.2	3.0			78	24	52	
MDW0230HGS5	●		0.0906	2.3	3.0			78	24	52	
MDW00937HGS5	●	3/32	0.0937	2.38	0.125	●	3.0	3.0709	0.9449	1.8898	
MDW0240HGS5	●		0.0945	2.4	3.0			78	24	52	
MDW0250HGS5	●		0.0984	2.5	3.0			78	24	52	
MDW0260HGS5	●		0.1024	2.6	3.0			78	28	48	
MDW0270HGS5	●		0.1063	2.7	3.0			78	28	48	
MDW01094HGS5	●	7/64	0.1094	2.78	0.125	●	3.0	3.0709	1.1024	1.8898	
MDW0280HGS5	●		0.1102	2.8	3.0			78	28	48	
MDW0290HGS5	●		0.1142	2.9	3.0			78	28	48	
MDW0300HGS5	●		0.1181	3	3.0			78	28	48	
MDW0310HGS5	●		0.122	3.1	4.0	●	6.0	86	32	52	
MDW01250HGS5	●	1/8	0.125	3.18	0.125	●	3.0	3.0709	1.1024	1.8898	
MDW0320HGS5	●		0.126	3.2	4.0	●	6.0	86	32	52	
MDW0330HGS5	●		0.1299	3.3	4.0	●	6.0	86	32	52	
MDW0340HGS5	●		0.1339	3.4	4.0	●	6.0	86	32	52	
MDW0350HGS5	●		0.1378	3.5	4.0	●	6.0	86	32	52	
MDW01406HGS5	●		0.1406	3.57	0.1562	●	6.0	3.3858	1.4173	1.8898	
MDW0360HGS5	●		0.1417	3.6	4.0	●	6.0	86	36	48	
MDW0370HGS5	●		0.1457	3.7	4.0	●	6.0	86	36	48	
MDW0380HGS5	●		0.1496	3.8	4.0	●	6.0	86	36	48	
MDW0390HGS5	●		0.1535	3.9	4.0	●	6.0	86	36	48	
MDW01562HGS5	●	5/32	0.1562	3.97	0.1562	●	6.0	3.3858	1.4173	1.8898	
MDW0400HGS5	●		0.1575	4	4.0	●	6.0	86	36	48	
MDW01590HGS5	●	#21	0.159	4.04	0.1875	●	6.0	3.8583	1.5748	2.2047	
MDW0410HGS5	●		0.1614	4.1	5.0	●	6.0	98	40	56	
MDW0420HGS5	●		0.1654	4.2	5.0	●	6.0	98	40	56	
MDW0430HGS5	●		0.1693	4.3	5.0	●	6.0	98	40	56	
MDW01719HGS5	●	11/64	0.1719	4.37	0.1875	●	6.0	3.8583	1.5748	2.2047	
MDW0440HGS5	●		0.1732	4.4	5.0	●	6.0	98	40	56	
MDW0450HGS5	●		0.1772	4.5	5.0	●	6.0	98	40	56	
MDW0460HGS5	●		0.1811	4.6	5.0	●	6.0	98	44	52	
MDW0470HGS5	●		0.185	4.7	5.0	●	6.0	98	44	52	
MDW01875HGS5	●	3/16	0.1875	4.76	0.1875	●	6.0	3.8583	1.7323	2.0472	
MDW0480HGS5	●		0.189	4.8	5.0	●	6.0	98	44	52	
MDW0490HGS5	●		0.1929	4.9	5.0	●	6.0	98	44	52	
MDW0500HGS5	●		0.1969	5	5.0	●	6.0	98	44	52	
MDW0510HGS5	●		0.2008	5.1	6.0			100	44	54	
MDW02031HGS5	●	13/64	0.2031	5.16	0.2344	●	6.0	3.937	1.7323	2.126	
MDW0520HGS5	●		0.2047	5.2	6.0			100	44	54	
MDW0530HGS5	●		0.2087	5.3	6.0			100	44	54	
MDW0540HGS5	●		0.2126	5.4	6.0			100	44	54	
MDW02130HGS5	●	#3	0.213	5.41	0.2344	●	6.0	3.937	1.7323	2.126	
MDW0550HGS5	●		0.2165	5.5	6.0			100	44	54	
MDW02188HGS5	●	7/32	0.2188	5.56	0.2344	●	6.0	3.937	1.8898	2.0472	
MDW0560HGS5	●		0.2205	5.6	6.0			100	48	52	
MDW02210HGS5	●	#2	0.221	5.61	0.2344	●	6.0	3.937	1.8898	2.0472	
MDW0570HGS5	●		0.2244	5.7	6.0			100	48	52	
MDW0580HGS5	●		0.2283	5.8	6.0			100	48	52	

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

■ = Items labeled in purple represent Shrink Fit Shank Drills

MDW-HGS5 (S)



MDW-HGS5 5XD drill for excellent chip management and long tool life (Internal coolant)

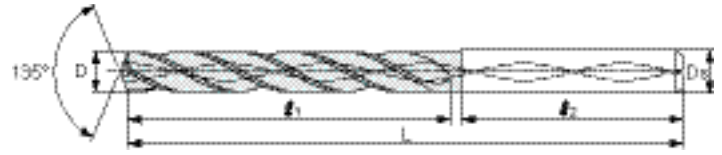
Catalog Number (inch/metric)	Stock	Fractional Wire & Letters	Diameter	Diameter D (mm)	Shank Diameter Ds (in/mm)	HGS5S	HGS5S Shank Diameter Ds	Overall Length L (in/mm)	Flute Length l1 (in/mm)	Shank Length l2 (in/mm)	Tap Size
MDW0590HGS5	●		0.2323	5.9	6.0			100	48	52	
MDW02344HGS5	●	15/64	0.2344	5.95	0.2344	●	6.0	3.937	1.8898	2.0472	
MDW0600HGS5	●		0.2362	6	6.0			100	48	52	
MDW0610HGS5	●		0.2402	6.1	7.0	●	8.0	109	52	53	
MDW0620HGS5	●		0.2441	6.2	7.0	●	8.0	109	52	53	
MDW0630HGS5	●		0.248	6.3	7.0	●	8.0	109	52	53	
MDW02500HGS5	●	1/4	0.25	6.35	0.2812	●	8.0	4.2913	2.0472	2.0866	
MDW0640HGS5	●		0.252	6.4	7.0	●	8.0	109	52	53	
MDW0650HGS5	●		0.2559	6.5	7.0	●	8.0	109	52	53	
MDW02570HGS5	●	#F	0.257	6.53	0.2812	●	8.0	4.2913	2.2047	2.0866	
MDW0653HGS5	●		0.2571	6.53	7.0	●	8.0	109	56	53	
MDW0660HGS5	●		0.2598	6.6	7.0	●	8.0	109	56	53	
MDW0670HGS5	●		0.2638	6.7	7.0	●	8.0	109	56	53	
MDW02656HGS5	●	17/64	0.2656	6.75	0.2812	●	8.0	4.2913	2.2047	2.0866	
MDW02660HGS5	●	#H	0.266	6.76	0.2812	●	8.0	4.2913	2.2047	2.0866	
MDW0680HGS5	●		0.2677	6.8	7.0	●	8.0	109	56	53	
MDW0690HGS5	●		0.2717	6.9	7.0	●	8.0	109	56	53	
MDW02720HGS5	●	#I	0.272	6.91	0.2812	●	8.0	4.2913	2.2047	2.0866	
MDW0700HGS5	●		0.2756	7	7.0	●	8.0	109	56	53	
MDW02770HGS5	●	#J	0.277	7.04	0.2812	●	8.0	4.2913	2.2047	2.0866	
MDW0710HGS5	●		0.2795	7.1	8.0			118	60	54	
MDW02812HGS5	●	9/32	0.2812	7.14	0.2812	●	8.0	4.2913	2.2047	2.0866	
MDW0720HGS5	●		0.2835	7.2	8.0			118	60	54	
MDW0730HGS5	●		0.2874	7.3	8.0			118	60	54	
MDW0740HGS5	●		0.2913	7.4	8.0			118	60	54	
MDW0750HGS5	●		0.2953	7.5	8.0			118	60	54	
MDW02969HGS5	●	19/64	0.2969	7.54	0.3125	●	8.0	4.6457	2.5197	2.126	
MDW0760HGS5	●		0.2992	7.6	8.0			118	64	54	
MDW0770HGS5	●		0.3031	7.7	8.0			118	64	54	
MDW0780HGS5	●		0.3071	7.8	8.0			118	64	54	
MDW0790HGS5	●		0.311	7.9	8.0			118	64	54	
MDW03125HGS5	●	5/16	0.3125	7.94	0.3125	●	8.0	4.6457	2.5197	2.126	
MDW0800HGS5	●		0.315	8	8.0			118	64	54	
MDW0810HGS5	●		0.3189	8.1	9.0	●	10.0	127	68	55	
MDW0820HGS5	●		0.3228	8.2	9.0	●	10.0	127	68	55	
MDW03230HGS5	●	#P	0.323	8.204	0.3594	●	10.0	5	2.6772	2.1654	
MDW0830HGS5	●		0.3268	8.3	9.0	●	10.0	127	68	55	
MDW03281HGS5	●	21/64	0.3281	8.33	0.3594	●	10.0	5	2.6772	2.1654	
MDW0840HGS5	●		0.3307	8.4	9.0	●	10.0	127	68	55	
MDW03320HGS5	●	#Q	0.332	8.43	0.3594	●	10.0	5	2.6772	2.1654	
MDW0850HGS5	●		0.3346	8.5	9.0	●	10.0	127	68	55	
MDW0860HGS5	●		0.3386	8.6	9.0	●	10.0	127	72	55	
MDW0870HGS5	●		0.3425	8.7	9.0	●	10.0	127	72	55	
MDW03438HGS5	●	11/32	0.3438	8.73	0.3594	●	10.0	5	2.8346	2.1654	
MDW0880HGS5	●		0.3465	8.8	9.0	●	10.0	127	72	55	
MDW0890HGS5	●		0.3504	8.9	9.0	●	10.0	127	72	55	
MDW0900HGS5	●		0.3543	9	9.0	●	10.0	127	72	55	
MDW0910HGS5	●		0.3583	9.1	10.0			136	76	56	
MDW03594HGS5	●	23/64	0.3594	9.13	0.3594	●	10.0	5	2.8346	2.1654	
MDW0920HGS5	●		0.3622	9.2	10.0			136	76	56	
MDW0930HGS5	●		0.3661	9.3	10.0			136	76	56	
MDW03680HGS5	●	#U	0.368	9.35	0.3906	●	10.0	5.3543	2.9921	2.2047	

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MDW-HGS5 (S)



MDW-HGS5 5XD drill for excellent chip management and long tool life (Internal coolant)

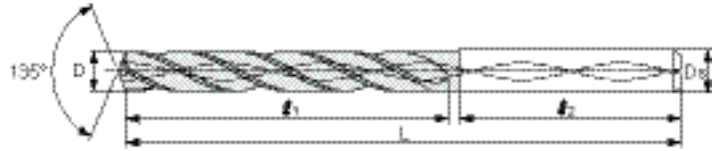
Catalog Number (inch/metric)	Stock	Fractional Wire & Letters	Diameter	Diameter D (mm)	Shank Diameter Ds (in/mm)	HGS5S	HGS3S Shank Diameter Ds	Overall Length L (in/mm)	Flute Length ℓ1 (in/mm)	Shank Length ℓ2 (in/mm)	Tap Size
MDW0940HGSS	●		0.3701	9.4	10.0			136	76	56	
MDW0950HGSS	●		0.374	9.5	10.0			136	76	56	
MDW03750HGSS	●	3/8	0.375	9.53	0.3906	●	10.0	5.3543	3.1496	2.2047	
MDW0960HGSS	●		0.378	9.6	10.0			136	80	56	
MDW0970HGSS	●		0.3819	9.7	10.0			136	80	56	
MDW0980HGSS	●		0.3858	9.8	10.0			136	80	56	
MDW0990HGSS	●		0.3898	9.9	10.0			136	80	56	
MDW03906HGSS	●	25/64	0.3906	9.92	0.3906	●	10.0	5.3543	3.1496	2.2047	
MDW1000HGSS	●		0.3937	10	10.0			136	80	56	
MDW1010HGSS	●		0.3976	10.1	11.0	●	12.0	149	84	61	
MDW1020HGSS	●		0.4016	10.2	11.0	●	12.0	149	84	61	
MDW1030HGSS	●		0.4055	10.3	11.0	●	12.0	149	84	61	
MDW04062HGSS	●	13/32	0.4062	10.32	0.4375	●	12.0	5.8661	3.3071	2.4016	
MDW1040HGSS	●		0.4094	10.4	11.0	●	12.0	149	84	61	
MDW1050HGSS	●		0.4134	10.5	11.0	●	12.0	149	84	61	
MDW1060HGSS	●		0.4173	10.6	11.0	●	12.0	149	88	61	
MDW1070HGSS	●		0.4213	10.7	11.0	●	12.0	149	88	61	
MDW04219HGSS	●	27/64	0.4219	10.72	0.4375	●	12.0	5.8661	3.4646	2.4016	
MDW1080HGSS	●		0.4252	10.8	11.0	●	12.0	149	88	61	
MDW1090HGSS	●		0.4291	10.9	11.0	●	12.0	149	88	61	
MDW1100HGSS	●		0.4331	11	11.0	●	12.0	149	88	61	
MDW1110HGSS	●		0.437	11.1	12.0			158	92	62	
MDW04375HGSS	●	7/16	0.4375	11.11	0.4375	●	12.0	5.8661	3.4646	2.4016	
MDW1120HGSS	●		0.4409	11.2	12.0			158	92	62	
MDW1130HGSS	●		0.4449	11.3	12.0			158	92	62	
MDW1140HGSS	●		0.4488	11.4	12.0			158	92	62	
MDW1150HGSS	●		0.4528	11.5	12.0			158	92	62	
MDW04531HGSS	●	29/64	0.4531	11.51	0.4688	●	12.0	6.2205	3.7795	2.4409	
MDW1160HGSS	●		0.4567	11.6	12.0			158	96	62	
MDW1170HGSS	●		0.4606	11.7	12.0			158	96	62	
MDW1180HGSS	●		0.4646	11.8	12.0			158	96	62	
MDW1190HGSS	●		0.4685	11.9	12.0			158	96	62	
MDW04688HGSS	●	15/32	0.4688	11.91	0.4688	●	12.0	6.2205	3.7795	2.4409	
MDW1200HGSS	●		0.4724	12	12.0			158	96	62	
MDW1210HGSS	●		0.4764	12.1	13.0	●	14.0	167	100	63	
MDW1220HGSS	●		0.4803	12.2	13.0	●	14.0	167	100	63	
MDW1230HGSS	●		0.4843	12.3	13.0	●	14.0	167	100	63	
MDW04844HGSS	●	31/64	0.4844	12.304	0.5156	●	14.0	6.5748	3.937	2.4803	
MDW1240HGSS	●		0.4882	12.4	13.0	●	14.0	167	100	63	
MDW1250HGSS	●		0.4921	12.5	13.0	●	14.0	167	100	63	
MDW1260HGSS	●		0.4961	12.6	13.0	●	14.0	167	104	63	
MDW1270HGSS	●	1/2	0.5	12.7	13.0	●	14.0	167	104	63	
MDW05000HGSS	●	1/2	0.5	12.7	0.5156	●	14.0	6.5748	4.0945	2.4803	
MDW1280HGSS	●		0.5039	12.8	13.0	●	14.0	167	104	63	
MDW1283HGSS	●		0.5051	12.83	13.0	●	14.0	167	104	63	
MDW1290HGSS	●		0.5079	12.9	13.0	●	14.0	167	104	63	
MDW1300HGSS	●		0.5118	13	13.0	●	14.0	167	104	63	
MDW05156HGSS	●	33/64	0.5156	13.09	0.5156	●	14.0	6.5748	4.0945	2.4803	
MDW1310HGSS	●		0.5157	13.1	14.0			176	108	64	
MDW1320HGSS	●		0.5197	13.2	14.0			176	108	64	
MDW1330HGSS	●		0.5236	13.3	14.0			176	108	64	
MDW1340HGSS	●		0.5276	13.4	14.0			176	108	64	
MDW05312HGSS	●	17/32	0.5312	13.49	0.5469	●	14.0	6.9291	4.252	2.5197	
MDW1350HGSS	●		0.5315	13.5	14.0			176	108	64	

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● = Items labeled in purple represent Shrink Fit Shank Drills

MDW-HGS5 (S)



MDW-HGS5 5XD drill for excellent chip management and long tool life (Internal coolant)

Catalog Number (inch/metric)	Stock	Fractional Wire & Letters	Diameter	Diameter D (mm)	Shank Diameter Ds (in/mm)	HGS5S	HGS3S Shank Diameter Ds	Overall Length L (in/mm)	Flute Length L1 (in/mm)	Shank Length L2 (in/mm)	Tap Size
MDW1360HGS5	●		0.5354	13.6	14.0			176	112	64	
MDW1370HGS5	●		0.5394	13.7	14.0			176	112	64	
MDW1380HGS5	●		0.5433	13.8	14.0			176	112	64	
MDW05469HGS5	●	35/64	0.5469	13.89	0.5469	●	14.0	6.9291	4.4094	2.5197	
MDW1390HGS5	●		0.5472	13.9	14.0			176	112	64	
MDW1400HGS5	●		0.5512	14	14.0			176	112	64	
MDW1410HGS5	●		0.5551	14.1	15.0	●	16.0	185	116	65	
MDW1420HGS5	●		0.5591	14.2	15.0	●	16.0	185	116	65	
MDW05625HGS5	●	9/16	0.5625	14.29	0.5937	●	16.0	7.2835	4.5669	2.5591	
MDW1430HGS5	●		0.563	14.3	15.0	●	16.0	185	116	65	
MDW1440HGS5	●		0.5669	14.4	15.0	●	16.0	185	116	65	
MDW1450HGS5	●		0.5709	14.5	15.0	●	16.0	185	116	65	
MDW1460HGS5	●		0.5748	14.6	15.0	●	16.0	185	120	65	
MDW05781HGS5	●	37/64	0.5781	14.68	0.5937	●	16.0	7.2835	4.7244	2.5591	5/8-18
MDW1470HGS5	●		0.5787	14.7	15.0	●	16.0	185	120	65	
MDW1480HGS5	●		0.5827	14.8	15.0	●	16.0	185	120	65	
MDW1490HGS5	●		0.5866	14.9	15.0	●	16.0	185	120	65	
MDW1500HGS5	●		0.5906	15	15.0	●	16.0	185	120	65	
MDW05937HGS5	●	19/32	0.5937	15.08	0.5937	●	16.0	7.2835	4.7244	2.5591	
MDW1510HGS5	●		0.5945	15.1	16.0			194	124	66	
MDW1520HGS5	●		0.5984	15.2	16.0			194	124	66	
MDW1530HGS5	●		0.6024	15.3	16.0			194	124	66	
MDW1540HGS5	●		0.6063	15.4	16.0			194	124	66	
MDW06094HGS5	●	39/64	0.6094	15.48	0.625	●	16.0	7.6378	4.8819	2.5984	11/16-12
MDW1550HGS5	●		0.6102	15.5	16.0			194	124	66	M18x2.5
MDW1560HGS5	●		0.6142	15.6	16.0			194	128	66	
MDW1570HGS5	★		0.6181	15.7	16.0			194	128	66	
MDW1580HGS5	●		0.622	15.8	16.0			194	128	66	
MDW06250HGS5	●	5/8	0.625	15.88	0.625	●	16.0	7.6378	5.0394	2.5984	11/16-16
MDW1590HGS5	●		0.626	15.9	16.0			194	128	66	
MDW1600HGS5	●		0.6299	16.00	16			194	128	66	
MDW06406HGS5	●	41/64	0.6406	16.27	0.669			7.992	5.197	2.638	
MDW1650HGS5	★		0.6496	16.50	17			203	132	67	
MDW06562HGS5	●	21/32	0.6562	16.67	0.669			7.992	5.354	2.638	3/4-10
MDW1700HGS5	★		0.6693	17.00	17			203	136	67	
MDW06875HGS5	●	11/16	0.6875	17.46	0.709			8.425	5.512	2.677	3/4-16
MDW1750HGS5	★		0.6890	17.50	18			214	140	68	
MDW1800HGS5	★		0.7087	18.00	18			214	144	68	
MDW1850HGS5	★		0.7283	18.50	19			221	148	69	
MDW1900HGS5	★		0.7480	19.00	19			221	152	69	
MDW1950HGS5	★		0.7677	19.50	20			230	156	70	
MDW2000HGS5	★		0.7874	20.00	20			230	160	70	

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= Product expansion

= Items labeled in purple represent Shrink Fit Shank Drills

MDW-HGS8



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)

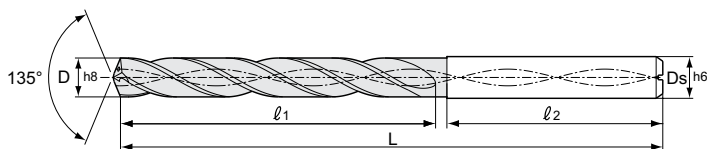
Catalog Number (inch/metric)	Stock	Fractional Wire & Letters	Diameter D (in)	Diameter D (mm)	Overall Length L (in/mm)	Flute Length ℓ_1 (in/mm)	Shank Length ℓ_2 (in/mm)	Shank Diameter D _s (in/mm)	Tap Size
MDW0150HGS8	●		0.0591	1.50	70.0	18.5		3.00	
MDW0200HGS8	●		0.0787	2.00	76.00	24.00	50.00	3.00	
MDW0210HGS8			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	

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MDW-HGS8



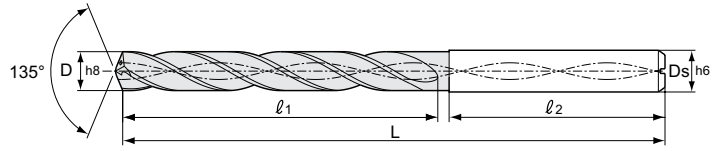
MDW-HGS8 8XD drill for excellent chip management and long tool life (Internal coolant)

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	

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MDW-HGS8



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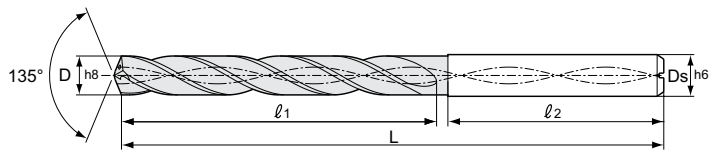
MDW-HGS8 8XD drill for excellent chip management and long tool life (Internal coolant)

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	

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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
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	

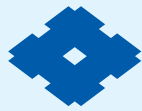
● = USA stocked item ★ = Worldwide Warehouse item available in 10 business days

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

Recommended Speed & Feeds

MDW		Work Material	Hardness HB	Speed = SFM Feed = IPR	Drill Diameter (inch)		
					$\phi < .\phi 0.196$	$\phi 0.197 - \phi 0.394$	$\phi 0.395 - \phi 0.630$
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
			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	160 ~ 280	SFM	50 - 115	60 - 160	80 - 210
		IPR		.002 - .006	.003 - .008	.004 - .010	
	K	400 Martensitic Stainless Steel	160 ~ 240	SFM	60 - 120	75 - 180	90 - 225
		IPR		.002 - .006	.003 - .008	.006 - .010	
	H	Cast Iron		SFM	115 - 300	195 - 390	250 - 415
		IPR		.006 - .010	.006 - .014	.006 - .014	
S	Ductile Iron		SFM	115 - 185	160 - 300	210 - 375	
	IPR		.006 - .010	.006 - .014	.006 - .014		
N	Hardened Steel	45-60 Rc	SFM	40 - 60	40 - 80	50 - 100	
	IPR		.002 - .004	.003 - .006	.004 - .008		
M	Titanium Alloy Ti-6Al-4V		SFM	40 - 80	40 - 100	50 - 110	
	IPR		.003 - .004	.003 - .005	.003 - .006		
N	Exotics - Inconel, Monel		SFM	30 - 60	30 - 60	40 - 80	
	IPR		.002 - .003	.003 - .005	.003 - .006		
M	Aluminum alloy		SFM	300 - 700	400 - 800	400 - 800	
	IPR		.003 - .006	.004 - .008	.006 - .012		
N	Copper Alloy		SFM	300 - 700	400 - 800	400 - 800	
	IPR		.003 - .006	.004 - .008	.006 - .010		

MDW		Work Material	Hardness HB	Speed = SFM Feed = IPR	Drill Diameter (inch)		
					$\phi < .\phi 0.196$	$\phi 0.197 - \phi 0.394$	$\phi 0.395 - \phi 0.630$
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
			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	160 ~ 280	SFM	120 - 225	150 - 325	150 - 325
		IPR		.002 - .006	.004 - .010	.006 - .012	
	K	400 Martensitic Stainless Steel	160 ~ 240	SFM	120 - 250	175 - 350	175 - 350
		IPR		.002 - .006	.004 - .010	.006 - .012	
	H	Cast Iron		SFM	150 - 380	250 - 475	275 - 530
		IPR		.006 - .010	.006 - .014	.006 - .014	
S	Ductile Iron		SFM	150 - 350	225 - 450	250 - 500	
	IPR		.006 - .010	.006 - .014	.006 - .014		
N	Hardened Steel	45-60 Rc	SFM	60 - 190	80 - 225	80 - 225	
	IPR		.002 - .004	.003 - .006	.004 - .008		
M	Titanium Alloy Ti-6Al-4V		SFM	65 - 130	80 - 130	80 - 160	
	IPR		.003 - .004	.003 - .005	.003 - .006		
N	Exotics - Inconel, Monel		SFM	40 - 85	40 - 100	50 - 120	
	IPR		.002 - .003	.003 - .005	.003 - .006		
M	Aluminum alloy		SFM	500 - 800	600 - 1000	600 - 1000	
	IPR		.003 - .006	.004 - .008	.006 - .012		
N	Copper Alloy		SFM	400 - 800	500 - 800	500 - 800	
	IPR		.003 - .006	.004 - .008	.006 - .010		



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