



General Features

The GS and HGS styles (Super MultiDrill) are solid carbide drills that employ a new flute design and wide chip pocket to achieve excellent chip control and evacuation.

DEX coating enables long, stable tool life over a wide cutting range, with various work materials and applications.



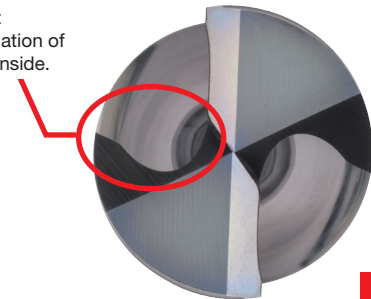
Features and Applications

- **Long tool life**
New cutting edge design and special DEX Coating provide long tool life for a wide variety of work materials.
- **Stable chip evacuation**
New flute shape significantly improves chip control and evacuation.
- **Quiet cutting and stable cutting force**
Stable drilling with little wobble even in small machine applications.
- **Environmentally friendly**
Also compatible with the MQL (Minimum Quantity Lubrication) system.



HGS

Wide chip pocket
for smooth evacuation of
chips generated inside.

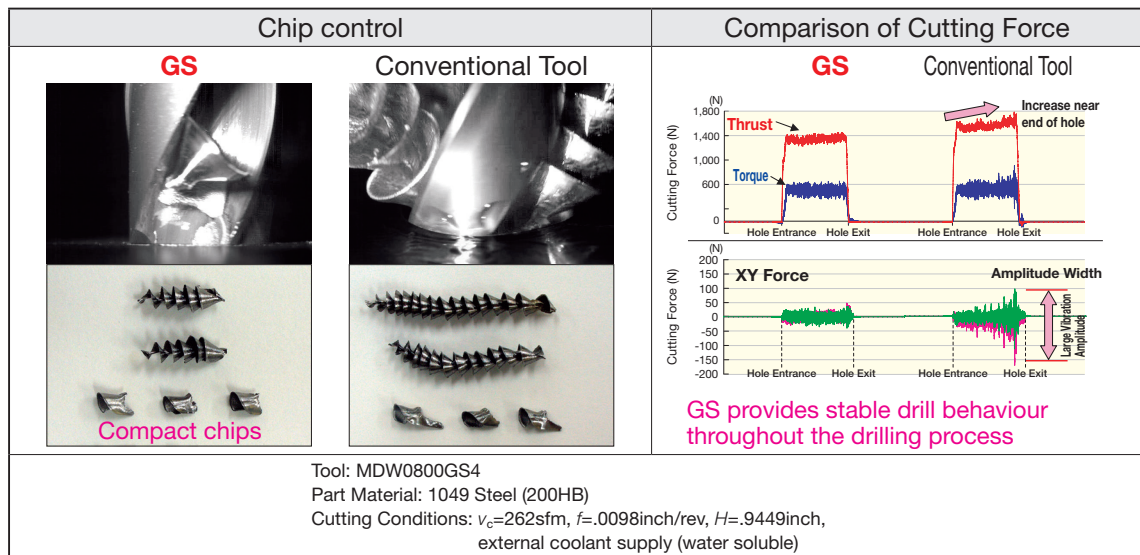


GS

Product Range

Coolant Supply	Cat. No.	Diameter Range (inch)	Hole Depth (L/D)
External (GS)	MDW□□□□ GS2	ø.0394 to ø.7874	up to 2
	MDW□□□□ GS4		up to 4
Internal (HGS)	MDW□□□□ HGS3	ø.0591 to ø.7874	up to 3
	MDW□□□□ HGS5		up to 5
	MDW□□□□ HGS8	ø.0591 to ø.6299	up to 8

Performance



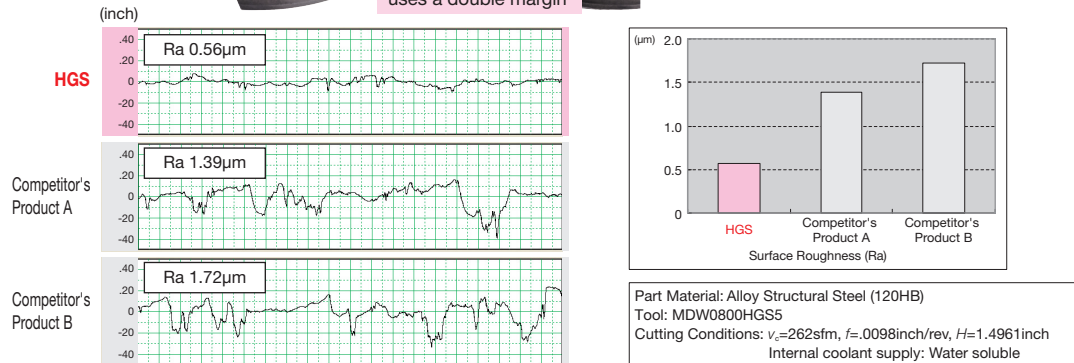
■ Uses double margin (HGS) (excluding $\phi 0.0591$ to $\phi 0.0945$ sizes)

The HGS uses a double margin for greater stability and hole precision in deep drilling

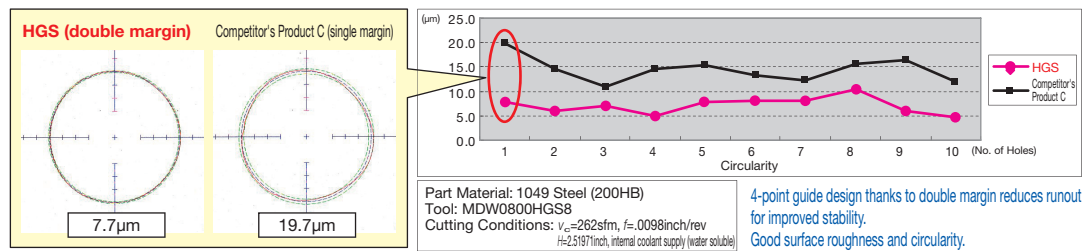


Made with DEX Coat, the world's first compound super multi-layered coating

● Surface Roughness Comparison



● Circularity Comparison



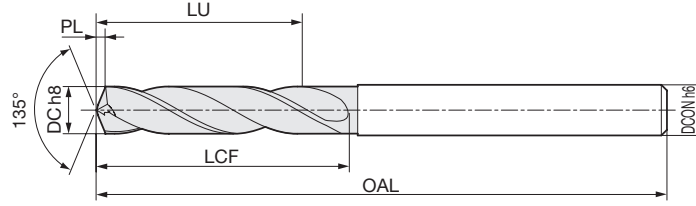
■ Application Examples for GS Drills

● Medium Carbon Steel (250HB) for Automotive	● Prehardened Mold Steel Machine Components	● Structural Steel Machine Components
·Tool: MDW0970GS4 ·Cutting Conditions: $v_c=262\text{sfm}$, $f=.0098\text{inch/rev}$, $H=.9843\text{inch}$, external coolant supply (water soluble) Achieves 1.5 times the tool life! Reduces wear on peripheral cutting edge GS: 1400 holes (Wear) Competitor's Product D: 900 holes (Fracture)	·Tool: MDW0980GS2 ·Cutting Conditions: $v_c=230\text{sfm}$, $f=.0059\text{inch/rev}$, $H=.2756\text{inch}$, external coolant supply (water soluble) 1.3 times longer tool life than conventional tools. Good circularity and cylindricity. GS: 2600 holes (Wear) Conventional Tool: 2000 holes (Wear)	·Tool: MDW 050GS4 ·Cutting Conditions: $v_c=492\text{sfm}$, $f=.0118\text{inch/rev}$, $H=.4724\text{inch}$, external coolant supply (water soluble) Achieves 1.5 times the tool life! Good chip control GS: 1800 holes (Wear) Competitor's Product E: 1200 holes (Adhesion)

■ Application Examples for HGS Drills

● Structural Alloy Steel for Automotive	● Alloy Bearing Steel Automotive Components	● Low Carbon Steel Machine Components
·Tool: MDW 0600HGS8 ·Cutting Conditions: $v_c=262\text{sfm}$, $f=.0098\text{inch/rev}$, $H=1.8898\text{inch}$, internal coolant supply (oil-based) Achieves 1.3 times the tool life! HGS: 650 holes (Wear) Competitor's Product F: 500 holes (Fracture)	·Tool: MDW0570HGS5 ·Cutting Conditions: $v_c=262\text{sfm}$, $f=.0039\text{inch/rev}$, $H=1.378\text{inch}$, internal coolant supply (water soluble) Achieves 2.5 times the tool life! HGS: 1500 holes (Wear) Competitor's Product G: 600 holes (Wear)	·Tool: MDW0860HGS3 ·Cutting Conditions: $v_c=171\text{sfm}$, $f=.0079\text{inch/rev}$, $H=.9843\text{inch}$, internal coolant supply (water soluble) Achieves 1.8 times the tool life! HGS: 1500 holes (Wear) Competitor's Product H: 800 holes (Wear)

Fig 1



Diameter $\phi 2.00$ to 4.04mm (0.0787" - 0.1590") Dimensions (inch/mm)

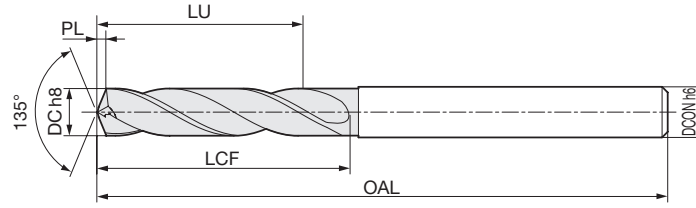
Dia. DC			Cut Tap	Roll Form	Hole Depth	Stock	Cat. No.	Effective Length LU		Flute Length LCF		Overall Length OAL		Tip PL		Shank Dia. DCON		Fig
mm	in.	Fraction	Size	Tap Size	(L/D)			mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
1.00	0.0394				2	★	MDW0100GS2	4.70	0.1850	6.20	0.2441	45.20	1.7795	0.20	0.0079	3.00	0.1181	1
					4	★	MDW0100GS4	10.70	0.4213	12.20	0.4803	49.20	1.9370					1
1.10	0.0433				2	★	MDW0110GS2	4.60	0.1811	6.20	0.2441	45.20	1.7795	0.20	0.0079	3.00	0.1181	1
					4	★	MDW0110GS4	10.60	0.4173	12.20	0.4803	49.20	1.9370					1
1.20	0.0472				2	★	MDW0120GS2	4.40	0.1732	6.20	0.2441	45.20	1.7795	0.20	0.0079	3.00	0.1181	1
					4	★	MDW0120GS4	10.40	0.4094	12.20	0.4803	49.20	1.9370					1
1.30	0.0512				2	★	MDW0130GS2	4.40	0.1732	6.30	0.2480	45.30	1.7835	0.30	0.0118	3.00	0.1181	1
					4	★	MDW0130GS4	10.40	0.4094	12.30	0.4843	49.30	1.9409					1
1.40	0.0551				2	★	MDW0140GS2	4.20	0.1654	6.30	0.2480	45.30	1.7835	0.30	0.0118	3.00	0.1181	1
					4	★	MDW0140GS4	10.20	0.4016	12.30	0.4843	49.30	1.9409					1
1.50	0.0591				2	★	MDW0150GS2	4.10	0.1614	6.30	0.2480	45.30	1.7835	0.30	0.0118	3.00	0.1181	1
					4	★	MDW0150GS4	10.10	0.3976	12.30	0.4843	49.30	1.9409					1
1.60	0.0630				2	★	MDW0160GS2	5.90	0.2323	8.30	0.3268	45.30	1.7835	0.30	0.0118	3.00	0.1181	1
					4	★	MDW0160GS4	12.90	0.5079	15.30	0.6024	49.30	1.9409					1
1.70	0.0669				2	★	MDW0170GS2	5.90	0.2323	8.40	0.3307	45.40	1.7874	0.40	0.0157	3.00	0.1181	1
					4	★	MDW0170GS4	12.90	0.5079	15.40	0.6063	49.40	1.9449					1
1.80	0.0709				2	★	MDW0180GS2	5.70	0.2244	8.40	0.3307	45.40	1.7874	0.40	0.0157	3.00	0.1181	1
					4	★	MDW0180GS4	12.70	0.5000	15.40	0.6063	49.40	1.9449					1
1.90	0.0748				2	★	MDW0190GS2	5.60	0.2205	8.40	0.3307	45.40	1.7874	0.40	0.0157	3.00	0.1181	1
					4	★	MDW0190GS4	12.60	0.4961	15.40	0.6063	49.40	1.9449					1
2.00	0.0787			2-56	2	●	MDW0200GS2	5.00	0.1969	8.00	0.3150	45.00	1.7717	0.41	0.0163	3.00	0.1181	1
				2-64	4	●	MDW0200GS4	12.00	0.4724	15.00	0.5906	49.00	1.9291					1
2.10	0.0827		3-56		2	●	MDW0210GS2	6.85	0.2697	10.00	0.3937	45.00	1.7717	0.43	0.0171	3.00	0.1181	1
					4	●	MDW0210GS4	13.85	0.5453	17.00	0.6693	49.00	1.9291					1
2.20	0.0866				2	●	MDW0220GS2	6.70	0.2638	10.00	0.3937	45.00	1.7717	0.46	0.0179	3.00	0.1181	1
					4	●	MDW0220GS4	13.70	0.5394	17.00	0.6693	49.00	1.9291					1
2.30	0.0906		4-40	3-48	2	●	MDW0230GS2	6.55	0.2579	10.00	0.3937	45.00	1.7717	0.48	0.0188	3.00	0.1181	1
					4	●	MDW0230GS4	13.55	0.5335	17.00	0.6693	49.00	1.9291					1
2.38	0.0937	3/32	4-48		2	●	MDW00937GS2	6.43	0.2531	10.00	0.3937	45.00	1.7717	0.49	0.0194	3.18	0.1250	1
					4	●	MDW00937GS4	13.43	0.5287	17.00	0.6693	49.00	1.9291					1
2.40	0.0945				2	●	MDW0240GS2	6.40	0.2520	10.00	0.3937	45.00	1.7717	0.50	0.0196	3.00	0.1181	1
					4	●	MDW0240GS4	13.40	0.5276	17.00	0.6693	49.00	1.9291					1
2.50	0.0984		M3x.5		2	●	MDW0250GS2	6.25	0.2461	10.00	0.3937	45.00	1.7717	0.52	0.0204	3.00	0.1181	1
					4	●	MDW0250GS4	13.25	0.5217	17.00	0.6693	49.00	1.9291					1
2.60	0.1024			4-48	2	●	MDW0260GS2	9.10	0.3583	13.00	0.5118	45.00	1.7717	0.54	0.0212	3.00	0.1181	1
					4	●	MDW0260GS4	15.10	0.5945	19.00	0.7480	49.00	1.9291					1
2.70	0.1063		5-44		2	●	MDW0270GS2	8.95	0.3524	13.00	0.5118	45.00	1.7717	0.56	0.0220	3.00	0.1181	1
			M3x.35		4	●	MDW0270GS4	14.95	0.5886	19.00	0.7480	49.00	1.9291					1
2.80	0.1102				2	●	MDW0280GS2	8.80	0.3465	13.00	0.5118	45.00	1.7717	0.58	0.0228	3.00	0.1181	1
					4	●	MDW0280GS4	14.80	0.5827	19.00	0.7480	49.00	1.9291					1
2.82	0.1110	#34	6-32		2	●	MDW01110GS2	8.77	0.3453	13.00	0.5118	45.00	1.7717	0.58	0.0228	3.18	0.1250	1
2.87	0.1130	#33			2	●	MDW01130GS2	8.70	0.3423	13.00	0.5118	45.00	1.7717	0.60	0.0236	3.18	0.1250	1
2.90	0.1142			5-40	2	●	MDW0290GS2	8.65	0.3406	13.00	0.5118	45.00	1.7717	0.60	0.0236	3.00	0.1181	1
					4	●	MDW0290GS4	14.65	0.5768	19.00	0.7480	49.00	1.9291					1
2.95	0.1160	#32	6-40, M3.5x6	5-44	2	●	MDW01160GS2	8.58	0.3376	13.00	0.5118	45.00	1.7717	0.61	0.0240	3.18	0.1250	1
3.00	0.1181				2	●	MDW0300GS2	8.50	0.3346	13.00	0.5118	45.00	1.7717	0.60	0.0236	3.00	0.1181	1
					4	●	MDW0300GS4	14.50	0.5709	19.00	0.7480	49.00	1.9291					1
3.05	0.1200	#31			2	●	MDW01200GS2	8.43	0.3317	13.00	0.5118	45.00	1.7717	0.60	0.0236	3.18	0.1250	1
3.10	0.1220				2	●	MDW0310GS2	14.35	0.5650	19.00	0.7480	54.00	2.1260	0.62	0.0240	4.00	0.1575	1
					4	●	MDW0310GS4	19.35	0.7618	24.00	0.9449	60.00	2.3622					1
3.18	0.1250	1/8		6-32	2	●	MDW01250GS2	14.23	0.5602	19.00	0.7480	45.00	1.7717	0.66	0.0259	3.18	0.1250	1
3.20	0.1260				2	●	MDW0320GS2	14.20	0.5591	19.00	0.7480	54.00	2.1260	0.66	0.0261	4.00	0.1575	1
					4	●	MDW0320GS4	19.20	0.7559	24.00	0.9449	60.00	2.3622					1
3.26	0.1285	#30		M3.5x6, 6-40	2	●	MDW01285GS2	14.11	0.5555	19.00	0.7480	54.00	2.1260	0.68	0.0266	3.97	0.1562	1
3.30	0.1299				2	●	MDW0330GS2	14.05	0.5531	19.00	0.7480	54.00	2.1260	0.68	0.0269	4.00	0.1575	1
					4	●	MDW0330GS4	19.05	0.7500	24.00	0.9449	60.00	2.3622					1
3.40	0.1339		M4x.7		2	●	MDW0340GS2	13.90	0.5472	19.00	0.7480	54.00	2.1260	0.70	0.0276	4.00	0.1575	1
					4	●	MDW0340GS4	18.90	0.7441	24.00	0.9449	60.00	2.3622					1
3.45	0.1360	#29			2	●	MDW01360GS2	13.83	0.5443	19.00	0.7480	54.00	2.1260	0.72	0.0282	3.97	0.1562	1
3.50	0.1378		8-32		2	●	MDW0350GS2	13.75	0.5413	19.00	0.7480	54.00	2.1260	0.72	0.0285	4.00	0.1575	1
					4	●	MDW0350GS4	18.75	0.7382	24.00	0.9449	60.00	2.3622					1



Tap Size values fall between 55% and 75% of thread engagement, and should be adjusted according to application

*Refer to N74 for the tolerance of h6 and h8

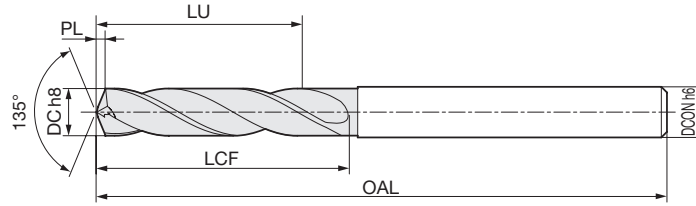
Fig 1



Diameter $\varnothing 4.09$ to 5.80mm (0.1610" - 0.2283") Dimensions (inch/mm)

Dia. DC			Cut Tap Size	Roll Form Tap Size	Hole Depth (L/D)	Stock	Cat. No.	Effective Length LU		Flute Length LCF		Overall Length OAL		Tip PL		Shank Dia. DCON		Fig
mm	in.	Fraction						mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
3.57	0.1405	#28	8-36		2	●	MDW01405GS2	15.65	0.6159	21.00	0.8268	54.00	2.1260	0.74	0.0291	3.97	0.1562	1
	0.1406				2	●	MDW01406GS2	15.65	0.6159	21.00	0.8268	54.00	2.1260					1
		9/64	4		●	MDW01406GS4	21.64	0.8521	27.00	1.0630	60.00	2.3622	1					
3.60	0.1417				2	●	MDW0360GS2	15.60	0.6142	21.00	0.8268	54.00	2.1260	0.75	0.0294	4.00	0.1575	1
					4	●	MDW0360GS4	21.60	0.8504	27.00	1.0630	60.00	2.3622					1
3.66	0.1440	#27		M4x.7	2	●	MDW01440GS2	15.51	0.6106	21.00	0.8268	54.00	2.1260	0.76	0.0298	3.97	0.1562	1
3.70	0.1457		M4.5x.7		2	●	MDW0370GS2	15.45	0.6083	21.00	0.8268	54.00	2.1260	0.77	0.0302	4.00	0.1575	1
					4	●	MDW0370GS4	21.45	0.8445	27.00	1.0630	60.00	2.3622					1
3.73	0.1470	#26			2	●	MDW01470GS2	15.41	0.6065	21.00	0.8268	54.00	2.1260	0.80	0.0315	3.97	0.1562	1
3.80	0.1495			8-32	2	●	MDW01495GS2	15.30	0.6025	21.00	0.8268	54.00	2.1260	0.79	0.0310	4.00	0.1575	1
	0.1496				2	●	MDW0380GS2	15.30	0.6024	21.00	0.8268	54.00	2.1260					1
					4	●	MDW0380GS4	21.30	0.8386	27.00	1.0630	60.00	2.3622					1
3.86	0.1520	#24	M4.5x.75	8-36	2	●	MDW01520GS2	15.21	0.5988	21.00	0.8268	54.00	2.1260	0.80	0.0315	3.97	0.1562	1
3.90	0.1535				2	●	MDW0390GS2	15.15	0.5965	21.00	0.8268	54.00	2.1260	0.81	0.0318	4.00	0.1575	1
					4	●	MDW0390GS4	21.15	0.8327	27.00	1.0630	60.00	2.3622					1
3.91	0.1540	#23	10-24		2	●	MDW01540GS2	15.14	0.5959	21.00	0.8268	54.00	2.1260	0.81	0.0319	3.97	0.1562	1
3.97	0.1562	5/32			2	●	MDW01562GS2	15.05	0.5923	21.00	0.8268	54.00	2.1260	0.82	0.0326	3.97	0.1562	1
3.99	0.1570	#22			2	●	MDW01570GS2	17.02	0.6699	23.00	0.9055	61.00	2.4016	0.82	0.0326	4.76	0.1875	1
4.00	0.1575				2	●	MDW0400GS2	15.00	0.5906	21.00	0.8268	54.00	2.1260	0.83	0.0327	4.00	0.1575	1
					4	●	MDW0400GS4	21.00	0.8268	27.00	1.0630	60.00	2.3622					1
4.04	0.1590	#21			2	●	MDW01590GS2	16.94	0.6669	23.00	0.9055	61.00	2.4016	0.84	0.0329	4.76	0.1875	1
4.09	0.1610	#20			2	●	MDW01610GS2	16.87	0.6640	23.00	0.9055	61.00	2.4016	0.85	0.0345	4.76	0.1875	1
4.10	0.1614		10-32		2	●	MDW0410GS2	16.85	0.6634	23.00	0.9055	61.00	2.4016	0.85	0.0334	5.00	0.1969	1
					4	●	MDW0410GS4	24.85	0.9783	31.00	1.2205	76.00	2.9921					1
4.20	0.1654				2	●	MDW0420GS2	16.70	0.6575	23.00	0.9055	61.00	2.4016	0.87	0.0342	5.00	0.1969	1
					4	●	MDW0420GS4	24.70	0.9724	31.00	1.2205	76.00	2.9921					1
4.22	0.1660	#19		M4.5x.75	2	●	MDW01660GS2	16.67	0.6563	23.00	0.9055	61.00	2.4016	0.87	0.0344	4.76	0.1875	1
4.30	0.1693		M5x.8		2	●	MDW0430GS2	16.55	0.6516	23.00	0.9055	61.00	2.4016	0.89	0.0351	5.00	0.1969	1
					4	●	MDW0430GS4	24.55	0.9665	31.00	1.2205	76.00	2.9921					1
4.31	0.1695	#18			2	●	MDW01695GS2	16.54	0.6510	23.00	0.9055	61.00	2.4016	0.90	0.0354	4.76	0.1875	1
4.37	0.1719	11/64		10-24	2	●	MDW01719GS2	16.45	0.6474	23.00	0.9055	61.00	2.4016	0.90	0.0356	4.76	0.1875	1
4.39	0.1730	#17			2	●	MDW01730GS2	16.42	0.6463	23.00	0.9055	61.00	2.4016	0.90	0.0356	4.76	0.1875	1
4.40	0.1732				2	●	MDW0440GS2	16.40	0.6457	23.00	0.9055	61.00	2.4016	0.91	0.0359	5.00	0.1969	1
					4	●	MDW0440GS4	24.40	0.9606	31.00	1.2205	76.00	2.9921					1
4.49	0.1770	#16			2	●	MDW01770GS2	16.27	0.6404	23.00	0.9055	61.00	2.4016	0.91	0.0359	4.76	0.1875	1
4.50	0.1772			10-32	2	●	MDW0450GS2	16.25	0.6398	23.00	0.9055	61.00	2.4016	0.93	0.0360	5.00	0.1969	1
					4	●	MDW0450GS4	24.25	0.9547	31.00	1.2205	76.00	2.9921					1
4.57	0.1800	#15	12-24,M5x.5		2	●	MDW01800GS2	18.15	0.7144	25.00	0.9843	61.00	2.4016	0.95	0.0373	4.76	0.1875	1
4.60	0.1811				2	●	MDW0460GS2	18.10	0.7126	25.00	0.9843	61.00	2.4016	0.95	0.0375	5.00	0.1969	1
					4	●	MDW0460GS4	31.10	1.2244	38.00	1.4961	76.00	2.9921					1
4.62	0.1820	#14		M5x.8	2	●	MDW01820GS2	18.07	0.7114	25.00	0.9843	61.00	2.4016	0.96	0.0378	4.76	0.1875	1
4.70	0.1850		12-28		2	●	MDW01850GS2	17.95	0.7067	25.00	0.9843	61.00	2.4016	0.97	0.0383	5.00	0.1969	1
					2	●	MDW0470GS2	17.95	0.7067	25.00	0.9843	61.00	2.4016					1
					4	●	MDW0470GS4	30.95	1.2185	38.00	1.4961	76.00	2.9921					1
4.76	0.1875	3/16		M5x.5	2	●	MDW01875GS2	17.86	0.7031	25.00	0.9843	61.00	2.4016	0.99	0.0388	4.76	0.1875	1
4.80	0.1890				2	●	MDW01890GS2	17.80	0.7008	25.00	0.9843	65.00	2.5591	0.99	0.0391	5.00	0.1969	1
					2	●	MDW0480GS2	17.80	0.7008	25.00	0.9843	61.00	2.4016					1
					4	●	MDW0480GS4	30.80	1.2126	38.00	1.4961	76.00	2.9921					1
4.85	0.1910	#11			2	●	MDW01910GS2	17.73	0.6978	25.00	0.9843	65.00	2.5591	1.00	0.0394	5.95	0.2344	1
4.90	0.1929				2	●	MDW0490GS2	17.65	0.6949	25.00	0.9843	61.00	2.4016	1.01	0.0400	5.00	0.1969	1
					4	●	MDW0490GS4	30.65	1.2067	38.00	1.4961	76.00	2.9921					1
4.91	0.1935	#10			2	●	MDW01935GS2	17.64	0.6943	25.00	0.9843	65.00	2.5591	1.00	0.0394	5.95	0.2344	1
4.98	0.1960	#9			2	●	MDW01960GS2	17.53	0.6902	25.00	0.9843	65.00	2.5591	1.00	0.0394	5.95	0.2344	1
5.00	0.1969			12-24	2	●	MDW0500GS2	17.50	0.6890	25.00	0.9843	61.00	2.4016	1.04	0.0408	5.00	0.1969	1
					4	●	MDW0500GS4	30.50	1.2008	38.00	1.4961	76.00	2.9921					1
5.10	0.2008			12-28	2	●	MDW0510GS2	17.35	0.6831	25.00	0.9843	65.00	2.5591	1.06	0.0416	6.00	0.2362	1
					4	●	MDW0510GS4	31.35	1.2343	39.00	1.5354	81.00	3.1890					1
5.11	0.2010	#7			2	●	MDW02010GS2	17.34	0.6825	25.00	0.9843	65.00	2.5591	1.06	0.0416	5.95	0.2344	1
					4	●	MDW02010GS4	31.34	1.2337	39.00	1.5354	81.00	3.1890					1
5.16	0.2031	13/64	M6x1		2	●	MDW02031GS2	17.26	0.6795	25.00	0.9843	65.00	2.5591	1.07	0.0421	5.95	0.2344	1
					4	●	MDW02031GS4	31.26	1.2308	39.00	1.5354	81.00	3.1890					1
5.18	0.2040	#6			2	●	MDW02040GS2	17.23	0.6783	25.00	0.9843	65.00	2.5591	1.08	0.0424	5.95	0.2344	1

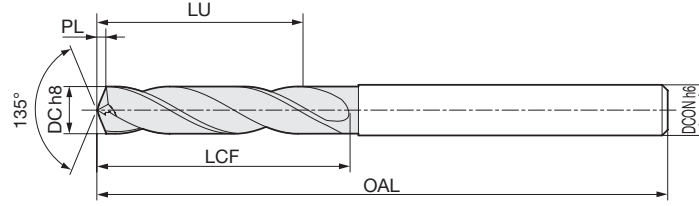
Fig 1



Diameter $\phi 5.90$ to 7.49mm (0.2323" - 0.2950") Dimensions (inch/mm)

Dia. DC			Cut Tap Size	Roll Form Tap Size	Hole Depth (L/D)	Stock	Cat. No.	Effective Length LU		Flute Length LCF		Overall Length OAL		Tip PL		Shank Dia. DCON		Fig
mm	in.	Fraction						mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
5.20	0.2047				2	●	MDW0520GS2	17.20	0.6772	25.00	0.9843	65.00	2.5591	1.08	0.0424	6.00	0.2362	1
					4	●	MDW0520GS4	31.20	1.2283	39.00	1.5354	81.00	3.1890					1
5.22	0.2055	#5			2	●	MDW02055GS2	17.17	0.6760	25.00	0.9843	65.00	2.5591	1.10	0.0433	5.95	0.2344	1
					4	●	MDW0530GS2	17.05	0.6713	25.00	0.9843	65.00	2.5591					1
5.30	0.2087				2	●	MDW0530GS2	17.05	0.6713	25.00	0.9843	65.00	2.5591					1
					4	●	MDW0530GS4	31.05	1.2224	39.00	1.5354	81.00	3.1890	1.10	0.0433	6.00	0.2362	1
5.31	0.2090	#4	1/4-20, M6x.75	M5.5x.5	2	●	MDW02090GS2	17.04	0.6707	25.00	0.9843	65.00	2.5591	1.10	0.0433	5.95	0.2344	1
					4	●	MDW0540GS2	16.90	0.6654	25.00	0.9843	65.00	2.5591					1
5.40	0.2126				2	●	MDW0540GS2	30.90	1.2165	39.00	1.5354	81.00	3.1890	1.12	0.0440	6.00	0.2362	1
					4	●	MDW0540GS4	30.90	1.2165	39.00	1.5354	81.00	3.1890					1
5.41	0.2130	#3			2	●	MDW02130GS2	16.89	0.6648	25.00	0.9843	65.00	2.5591	1.12	0.0441	5.95	0.2344	1
					4	●	MDW0550GS2	16.75	0.6594	25.00	0.9843	65.00	2.5591					1
5.50	0.2165				2	●	MDW0550GS2	30.75	1.2106	39.00	1.5354	81.00	3.1890	1.14	0.0448	6.00	0.2362	1
					4	●	MDW0550GS4	30.75	1.2106	39.00	1.5354	81.00	3.1890					1
5.56	0.2188	7/32	1/4-28 M6x.5	M6x1	2	●	MDW02188GS2	18.66	0.7346	27.00	1.0630	65.00	2.5591	1.15	0.0453	5.95	0.2344	1
					4	●	MDW02188GS4	30.66	1.2072	39.00	1.5354	81.00	3.1890					1
5.60	0.2205				2	●	MDW0560GS2	18.60	0.7323	27.00	1.0630	65.00	2.5591	1.16	0.0457	6.00	0.2362	1
					4	●	MDW0560GS4	32.60	1.2835	41.00	1.6142	81.00	3.1890					1
5.61	0.2210	#2		M6x.75	2	●	MDW02210GS2	18.59	0.7317	27.00	1.0630	65.00	2.5591	1.16	0.0458	5.95	0.2344	1
					4	●	MDW0570GS2	18.45	0.7264	27.00	1.0630	65.00	2.5591					1
5.70	0.2244				2	●	MDW0570GS2	32.45	1.2776	41.00	1.6142	81.00	3.1890	1.18	0.0465	6.00	0.2362	1
					4	●	MDW0570GS4	32.45	1.2776	41.00	1.6142	81.00	3.1890					1
5.79	0.2280	#1			2	●	MDW02280GS2	18.32	0.7211	27.00	1.0630	65.00	2.5591	1.20	0.0472	5.95	0.2344	1
					4	●	MDW0580GS2	18.30	0.7205	27.00	1.0630	65.00	2.5591					1
5.80	0.2283			1/4-20	2	●	MDW0580GS2	32.30	1.2717	41.00	1.6142	81.00	3.1890	1.20	0.0472	6.00	0.2362	1
					4	●	MDW0580GS4	32.30	1.2717	41.00	1.6142	81.00	3.1890					1
5.90	0.2323				2	●	MDW0590GS2	18.15	0.7146	27.00	1.0630	65.00	2.5591	1.22	0.0481	6.00	0.2362	1
					4	●	MDW0590GS4	32.15	1.2657	41.00	1.6142	81.00	3.1890					1
5.94	0.2340	A			2	●	MDW02340GS2	18.09	0.7122	27.00	1.0630	65.00	2.5591	1.23	0.0484	5.95	0.2344	1
					4	●	MDW02344GS2	18.08	0.7116	27.00	1.0630	65.00	2.5591					1
5.95	0.2344	15/64			2	●	MDW0600GS2	18.00	0.7087	27.00	1.0630	65.00	2.5591	1.23	0.0485	5.95	0.2344	1
					4	●	MDW0600GS4	32.00	1.2598	41.00	1.6142	81.00	3.1890					1
6.00	0.2362	15/64		1/4-28	2	●	MDW0610GS2	21.93	0.8632	31.00	1.2205	73.00	2.8740	1.24	0.0489	7.14	0.2812	1
					4	●	MDW0610GS4	21.85	0.8602	31.00	1.2205	73.00	2.8740					1
6.05	0.2380	B			2	●	MDW0610GS2	32.85	1.2933	42.00	1.6535	83.00	3.2677	1.26	0.0497	7.00	0.2756	1
					4	●	MDW0610GS4	32.85	1.2933	42.00	1.6535	83.00	3.2677					1
6.15	0.2420	C	M7x1		2	●	MDW02420GS2	21.78	0.8573	31.00	1.2205	73.00	2.8740	1.27	0.0500	7.14	0.2812	1
					4	●	MDW0620GS2	21.70	0.8543	31.00	1.2205	73.00	2.8740					1
6.20	0.2441				2	●	MDW0620GS2	32.70	1.2874	42.00	1.6535	83.00	3.2677	1.28	0.0506	7.00	0.2756	1
					4	●	MDW0620GS4	32.70	1.2874	42.00	1.6535	83.00	3.2677					1
6.25	0.2460	D			2	●	MDW02460GS2	21.63	0.8514	31.00	1.2205	73.00	2.8740	1.30	0.0512	7.14	0.2812	1
					4	●	MDW02460GS4	32.63	1.2844	42.00	1.6535	83.00	3.2677					1
6.30	0.2480				2	●	MDW0630GS2	21.55	0.8484	31.00	1.2205	73.00	2.8740	1.30	0.0514	7.00	0.2756	1
					4	●	MDW0630GS4	32.55	1.2815	42.00	1.6535	83.00	3.2677					1
6.35	0.2500	1/4	M7x.75		2	●	MDW02500GS2	21.48	0.8455	31.00	1.2205	73.00	2.8740	1.32	0.0518	7.14	0.2812	1
					4	●	MDW02500GS4	32.48	1.2785	42.00	1.6535	83.00	3.2677					1
6.40	0.2520				2	●	MDW0640GS2	21.40	0.8425	31.00	1.2205	73.00	2.8740	1.33	0.0522	7.00	0.2756	1
					4	●	MDW0640GS4	32.40	1.2756	42.00	1.6535	83.00	3.2677					1
6.50	0.2559				2	●	MDW0650GS2	21.25	0.8366	31.00	1.2205	73.00	2.8740	1.35	0.0530	7.00	0.2756	1
					4	●	MDW0650GS4	32.25	1.2697	42.00	1.6535	83.00	3.2677					1
6.53	0.2570	F	5/16-18	M7x1	2	●	MDW02570GS2	23.21	0.9136	33.00	1.2992	73.00	2.8740	1.35	0.0532	7.14	0.2812	1
					4	●	MDW02570GS4	33.21	1.3073	43.00	1.6929	83.00	3.2677					1
6.60	0.2598				2	●	MDW0660GS2	23.10	0.9094	33.00	1.2992	73.00	2.8740					1
					4	●	MDW0660GS4	33.10	1.3031	43.00	1.6929	83.00	3.2677	1.37	0.0538	7.00	0.2756	1
	0.2600				2	●	MDW02600GS2	23.09	0.9092	33.00	1.2992	73.00	2.8740			7.14	0.2812	1
6.63	0.2610	G			2	●	MDW02610GS2	23.06	0.9077	33.00	1.2992	73.00	2.8740	1.38	0.0542	7.14	0.2812	1
					4	●	MDW02610GS4	33.06	1.3014	43.00	1.6929	83.00	3.2677					1
6.70	0.2638				2	●	MDW0670GS2	22.95	0.9035	33.00	1.2992	73.00	2.8740	1.39	0.0546	7.00	0.2756	1
					4	●	MDW0670GS4	32.95	1.2972	43.00	1.6929	83.00	3.2677					1
6.75	0.2656	17/64	5/6-18		2	●	MDW02656GS2	22.88	0.9006	33.00	1.2992	73.00	2.8740	1.40	0.0550	7.14	0.2812	1
					4	●	MDW02656GS4	32.88	1.2943	43.00	1.6929	83.00	3.2677					1
6.76	0.2660	H	5/6-18		2	●	MDW02660GS2	22.86	0.9000	33.00	1.2992	73.00	2.8740	1.40	0.0551	7.14	0.2812	1
					4	●	MDW02660GS4	32.86	1.2937	43.00	1.6929	83.00	3.2677					1
6.80	0.2677				2	●	MDW02677GS2	22.80	0.8976	33.00	1.2992	73.00	2.8740			7.14	0.2812	1
					4	●	MDW0680GS2	22.80	0.8976	33.00	1.2992	73.00	2.8740	1.41	0.0554	7.00	0.2756	1
					4	●	MDW0680GS4	32.80	1.2913	43.00	1.6929	83.00	3.2677					1
6.90	0.2717		M8x1.25		2	●	MDW0690GS2	22.65	0.8917	33.00	1.2992	73.00	2.8740	1.43	0.0563	7.00	0.2756	1
					4	●	MDW0690GS4	32.65	1.2854	43.00	1.6929	83.00	3.2677					1
J12 6.91	0.2720	I	5/16-24		2	●	MDW02720GS2	22.64	0.8911	33.00	1.2992	73.00	2.8740	1.43	0.0563	7.14	0.2812	1
					4	●	MDW02720GS4	32.64	1.2848	43.00	1.6929	83.00	3.2677					1

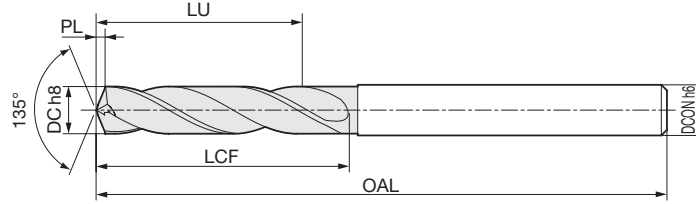
Fig 1



Diameter $\phi 7.50$ to 9.20mm (0.2953" - 0.3622") Dimensions (inch/mm)

Dia. DC			Cut Tap Size	Roll Form Tap Size	Hole Depth (L/D)	Stock	Cat. No.	Effective Length LU		Flute Length LCF		Overall Length OAL		Tip PL		Shank Dia. DCON		Fig
mm	in.	Fraction						mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
7.00	0.2756				2	● MDW02756GS2	22.50	0.8858	33.00	1.2992	73.00	2.8740	1.45	0.0571		7.14	0.2812	1
					2	● MDW0700GS2	22.50	0.8858	33.00	1.2992	73.00	2.8740						1
					4	● MDW0700GS4	32.50	1.2795	43.00	1.6929	83.00	3.2677						1
7.04	0.2770	J			2	● MDW02770GS2	22.44	0.8835	33.00	1.2992	73.00	2.8740	1.46	0.0574	7.14	0.2812	1	
					4	● MDW02770GS4	32.44	1.2772	43.00	1.6929	83.00	3.2677					1	
7.10	0.2795				2	● MDW0710GS2	22.35	0.8799	33.00	1.2992	78.00	3.0709	1.47	0.0579	8.00	0.3150	1	
					4	● MDW0710GS4	34.35	1.3524	45.00	1.7717	90.00	3.5433					1	
7.14	0.2810	K	M8x1		2	● MDW02810GS2	22.29	0.8776	33.00	1.2992	73.00	2.8740	1.48	0.0582	7.14	0.2812	1	
					4	● MDW02810GS4	32.29	1.2713	43.00	1.6929	83.00	3.2677					1	
	0.2812	9/32			2	● MDW02812GS2	22.29	0.8774	33.00	1.2992	73.00	2.8740					1	
					4	● MDW02812GS4	32.29	1.2711	43.00	1.6929	83.00	3.2677					1	
7.20	0.2835				2	● MDW0720GS2	22.20	0.8740	33.00	1.2992	78.00	3.0709	1.49	0.0587	8.00	0.3150	1	
					4	● MDW0720GS4	34.20	1.3465	45.00	1.7717	90.00	3.5433					1	
7.30	0.2874		M8x.75	5/16-18	2	● MDW0730GS2	22.05	0.8681	33.00	1.2992	78.00	3.0709	1.51	0.0595	8.00	0.3150	1	
					4	● MDW0730GS4	34.05	1.3406	45.00	1.7717	90.00	3.5433					1	
7.37	0.2900	L			2	● MDW02900GS2	21.95	0.8640	33.00	1.2992	78.00	3.0709	1.50	0.0591	7.94	0.3125	1	
					4	● MDW02900GS4	33.95	1.3364	45.00	1.7717	90.00	3.5433					1	
7.40	0.2913			M8x1.25	2	● MDW0740GS2	21.90	0.8622	33.00	1.2992	78.00	3.0709	1.53	0.0603	8.00	0.3150	1	
					4	● MDW0740GS4	33.90	1.3346	45.00	1.7717	90.00	3.5433					1	
7.49	0.2950	M		5/16-24	2	● MDW02950GS2	21.77	0.8569	33.00	1.2992	78.00	3.0709	1.55	0.0610	7.94	0.3125	1	
					4	● MDW02950GS4	33.77	1.3293	45.00	1.7717	90.00	3.5433					1	
7.50	0.2953		M8x.5		2	● MDW0750GS2	21.75	0.8563	33.00	1.2992	78.00	3.0709	1.55	0.0612	8.00	0.3150	1	
					4	● MDW0750GS4	33.75	1.3287	45.00	1.7717	90.00	3.5433					1	
7.54	0.2969		M8x1		2	● MDW02969GS2	24.69	0.9720	36.00	1.4173	78.00	3.0709	1.56	0.0615	7.94	0.3125	1	
					4	● MDW02969GS4	36.69	1.4445	48.00	1.8898	90.00	3.5433					1	
7.60	0.2992				2	● MDW0760GS2	24.60	0.9685	36.00	1.4173	78.00	3.0709	1.57	0.0620	8.00	0.3150	1	
					4	● MDW0760GS4	36.60	1.4409	48.00	1.8898	90.00	3.5433					1	
7.67	0.3020	N		M8x.75	2	● MDW03020GS2	24.50	0.9644	36.00	1.4173	78.00	3.0709	1.59	0.0625	7.94	0.3125	1	
					4	● MDW03020GS4	36.50	1.4368	48.00	1.8898	90.00	3.5433					1	
7.70	0.3031				2	● MDW0770GS2	24.45	0.9626	36.00	1.4173	78.00	3.0709	1.59	0.0628	8.00	0.3150	1	
					4	● MDW0770GS4	36.45	1.4350	48.00	1.8898	90.00	3.5433					1	
7.80	0.3071		M9x1.25		2	● MDW0780GS2	24.30	0.9567	36.00	1.4173	78.00	3.0709	1.62	0.0636	8.00	0.3150	1	
					4	● MDW0780GS4	36.30	1.4291	48.00	1.8898	90.00	3.5433					1	
7.90	0.3110				2	● MDW0790GS2	24.15	0.9508	36.00	1.4173	78.00	3.0709	1.64	0.0644	8.00	0.3150	1	
					4	● MDW0790GS4	36.15	1.4232	48.00	1.8898	90.00	3.5433					1	
7.94	0.3125	5/16			2	● MDW03125GS2	24.09	0.9484	36.00	1.4173	78.00	3.0709	1.64	0.0647	7.94	0.3125	1	
					4	● MDW03125GS4	36.09	1.4209	48.00	1.8898	90.00	3.5433					1	
8.00	0.3150				2	● MDW0800GS2	24.00	0.9449	36.00	1.4173	78.00	3.0709	1.66	0.0652	8.00	0.3150	1	
					4	● MDW0800GS4	36.00	1.4173	48.00	1.8898	90.00	3.5433					1	
8.03	0.3160	O			2	● MDW03160GS2	23.96	0.9431	36.00	1.4173	82.00	3.2283	1.66	0.0652	9.13	0.3594	1	
					4	● MDW03160GS4	40.96	1.6124	53.00	2.0866	98.00	3.8583					1	
8.10	0.3189		M9x1		2	● MDW0810GS2	23.85	0.9390	36.00	1.4173	82.00	3.2283	1.68	0.0660	9.00	0.3543	1	
					4	● MDW0810GS4	40.85	1.6083	53.00	2.0866	98.00	3.8583					1	
8.20	0.3228				2	● MDW0820GS2	23.70	0.9331	36.00	1.4173	82.00	3.2283	1.70	0.0669	9.00	0.3543	1	
					4	● MDW0820GS4	40.70	1.6024	53.00	2.0866	98.00	3.8583					1	
	0.3230	P			2	● MDW03230GS2	23.69	0.9328	36.00	1.4173	82.00	3.2283					1	
					4	● MDW03230GS4	40.69	1.6021	53.00	2.0866	98.00	3.8583	1.70	0.0669	9.13	0.3594	1	
8.30	0.3268				2	● MDW0830GS2	23.55	0.9272	36.00	1.4173	82.00	3.2283	1.72	0.0677	9.00	0.3543	1	
					4	● MDW0830GS4	40.55	1.5965	53.00	2.0866	98.00	3.8583					1	
8.33	0.3281	21/64	M7x1		2	● MDW03281GS2	23.51	0.9254	36.00	1.4173	82.00	3.2283	1.73	0.0680	9.13	0.3594	1	
					4	● MDW03281GS4	40.51	1.5947	53.00	2.0866	98.00	3.8583					1	
8.40	0.3307				2	● MDW03307GS2	23.40	0.9213	36.00	1.4173	82.00	3.2283	1.74	0.0685		9.13	0.3594	1
					2	● MDW0840GS2	23.40	0.9213	36.00	1.4173	82.00	3.2283						1
					4	● MDW0840GS4	40.40	1.5906	53.00	2.0866	98.00	3.8583						1
8.43	0.3320	Q		M9x1.25	2	● MDW03320GS2	23.36	0.9195	36.00	1.4173	82.00	3.2283	1.75	0.0688	9.13	0.3594	1	
					4	● MDW03320GS4	40.36	1.5888	53.00	2.0866	98.00	3.8583					1	
8.50	0.3346				2	● MDW0850GS2	23.25	0.9154	36.00	1.4173	82.00	3.2283	1.76	0.0693	9.00	0.3543	1	
					4	● MDW0850GS4	40.25	1.5846	53.00	2.0866	98.00	3.8583					1	
8.60	0.3386		M10x1.5	M9x.75	2	● MDW03386GS2	25.10	0.9882	38.00	1.4961	82.00	3.2283	1.78	0.0701		9.13	0.3594	1
					2	● MDW0860GS2	25.10	0.9882	38.00	1.4961	82.00	3.2283						1
					4	● MDW0860GS4	42.10	1.6575	55.00	2.1654	98.00	3.8583						1
8.61	0.3390	R			2	● MDW03390GS2	25.09	0.9876	38.00	1.4961	82.00	3.2283	1.80	0.0709	9.13	0.3594	1	
					4	● MDW03390GS4	42.09	1.6569	55.00	2.1654	98.00	3.8583					1	

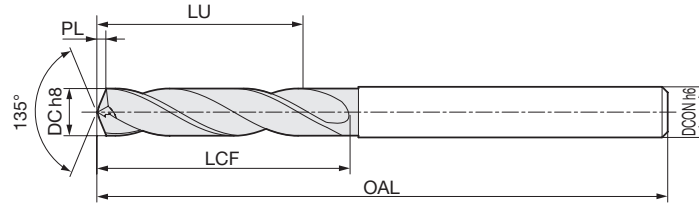
Fig 1



Diameter $\varnothing 9.30$ to 11.20mm (0.3661" - 0.4409") Dimensions (inch/mm)

Dia. DC			Cut Tap Size	Roll Form Tap Size	Hole Depth (L/D)	Stock	Cat. No.	Effective Length LU		Flute Length LCF		Overall Length OAL		Tip PL		Shank Dia. DCON		Fig
mm	in.	Fraction						mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
8.70	0.3425			3/8-16	2	●	MDW0870GS2	24.95	0.9823	38.00	1.4961	82.00	3.2283	1.80	0.0709	9.00	0.3543	1
					4	●	MDW0870GS4	41.95	1.6516	55.00	2.1654	98.00	3.8583					1
8.73	0.3438	11/32			2	●	MDW03438GS2	24.91	0.9805	38.00	1.4961	82.00	3.2283	1.81	0.0712	9.13	0.3594	1
					4	●	MDW03438GS4	41.91	1.6498	55.00	2.1654	98.00	3.8583					1
8.80	0.3465				2	●	MDW0880GS2	24.80	0.9764	38.00	1.4961	82.00	3.2283	1.82	0.0718	9.00	0.3543	1
					4	●	MDW0880GS4	41.80	1.6457	55.00	2.1654	98.00	3.8583					1
8.83	0.3475				2	●	MDW03475GS2	24.76	0.9746	38.00	1.4961	82.00	3.2283	1.80	0.0709	9.13	0.3594	1
8.84	0.3480	S			2	●	MDW03480GS2	24.74	0.9740	38.00	1.4961	82.00	3.2283	1.80	0.0709	9.13	0.3594	1
					4	●	MDW03480GS4	41.74	1.6433	55.00	2.1654	98.00	3.8583					1
8.90	0.3504		M10x1.25		2	●	MDW0890GS2	24.65	0.9705	38.00	1.4961	82.00	3.2283	1.84	0.0726	9.00	0.3543	1
					4	●	MDW0890GS4	41.65	1.6398	55.00	2.1654	98.00	3.8583					1
9.00	0.3543				2	●	MDW0900GS2	24.50	0.9646	38.00	1.4961	82.00	3.2283	1.86	0.0734	9.00	0.3543	1
					4	●	MDW0900GS4	41.50	1.6339	55.00	2.1654	98.00	3.8583					1
9.09	0.3580	T			2	●	MDW03580GS2	24.37	0.9593	38.00	1.4961	82.00	3.2283	1.86	0.0734	9.13	0.3594	1
					4	●	MDW03580GS4	41.37	1.6285	55.00	2.1654	98.00	3.8583					1
9.10	0.3583				2	●	MDW0910GS2	24.35	0.9587	38.00	1.4961	87.00	3.4252	1.88	0.0742	10.00	0.3937	1
					4	●	MDW0910GS4	44.35	1.7461	58.00	2.2835	105.00	4.1339					1
9.13	0.3594	23/64	M10x1	3/8-24	2	●	MDW03594GS2	24.31	0.9569	38.00	1.4961	82.00	3.2283	1.89	0.0744	9.13	0.3594	1
					4	●	MDW03594GS4	41.31	1.6262	55.00	2.1654	98.00	3.8583					1
9.20	0.3622				2	●	MDW0920GS2	24.20	0.9528	38.00	1.4961	87.00	3.4252	1.91	0.0750	10.00	0.3937	1
					4	●	MDW0920GS4	44.20	1.7402	58.00	2.2835	105.00	4.1339					1
9.30	0.3661				2	●	MDW0930GS2	24.05	0.9469	38.00	1.4961	87.00	3.4252	1.93	0.0758	10.00	0.3937	1
					4	●	MDW0930GS4	44.05	1.7343	58.00	2.2835	105.00	4.1339					1
9.35	0.3680	U	7/16-14	M10x1.5	2	●	MDW03680GS2	23.98	0.9439	38.00	1.4961	87.00	3.4252	1.94	0.0762	9.92	0.3906	1
					4	●	MDW03680GS4	43.98	1.7313	58.00	2.2835	105.00	4.1339					1
9.40	0.3701				2	●	MDW0940GS2	23.90	0.9409	38.00	1.4961	87.00	3.4252	1.95	0.0766	10.00	0.3937	1
					4	●	MDW0940GS4	43.90	1.7283	58.00	2.2835	105.00	4.1339					1
9.50	0.3740			M10x1.25	2	●	MDW0950GS2	23.75	0.9350	38.00	1.4961	87.00	3.4252	1.97	0.0775	10.00	0.3937	1
					4	●	MDW0950GS4	43.75	1.7224	58.00	2.2835	105.00	4.1339					1
9.53	0.3750	3/8			2	●	MDW03750GS2	26.71	1.0514	41.00	1.6142	87.00	3.4252	1.97	0.0777	9.92	0.3906	1
					4	●	MDW03750GS4	45.71	1.7994	60.00	2.3622	105.00	4.1339					1
9.58	0.3770	V		M10x1	2	●	MDW03770GS2	26.63	1.0484	41.00	1.6142	87.00	3.4252	1.98	0.0781	9.92	0.3906	1
					4	●	MDW03770GS4	45.63	1.7965	60.00	2.3622	105.00	4.1339					1
					2	●	MDW03780GS2	26.60	1.0472	41.00	1.6142	87.00	3.4252			9.92	0.3906	1
9.60	0.3780				2	●	MDW0960GS2	26.60	1.0472	41.00	1.6142	87.00	3.4252	1.99	0.0783	10.00	0.3937	1
					4	●	MDW0960GS4	45.60	1.7953	60.00	2.3622	105.00	4.1339					1
9.70	0.3819			M10x.75	2	●	MDW0970GS2	26.45	1.0413	41.00	1.6142	87.00	3.4252	2.01	0.0791	10.00	0.3937	1
					4	●	MDW0970GS4	45.45	1.7894	60.00	2.3622	105.00	4.1339					1
	0.3858				2	●	MDW0980GS2	26.30	1.0354	41.00	1.6142	87.00	3.4252			10.00	0.3937	1
					4	●	MDW0980GS4	45.30	1.7835	60.00	2.3622	105.00	4.1339					1
9.80	0.3860	W			2	●	MDW03860GS2	26.29	1.0352	41.00	1.6142	87.00	3.4252	2.03	0.0799	9.92	0.3906	1
					4	●	MDW03860GS4	45.29	1.7832	60.00	2.3622	105.00	4.1339					1
9.90	0.3898				2	●	MDW0990GS2	26.15	1.0295	41.00	1.6142	87.00	3.4252	2.05	0.0807	10.00	0.3937	1
					4	●	MDW0990GS4	45.15	1.7776	60.00	2.3622	105.00	4.1339					1
9.92	0.3906	25/64	7/16-20		2	●	MDW03906GS2	26.12	1.0283	41.00	1.6142	87.00	3.4252	2.05	0.0809	9.92	0.3906	1
					4	●	MDW03906GS4	45.12	1.7764	60.00	2.3622	105.00	4.1339					1
10.00	0.3937				2	●	MDW1000GS2	26.00	1.0236	41.00	1.6142	87.00	3.4252	2.07	0.0827	10.00	0.3937	1
					4	●	MDW1000GS4	45.00	1.7717	60.00	2.3622	105.00	4.1339					1
10.08	0.3970	X			2	●	MDW03970GS2	25.88	1.0189	41.00	1.6142	93.00	3.6614	2.10	0.0827	11.11	0.4375	1
					4	●	MDW03970GS4	50.88	2.0031	66.00	2.5984	114.00	4.4882					1
10.10	0.3976		M11x1		2	●	MDW1010GS2	25.85	1.0177	41.00	1.6142	93.00	3.6614	2.09	0.0830	11.00	0.4331	1
					4	●	MDW1010GS4	50.85	2.0020	66.00	2.5984	114.00	4.4882					1
10.20	0.4016				2	●	MDW1020GS2	25.70	1.0118	41.00	1.6142	93.00	3.6614	2.11	0.0832	11.00	0.4331	1
					4	●	MDW1020GS4	50.70	1.9961	66.00	2.5984	114.00	4.4882					1
10.26	0.4040	Y	7/16-14		2	●	MDW04040GS2	25.61	1.0083	41.00	1.6142	93.00	3.6614	2.11	0.0832	11.11	0.4375	1
					4	●	MDW04040GS4	50.61	1.9925	66.00	2.5984	114.00	4.4882					1
10.30	0.4055				2	●	MDW1030GS2	25.55	1.0059	41.00	1.6142	93.00	3.6614	2.13	0.0837	11.00	0.4331	1
					4	●	MDW1030GS4	50.55	1.9902	66.00	2.5984	114.00	4.4882					1
10.32	0.4062	13/32		M11x1.5	2	●	MDW04062GS2	25.52	1.0047	41.00	1.6142	93.00	3.6614	2.14	0.0841	11.11	0.4375	1
					4	●	MDW04062GS4	50.52	1.9890	66.00	2.5984	114.00	4.4882					1
10.40	0.4094				2	●	MDW1040GS2	25.40	1.0000	41.00	1.6142	93.00	3.6614	2.14	0.0848	11.00	0.4331	1
					4	●	MDW1040GS4	50.40	1.9843	66.00	2.5984	114.00	4.4882					1
J14 10.49	0.4130	Z	M12x1.75		2	●	MDW04130GS2	25.27	0.9947	41.00	1.6142	93.00	3.6614	2.17	0.0855	11.11	0.4375	1
					4	●	MDW04130GS4	50.27	1.9789	66.00	2.5984	114.00	4.4882					1

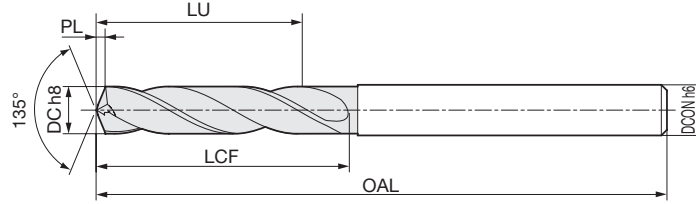
Fig 1



Diameter $\phi 11.30$ to 13.60mm (0.4449" - 0.5354") Dimensions (inch/mm)

Dia. DC		Cut Tap	Roll Form	Hole Depth	Stock	Cat. No.	Effective Length LU		Flute Length LCF		Overall Length OAL		Tip PL		Shank Dia. DCON		Fig
mm	in.	Fraction	Size	Tap Size	(L/D)		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
10.50	0.4134		7/16-20		2	● MDW1050GS2	25.25	0.9941	41.00	1.6142	93.00	3.6614	2.17	0.0856	11.00	0.4331	1
					4	● MDW1050GS4	50.25	1.9783	66.00	2.5984	114.00	4.4882					1
10.60	0.4173			M11x1	2	● MDW1060GS2	29.10	1.1457	45.00	1.7717	93.00	3.6614	2.20	0.0866	11.00	0.4331	1
					4	● MDW1060GS4	52.10	2.0512	68.00	2.6772	114.00	4.4882					1
10.70	0.4213				2	● MDW1070GS2	28.95	1.1398	45.00	1.7717	93.00	3.6614	2.22	0.0872	11.00	0.4331	1
					4	● MDW1070GS4	51.95	2.0453	68.00	2.6772	114.00	4.4882					1
10.72	0.4219	27/64	M12x1.5	M11x1.75	2	● MDW04219GS2	28.92	1.1386	45.00	1.7717	93.00	3.6614	2.22	0.0874	11.11	0.4375	1
					4	● MDW04219GS4	51.92	2.0441	68.00	2.6772	114.00	4.4882					1
10.80	0.4252				2	● MDW1080GS2	28.80	1.1339	45.00	1.7717	93.00	3.6614	2.24	0.0881	11.00	0.4331	1
					4	● MDW1080GS4	51.80	2.0394	68.00	2.6772	114.00	4.4882					1
10.90	0.4291		M12x1.25	7/16-14	2	● MDW1090GS2	28.65	1.1280	45.00	1.7717	93.00	3.6614	2.26	0.0889	11.00	0.4331	1
					4	● MDW1090GS4	51.65	2.0335	68.00	2.6772	114.00	4.4882					1
11.00	0.4331				2	● MDW1100GS2	28.50	1.1220	45.00	1.7717	93.00	3.6614	2.28	0.0897	11.00	0.4331	1
					4	● MDW1100GS4	51.50	2.0276	68.00	2.6772	114.00	4.4882					1
11.10	0.4370		1/2-13		2	● MDW1110GS2	28.35	1.1161	45.00	1.7717	100.00	3.9370	2.30	0.0906	12.00	0.4724	1
					4	● MDW1110GS4	54.35	2.1398	71.00	2.7953	121.00	4.7638					1
11.11	0.4375	7/16	M12x1		2	● MDW04375GS2	28.34	1.1156	45.00	1.7717	93.00	3.6614	2.30	0.0907	11.11	0.4375	1
					4	● MDW04375GS4	54.34	2.1392	71.00	2.7953	114.00	4.4882					1
11.20	0.4409				2	● MDW1120GS2	28.20	1.1102	45.00	1.7717	100.00	3.9370	2.32	0.0913	12.00	0.4724	1
					4	● MDW1120GS4	54.20	2.1339	71.00	2.7953	121.00	4.7638					1
11.30	0.4449		M12x1.5	M12x1.75	2	● MDW1130GS2	28.05	1.1043	45.00	1.7717	100.00	3.9370	2.34	0.0921	12.00	0.4724	1
					4	● MDW1130GS4	54.05	2.1280	71.00	2.7953	121.00	4.7638					1
11.40	0.4488				2	● MDW1140GS2	27.90	1.0984	45.00	1.7717	100.00	3.9370	2.36	0.0930	12.00	0.4724	1
					4	● MDW1140GS4	53.90	2.1220	71.00	2.7953	121.00	4.7638					1
11.50	0.4528		M12x1.25		2	● MDW1150GS2	27.75	1.0925	45.00	1.7717	100.00	3.9370	2.40	0.0945	12.00	0.4724	1
					4	● MDW1150GS4	53.75	2.1161	71.00	2.7953	121.00	4.7638					1
11.51	0.4531	29/64			2	● MDW04531GS2	29.74	1.1707	47.00	1.8504	100.00	3.9370	2.38	0.0938	11.91	0.4688	1
					4	● MDW04531GS4	55.74	2.1943	73.00	2.8740	121.00	4.7638					1
11.60	0.4567		1/2-20	M12x1	2	● MDW1160GS2	29.60	1.1654	47.00	1.8504	100.00	3.9370	2.40	0.0945	12.00	0.4724	1
					4	● MDW1160GS4	55.60	2.1890	73.00	2.8740	121.00	4.7638					1
11.61	0.4570				2	● MDW04570GS2	29.59	1.1648	47.00	1.8504	100.00	3.9370	2.40	0.0945	11.91	0.4688	1
11.70	0.4606				2	● MDW1170GS2	29.45	1.1594	47.00	1.8504	100.00	3.9370	2.42	0.0954	12.00	0.4724	1
					4	● MDW1170GS4	55.45	2.1831	73.00	2.8740	121.00	4.7638					1
11.80	0.4646				2	● MDW1180GS2	29.30	1.1535	47.00	1.8504	100.00	3.9370	2.44	0.0962	12.00	0.4724	1
					4	● MDW1180GS4	55.30	2.1772	73.00	2.8740	121.00	4.7638					1
11.90	0.4685		1/2-13		2	● MDW1190GS2	29.15	1.1476	47.00	1.8504	100.00	3.9370	2.46	0.0970	12.00	0.4724	1
					4	● MDW1190GS4	55.15	2.1713	73.00	2.8740	121.00	4.7638					1
11.91	0.4688	15/32			2	● MDW04688GS2	29.14	1.1470	47.00	1.8504	100.00	3.9370	2.47	0.0971	11.91	0.4688	1
					4	● MDW04688GS4	55.14	2.1707	73.00	2.8740	121.00	4.7638					1
12.00	0.4724				2	● MDW1200GS2	29.00	1.1417	47.00	1.8504	100.00	3.9370	2.49	0.0978	12.00	0.4724	1
					4	● MDW1200GS4	55.00	2.1654	73.00	2.8740	121.00	4.7638					1
12.10	0.4764				2	● MDW1210GS2	28.85	1.1358	47.00	1.8504	100.00	3.9370	2.51	0.0987	13.00	0.5118	1
					4	● MDW1210GS4	57.85	2.2776	76.00	2.9921	137.00	5.3937					1
12.20	0.4803				2	● MDW1220GS2	28.70	1.1299	47.00	1.8504	100.00	3.9370	2.53	0.0984	13.00	0.5118	1
					4	● MDW1220GS4	57.70	2.2717	76.00	2.9921	137.00	5.3937					1
12.30	0.4843				2	● MDW1230GS2	28.55	1.1240	47.00	1.8504	100.00	3.9370	2.55	0.0984	13.00	0.5118	1
					4	● MDW1230GS4	57.55	2.2657	76.00	2.9921	137.00	5.3937					1
12.31	0.4844	31/64			2	● MDW04844GS2	28.54	1.1238	47.00	1.8504	100.00	3.9370	2.56	0.1003	13.10	0.5156	1
					4	● MDW04844GS4	57.54	2.2653	76.00	2.9921	137.00	5.3937					1
12.40	0.4882				2	● MDW1240GS2	28.40	1.1181	47.00	1.8504	100.00	3.9370	2.57	0.1011	13.00	0.5118	1
					4	● MDW1240GS4	57.40	2.2598	76.00	2.9921	137.00	5.3937					1
12.50	0.4921		9/16-12		2	● MDW1250GS2	28.25	1.1122	47.00	1.8504	100.00	3.9370	2.59	0.1019	13.00	0.5118	1
					4	● MDW1250GS4	57.25	2.2539	76.00	2.9921	137.00	5.3937					1
12.60	0.4961				2	● MDW1260GS2	30.10	1.1850	49.00	1.9291	100.00	3.9370	2.61	0.1027	13.00	0.5118	1
					4	● MDW1260GS4	59.10	2.3268	78.00	3.0709	137.00	5.3937					1
12.70	0.5000	1/2	M14x1.5		2	● MDW05000GS2	29.95	1.1791	49.00	1.9291	100.00	3.9370	2.63	0.1036	13.10	0.5156	1
					4	● MDW05000GS4	58.95	2.3209	78.00	3.0709	137.00	5.3937					1
					2	● MDW1270GS2	29.95	1.1791	49.00	1.9291	100.00	3.9370			13.00	0.5118	1
					4	● MDW1270GS4	58.95	2.3209	78.00	3.0709	137.00	5.3937					1
12.80	0.5039				2	● MDW1280GS2	29.80	1.1732	49.00	1.9291	100.00	3.9370	2.65	0.1024	13.00	0.5118	1
					4	● MDW1280GS4	58.80	2.3150	78.00	3.0709	137.00	5.3937					1
12.83	0.5050				2	● MDW05050GS2	29.76	1.1715	49.00	1.9291	100.00	3.9370	2.66	0.1046	13.10	0.5156	1
					4	● MDW05050GS4	58.76	2.3132	78.00	3.0709	137.00	5.3937					1

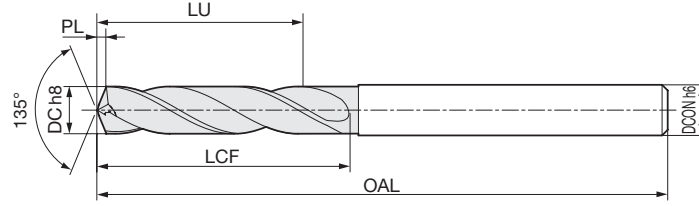
Fig 1



Diameter $\phi 13.70$ to 16.27mm (0.5394" - 0.6406") Dimensions (inch/mm)

Dia. DC			Cut Tap Size	Roll Form Tap Size	Hole Depth (L/D)	Stock	Cat. No.	Effective Length LU		Flute Length LCF		Overall Length OAL		Tip PL		Shank Dia. DCON		Fig
mm	in.	Fraction						mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
12.90	0.5079		M14x1.25		2	●	MDW1290GS2	29.65	1.1673	49.00	1.9291	100.00	3.9370	2.67	0.1052	13.00	0.5118	1
					4	●	MDW1290GS4	58.65	2.3091	78.00	3.0709	137.00	5.3937					1
13.00	0.5118				2	●	MDW1300GS2	29.50	1.1614	49.00	1.9291	100.00	3.9370	2.69	0.1060	13.00	0.5118	1
					4	●	MDW1300GS4	58.50	2.3031	78.00	3.0709	137.00	5.3937					1
13.09	0.5156	33/64			2	●	MDW05156GS2	29.37	1.1561	49.00	1.9291	100.00	3.9370	2.71	0.1068	13.10	0.5156	1
					4	●	MDW05156GS4	58.37	2.2978	78.00	3.0709	137.00	5.3937					1
13.10	0.5157		9/16-18 M14x1	M14x2	2	●	MDW1310GS2	30.35	1.1949	50.00	1.9685	105.00	4.1339	2.71	0.1068	14.00	0.5512	1
					4	●	MDW1310GS4	64.35	2.5335	84.00	3.3071	147.00	5.7874					1
13.20	0.5197				2	●	MDW1320GS2	30.20	1.1890	50.00	1.9685	105.00	4.1339	2.73	0.1076	14.00	0.5512	1
					4	●	MDW1320GS4	64.20	2.5276	84.00	3.3071	147.00	5.7874					1
13.30	0.5236			M14x1.5	2	●	MDW1330GS2	30.05	1.1831	50.00	1.9685	105.00	4.1339	2.75	0.1084	14.00	0.5512	1
					4	●	MDW1330GS4	64.05	2.5217	84.00	3.3071	147.00	5.7874					1
13.40	0.5276			9/16-12 M14x1.25	2	●	MDW1340GS2	29.90	1.1772	50.00	1.9685	105.00	4.1339	2.78	0.1093	14.00	0.5512	1
					4	●	MDW1340GS4	63.90	2.5157	84.00	3.3071	147.00	5.7874					1
13.49	0.5312	17/32	5/8-11	M14x1	2	●	MDW05312GS2	29.77	1.1719	50.00	1.9685	105.00	4.1339	2.79	0.1100	13.89	0.5469	1
					4	●	MDW05312GS4	63.77	2.5104	84.00	3.3071	147.00	5.7874					1
13.50	0.5315				2	●	MDW1350GS2	29.75	1.1713	50.00	1.9685	105.00	4.1339	2.80	0.1102	14.00	0.5512	1
					4	●	MDW1350GS4	63.75	2.5098	84.00	3.3071	147.00	5.7874					1
13.60	0.5354				2	●	MDW1360GS2	31.60	1.2441	52.00	2.0472	105.00	4.1339	2.82	0.1109	14.00	0.5512	1
					4	●	MDW1360GS4	65.60	2.5827	86.00	3.3858	147.00	5.7874					1
13.70	0.5394		M15x1.5	9/16-18	2	●	MDW1370GS2	31.45	1.2382	52.00	2.0472	105.00	4.1339	2.84	0.1117	14.00	0.5512	1
					4	●	MDW1370GS4	65.45	2.5768	86.00	3.3858	147.00	5.7874					1
13.80	0.5433				2	●	MDW1380GS2	31.30	1.2323	52.00	2.0472	105.00	4.1339	2.86	0.1125	14.00	0.5512	1
					4	●	MDW1380GS4	65.30	2.5709	86.00	3.3858	147.00	5.7874					1
13.89	0.5469	35/64	5/8-11		2	●	MDW05469GS2	31.17	1.2270	52.00	2.0472	105.00	4.1339	2.88	0.1133	13.89	0.5469	1
					4	●	MDW05469GS4	65.17	2.5656	86.00	3.3858	147.00	5.7874					1
13.90	0.5472				2	●	MDW1390GS2	31.15	1.2264	52.00	2.0472	105.00	4.1339	2.88	0.1133	14.00	0.5512	1
					4	★	MDW1390GS4	65.15	2.5650	86.00	3.3858	147.00	5.7874					1
14.00	0.5512				2	●	MDW1400GS2	31.00	1.2205	52.00	2.0472	105.00	4.1339	2.90	0.1142	14.00	0.5512	1
					4	●	MDW1400GS4	65.00	2.5591	86.00	3.3858	147.00	5.7874					1
14.10	0.5551		M15x1		2	●	MDW1410GS2	30.85	1.2146	52.00	2.0472	108.00	4.2520	2.92	0.1149	15.00	0.5906	1
					4	●	MDW1410GS4	67.85	2.6713	89.00	3.5039	153.00	6.0236					1
14.20	0.5591				2	●	MDW1420GS2	30.70	1.2087	52.00	2.0472	108.00	4.2520	2.94	0.1158	15.00	0.5906	1
					4	●	MDW1420GS4	67.70	2.6654	89.00	3.5039	153.00	6.0236					1
14.29	0.5625	9/16	M16x2	M15x1.5	2	●	MDW05625GS2	30.57	1.2033	52.00	2.0472	108.00	4.2520	2.96	0.1166	15.08	0.5937	1
					4	●	MDW05625GS4	67.57	2.6600	89.00	3.5039	153.00	6.0236					1
14.30	0.5630				2	●	MDW1430GS2	30.55	1.2028	52.00	2.0472	108.00	4.2520	2.96	0.1166	15.00	0.5906	1
					4	●	MDW1430GS4	67.55	2.6594	89.00	3.5039	153.00	6.0236					1
14.40	0.5669				2	●	MDW1440GS2	30.40	1.1969	52.00	2.0472	108.00	4.2520	2.98	0.1174	15.00	0.5906	1
					4	●	MDW1440GS4	67.40	2.6535	89.00	3.5039	153.00	6.0236					1
14.50	0.5709			M15x1	2	●	MDW1450GS2	30.25	1.1909	52.00	2.0472	108.00	4.2520	3.00	0.1181	15.00	0.5906	1
					4	●	MDW1450GS4	67.25	2.6476	89.00	3.5039	153.00	6.0236					1
14.60	0.5748				2	●	MDW1460GS2	31.10	1.2244	53.00	2.0866	108.00	4.2520	3.02	0.1190	15.00	0.5906	1
					4	●	MDW1460GS4	69.10	2.7205	91.00	3.5827	153.00	6.0236					1
14.68	0.5781	37/64	5/8-18 M16x1.5		2	●	MDW05781GS2	30.98	1.2197	53.00	2.0866	108.00	4.2520	3.04	0.1197	15.08	0.5937	1
					4	●	MDW05781GS4	68.98	2.7157	91.00	3.5827	153.00	6.0236					1
14.70	0.5787				2	●	MDW1470GS2	30.95	1.2185	53.00	2.0866	108.00	4.2520	3.04	0.1199	15.00	0.5906	1
					4	●	MDW1470GS4	68.95	2.7146	91.00	3.5827	153.00	6.0236					1
14.80	0.5827				2	●	MDW1480GS2	30.80	1.2126	53.00	2.0866	108.00	4.2520	3.07	0.1207	15.00	0.5906	1
					4	●	MDW1480GS4	68.80	2.7087	91.00	3.5827	153.00	6.0236					1
14.90	0.5866			5/8-11	2	●	MDW1490GS2	30.65	1.2067	53.00	2.0866	108.00	4.2520	3.09	0.1215	15.00	0.5906	1
					4	●	MDW1490GS4	68.65	2.7028	91.00	3.5827	153.00	6.0236					1
15.00	0.5906				2	●	MDW1500GS2	30.50	1.2008	53.00	2.0866	108.00	4.2520	3.11	0.1223	15.00	0.5906	1
					4	●	MDW1500GS4	68.50	2.6969	91.00	3.5827	153.00	6.0236					1
15.08	0.5937	19/32	M16x1	M16x2	2	●	MDW05937GS2	30.38	1.1961	53.00	2.0866	108.00	4.2520	3.12	0.1230	15.08	0.5937	1
					4	●	MDW05937GS4	68.38	2.6921	91.00	3.5827	153.00	6.0236					1
15.10	0.5945				2	●	MDW1510GS2	30.35	1.1949	53.00	2.0866	112.00	4.4094	3.13	0.1231	16.00	0.6299	1
					4	●	MDW1510GS4	71.35	2.8091	94.00	3.7008	160.00	6.2992					1
15.20	0.5984				2	●	MDW1520GS2	30.20	1.1890	53.00	2.0866	112.00	4.4094	3.15	0.1239	16.00	0.6299	1
					4	●	MDW1520GS4	71.20	2.8031	94.00	3.7008	160.00	6.2992					1
15.30	0.6024			5/8-18 M16x1.5	2	●	MDW1530GS2	30.05	1.1831	53.00	2.0866	112.00	4.4094	3.17	0.1248	16.00	0.6299	1
					4	●	MDW1530GS4	71.05	2.7972	94.00	3.7008	160.00	6.2992					1

Fig 1



Diameter $\phi 16.50$ to 20.00mm (0.6496" - 0.7874") Dimensions (inch/mm)

Dia. DC			Cut Tap Size	Roll Form Tap Size	Hole Depth (L/D)	Stock	Cat. No.	Effective Length LU		Flute Length LCF		Overall Length OAL		Tip PL		Shank Dia. DCON		Fig
mm	in.	Fraction						mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
15.40	0.6063				2 4	● ●	MDW1540GS2 MDW1540GS4	29.90 70.90	1.1772 2.7913	53.00 94.00	2.0866 3.7008	112.00 160.00	4.4094 6.2992	3.19	0.1256	16.00	0.6299	1 1
15.48	0.6094	39/64	11/16-12		2 4	● ●	MDW06094GS2 MDW06094GS4	29.78 70.78	1.1724 2.7866	53.00 94.00	2.0866 3.7008	112.00 160.00	4.4094 6.2992	3.21	0.1262	15.88	0.6250	1 1
15.50	0.6102				2 4	● ●	MDW1550GS2 MDW1550GS4	29.75 70.75	1.1713 2.7854	53.00 94.00	2.0866 3.7008	112.00 160.00	4.4094 6.2992	3.21	0.1264	16.00	0.6299	1 1
15.60	0.6142			M16x1	2 4	● ●	MDW1560GS2 MDW1560GS4	31.60 72.60	1.2441 2.8583	55.00 96.00	2.1654 3.7795	112.00 160.00	4.4094 6.2992	3.23	0.1272	16.00	0.6299	1 1
15.70	0.6181		M18x2.5		2 4	● ●	MDW1570GS2 MDW1570GS4	31.45 72.45	1.2382 2.8524	55.00 96.00	2.1654 3.7795	112.00 160.00	4.4094 6.2992	3.25	0.1280	16.00	0.6299	1 1
15.80	0.6220				2 4	● ●	MDW1580GS2 MDW1580GS4	31.30 72.30	1.2323 2.8465	55.00 96.00	2.1654 3.7795	112.00 160.00	4.4094 6.2992	3.27	0.1288	16.00	0.6299	1 1
15.88	0.6250	5/8	11/16-16		2 4	● ●	MDW06250GS2 MDW06250GS4	31.18 72.18	1.2276 2.8417	55.00 96.00	2.1654 3.7795	112.00 160.00	4.4094 6.2992	3.29	0.1294	15.88	0.6250	1 1
15.90	0.6220 0.6260				2 4	● ●	MDW1590GS2 MDW1590GS4	31.15 72.15	1.2264 2.8406	55.00 96.00	2.1654 3.7795	112.00 160.00	4.4094 6.2992	3.29	0.1296	16.00	0.6299	1 1
16.00	0.6299				2 4	● ●	MDW1600GS2 MDW1600GS4	31.00 72.00	1.2205 2.8346	55.00 96.00	2.1654 3.7795	112.00 160.00	4.4094 6.2992	3.31	0.1329	16.00	0.6299	1 1
16.27	0.6406	41/64			2 4	● ●	MDW06406GS2 MDW06406GS4	31.60 73.59	1.2441 2.8974	55.00 98.00	2.1654 3.8583	116.00 167.00	4.5669 6.5748	3.33	0.1339	17.00	0.6693	1 1
16.50	0.6496			M17x1	2 4	★ ●	MDW1650GS2 MDW1650GS4	31.25 73.25	1.2303 2.8839	56.00 98.00	2.2047 3.8583	116.00 167.00	4.5669 6.5748	3.42	0.1345	17.00	0.6693	1 1
16.67	0.6562	21/32			2 4	● ●	MDW06562GS2 MDW06562GS4	32.00 73.00	1.2597 2.8740	56.00 98.00	2.2047 3.8583	116.00 167.00	4.5669 6.5748	3.45	0.1359	17.00	0.6693	1 1
17.00	0.6693				2 4	★ ★	MDW1700GS2 MDW1700GS4	31.50 72.50	1.2402 2.8543	57.00 98.00	2.2441 3.8583	116.00 167.00	4.5669 6.5748	3.52	0.1386	17.00	0.6693	1 1
17.46	0.6875	5/8			2 4	● ●	MDW06875GS2 MDW06875GS4	31.79 73.81	1.2518 2.9058	57.00 100.00	2.2441 3.9370	120.00 167.00	4.7244 6.5748	3.62	0.1424	18.00	0.7087	1 1
17.50	0.6890			M18x1	2 4	★ ★	MDW1750GS2 MDW1750GS4	31.75 73.75	1.2500 2.9035	58.00 100.00	2.2835 3.9370	120.00 167.00	4.7244 6.5748	3.62	0.1427	18.00	0.7087	1 1
17.86	0.7031	45/64			2 4	● ●	MDW07031GS2 MDW07031GS4	32.22 75.21	1.2684 2.9611	59.00 102.00	2.3228 4.0157	120.00 167.00	4.7244 6.5748	3.70	0.1457	18.00	0.7087	1 1
18.00	0.7087			3/4-10	2 4	★ ●	MDW1800GS2 MDW1800GS4	32.00 75.00	1.2598 2.9528	59.00 102.00	2.3228 4.0157	120.00 167.00	4.7244 6.5748	3.73	0.1468	18.00	0.7087	1 1
18.25	0.7187	23/32			2 4	● ●	MDW07187GS2 MDW07187GS4	31.62 76.62	1.2450 3.0164	59.00 104.00	2.3228 4.0945	123.00 179.00	4.8425 7.0472	3.78	0.1488	19.00	0.7480	1 1
18.50	0.7283				2 4	★ ★	MDW1850GS2 MDW1850GS4	31.25 76.25	1.2303 3.0020	59.00 104.00	2.3228 4.0945	123.00 179.00	4.8425 7.0472	3.83	0.1508	19.00	0.7480	1 1
18.65	0.7344	47/64			2 4	● ●	MDW07344GS2 MDW07344GS4	32.01 78.02	1.2604 3.0716	60.00 106.00	2.3622 4.1732	123.00 179.00	4.8425 7.0472	3.86	0.1521	19.00	0.7480	1 1
19.00	0.7480				2 4	★ ★	MDW1900GS2 MDW1900GS4	31.50 77.50	1.2402 3.0512	60.00 106.00	2.3622 4.1732	123.00 179.00	4.8425 7.0472	3.91	0.1541	19.00	0.7480	1 1
19.05	0.7500	3/4			2 4	● ●	MDW07500GS2 MDW07500GS4	32.44 81.43	1.2770 3.2057	61.00 110.00	2.4016 4.3307	127.00 179.00	5.0000 7.0472	3.95	0.1553	20.00	0.7874	1 1
19.50	0.7677				2 4	★ ★	MDW1950GS2 MDW1950GS4	31.75 80.75	1.2500 3.1791	61.00 110.00	2.4016 4.3307	127.00 179.00	5.0000 7.0472	4.02	0.1582	20.00	0.7874	1 1
19.84	0.7812	25/32			2 4	● ●	MDW07812GS2 MDW07812GS4	32.24 84.24	1.2692 3.3164	62.00 114.00	2.4409 4.4882	127.00 179.00	5.0000 7.0472	4.11	0.1618	20.00	0.7874	1 1
20.00	0.7874				2 4	★ ★	MDW2000GS2 MDW2000GS4	32.00 84.00	1.2598 3.3071	62.00 114.00	2.4409 4.4882	127.00 179.00	5.0000 7.0472	4.14	0.1631	20.00	0.7874	1 1



*Refer to N74 for the tolerance of h6 and h8

Drilling

Solid

Indexable Head Type

Indexable Insert Type

Reamers

Brazed

Others

Fig. 1 (diameter ø1.5 to 2.4mm 0.059"-0.095", single margin)

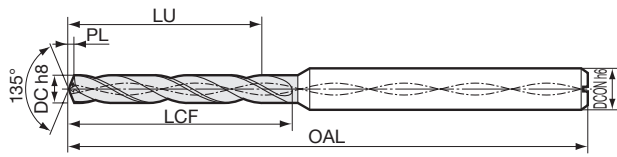
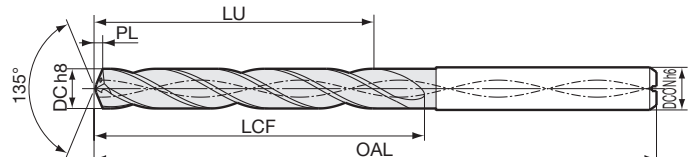


Fig. 2 (diameter ø2.5 to 20.0mm 0.098"-0.787", double margin)



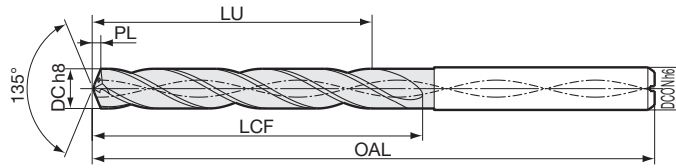
Diameter ø1.50 to 2.82mm (0.0591" to 0.1110") Dimensions (inch/mm)

Dia. DC			Cut Tap Size	Roll Form Tap Size	Hole Depth (L/D)	Stock	Cat. No.	Effective Length LU		Flute Length LCF		Overall Length OAL		Tip PL		Shank Dia. DCON		Fig
mm	in.	Fraction						mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
1.50	0.0591				3	●	MDW0150HGS3	8.10	0.3189	10.31	0.4059	63.31	2.4925	0.30	0.0118	3.00	0.1181	1
					5	●	MDW0150HGS5	12.10	0.4764	14.31	0.5634	70.31	2.7681					1
					8	●	MDW0150HGS8	16.60	0.6535	18.81	0.7406	76.31	3.0044					1
1.59	0.0625	1/16	M2x.4	M1.7x.35	3	●	MDW00625HGS3S	8.33	0.3281	12.83	0.5051	63.33	2.4933	0.33	0.0130	3.00	0.1181	1
					5	●	MDW00625HGS5S	12.67	0.4987	19.33	0.7610	70.33	2.7689					1
					8	●	MDW0160HGS3	10.40	0.4094	12.83	0.5052	63.33	2.4934					1
1.60	0.0630				3	●	MDW0160HGS3	10.40	0.4094	12.83	0.5052	63.33	2.4934	0.33	0.0130	3.00	0.1181	1
					5	●	MDW0160HGS5	16.90	0.6654	19.33	0.7611	70.33	2.7690					1
					8	★	MDW0160HGS8	21.90	0.8622	24.33	0.9579	76.33	3.0052					1
1.70	0.0669			1-64	3	●	MDW0170HGS3	10.40	0.4094	12.85	0.5060	63.35	2.4942	0.35	0.0139	3.00	0.1181	1
					5	●	MDW0170HGS5	16.90	0.6654	19.35	0.7619	70.35	2.7698					1
					8	★	MDW0170HGS8	21.90	0.8622	24.35	0.9587	76.35	3.0060					1
1.80	0.0709				3	●	MDW0180HGS3	10.20	0.4016	12.87	0.5068	63.37	2.4950	0.37	0.0147	3.00	0.1181	1
					5	●	MDW0180HGS5	16.70	0.6575	19.37	0.7627	70.37	2.7706					1
					8	★	MDW0180HGS8	21.70	0.8543	24.37	0.9596	76.37	3.0068					1
1.85	0.0730	#49	2-56	M2x.4	3	●	MDW00730HGS3S	8.33	0.3281	12.88	0.5072	63.38	2.4954	0.38	0.0150	3.00	0.1181	1
					5	●	MDW00730HGS5S	12.67	0.4987	19.38	0.7631	70.38	2.7710					1
					8	●	MDW0190HGS3	10.10	0.3976	12.89	0.5076	63.39	2.4958					1
1.90	0.0748				3	●	MDW0190HGS3	10.10	0.3976	12.89	0.5076	63.39	2.4958	0.39	0.0155	3.00	0.1181	1
					5	●	MDW0190HGS5	16.60	0.6535	19.39	0.7635	70.39	2.7714					1
					8	★	MDW0190HGS8	21.60	0.8504	24.39	0.9604	76.39	3.0076					1
2.00	0.0787			2-56 2-64	3	●	MDW0200HGS3	9.90	0.3898	12.91	0.5084	63.41	2.4966	0.41	0.0163	3.00	0.1181	1
					5	●	MDW0200HGS5	16.40	0.6457	19.41	0.7643	70.41	2.7722					1
					8	●	MDW0200HGS8	21.40	0.8425	24.41	0.9612	76.41	3.0084					1
2.06	0.0810	#46	3-48 M2.5x.45	2-64	3	●	MDW00810HGS3S	10.00	0.3937	15.43	0.6073	68.43	2.6940	0.43	0.0169	3.00	0.1181	1
					5	●	MDW00810HGS5S	16.00	0.6299	24.43	0.9617	78.43	3.0877					1
					8	●	MDW0210HGS3	12.30	0.4843	15.43	0.6077	68.43	2.6943					1
2.10	0.0827		3-56		3	●	MDW0210HGS3	12.30	0.4843	15.43	0.6077	68.43	2.6943	0.43	0.0171	3.00	0.1181	1
					5	●	MDW0210HGS5	21.30	0.8386	24.43	0.9620	78.43	3.0880					1
					8	★	MDW0210HGS8	24.80	0.9764	27.93	1.0998	81.43	3.2061					1
2.20	0.0866				3	●	MDW0220HGS3	12.20	0.4803	15.46	0.6085	68.46	2.6951	0.46	0.0179	3.00	0.1181	1
					5	●	MDW0220HGS5	21.20	0.8346	24.46	0.9628	78.46	3.0888					1
					8	★	MDW0220HGS8	24.70	0.9724	27.96	1.1006	81.46	3.2069					1
2.30	0.0906		4-40	3-48	3	●	MDW0230HGS3	12.10	0.4764	15.48	0.6093	68.48	2.6959	0.48	0.0188	3.00	0.1181	1
					5	●	MDW0230HGS5	21.10	0.8307	24.48	0.9636	78.48	3.0896					1
					8	★	MDW0230HGS8	24.60	0.9685	27.98	1.1014	81.48	3.2077					1
2.38	0.0937	3/32	4-48		3	●	MDW00937HGS3	13.93	0.5484	15.49	0.6100	68.49	2.6966	0.49	0.0194	3.18	0.1250	1
					3	●	MDW00937HGS3S	13.93	0.5484	15.49	0.6100	68.49	2.6966					1
					5	●	MDW00937HGS5	20.43	0.8043	24.49	0.9643	78.49	3.0903					1
					5	●	MDW00937HGS5S	20.43	0.8043	24.49	0.9643	78.49	3.0903					1
					8	●	MDW00937HGS8	23.93	0.9421	27.99	1.1021	81.49	3.2084					1
					8	●	MDW00937HGS8S	23.93	0.9421	27.99	1.1021	81.49	3.2084					1
2.40	0.0945				3	●	MDW0240HGS3	11.90	0.4685	15.50	0.6101	68.50	2.6967	0.50	0.0196	3.00	0.1181	1
					5	●	MDW0240HGS5	20.90	0.8228	24.50	0.9645	78.50	3.0904					1
					8	★	MDW0240HGS8	24.40	0.9606	28.00	1.1022	81.50	3.2085					1
2.50	0.0984		M3x.5		3	●	MDW0250HGS3	11.80	0.4646	15.52	0.6109	68.52	2.6975	0.52	0.0204	3.00	0.1181	2
					5	●	MDW0250HGS5	20.80	0.8189	24.52	0.9653	78.52	3.0913					2
					8	●	MDW0250HGS8	24.30	0.9567	28.02	1.1031	81.52	3.2094					2
2.57	0.1010			4-40	3	●	MDW01010HGS3S	11.67	0.4593	18.03	0.7099	68.53	2.6981	0.53	0.0209	3.00	0.1181	2
					5	●	MDW01010HGS5S	18.67	0.7349	28.53	1.1233	78.53	3.0918					2
					8	●	MDW0260HGS3	14.10	0.5551	18.04	0.7102	68.54	2.6984					2
2.60	0.1024		5-40	4-48	3	●	MDW0260HGS3	14.10	0.5551	18.04	0.7102	68.54	2.6984	0.54	0.0212	3.00	0.1181	2
					5	●	MDW0260HGS5	24.60	0.9685	28.54	1.1236	78.54	3.0921					2
					8	★	MDW0260HGS8	29.60	1.1654	33.54	1.3204	81.54	3.2102					2
2.70	0.1063		5-44 M3x.35		3	●	MDW0270HGS3	14.10	0.5551	18.06	0.7110	68.56	2.6992	0.56	0.0220	3.00	0.1181	2
					5	●	MDW0270HGS5	24.60	0.9685	28.56	1.1244	78.56	3.0929					2
					8	★	MDW0270HGS8	29.60	1.1654	33.56	1.3212	81.56	3.2110					2
2.78	0.1094	7/64		M3x.5	3	●	MDW01094HGS3	13.33	0.5248	18.08	0.7116	68.58	2.6998	0.58	0.0227	3.18	0.1250	2
					3	●	MDW01094HGS3S	13.33	0.5248	18.08	0.7116	68.58	2.6998					2
					5	●	MDW01094HGS5S	23.77	0.9358	28.58	1.1250	78.58	3.0935					2
					8	●	MDW01094HGS8S	28.82	1.1348	33.58	1.3219	81.58	3.2116					2
2.80	0.1102				3	●	MDW0280HGS3	13.90	0.5472	18.08	0.7118	68.58	2.7000	0.58	0.0228	3.00	0.1181	2
					5	●	MDW0280HGS5	24.40	0.9606	28.58	1.1252	78.58	3.0937					2
					8	★	MDW0280HGS8	29.40	1.1575	33.58	1.3220	81.58	3.2118					2
2.82	0.1110	#34	6-32	M3x.5	3	●	MDW01110HGS3S	11.67	0.4593	18.08	0.7120	68.58	2.7002	0.58	0.0230	3.00	0.1181	2
					5	●	MDW01110HGS5S	18.67	0.7349	28.58	1.1254	78.58	3.0939					2



*Refer to N74 for the tolerance of h6 and h8

Fig. 2 (diameter $\phi 2.5$ to 20.0mm 0.098"-0.787", double margin)



Diameter $\phi 2.90$ to 3.86mm (0.1142" to 0.1520") Dimensions (inch/mm)

Dia. DC			Cut Tap Size	Roll Form Tap Size	Hole Depth (L/D)	Stock	Cat. No.	Effective Length LU		Flute Length LCF		Overall Length OAL		Tip PL		Shank Dia. DCON		Fig
mm	in.	Fraction						mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
2.90	0.1142			5-44	3	●	MDW0290HGS3	13.80	0.5433	18.10	0.7126	68.60	2.7008	0.60	0.0236	3.00	0.1181	2
					5	●	MDW0290HGS5	24.30	0.9567	28.60	1.1260	78.60	3.0945					2
					8	★	MDW0290HGS8	29.30	1.1535	33.60	1.3229	81.60	3.2126					2
2.95	0.1160	#32	M3.5x6		3	●	MDW01160HGS3	11.67	0.4593	18.11	0.7130	68.61	2.7012	0.61	0.0240	3.00	0.1181	2
					5	●	MDW01160HGS5	18.67	0.7349	28.61	1.1264	78.61	3.0949					2
					8	★	MDW01160HGS8	24.30	0.9567	33.60	1.3229	81.60	3.2126					2
3.00	0.1181				3	●	MDW0300HGS3	13.60	0.5354	18.12	0.7134	68.62	2.7016	0.62	0.0245	3.00	0.1181	2
					5	●	MDW0300HGS5	24.10	0.9488	28.62	1.1268	78.62	3.0953					2
					8	★	MDW0300HGS8	29.10	1.1457	33.62	1.3237	81.62	3.2134					2
3.10	0.1220				3	●	MDW0310HGS3	16.00	0.6299	20.64	0.8127	72.64	2.8599	0.64	0.0253	4.00	0.1575	2
					5	●	MDW0310HGS5	28.00	1.1024	32.64	1.2851	86.64	3.4111					2
					8	★	MDW0310HGS8	34.50	1.3583	39.14	1.5410	92.64	3.6473					2
3.18	0.1250	1/8		6-32	3	●	MDW01250HGS3	12.73	0.5012	18.16	0.7149	68.66	2.7031	0.66	0.0259	3.18	0.1250	2
					5	●	MDW01250HGS5	23.23	0.9146	28.66	1.1283	78.66	3.0968					2
					8	★	MDW01250HGS8	28.23	1.1114	33.66	1.3251	81.66	3.2149					2
3.20	0.1260			6-40	3	●	MDW0320HGS3	15.90	0.6260	20.66	0.8135	72.66	2.8607	0.66	0.0261	4.00	0.1575	2
					5	●	MDW0320HGS5	27.90	1.0984	32.66	1.2859	86.66	3.4119					2
					8	★	MDW0320HGS8	34.40	1.3543	39.16	1.5418	92.66	3.6481					2
3.26	0.1285	#30	M3.5x6		3	●	MDW01285HGS3S	13.33	0.5249	20.68	0.8140	72.68	2.8612	0.68	0.0266	4.00	0.1575	2
					5	●	MDW01285HGS5S	21.33	0.8399	32.68	1.2864	86.68	3.4124					2
					8	★	MDW01285HGS8S	28.23	1.1114	33.66	1.3251	81.66	3.2149					2
3.30	0.1299				3	●	MDW0330HGS3	15.80	0.6220	20.68	0.8143	72.68	2.8616	0.68	0.0269	4.00	0.1575	2
					5	●	MDW0330HGS5	27.80	1.0945	32.68	1.2868	86.68	3.4127					2
					8	★	MDW0330HGS8	34.30	1.3504	39.18	1.5427	92.68	3.6490					2
3.40	0.1339		M4x.7		3	●	MDW0340HGS3	15.60	0.6142	20.70	0.8151	72.70	2.8624	0.70	0.0276	4.00	0.1575	2
					5	●	MDW0340HGS5	27.60	1.0866	32.70	1.2876	86.70	3.4135					2
					8	★	MDW0340HGS8	34.10	1.3425	39.20	1.5435	92.70	3.6498					2
3.45	0.1360	#29	8-32		3	●	MDW01360HGS3S	13.33	0.5249	20.71	0.8155	72.71	2.8628	0.72	0.0282	4.00	0.1575	2
					5	●	MDW01360HGS5S	21.33	0.8399	32.71	1.2880	86.71	3.4140					2
					8	★	MDW01360HGS8S	28.23	1.1114	33.66	1.3251	81.66	3.2149					2
3.50	0.1378				3	●	MDW0350HGS3	15.50	0.6102	20.72	0.8159	72.72	2.8632	0.72	0.0285	4.00	0.1575	2
					5	●	MDW0350HGS5	27.50	1.0827	32.72	1.2884	86.72	3.4144					2
					8	★	MDW0350HGS8	34.00	1.3386	39.22	1.5443	92.72	3.6506					2
3.57	0.1405	#28	8-36		3	●	MDW01405HGS3S	15.00	0.5906	23.24	0.9149	72.74	2.8638	0.74	0.0291	4.00	0.1575	2
					5	●	MDW01405HGS5S	24.00	0.9449	36.74	1.4464	86.74	3.4149					2
					8	★	MDW01405HGS8S	31.30	1.2323	36.77	1.4475	86.77	3.4160					2
3.60	0.1417				3	●	MDW0360HGS3	17.80	0.7008	23.25	0.9152	72.75	2.8640	0.75	0.0294	4.00	0.1575	2
					5	●	MDW0360HGS5	31.30	1.2323	36.77	1.4475	86.77	3.4160					2
					8	★	MDW0360HGS8	39.30	1.5472	44.75	1.7616	92.75	3.6514					2
3.66	0.1440	#27	M4x.7		3	●	MDW01440HGS3S	15.00	0.5906	23.26	0.9157	72.76	2.8645	0.76	0.0298	4.00	0.1575	2
					5	●	MDW01440HGS5S	24.00	0.9449	36.76	1.4472	86.76	3.4157					2
					8	★	MDW01440HGS8S	31.30	1.2323	36.77	1.4475	86.77	3.4160					2
3.70	0.1457		M4.5x.7		3	●	MDW0370HGS3	17.80	0.7008	23.27	0.9160	72.77	2.8648	0.77	0.0302	4.00	0.1575	2
					5	●	MDW0370HGS5	31.30	1.2323	36.77	1.4475	86.77	3.4160					2
					8	★	MDW0370HGS8	39.30	1.5472	44.77	1.7625	92.77	3.6522					2
3.80	0.1496			8-32	3	●	MDW0380HGS3	17.60	0.6929	23.29	0.9168	72.79	2.8656	0.79	0.0310	4.00	0.1575	2
					5	●	MDW0380HGS5	31.10	1.2244	36.79	1.4483	86.79	3.4168					2
					8	★	MDW0380HGS8	39.10	1.5394	44.79	1.7633	92.79	3.6530					2
3.86	0.1520	#24	10-24	8-32	3	●	MDW01520HGS3S	15.00	0.5906	23.30	0.9173	72.80	2.8661	0.80	0.0315	4.00	0.1575	2
					5	●	MDW01520HGS5S	24.00	0.9449	36.80	1.4488	86.80	3.4173					2
					8	★	MDW01520HGS8S	31.30	1.2323	36.77	1.4475	86.77	3.4160					2

Tap Size values fall between 55% and 75% of thread engagement, and should be adjusted according to application

Drilling

Solid

Indexable Head Type

Indexable Insert Type

Reamers

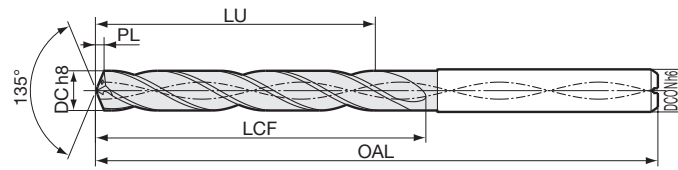
Brazed

Others



*Refer to N74 for the tolerance of h6 and h8

Fig. 2 (diameter $\phi 2.5$ to 20.0mm $0.098''$ - $0.787''$, double margin)



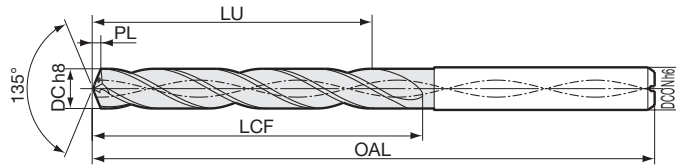
Diameter $\phi 3.90$ to 4.50mm ($0.1535''$ to $0.1772''$) Dimensions (inch/mm)

Dia. DC			Cut Tap Size	Roll Form Tap Size	Hole Depth (L/D)	Stock	Cat. No.	Effective Length LU		Flute Length LCF		Overall Length OAL		Tip PL		Shank Dia. DCON		Fig
mm	in.	Fraction						mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
3.90	0.1535				3	●	MDW0390HGS3	17.50	0.6890	23.31	0.9176	72.81	2.8664	0.81	0.0318	4.00	0.1575	2
					5	●	MDW0390HGS5	31.00	1.2205	36.81	1.4491	86.81	3.4176					2
					8	★	MDW0390HGS8	39.00	1.5354	44.81	1.7641	92.81	3.6538					2
					8	●	MDW0390HGS8S	39.00	1.5354	44.81	1.7641	92.81	3.6538			6.00	0.2362	2
3.91	0.1540	#23			3	●	MDW01540HGS3S	15.00	0.5906	23.31	0.9177	72.81	2.8665	0.81	0.0319	4.00	0.1575	2
					5	●	MDW01540HGS5S	24.00	0.9449	36.81	1.4492	86.81	3.4177					2
3.97	0.1562	5/32			3	●	MDW01562HGS3	16.55	0.6515	23.32	0.9182	72.82	2.8670	0.82	0.0326	3.97	0.1562	2
					3	●	MDW01562HGS3S	16.55	0.6515	23.32	0.9182	72.82	2.8670					4.00
					5	●	MDW01562HGS5	30.05	1.1830	36.82	1.4497	86.82	3.4182			3.97	0.1562	2
					5	●	MDW01562HGS5S	30.05	1.1830	36.82	1.4497	86.82	3.4182			4.00	0.1575	2
					8	●	MDW01562HGS8	38.05	1.4980	44.82	1.7647	92.82	3.6544			3.97	0.1562	2
					8	●	MDW01562HGS8S	38.05	1.4979	44.82	1.7647	92.82	3.6544			4.00	0.1575	2
4.00	0.1575				3	●	MDW0400HGS3	17.30	0.6811	23.33	0.9184	72.83	2.8673	0.83	0.0315	4.00	0.1575	2
					3	●	MDW0400HGS3S	17.30	0.6811	23.33	0.9184	72.83	2.8673					6.00
					5	●	MDW0400HGS5	30.80	1.2126	36.83	1.4499	86.83	3.4184			4.00	0.1575	2
					5	●	MDW0400HGS5S	30.80	1.2126	36.83	1.4499	86.83	3.4184			6.00	0.2362	2
					8	●	MDW0400HGS8	38.80	1.5276	44.83	1.7649	92.83	3.6547			4.00	0.1575	2
					8	●	MDW0400HGS8S	38.80	1.5276	44.83	1.7649	92.83	3.6547			6.00	0.2362	2
4.04	0.1590	#21	10-32		3	●	MDW01590HGS3	18.94	0.7458	25.84	1.0172	80.84	3.1825	0.84	0.0329	4.76	0.1875	2
					3	●	MDW01590HGS3S	18.94	0.7458	25.84	1.0172	80.84	3.1825					6.00
					5	●	MDW01590HGS5	33.94	1.3363	40.84	1.6077	98.84	3.8912			4.76	0.1875	2
					5	●	MDW01590HGS5S	33.94	1.3363	40.84	1.6077	98.84	3.8912			6.00	0.2362	2
					8	●	MDW01590HGS8	43.44	1.7103	50.34	1.9818	105.84	4.1668			4.76	0.1875	2
					8	●	MDW01590HGS8S	43.44	1.7102	50.34	1.9818	105.84	4.1668			6.00	0.2362	2
4.10	0.1614				3	●	MDW0410HGS3	19.70	0.7756	25.85	1.0177	80.85	3.1830	0.85	0.0334	5.00	0.1969	2
					3	●	MDW0410HGS3S	19.70	0.7756	25.85	1.0177	80.85	3.1830					6.00
					5	●	MDW0410HGS5	34.70	1.3661	40.85	1.6082	98.85	3.8917			5.00	0.1969	2
					5	●	MDW0410HGS5S	34.70	1.3661	40.85	1.6082	98.85	3.8917			6.00	0.2362	2
					8	●	MDW0410HGS8	44.20	1.7402	50.35	1.9822	105.85	4.1673			5.00	0.1969	2
					8	●	MDW0410HGS8S	44.20	1.7402	50.35	1.9822	105.85	4.1673			6.00	0.2362	2
4.20	0.1654				3	●	MDW0420HGS3	19.60	0.7717	25.87	1.0185	80.87	3.1839	0.87	0.0342	5.00	0.1969	2
					3	●	MDW0420HGS3S	19.60	0.7717	25.87	1.0185	80.87	3.1839					6.00
					5	●	MDW0420HGS5	34.60	1.3622	40.87	1.6090	98.87	3.8925			5.00	0.1969	2
					5	●	MDW0420HGS5S	34.60	1.3622	40.87	1.6090	98.87	3.8925			6.00	0.2362	2
					8	●	MDW0420HGS8	44.10	1.7362	50.37	1.9831	105.87	4.1681			5.00	0.1969	2
					8	●	MDW0420HGS8S	44.10	1.7362	50.37	1.9831	105.87	4.1681			6.00	0.2362	2
4.22	0.1660	#19	M5x.8		3	●	MDW01660HGS3S	16.67	0.6562	25.87	1.0187	80.87	3.1840	0.87	0.0344	6.00	0.2362	2
					5	●	MDW01660HGS5S	26.67	1.0499	40.87	1.6092	98.87	3.8927					2
4.30	0.1693		M5x.8		3	●	MDW0430HGS3	19.50	0.7677	25.89	1.0193	80.89	3.1847	0.89	0.0351	5.00	0.1969	2
					3	●	MDW0430HGS3S	19.50	0.7677	25.89	1.0193	80.89	3.1847					6.00
					5	●	MDW0430HGS5	34.50	1.3583	40.89	1.6099	98.89	3.8933			5.00	0.1969	2
					5	●	MDW0430HGS5S	34.50	1.3583	40.89	1.6099	98.89	3.8933			6.00	0.2362	2
					8	★	MDW0430HGS8	44.00	1.7323	50.39	1.9839	105.89	4.1689			5.00	0.1969	2
					8	●	MDW0430HGS8S	44.00	1.7323	50.39	1.9839	105.89	4.1689			6.00	0.2362	2
4.37	0.1719	11/64		10-24	3	●	MDW01719HGS3	18.45	0.7265	25.91	1.0199	80.91	3.1852	0.90	0.0356	4.76	0.1875	2
					3	●	MDW01719HGS3S	18.45	0.7265	25.91	1.0199	80.91	3.1852					6.00
					5	●	MDW01719HGS5	33.45	1.3170	40.91	1.6104	98.91	3.8939			4.76	0.1875	2
					5	●	MDW01719HGS5S	33.45	1.3170	40.91	1.6104	98.91	3.8939			6.00	0.2362	2
					8	●	MDW01719HGS8	42.95	1.6910	50.41	1.9845	105.91	4.1695			4.76	0.1875	2
					8	●	MDW01719HGS8S	42.94	1.6907	50.41	1.9845	105.91	4.1695			6.00	0.2362	2
4.40	0.1732				3	●	MDW0440HGS3	19.30	0.7598	25.91	1.0201	80.91	3.1855	0.91	0.0359	5.00	0.1969	2
					3	●	MDW0440HGS3S	19.30	0.7598	25.91	1.0201	80.91	3.1855					6.00
					5	●	MDW0440HGS5	34.30	1.3504	40.91	1.6107	98.91	3.8941			5.00	0.1969	2
					5	●	MDW0440HGS5S	34.30	1.3504	40.91	1.6107	98.91	3.8941			6.00	0.2362	2
					8	★	MDW0440HGS8	43.80	1.7244	50.41	1.9847	105.91	4.1697			5.00	0.1969	2
					8	●	MDW0440HGS8S	43.80	1.7244	50.41	1.9847	105.91	4.1697			6.00	0.2362	2
4.50	0.1772		12-24	10-32	3	●	MDW0450HGS3	19.20	0.7559	25.93	1.0209	80.93	3.1863	0.93	0.036	5.00	0.1969	2
					3	●	MDW0450HGS3S	19.20	0.7559	25.93	1.0209	80.93	3.1863					6.00
					5	●	MDW0450HGS5	34.20	1.3465	40.93	1.6115	98.93	3.8950			5.00	0.1969	2
					5	●	MDW0450HGS5S	34.20	1.3465	40.93	1.6115	98.93	3.8950			6.00	0.2362	2
					8	●	MDW0450HGS8	43.70	1.7205	50.43	1.9855	105.93	4.1706			5.00	0.1969	2
					8	●	MDW0450HGS8S	43.70	1.7205	50.43	1.9855	105.93	4.1706			6.00	0.2362	2



*Refer to N74 for the tolerance of h6 and h8

Fig. 2 (diameter $\phi 2.5$ to 20.0mm 0.098"-0.787", double margin)



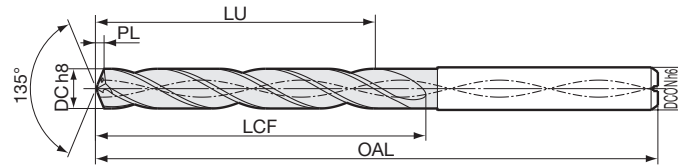
Diameter $\phi 4.57$ to 5.40mm (0.1800" to 0.2126") Dimensions (inch/mm)

Dia. DC			Cut Tap Size	Roll Form Tap Size	Hole Depth (L/D)	Stock	Cat. No.	Effective Length LU		Flute Length LCF		Overall Length OAL		Tip PL		Shank Dia. DCON		Fig
mm	in.	Fraction						mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
4.57	0.1800	#15			3	●	MDW01800HGS3S	18.33	0.7218	28.45	1.1199	80.95	3.1869	0.95	0.0373	6.00	0.2362	2
					5	●	MDW01800HGS5S	29.33	1.1549	44.95	1.7695	98.95	3.8955					2
4.60	0.1811				3	●	MDW0460HGS3	21.60	0.8504	28.45	1.1202	80.95	3.1871	0.95	0.0375	5.00	0.1969	2
					3	●	MDW0460HGS3S	21.60	0.8504	28.45	1.1202	80.95	3.1871					2
					5	●	MDW0460HGS5	38.10	1.5000	44.95	1.7698	98.95	3.8958					2
					5	●	MDW0460HGS5S	38.10	1.5000	44.95	1.7698	98.95	3.8958					2
					8	★	MDW0460HGS8	49.10	1.9331	55.95	2.2029	105.95	4.1714					2
					8	★	MDW0460HGS8S	49.10	1.9331	55.95	2.2029	105.95	4.1714					2
4.62	0.1819		12-28	M5x.8	3	●	MDW01819HGS3	20.57	0.8099	28.46	1.1203	80.96	3.1873	0.96	0.0377	4.76	0.1875	2
					5	●	MDW01819HGS5	37.07	1.4594	44.96	1.7700	98.96	3.8959					2
4.70	0.1850	#13			3	●	MDW0470HGS3	21.50	0.8465	28.47	1.1210	80.97	3.1879	0.97	0.0383	5.00	0.1969	2
					5	●	MDW0470HGS5S	21.50	0.8465	28.47	1.1210	80.97	3.1879					2
					5	●	MDW0470HGS5	38.00	1.4961	44.97	1.7706	98.97	3.8966					2
					5	●	MDW0470HGS5S	38.00	1.4961	44.97	1.7706	98.97	3.8966					2
					8	★	MDW0470HGS8	49.00	1.9291	55.97	2.2037	105.97	4.1722					2
					8	★	MDW0470HGS8S	49.00	1.9291	55.97	2.2037	105.97	4.1722					2
4.76	0.1875	3/16		M5x.5	3	●	MDW01875HGS3	20.36	0.8015	28.49	1.1215	80.99	3.1884	0.99	0.0388	4.76	0.1875	2
					3	●	MDW01875HGS3S	20.36	0.8015	28.49	1.1215	80.99	3.1884					2
					5	●	MDW01875HGS5	36.86	1.4511	44.99	1.7711	98.99	3.8971					2
					5	●	MDW01875HGS5S	36.86	1.4511	44.99	1.7711	98.99	3.8971					2
					8	●	MDW01875HGS8	47.86	1.8842	55.99	2.2042	105.99	4.1727					2
					8	●	MDW01875HGS8S	47.86	1.8843	55.99	2.2042	105.99	4.1727					2
4.80	0.1890	#12			3	●	MDW0480HGS3	21.30	0.8386	28.49	1.1218	80.99	3.1887	0.99	0.0391	5.00	0.1969	2
					3	●	MDW0480HGS3S	21.30	0.8386	28.49	1.1218	80.99	3.1887					2
					5	●	MDW0480HGS5	37.80	1.4882	44.99	1.7714	98.99	3.8974					2
					5	●	MDW0480HGS5S	37.80	1.4882	44.99	1.7714	98.99	3.8974					2
					8	★	MDW0480HGS8	48.80	1.9213	55.99	2.2045	105.99	4.1730					2
					8	★	MDW0480HGS8S	48.80	1.9213	55.99	2.2045	105.99	4.1730					2
4.90	0.1929				3	●	MDW0490HGS3	21.20	0.8346	28.51	1.1226	81.01	3.1896	1.01	0.040	5.00	0.1969	2
					3	●	MDW0490HGS3S	21.20	0.8346	28.51	1.1226	81.01	3.1896					2
					5	●	MDW0490HGS5	37.70	1.4843	45.01	1.7722	99.01	3.8982					2
					5	●	MDW0490HGS5S	37.70	1.4843	45.01	1.7722	99.01	3.8982					2
					8	★	MDW0490HGS8	48.70	1.9173	56.01	2.2053	106.01	4.1738					2
					8	★	MDW0490HGS8S	48.70	1.9173	56.01	2.2053	106.01	4.1738					2
5.00	0.1969			12-24	3	●	MDW0500HGS3	21.00	0.8268	28.54	1.1234	81.04	3.1904	1.04	0.0408	5.00	0.1969	2
					3	●	MDW0500HGS3S	21.00	0.8268	28.54	1.1234	81.04	3.1904					2
					5	●	MDW0500HGS5	37.50	1.4764	45.04	1.7731	99.04	3.8990					2
					5	●	MDW0500HGS5S	37.50	1.4764	45.04	1.7731	99.04	3.8990					2
					8	●	MDW0500HGS8	48.50	1.9094	56.04	2.2061	106.04	4.1746					2
					8	●	MDW0500HGS8S	48.50	1.9094	56.04	2.2061	106.04	4.1746					2
5.10	0.2008			12-28	3	●	MDW0510HGS3	21.00	0.8268	28.56	1.1243	83.06	3.2699	1.06	0.0416	6.00	0.2362	2
					5	●	MDW0510HGS5	37.50	1.4764	45.06	1.7739	101.06	3.9786					2
					8	★	MDW0510HGS8	54.00	2.1260	61.56	2.4235	119.06	4.6873					2
5.11	0.2010	#7			3	●	MDW02010HGS3	19.84	0.7812	28.56	1.1243	83.06	3.2700	1.06	0.0416	5.95	0.2344	2
					3	●	MDW02010HGS3S	19.84	0.7812	28.56	1.1243	83.06	3.2700					2
					8	●	MDW02010HGS8	52.84	2.0804	61.56	2.4236	119.06	4.6873					2
5.16	0.2031	13/64	M6x1		3	●	MDW02031HGS3	19.76	0.7781	28.57	1.1248	83.07	3.2704	1.07	0.0421	5.95	0.2344	2
					3	●	MDW02031HGS3S	19.76	0.7781	28.57	1.1248	83.07	3.2704					2
					5	●	MDW02031HGS5	36.26	1.4277	45.07	1.7744	101.07	3.9791					2
					5	●	MDW02031HGS5S	36.26	1.4277	45.07	1.7744	101.07	3.9791					2
					8	●	MDW02031HGS8	52.76	2.0773	61.57	2.4240	119.07	4.6877					2
					8	●	MDW02031HGS8S	52.76	2.0772	61.57	2.4240	119.07	4.6877					2
5.20	0.2047		1/4-20		3	●	MDW0520HGS3	20.80	0.8189	28.58	1.1251	83.08	3.2707	1.08	0.0424	6.00	0.2362	2
					5	●	MDW0520HGS5	37.30	1.4685	45.08	1.7747	101.08	3.9794					2
					8	★	MDW0520HGS8	53.80	2.1181	61.58	2.4243	119.08	4.6881					2
5.30	0.2087				3	●	MDW0530HGS3	20.70	0.8150	28.60	1.1259	83.10	3.2716	1.10	0.0433	6.00	0.2362	2
					5	●	MDW0530HGS5	37.20	1.4646	45.10	1.7755	101.10	3.9802					2
					8	★	MDW0530HGS8	53.70	2.1142	61.60	2.4251	119.10	4.6889					2
5.31	0.2090	#4	M6x.75	M5.5x.5	3	●	MDW02090HGS3S	18.33	0.7218	28.60	1.1260	83.10	3.2716	1.10	0.0433	6.00	0.2362	2
					5	●	MDW02090HGS5S	29.33	1.1549	45.10	1.7756	101.10	3.9803					2
5.40	0.2126				3	●	MDW0540HGS3	20.50	0.8071	28.62	1.1267	83.12	3.2724	1.12	0.0440	6.00	0.2362	2
					5	●	MDW0540HGS5	37.00	1.4567	45.12	1.7763	101.12	3.9810					2
					8	★	MDW0540HGS8	53.50	2.1063	61.62	2.4259	119.12	4.6897					2



*Refer to N74 for the tolerance of h6 and h8

Fig. 2 (diameter $\phi 2.5$ to 20.0mm 0.098"-0.787", double margin)



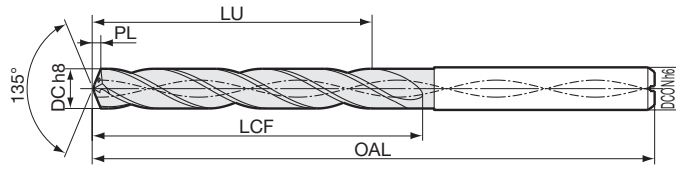
Diameter $\phi 5.41$ to 6.30mm (0.2130" to 0.2480") Dimensions (inch/mm)

Dia. DC			Cut Tap Size	Roll Form Tap Size	Hole Depth (L/D)	Stock	Cat. No.	Effective Length LU		Flute Length LCF		Overall Length OAL		Tip PL		Shank Dia. DCON		Fig			
mm	in.	Fraction						mm	in.	mm	in.	mm	in.	mm	in.	mm	in.				
5.41	0.2130	#3			3	●	MDW02130HGS3	19.39	0.7632	28.62	1.1268	83.12	3.2725	1.12	0.0441		5.95	0.2344	2		
					3	●	MDW02130HGS3S	19.39	0.7632	28.62	1.1268	83.12	3.2725				6.00	0.2362	2		
					5	●	MDW02130HGS5	35.89	1.4128	45.12	1.7764	101.12	3.9811				5.95	0.2344	2		
					5	●	MDW02130HGS5S	35.89	1.4128	45.12	1.7764	101.12	3.9811				6.00	0.2362	2		
					8	●	MDW02130HGS8	52.38	2.0624	61.62	2.4260	119.12	4.6898				5.95	0.2344	2		
					8	●	MDW02130HGS8S	53.50	2.1063	61.62	2.4260	119.12	4.6898				6.00	0.2362	2		
5.50	0.2165	1/4-28			3	●	MDW0550HGS3	20.40	0.8031	28.64	1.1275	83.14	3.2732	1.14	0.0448		6.00	0.2362	2		
					5	●	MDW0550HGS5	36.90	1.4528	45.14	1.7771	101.14	3.9819						2		
					8	●	MDW0550HGS8	53.40	2.1024	61.64	2.4267	119.14	4.6905						2		
5.56	0.2188	7/32	M6x.5	M6x1	3	●	MDW02188HGS3	21.66	0.8529	31.15	1.2264	83.15	3.2737	1.15	0.0453		5.95	0.2344	2		
							3	●	MDW02188HGS3S	21.66	0.8529	31.15	1.2264			83.15	3.2737		6.00	0.2362	2
							5	●	MDW02188HGS5	39.66	1.5616	49.15	1.9351			101.15	3.9823		5.95	0.2344	2
							5	●	MDW02188HGS5S	39.66	1.5616	49.15	1.9351			101.15	3.9823		6.00	0.2362	2
							8	●	MDW02188HGS8	57.66	2.2702	67.15	2.6438			119.15	4.6910		5.95	0.2344	2
							8	●	MDW02188HGS8S	57.66	2.2701	67.15	2.6438			119.15	4.6910		6.00	0.2362	2
5.60	0.2205			3	●	MDW0560HGS3	22.80	0.8976	31.16	1.2268	83.16	3.2740	1.16	0.0457		6.00	0.2362	2			
				5	●	MDW0560HGS5	40.80	1.6063	49.16	1.9354	101.16	3.9827						2			
				8	★	MDW0560HGS8	58.80	2.3150	67.16	2.6441	119.16	4.6913						2			
5.61	0.2210	#2	M6x.75	3	●	MDW02210HGS3	21.58	0.8495	31.16	1.2268	83.16	3.2741	1.16	0.0458		5.94	0.2344	2			
						3	●	MDW02210HGS3S	21.58	0.8495	31.16	1.2268			83.16	3.2741		6.00	0.2362	2	
						5	●	MDW02210HGS5	39.58	1.5583	49.16	1.9355			101.16	3.9828		5.95	0.2344	2	
						5	●	MDW02210HGS5S	39.58	1.5583	49.16	1.9355			101.16	3.9828		6.00	0.2362	2	
						8	●	MDW02210HGS8	57.58	2.2669	67.16	2.6442			119.16	4.6914		5.95	0.2344	2	
						8	●	MDW02210HGS8S	58.80	2.3150	67.16	2.6442			119.16	4.6914		6.00	0.2362	2	
5.70	0.2244			3	●	MDW0570HGS3	22.70	0.8937	31.18	1.2276	83.18	3.2748	1.18	0.0465		6.00	0.2362	2			
				5	●	MDW0570HGS5	40.70	1.6024	49.18	1.9362	101.18	3.9835						2			
				8	★	MDW0570HGS8	58.70	2.3110	67.18	2.6449	119.18	4.6921						2			
5.80	0.2283		1/4-20	3	●	MDW0580HGS3	22.50	0.8858	31.20	1.2284	83.20	3.2756	1.20	0.0472				2			
					5	●	MDW0580HGS5	40.50	1.5945	49.20	1.9371	101.20			3.9843		6.00	0.2362	2		
					8	★	MDW0580HGS8	58.50	2.3031	67.20	2.6457	119.20			4.6930				2		
5.90	0.2323			3	●	MDW0590HGS3	22.40	0.8819	31.22	1.2292	83.22	3.2765	1.22	0.0481				2			
				5	●	MDW0590HGS5	40.40	1.5906	49.22	1.9379	101.22	3.9851				6.00	0.2362	2			
				8	★	MDW0590HGS8	58.40	2.2992	67.22	2.6465	119.22	4.6938						2			
5.95	0.2344	15/64	1/4-28	3	●	MDW02344HGS3	21.08	0.8300	31.23	1.2296	83.23	3.2769	1.23	0.0485		5.94	0.2344	2			
						3	●	MDW02344HGS3S	21.08	0.8300	31.23	1.2296			83.23	3.2769		6.00	0.2362	2	
						5	●	MDW02344HGS5	39.07	1.5382	49.23	1.9383			101.23	3.9855		5.95	0.2344	2	
						5	●	MDW02344HGS5S	39.07	1.5382	49.23	1.9383			101.23	3.9855		6.00	0.2362	2	
						8	●	MDW02344HGS8	57.07	2.2468	67.23	2.6469			119.23	4.6942		5.95	0.2344	2	
						8	●	MDW02344HGS8S	57.01	2.2444	67.24	2.6473			119.24	4.6946		6.00	0.2362	2	
6.00	0.2362			3	●	MDW0600HGS3	22.20	0.8740	31.24	1.2300	83.24	3.2773	1.24	0.0489		6.00	0.2362	2			
				5	●	MDW0600HGS5	40.20	1.5827	49.24	1.9387	101.24	3.9859						2			
				8	●	MDW0600HGS8	58.20	2.2913	67.24	2.6473	119.24	4.6946						2			
6.10	0.2402			3	●	MDW0610HGS3	24.70	0.9724	33.76	1.3293	89.26	3.5143	1.26	0.0497		7.00	0.2756	2			
				3	●	MDW0610HGS3S	24.70	0.9724	33.76	1.3293	89.26	3.5143				8.00	0.3150	2			
				5	●	MDW0610HGS5	44.20	1.7402	53.26	2.0970	110.26	4.3411				7.00	0.2756	2			
				5	●	MDW0610HGS5S	44.20	1.7402	53.26	2.0970	110.26	4.3411				8.00	0.3150	2			
				8	★	MDW0610HGS8	63.70	2.5079	72.76	2.8647	131.26	5.1678				7.00	0.2756	2			
				8	●	MDW0610HGS8S	63.70	2.5079	72.76	2.8647	131.26	5.1678				8.00	0.3150	2			
6.15	0.2420	C	M7x1	3	●	MDW02420HGS3	23.29	0.9170	33.77	1.3297	89.27	3.5147	1.27	0.0501		7.14	0.2810	2			
				3	●	MDW02420HGS3S	23.29	0.9170	33.77	1.3297	89.27	3.5147				8.00	0.3150	2			
6.20	0.2441			3	●	MDW0620HGS3	24.50	0.9646	33.78	1.3301	89.28	3.5151	1.28	0.0506		7.00	0.2756	2			
				3	●	MDW0620HGS3S	24.50	0.9646	33.78	1.3301	89.28	3.5151				8.00	0.3150	2			
				5	●	MDW0620HGS5	44.00	1.7323	53.28	2.0978	110.28	4.3419				7.00	0.2756	2			
				5	●	MDW0620HGS5S	44.00	1.7323	53.28	2.0978	110.28	4.3419				8.00	0.3150	2			
				8	★	MDW0620HGS8	63.50	2.5000	72.78	2.8655	131.28	5.1687				7.00	0.2756	2			
				8	●	MDW0620HGS8S	63.50	2.5000	72.78	2.8655	131.28	5.1687				8.00	0.3150	2			
6.30	0.2480			3	●	MDW0630HGS3	24.40	0.9606	33.80	1.3309	89.30	3.5159	1.30	0.0514		7.00	0.2756	2			
				3	●	MDW0630HGS3S	24.40	0.9606	33.80	1.3309	89.30	3.5159				8.00	0.3150	2			
				5	●	MDW0630HGS5	43.90	1.7283	53.30	2.0986	110.30	4.3427				7.00	0.2756	2			
				5	●	MDW0630HGS5S	43.90	1.7283	53.30	2.0986	110.30	4.3427				8.00	0.3150	2			
				8	★	MDW0630HGS8	63.40	2.4961	72.80	2.8663	131.30	5.1695				7.00	0.2756	2			
				8	●	MDW0630HGS8S	63.40	2.4961	72.80	2.8663	131.30	5.1695				8.00	0.3150	2			



*Refer to N74 for the tolerance of h6 and h8

Fig. 2 (diameter $\phi 2.5$ to 20.0mm $0.098''$ - $0.787''$, double margin)



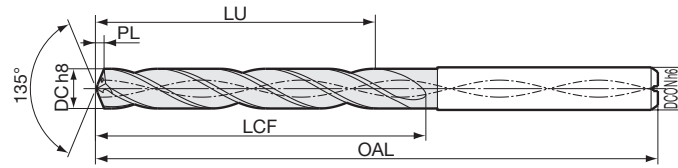
Diameter $\phi 6.35$ to 6.90mm ($0.2500''$ to $0.2717''$) Dimensions (inch/mm)

Dia. DC			Cut Tap Size	Roll Form Tap Size	Hole Depth (L/D)	Stock	Cat. No.	Effective Length LU		Flute Length LCF		Overall Length OAL		Tip PL		Shank Dia. DCON		Fig			
mm	in.	Fraction						mm	in.	mm	in.	mm	in.	mm	in.	mm	in.		mm	in.	
6.35	0.2500	1/4 E	M7x.75		3	●	MDW02500HGS3	22.99	0.9050	33.82	1.3313	89.32	3.5163	1.32	0.0518			7.14	0.2812	2	
					3	●	MDW02500HGS3S	22.99	0.9050	33.82	1.3313	89.32	3.5163					8.00	0.3150	2	
					5	●	MDW02500HGS5	42.47	1.6722	53.32	2.0990	110.32	4.3431					7.14	0.2812	2	
					5	●	MDW02500HGS5S	42.47	1.6722	53.32	2.0990	110.32	4.3431					8.00	0.3150	2	
					8	●	MDW02500HGS8	61.98	2.4400	72.82	2.8667	131.32	5.1699					7.14	0.2812	2	
					8	●	MDW02500HGS8S	61.98	2.4400	72.82	2.8667	131.32	5.1699					8.00	0.3150	2	
6.40	0.2520				3	●	MDW0640HGS3	24.20	0.9528	33.83	1.3317	89.33	3.5168	1.33	0.0522			7.00	0.2756	2	
			3	●	MDW0640HGS3S	24.20	0.9528	33.83	1.3317	89.33	3.5168	8.00	0.3150					2			
			5	●	MDW0640HGS5	43.70	1.7205	53.33	2.0994	110.33	4.3435	7.00	0.2756					2			
			5	●	MDW0640HGS5S	43.70	1.7205	53.33	2.0994	110.33	4.3435	8.00	0.3150					2			
			8	★	MDW0640HGS8	63.20	2.4882	72.83	2.8671	131.33	5.1703	7.00	0.2756					2			
			8	●	MDW0640HGS8S	63.20	2.4882	72.83	2.8671	131.33	5.1703	8.00	0.3150					2			
6.50	0.2559				3	●	MDW0650HGS3	24.10	0.9488	33.85	1.3325	89.35	3.5176	1.35	0.0530			7.00	0.2756	2	
			3	●	MDW0650HGS3S	24.10	0.9488	33.85	1.3325	89.35	3.5176	8.00	0.3150					2			
			5	●	MDW0650HGS5	43.60	1.7165	53.35	2.1002	110.35	4.3443	7.00	0.2756					2			
			5	●	MDW0650HGS5S	43.60	1.7165	53.35	2.1002	110.35	4.3443	8.00	0.3150					2			
			8	●	MDW0650HGS8	63.10	2.4843	72.85	2.8680	131.35	5.1711	7.00	0.2756					2			
			8	●	MDW0650HGS8S	63.10	2.4843	72.85	2.8680	131.35	5.1711	8.00	0.3150					2			
6.53	0.2570	F	5/16-18	M7x1		3	●	MDW02570HGS3	25.21	0.9925	36.35	1.4312	89.35	3.5178	1.35	0.0532			7.14	0.2812	2
						3	●	MDW02570HGS3S	25.21	0.9925	36.35	1.4312	89.35	3.5178					8.00	0.3150	2
						5	●	MDW02570HGS5	46.21	1.8192	57.35	2.2580	110.35	4.3446					7.14	0.2812	2
						5	●	MDW02570HGS5S	46.21	1.8192	57.35	2.2580	110.35	4.3446					8.00	0.3150	2
						8	●	MDW02570HGS8	67.21	2.6460	78.35	3.0847	131.35	5.1714	7.14	0.2812	2				
						8	●	MDW02570HGS8S	67.21	2.6459	78.35	3.0847	131.35	5.1714	8.00	0.3150	2				
						5	●	MDW0653HGS5	46.20	1.8191	57.35	2.2580	110.35	4.3446	1.35	0.0532			7.00	0.2756	2
						5	●	MDW0653HGS5S	46.20	1.8191	57.35	2.2580	110.35	4.3446					8.00	0.3150	2
	8	●	MDW0653HGS8S	67.19	2.6454	78.35	3.0847	131.35	5.1714												
6.60	0.2598				3	●	MDW0660HGS3	26.50	1.0433	36.37	1.4318	89.37	3.5184	1.37	0.0538			7.00	0.2756	2	
			3	●	MDW0660HGS3S	26.50	1.0433	36.37	1.4318	89.37	3.5184	8.00	0.3150					2			
			5	●	MDW0660HGS5	47.50	1.8701	57.37	2.2585	110.37	4.3452	7.00	0.2756					2			
			5	●	MDW0660HGS5S	47.50	1.8701	57.37	2.2585	110.37	4.3452	8.00	0.3150					2			
			8	★	MDW0660HGS8	68.50	2.6969	78.37	3.0853	131.37	5.1719	7.00	0.2756					2			
			8	●	MDW0660HGS8S	68.50	2.6969	78.37	3.0853	131.37	5.1719	8.00	0.3150					2			
6.70	0.2638				3	●	MDW0670HGS3	26.40	1.0394	36.39	1.4326	89.39	3.5192	1.39	0.0546			7.00	0.2756	2	
			3	●	MDW0670HGS3S	26.40	1.0394	36.39	1.4326	89.39	3.5192	8.00	0.3150					2			
			5	●	MDW0670HGS5	47.40	1.8661	57.39	2.2594	110.39	4.3460	7.00	0.2756					2			
			5	●	MDW0670HGS5S	47.40	1.8661	57.39	2.2594	110.39	4.3460	8.00	0.3150					2			
			8	★	MDW0670HGS8	68.40	2.6929	78.39	3.0861	131.39	5.1727	7.00	0.2756					2			
			8	●	MDW0670HGS8S	68.40	2.6929	78.39	3.0861	131.39	5.1727	8.00	0.3150					2			
6.75	0.2656	17/64				3	●	MDW02656HGS3	24.87	0.9790	36.40	1.4330	89.40	3.5196	1.40	0.0550			7.14	0.2812	2
				3	●	MDW02656HGS3S	24.87	0.9790	36.40	1.4330	89.40	3.5196	8.00	0.3150					2		
				5	●	MDW02656HGS5	45.88	1.8063	57.40	2.2598	110.40	4.3464	7.14	0.2812					2		
				5	●	MDW02656HGS5S	45.88	1.8063	78.40	3.0865	131.40	5.1731	8.00	0.3150					2		
				8	●	MDW02656HGS8	66.88	2.6331	78.40	3.0865	131.40	5.1731	7.14	0.2812					2		
				8	●	MDW02656HGS8S	66.88	2.6329	36.40	1.4331	89.40	3.5197	8.00	0.3150					2		
6.76	0.2660	H				3	●	MDW02660HGS3	24.87	0.9790	36.40	1.4331	89.40	3.5197	1.40	0.0551			7.14	0.2812	2
				3	●	MDW02660HGS3S	24.87	0.9790	36.40	1.4331	89.40	3.5197	8.00	0.3150					2		
				5	●	MDW02660HGS5	45.86	1.8057	57.40	2.2598	110.40	4.3465	7.14	0.2812					2		
				5	●	MDW02660HGS5S	45.86	1.8057	57.40	2.2598	110.40	4.3465	8.00	0.3150					2		
				8	●	MDW02660HGS8	66.87	2.6325	78.40	3.0866	131.40	5.1732	7.14	0.2812					2		
				8	●	MDW02660HGS8S	66.86	2.6323	78.40	3.0866	131.40	5.1732	8.00	0.3150					2		
6.80	0.2677				3	●	MDW0680HGS3	26.20	1.0315	36.41	1.4334	89.41	3.5200	1.41	0.0554			7.00	0.2756	2	
			3	●	MDW0680HGS3S	26.20	1.0315	36.41	1.4334	89.41	3.5200	8.00	0.3150					2			
			5	●	MDW0680HGS5	47.20	1.8583	57.41	2.2602	110.41	4.3468	7.00	0.2756					2			
			5	●	MDW0680HGS5S	47.20	1.8583	57.41	2.2602	110.41	4.3468	8.00	0.3150					2			
			8	●	MDW0680HGS8	68.20	2.6850	78.41	3.0869	131.41	5.1736	7.00	0.2756					2			
			8	●	MDW0680HGS8S	68.20	2.6850	78.41	3.0869	131.41	5.1736	8.00	0.3150					2			
6.90	0.2717				3	●	MDW0690HGS3	26.10	1.0276	36.43	1.4342	89.43	3.5208	1.43	0.0563			7.00	0.2756	2	
			3	●	MDW0690HGS3S	26.10	1.0276	36.43	1.4342	89.43	3.5208	8.00	0.3150					2			
			5	●	MDW0690HGS5	47.10	1.8543	57.43	2.2610	110.43	4.3476	7.00	0.2756					2			
			5	●	MDW0690HGS5S	47.10	1.8543	57.43	2.2610	110.43	4.3476	8.00	0.3150					2			
			8	★	MDW0690HGS8	68.10	2.6811	78.43	3.0878	131.43	5.1744	7.00	0.2756					2			
			8	●	MDW0690HGS8S	68.10	2.6811	78.43	3.0878	131.43	5.1744	8.00	0.3150					2			



*Refer to N74 for the tolerance of h6 and h8

Fig. 2 (diameter $\phi 2.5$ to 20.0mm 0.098"-0.787", double margin)



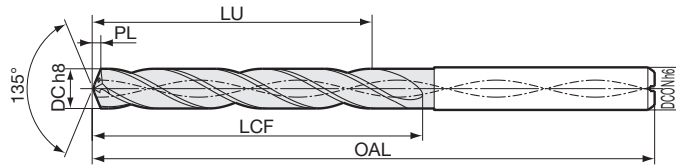
Diameter $\phi 6.91$ to 7.90mm (0.2720" to 0.3110") Dimensions (inch/mm)

Dia. DC			Cut Tap Size	Roll Form Tap Size	Hole Depth (L/D)	Stock	Cat. No.	Effective Length LU		Flute Length LCF		Overall Length OAL		Tip PL		Shank Dia. DCON		Fig		
mm	in.	Fraction						mm	in.	mm	in.	mm	in.	mm	in.	mm	in.		mm	in.
6.91	0.2720	I	5/16-24		3	●	MDW02720HGS3	24.64	0.9700	36.43	1.4343	89.43	3.5209	1.43	0.0563		7.14	0.2810	2	
					3	●	MDW02720HGS3S	24.64	0.9700	36.43	1.4343	89.43	3.5209				8.00	0.3150	2	
					5	●	MDW02720HGS5	45.64	1.7967	57.43	2.2611	110.43	4.3477				7.14	0.2812	2	
					5	●	MDW02720HGS5S	45.64	1.7967	57.43	2.2611	110.43	4.3477				8.00	0.3150	2	
					8	●	MDW02720HGS8	66.64	2.6235	78.43	3.0878	131.43	5.1745				7.14	0.2812	2	
					8	●	MDW02720HGS8S	66.64	2.6234	78.43	3.0878	131.43	5.1745				8.00	0.3150	2	
7.00	0.2756				3	●	MDW0700HGS3	25.90	1.0197	36.45	1.4350	89.45	3.5216	1.45	0.0571		7.00	0.2756	2	
			3	●	MDW0700HGS3S	25.90	1.0197	36.45	1.4350	89.45	3.5216		8.00			0.3150	2			
			5	●	MDW0700HGS5	46.90	1.8465	57.45	2.2618	110.45	4.3484		7.00			0.2756	2			
			5	●	MDW0700HGS5S	46.90	1.8465	57.45	2.2618	110.45	4.3484		8.00			0.3150	2			
			8	●	MDW0700HGS8	67.90	2.6732	78.45	3.0886	131.45	5.1752		7.00			0.2756	2			
			8	●	MDW0700HGS8S	67.90	2.6732	78.45	3.0886	131.45	5.1752		8.00			0.3150	2			
7.04	0.2770	J				3	●	MDW02770HGS3	24.45	0.9625	36.46	1.4354	89.46	3.5220	1.46	0.0574		7.14	0.2810	2
				3	●	MDW02770HGS3S	24.45	0.9625	38.96	1.5338	95.46	3.7582		8.00			0.3150	2		
				5	●	MDW02770HGS5	45.45	1.7892	57.46	2.2621	110.46	4.3487		7.14			0.2812	2		
				5	●	MDW02770HGS5S	45.45	1.7892	61.46	2.4196	119.46	4.7031		8.00			0.3150	2		
				8	●	MDW02770HGS8	66.45	2.6160	78.46	3.0889	131.46	5.1755		7.14			0.2812	2		
				8	●	MDW02770HGS8S	66.44	2.6158	83.96	3.3054	143.46	5.6480		8.00			0.3150	2		
7.10	0.2795				3	●	MDW0710HGS3	28.40	1.1181	38.97	1.5343	95.47	3.7587	1.47	0.0579				2	
			5	●	MDW0710HGS5	50.90	2.0039	61.47	2.4201	119.47	4.7036		8.00			0.3150	2			
			8	★	MDW0710HGS8	73.40	2.8898	83.97	3.3059	143.47	5.6484						2			
7.14	0.2812	9/32	M8x1		3	●	MDW02812HGS3	24.30	0.9565	36.48	1.4362	89.48	3.5228	1.48	0.0582		7.14	0.2812	2	
					3	●	MDW02812HGS3S	24.30	0.9565	38.98	1.5346	95.48	3.7590				8.00	0.3150	2	
					5	●	MDW02812HGS5	45.29	1.7829	57.48	2.2629	110.48	4.3496				7.14	0.2812	2	
					5	●	MDW02812HGS5S	45.29	1.7829	61.48	2.4204	119.48	4.7039				8.00	0.3150	2	
					8	●	MDW02812HGS8	66.29	2.6097	78.48	3.0897	131.48	5.1763				7.14	0.2812	2	
					8	●	MDW02812HGS8S	66.29	2.6098	83.98	3.3062	143.48	5.6488				8.00	0.3150	2	
7.20	0.2835				3	●	MDW0720HGS3	28.20	1.1102	38.99	1.5351	95.49	3.7595	1.49	0.0587				2	
			5	●	MDW0720HGS5	50.70	1.9961	61.49	2.4209	119.49	4.7044		8.00			0.3150	2			
			8	★	MDW0720HGS8	73.20	2.8819	83.99	3.3067	143.49	5.6493						2			
7.30	0.2874		M8x.75	5/16-18	3	●	MDW0730HGS3	28.10	1.1063	39.01	1.5359	95.51	3.7603	1.51	0.0595				2	
					5	●	MDW0730HGS5	50.60	1.9921	61.51	2.4217	119.51	4.7052				8.00	0.3150	2	
					8	★	MDW0730HGS8	73.10	2.8780	84.01	3.3076	143.51	5.6501						2	
7.37	0.2900	L		5/16-18 M8x1.25	3	●	MDW02900HGS3S	30.20	1.1890	41.57	1.6368	95.57	3.7628	1.60	0.0630		8.00	0.3150	2	
					5	●	MDW02900HGS5S	54.20	2.1339	65.57	2.5817	119.57	4.7076						2	
7.40	0.2913			M8x1.25	3	●	MDW0740HGS3	27.90	1.0984	39.03	1.5367	95.53	3.7611	1.53	0.0603		8.00	0.3150	2	
			5		●	MDW0740HGS5	50.40	1.9843	61.53	2.4225	119.53	4.7060						2		
			8		★	MDW0740HGS8	72.90	2.8701	84.03	3.3084	143.53	5.6509						2		
7.49	0.2950	M		5/16-24	3	●	MDW02950HGS3S	25.00	0.9843	39.05	1.5374	95.55	3.7619	1.55	0.0610		8.00	0.3150	2	
					5	●	MDW02950HGS5S	40.00	1.5748	61.55	2.4233	119.55	4.7067						2	
7.50	0.2953		M8x.5		3	●	MDW0750HGS3	27.90	1.0984	39.05	1.5375	95.55	3.7619	1.55	0.0612		8.00	0.3150	2	
				5	●	MDW0750HGS5	50.40	1.9843	61.55	2.4234	119.55	4.7068						2		
				8	●	MDW0750HGS8	72.90	2.8701	84.05	3.3092	143.55	5.6517						2		
7.54	0.2969	19/64	M8x1		3	●	MDW02969HGS3	28.69	1.1295	41.56	1.6363	95.56	3.7623	1.56	0.0615		7.94	0.3130	2	
					3	●	MDW02969HGS3S	28.69	1.1295	41.56	1.6363	95.56	3.7623				8.00	0.3150	2	
					5	●	MDW02969HGS5	52.69	2.0744	65.56	2.5812	119.56	4.7071				7.94	0.3125	2	
					5	●	MDW02969HGS5S	52.69	2.0744	65.56	2.5812	119.56	4.7071				8.00	0.3150	2	
					8	●	MDW02969HGS8	76.69	3.0193	89.56	3.5260	143.56	5.6520				7.94	0.3125	2	
					8	●	MDW02969HGS8S	76.69	3.0193	89.56	3.5260	143.56	5.6520				8.00	0.3150	2	
7.60	0.2992				3	●	MDW0760HGS3	30.20	1.1890	41.57	1.6368	95.57	3.7628	1.57	0.0620		8.00	0.3150	2	
			5	●	MDW0760HGS5	54.20	2.1339	65.57	2.5817	119.57	4.7076						2			
			8	★	MDW0760HGS8	78.20	3.0787	89.57	3.5265	143.57	5.6525						2			
7.67	0.3020	N		M8x.75	3	●	MDW03020HGS3S	26.67	1.0499	41.59	1.6373	95.59	3.7633	1.59	0.0625		8.00	0.3150	2	
					5	●	MDW03020HGS5S	42.67	1.6798	65.59	2.5822	119.59	4.7082						2	
7.70	0.3031				3	●	MDW0770HGS3	30.10	1.1850	41.59	1.6376	95.59	3.7636	1.59	0.0628		8.00	0.3150	2	
			5	●	MDW0770HGS5	54.10	2.1299	65.59	2.5825	119.59	4.7085						2			
			8	★	MDW0770HGS8	78.10	3.0748	89.59	3.5274	143.59	5.6533						2			
7.80	0.3071		M9x1.25		3	●	MDW0780HGS3	29.90	1.1772	41.62	1.6384	95.62	3.7644	1.62	0.0636		8.00	0.3150	2	
				5	●	MDW0780HGS5	53.90	2.1220	65.62	2.5833	119.62	4.7093						2		
				8	★	MDW0780HGS8	77.90	3.0669	89.62	3.5282	143.62	5.6542						2		
7.90	0.3110				3	●	MDW0790HGS3	29.80	1.1732	41.64	1.6392	95.64	3.7652	1.64	0.0644		8.00	0.3150	2	
			5	●	MDW0790HGS5	53.80	2.1181	65.64	2.5841	119.64	4.7101						2			
			8	★	MDW0790HGS8	77.80	3.0630	89.64	3.5290	143.64	5.6550						2			



*Refer to N74 for the tolerance of h6 and h8

Fig. 2 (diameter $\phi 2.5$ to 20.0mm 0.098"-0.787", double margin)



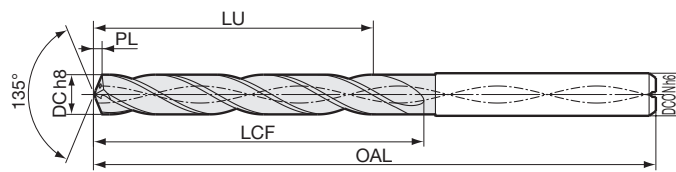
Diameter 7.94 to 8.60 (.3125" to .3386") Dimensions (inch/mm)

Dia. DC			Cut Tap Size	Roll Form Tap Size	Hole Depth (L/D)	Stock	Cat. No.	Effective Length LU		Flute Length LCF		Overall Length OAL		Tip PL		Shank Dia. DCON		Fig
mm	in.	Fraction						mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
7.94	0.3125	5/16			3	●	MDW03125HGS3	28.09	1.1060	41.64	1.6395	95.64	3.7655	1.64	0.0647	7.94	0.3125	2
					3	●	MDW03125HGS3S	28.09	1.1060	41.64	1.6395	95.64	3.7655			8.00	0.3150	2
					5	●	MDW03125HGS5	52.09	2.0510	65.64	2.5844	119.64	4.7104			7.94	0.3125	2
					5	●	MDW03125HGS5S	52.09	2.0510	65.64	2.5844	119.64	4.7104			8.00	0.3150	2
					8	●	MDW03125HGS8	76.09	2.9959	89.64	3.5293	143.64	5.6553			7.94	0.3125	2
					8	●	MDW03125HGS8S	76.09	2.9957	89.64	3.5293	143.64	5.6553			8.00	0.3150	2
8.00	0.3150		3/8-16		3	●	MDW0800HGS3	29.70	1.1693	41.66	1.6400	95.66	3.7660	1.66	0.0652	8.00	0.3150	2
					5	●	MDW0800HGS5	53.70	2.1142	65.66	2.5849	119.66	4.7109					2
					8	●	MDW0800HGS8	77.70	3.0591	89.66	3.5298	143.66	5.6558					2
8.10	0.3189		M9x1		3	●	MDW0810HGS3	32.10	1.2638	44.18	1.7393	101.68	4.0031	1.68	0.0660	9.00	0.3543	2
					3	●	MDW0810HGS3S	32.10	1.2638	44.18	1.7393	101.68	4.0031			10.00	0.3937	2
					5	●	MDW0810HGS5	57.60	2.2677	69.68	2.7432	128.68	5.0660			9.00	0.3543	2
					5	●	MDW0810HGS5S	57.60	2.2677	69.68	2.7432	128.68	5.0660			10.00	0.3937	2
					8	★	MDW0810HGS8	83.10	3.2717	95.18	3.7471	155.68	6.1290			9.00	0.3543	2
					8	●	MDW0810HGS8S	81.35	3.2027	95.18	3.7471	155.68	6.1290			10.00	0.3937	2
8.20	0.3228				3	●	MDW0820HGS3	31.90	1.2559	44.20	1.7401	101.70	4.0039	1.70	0.0669	9.00	0.3543	2
					3	●	MDW0820HGS3S	31.90	1.2559	44.20	1.7401	101.70	4.0039			10.00	0.3937	2
					5	●	MDW0820HGS5	57.40	2.2598	69.70	2.7440	128.70	5.0669			9.00	0.3543	2
					5	●	MDW0820HGS5S	57.40	2.2598	69.70	2.7440	128.70	5.0669			10.00	0.3937	2
					8	★	MDW0820HGS8	82.90	3.2638	95.20	3.7480	155.70	6.1299			9.00	0.3543	2
					8	●	MDW0820HGS8S	82.90	3.2638	95.20	3.7480	155.70	6.1299			10.00	0.3937	2
8.21	0.3230	P			3	●	MDW03230HGS3	30.19	1.1885	44.20	1.7401	101.70	4.0039	1.70	0.0669	9.13	0.3594	2
					3	●	MDW03230HGS3S	30.19	1.1885	44.20	1.7401	101.70	4.0039			10.00	0.3937	2
					5	●	MDW03230HGS5	55.69	2.1927	69.70	2.7440	128.70	5.0669			9.13	0.3594	2
					5	●	MDW03230HGS5S	55.69	2.1927	69.70	2.7440	128.70	5.0669			10.00	0.3937	2
					8	●	MDW03230HGS8	81.19	3.1966	95.20	3.7480	155.70	6.1299			9.13	0.3594	2
					8	●	MDW03230HGS8S	81.19	3.1966	95.20	3.7480	155.70	6.1299			10.00	0.3937	2
8.30	0.3268				3	●	MDW0830HGS3	31.80	1.2520	44.22	1.7409	101.72	4.0047	1.72	0.0677	9.00	0.3543	2
					3	●	MDW0830HGS3S	31.80	1.2520	44.22	1.7409	101.72	4.0047			10.00	0.3937	2
					5	●	MDW0830HGS5	57.30	2.2559	69.72	2.7448	128.72	5.0677			9.00	0.3543	2
					5	●	MDW0830HGS5S	57.30	2.2559	69.72	2.7448	128.72	5.0677			10.00	0.3937	2
					8	★	MDW0830HGS8	82.80	3.2598	95.22	3.7488	155.72	6.1307			9.00	0.3543	2
					8	●	MDW0830HGS8S	82.80	3.2598	95.22	3.7488	155.72	6.1307			10.00	0.3937	2
8.33	0.3281	21/64	M7x1		3	●	MDW03281HGS3	30.00	1.1810	44.23	1.7411	101.73	4.0049	1.73	0.0680	9.13	0.3594	2
					3	●	MDW03281HGS3S	30.00	1.1810	44.23	1.7411	101.73	4.0049			10.00	0.3937	2
					5	●	MDW03281HGS5	55.50	2.1851	69.73	2.7451	128.73	5.0679			9.13	0.3594	2
					5	●	MDW03281HGS5S	55.50	2.1851	69.73	2.7451	128.73	5.0679			10.00	0.3937	2
					8	●	MDW03281HGS8	81.00	3.1890	95.23	3.7490	155.73	6.1309			9.13	0.3594	2
					8	●	MDW03281HGS8S	81.00	3.1892	95.23	3.7490	155.73	6.1309			10.00	0.3937	2
8.40	0.3307				3	●	MDW0840HGS3	31.60	1.2441	44.24	1.7417	101.74	4.0055	1.74	0.0685	9.00	0.3543	2
					3	●	MDW0840HGS3S	31.60	1.2441	44.24	1.7417	101.74	4.0055			10.00	0.3937	2
					5	●	MDW0840HGS5	57.10	2.2480	69.74	2.7457	128.74	5.0685			9.00	0.3543	2
					5	●	MDW0840HGS5S	57.10	2.2480	69.74	2.7457	128.74	5.0685			10.00	0.3937	2
					8	★	MDW0840HGS8	82.60	3.2520	95.24	3.7496	155.74	6.1315			9.00	0.3543	2
					8	●	MDW0840HGS8S	82.60	3.2520	95.24	3.7496	155.74	6.1315			10.00	0.3937	2
8.43	0.3320	Q		M9x1.25	3	●	MDW03320HGS3	29.85	1.1750	44.25	1.7420	101.75	4.0057	1.75	0.0688	9.13	0.3594	2
					3	●	MDW03320HGS3S	29.85	1.1750	44.25	1.7420	101.75	4.0057			10.00	0.3937	2
					5	●	MDW03320HGS5	55.35	2.1792	69.75	2.7459	128.75	5.0687			9.13	0.3594	2
					5	●	MDW03320HGS5S	55.35	2.1792	69.75	2.7459	128.75	5.0687			10.00	0.3937	2
					8	●	MDW03320HGS8	80.85	3.1831	95.25	3.7498	155.75	6.1317			9.13	0.3594	2
					8	●	MDW03320HGS8S	80.85	3.1833	95.25	3.7498	155.75	6.1317			10.00	0.3937	2
8.50	0.3346		3/8-24		3	●	MDW0850HGS3	31.60	1.2441	44.26	1.7425	101.76	4.0063	1.76	0.0693	9.00	0.3543	2
					3	●	MDW0850HGS3S	31.60	1.2441	44.26	1.7425	101.76	4.0063			10.00	0.3937	2
					5	●	MDW0850HGS5	57.10	2.2480	69.76	2.7465	128.76	5.0693			9.00	0.3543	2
					5	●	MDW0850HGS5S	57.10	2.2480	69.76	2.7465	128.76	5.0693			10.00	0.3937	2
					8	●	MDW0850HGS8	82.60	3.2520	95.26	3.7504	155.76	6.1323			9.00	0.3543	2
					8	●	MDW0850HGS8S	82.60	3.2520	95.26	3.7504	155.76	6.1323			10.00	0.3937	2
8.60	0.3386		M10x1.5	M9x.75	3	●	MDW0860HGS3	33.90	1.3346	46.78	1.8418	101.78	4.0071	1.78	0.0701	9.00	0.3543	2
					3	●	MDW0860HGS3S	33.90	1.3346	46.78	1.8418	101.78	4.0071			10.00	0.3937	2
					5	●	MDW0860HGS5	60.90	2.3976	73.78	2.9048	128.78	5.0701			9.00	0.3543	2
					5	●	MDW0860HGS5S	60.90	2.3976	73.78	2.9048	128.78	5.0701			10.00	0.3937	2
					8	★	MDW0860HGS8	87.90	3.4606	100.78	3.9678	155.78	6.1331			9.00	0.3543	2
					8	●	MDW0860HGS8S	87.90	3.4606	100.78	3.9678	155.78	6.1331			10.00	0.3937	2



*Refer to N74 for the tolerance of h6 and h8

Fig. 2 (diameter ø2.5 to 20.0mm 0.098"-0.787", double margin)



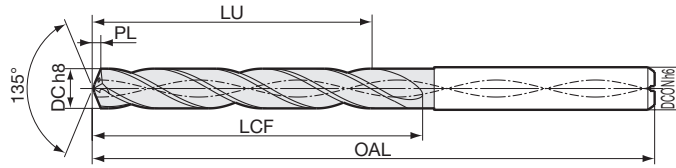
Diameter ø8.70 to 9.53mm (0.3425" to 0.3750") Dimensions (inch/mm)

Dia. DC			Cut Tap Size	Roll Form Tap Size	Hole Depth (L/D)	Stock	Cat. No.	Effective Length LU		Flute Length LCF		Overall Length OAL		Tip PL		Shank Dia. DCON		Fig						
mm	in.	Fraction						mm	in.	mm	in.	mm	in.	mm	in.	mm	in.							
8.70	0.3425				3	●	MDW0870HGS3	33.80	1.3307	46.80	1.8426	101.80	4.0079	1.80	0.0709		9.00	0.3543	2					
					3	●	MDW0870HGS3S	33.80	1.3307	46.80	1.8426	101.80	4.0079				10.00	0.3937	2					
					5	●	MDW0870HGS5	60.80	2.3937	73.80	2.9056	128.80	5.0709				9.00	0.3543	2					
					5	●	MDW0870HGS5S	60.80	2.3937	73.80	2.9056	128.80	5.0709				10.00	0.3937	2					
					8	★	MDW0870HGS8	87.80	3.4567	100.80	3.9686	155.80	6.1339				9.00	0.3543	2					
					8	★	MDW0870HGS8S	87.80	3.4567	100.80	3.9686	155.80	6.1339				10.00	0.3937	2					
8.73	0.3438	11/32			3	●	MDW03438HGS3	31.90	1.2560	46.81	1.8429	101.81	4.0083	1.81	0.0712		9.13	0.3594	2					
					3	●	MDW03438HGS3S	31.90	1.2560	46.81	1.8429	101.81	4.0083				10.00	0.3937	2					
					5	●	MDW03438HGS5	58.90	2.3189	73.81	2.9058	128.81	5.0712				9.13	0.3594	2					
					5	●	MDW03438HGS5S	58.90	2.3189	73.81	2.9058	128.81	5.0712				10.00	0.3937	2					
					8	●	MDW03438HGS8	85.90	3.3819	100.81	3.9688	155.81	6.1342				9.13	0.3594	2					
					8	●	MDW03438HGS8S	85.90	3.3820	100.81	3.9688	155.81	6.1342				10.00	0.3937	2					
8.80	0.3465		3/8-16		3	●	MDW0880HGS3	33.60	1.3228	46.82	1.8434	101.82	4.0088	1.82	0.0718		9.00	0.3543	2					
					3	●	MDW0880HGS3S	33.60	1.3228	46.82	1.8434	101.82	4.0088				10.00	0.3937	2					
					5	●	MDW0880HGS5	60.60	2.3858	73.82	2.9064	128.82	5.0718				9.00	0.3543	2					
					5	●	MDW0880HGS5S	60.60	2.3858	73.82	2.9064	128.82	5.0718				10.00	0.3937	2					
					8	★	MDW0880HGS8	87.60	3.4488	100.82	3.9694	155.82	6.1347				9.00	0.3543	2					
					8	★	MDW0880HGS8S	87.60	3.4488	100.82	3.9694	155.82	6.1347				10.00	0.3937	2					
8.90	0.3504		M10x1.25		3	●	MDW0890HGS3	33.50	1.3189	46.84	1.8442	101.84	4.0096	1.84	0.0726		9.00	0.3543	2					
					3	●	MDW0890HGS3S	33.50	1.3189	46.84	1.8442	101.84	4.0096				10.00	0.3937	2					
					5	●	MDW0890HGS5	60.50	2.3819	73.84	2.9072	128.84	5.0726				9.00	0.3543	2					
					5	●	MDW0890HGS5S	60.50	2.3819	73.84	2.9072	128.84	5.0726				10.00	0.3937	2					
					8	★	MDW0890HGS8	87.50	3.4449	100.84	3.9702	155.84	6.1356				9.00	0.3543	2					
					8	★	MDW0890HGS8S	87.50	3.4449	100.84	3.9702	155.84	6.1356				10.00	0.3937	2					
9.00	0.3543		3/8-24		3	●	MDW0900HGS3	33.40	1.3150	46.86	1.8450	101.86	4.0104	1.86	0.0734		9.00	0.3543	2					
					3	●	MDW0900HGS3S	33.40	1.3150	46.86	1.8450	101.86	4.0104				10.00	0.3937	2					
					5	●	MDW0900HGS5	60.40	2.3780	73.86	2.9080	128.86	5.0734				9.00	0.3543	2					
					5	●	MDW0900HGS5S	60.40	2.3780	73.86	2.9080	128.86	5.0734				10.00	0.3937	2					
					8	●	MDW0900HGS8	87.40	3.4409	100.86	3.9710	155.86	6.1364				9.00	0.3543	2					
					8	●	MDW0900HGS8S	87.40	3.4409	100.86	3.9710	155.86	6.1364				10.00	0.3937	2					
9.10	0.3583				3	●	MDW0910HGS3	35.80	1.4094	49.38	1.9443	107.88	4.2474	1.88	0.0742		10.00	0.3937	2					
					5	●	MDW0910HGS5	64.30	2.5315	77.88	3.0663	137.88	5.4285				10.00	0.3937	2					
					8	★	MDW0910HGS8	92.80	3.6535	106.38	4.1884	167.88	6.6096				10.00	0.3937	2					
					3	●	MDW03594HGS3	31.33	1.2335	46.89	1.8461	101.89	4.0115				9.13	0.3594	2					
					3	●	MDW03594HGS3S	31.33	1.2335	46.89	1.8461	101.89	4.0115						10.00	0.3937	2			
					5	●	MDW03594HGS5	58.31	2.2955	73.89	2.9091	128.89	5.0744						9.13	0.3594	2			
5	●	MDW03594HGS5S	58.31	2.2955	77.89	3.0666	137.89	5.4288	10.00	0.3937	2													
9.13	0.3594	23/64	M10x1		8	●	MDW03594HGS8	85.31	3.3585	100.89	3.9721	155.89	6.1374	1.89	0.0744		9.13	0.3594	2					
					8	●	MDW03594HGS8S	85.30	3.3584	106.39	4.1886	167.89	6.6099				10.00	0.3937	2					
					3	●	MDW0920HGS3	35.60	1.4016	49.41	1.9451	107.91	4.2482				9.20	0.3622		9.20	0.3622	2		
					5	●	MDW0920HGS5	64.10	2.5236	77.91	3.0671	137.91	5.4293							10.00	0.3937	2		
					8	★	MDW0920HGS8	92.60	3.6457	106.41	4.1892	167.91	6.6104							10.00	0.3937	2		
					3	●	MDW0930HGS3	35.50	1.3976	49.43	1.9459	107.93	4.2491							9.30	0.3661		9.30	0.3661
5	●	MDW0930HGS5	64.00	2.5197	77.93	3.0680	137.93	5.4302	10.00	0.3937	2													
8	★	MDW0930HGS8	92.50	3.6417	106.43	4.1900	167.93	6.6113	10.00	0.3937	2													
3	●	MDW03680HGS3	33.48	1.3180	49.44	1.9463	107.94	4.2495	9.35	0.3680	U	7/16-14	M10x1.5		9.92	0.3906	2							
3	●	MDW03680HGS3S	33.48	1.3180	49.44	1.9463	107.94	4.2495							10.00	0.3937	2							
5	●	MDW03680HGS5	61.98	2.4401	77.94	3.0684	137.94	5.4306							9.92	0.3906	2							
5	●	MDW03680HGS5S	61.98	2.4401	77.94	3.0684	137.94	5.4306							10.00	0.3937	2							
8	●	MDW03680HGS8	90.48	3.5622	106.44	4.1904	167.94	6.6117							9.92	0.3906	2							
8	●	MDW03680HGS8S	90.48	3.5620	106.44	4.1904	167.94	6.6117							10.00	0.3937	2							
9.40	0.3701				3	●	MDW0940HGS3	35.30	1.3898	49.45	1.9467	107.95	4.2499	1.95	0.0766		10.00	0.3937	2					
					5	●	MDW0940HGS5	63.80	2.5118	77.95	3.0688	137.95	5.4310				10.00	0.3937	2					
					8	★	MDW0940HGS8	92.30	3.6339	106.45	4.1908	167.95	6.6121				10.00	0.3937	2					
					3	●	MDW0950HGS3	35.30	1.3898	49.47	1.9475	107.97	4.2507				9.50	0.3740		M10x1.25		9.50	0.3740	2
					5	●	MDW0950HGS5	63.80	2.5118	77.97	3.0696	137.97	5.4318									10.00	0.3937	2
					8	●	MDW0950HGS8	92.30	3.6339	106.47	4.1916	167.97	6.6129									10.00	0.3937	2
3	●	MDW03750HGS3	35.73	1.4065	51.97	2.0462	107.97	4.2509	9.53	0.3750	3/8			9.92	0.3906	2								
3	●	MDW03750HGS3S	35.73	1.4065	51.97	2.0462	107.97	4.2509						10.00	0.3937	2								
5	●	MDW03750HGS5	65.71	2.5871	81.97	3.2273	137.97	5.4320						9.92	0.3906	2								
5	●	MDW03750HGS5S	65.71	2.5871	81.97	3.2273	137.97	5.4320						10.00	0.3937	2								
8	●	MDW03750HGS8	95.71	3.7682	111.97	4.4084	167.97	6.6131						9.92	0.3906	2								
8	●	MDW03750HGS8S	95.70	3.7679	111.97	4.4084	167.97	6.6131						10.00	0.3937	2								



*Refer to N74 for the tolerance of h6 and h8

Fig. 2 (diameter ø2.5 to 20.0mm 0.098"-0.787", double margin)



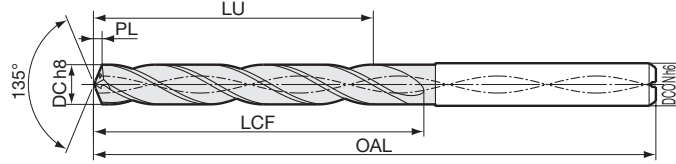
Diameter 9.58 to 10.49 (.3770" to .4130") Dimensions (inch/mm)

Dia. DC			Cut Tap Size	Roll Form Tap Size	Hole Depth (L/D)	Stock	Cat. No.	Effective Length LU		Flute Length LCF		Overall Length OAL		Tip PL		Shank Dia. DCON		Fig		
mm	in.	Fraction						mm	in.	mm	in.	mm	in.	mm	in.	mm	in.		mm	in.
9.58	0.3770	V	7/16-14		3	●	MDW03770HGS3S	33.33	1.3123	51.98	2.0466	107.98	4.2513	1.98	0.0781	10.00	0.3937	2		
					5	●	MDW03770HGS5S	53.33	2.0997	81.98	3.2277	137.98	5.4324					2		
9.60	0.3780				3	●	MDW0960HGS3	37.60	1.4803	51.99	2.0468	107.99	4.2515	1.99	0.0783	10.00	0.3937	2		
					5	●	MDW0960HGS5	67.60	2.6614	81.99	3.2279	137.99	5.4326					2		
					8	●	MDW0960HGS8	97.60	3.8425	111.99	4.4090	167.99	6.6137					2		
9.70	0.3819			M10x.75	3	●	MDW0970HGS3	37.50	1.4764	52.01	2.0476	108.01	4.2523	2.01	0.0791	10.00	0.3937	2		
					5	●	MDW0970HGS5	67.50	2.6575	82.01	3.2287	138.01	5.4334					2		
					8	★	MDW0970HGS8	97.50	3.8386	112.01	4.4098	168.01	6.6145					2		
9.80	0.3858				3	●	MDW0980HGS3	37.30	1.4685	52.03	2.0484	108.03	4.2531	2.03	0.0799	10.00	0.3937	2		
					5	●	MDW0980HGS5	67.30	2.6496	82.03	3.2295	138.03	5.4342					2		
					8	★	MDW0980HGS8	97.30	3.8307	112.03	4.4106	168.03	6.6153					2		
9.90	0.3898				3	●	MDW0990HGS3	37.20	1.4646	52.05	2.0492	108.05	4.2540	2.05	0.0807	10.00	0.3937	2		
					5	●	MDW0990HGS5	67.20	2.6457	82.05	3.2303	138.05	5.4351					2		
					8	★	MDW0990HGS8	97.20	3.8268	112.05	4.4114	168.05	6.6162					2		
9.92	0.3906	25/64	7/16-20		3	●	MDW03906HGS3	35.12	1.3825	52.05	2.0494	108.05	4.2541	2.05	0.0809	9.92	0.3906	2		
					3	●	MDW03906HGS3S	35.12	1.3825	52.05	2.0494	108.05	4.2541					10.00	0.3937	2
					5	●	MDW03906HGS5	65.12	2.5637	82.05	3.2305	138.05	5.4352					9.92	0.3906	2
					5	●	MDW03906HGS5S	65.12	2.5637	82.05	3.2305	138.05	5.4352					10.00	0.3937	2
					8	●	MDW03906HGS8	95.12	3.7448	112.05	4.4116	168.05	6.6163					9.92	0.3906	2
					8	●	MDW03906HGS8S	97.20	3.8268	112.05	4.4116	168.05	6.6163					10.00	0.3937	2
10.00	0.3937				3	●	MDW1000HGS3	37.10	1.4606	52.07	2.0500	108.07	4.2548	2.07	0.0827	10.00	0.3937	2		
					5	●	MDW1000HGS5	67.10	2.6417	82.07	3.2311	138.07	5.4359					2		
					8	●	MDW1000HGS8	97.10	3.8228	112.07	4.4122	168.07	6.6170					2		
10.10	0.3976		M11x1		3	●	MDW1010HGS3	39.50	1.5551	54.59	2.1493	118.09	4.6493	2.09	0.0815	11.00	0.4331	2		
					3	●	MDW1010HGS3S	39.50	1.5551	54.59	2.1493	118.09	4.6493					12.00	0.4724	2
					5	●	MDW1010HGS5	71.00	2.7953	86.09	3.3894	151.09	5.9485					11.00	0.4331	2
					5	●	MDW1010HGS5S	71.00	2.7953	86.09	3.3894	151.09	5.9485					12.00	0.4724	2
					8	★	MDW1010HGS8	102.50	4.0354	117.59	4.6296	184.09	7.2477					11.00	0.4331	2
					8	●	MDW1010HGS8S	102.50	4.0354	117.59	4.6296	184.09	7.2477					12.00	0.4724	2
10.20	0.4016				3	●	MDW1020HGS3	39.30	1.5472	54.61	2.1501	118.11	4.6501	2.11	0.0832	11.00	0.4331	2		
					3	●	MDW1020HGS3S	39.30	1.5472	54.61	2.1501	118.11	4.6501					12.00	0.4724	2
					5	●	MDW1020HGS5	70.80	2.7874	86.11	3.3903	151.11	5.9493					11.00	0.4331	2
					5	●	MDW1020HGS5S	70.80	2.7874	86.11	3.3903	151.11	5.9493					12.00	0.4724	2
					8	★	MDW1020HGS8	102.30	4.0276	117.61	4.6304	184.11	7.2485					11.00	0.4331	2
					8	●	MDW1020HGS8S	102.30	4.0276	117.61	4.6304	184.11	7.2485					12.00	0.4724	2
10.25	0.4035					●	MDW04035HGS3S	35.00	1.3780	54.62	2.1506	118.12	4.6506	2.11	0.0832	12.00	0.4724	2		
						●	MDW04035HGS5S	56.00	2.2047	86.12	3.3907	151.12	5.9498					2		
10.26	0.4040	Y		7/16-14	3	●	MDW04040HGS3S	35.00	1.3780	54.62	2.1506	118.12	4.6506	2.13	0.0837	12.00	0.4724	2		
				5	●	MDW04040HGS5S	56.00	2.2047	86.12	3.3907	151.12	5.9498	2							
10.30	0.4055				3	●	MDW1030HGS3	39.20	1.5433	54.63	2.1509	118.13	4.6509	2.13	0.0849	11.00	0.4331	2		
					3	●	MDW1030HGS3S	39.20	1.5433	54.63	2.1509	118.13	4.6509					12.00	0.4724	2
					5	●	MDW1030HGS5	70.70	2.7835	86.13	3.3911	151.13	5.9501					11.00	0.4331	2
					5	●	MDW1030HGS5S	70.70	2.7835	86.13	3.3911	151.13	5.9501					12.00	0.4724	2
					8	●	MDW1030HGS8	102.20	4.0236	117.63	4.6312	184.13	7.2493					11.00	0.4331	2
					8	●	MDW1030HGS8S	102.20	4.0236	117.63	4.6312	184.13	7.2493					12.00	0.4724	2
10.32	0.4062	13/32		M11x1.5	3	●	MDW04062HGS3	37.03	1.4580	54.64	2.1511	118.14	4.6511	2.14	0.0841	11.11	0.4375	2		
					3	●	MDW04062HGS3S	37.03	1.4580	54.64	2.1511	118.14	4.6511					12.00	0.4724	2
					5	●	MDW04062HGS5	68.52	2.6978	86.14	3.3912	151.14	5.9503					11.11	0.4375	2
					5	●	MDW04062HGS5S	68.52	2.6978	86.14	3.3912	151.14	5.9503					12.00	0.4724	2
					8	●	MDW04062HGS8	100.02	3.9379	117.64	4.6314	184.14	7.2495					11.11	0.4375	2
					8	●	MDW04062HGS8S	100.02	3.9378	117.64	4.6314	184.14	7.2495					12.00	0.4724	2
10.40	0.4094				3	●	MDW1040HGS3	39.10	1.5394	54.65	2.1517	118.15	4.6517	2.14	0.0848	11.00	0.4331	2		
					3	●	MDW1040HGS3S	39.10	1.5394	54.65	2.1517	118.15	4.6517					12.00	0.4724	2
					5	●	MDW1040HGS5	70.60	2.7795	86.15	3.3919	151.15	5.9509					11.00	0.4331	2
					5	●	MDW1040HGS5S	70.60	2.7795	86.15	3.3919	151.15	5.9509					12.00	0.4724	2
					8	★	MDW1040HGS8	102.10	4.0197	117.65	4.6320	184.15	7.2502					11.00	0.4331	2
					8	●	MDW1040HGS8S	102.10	4.0197	117.65	4.6320	184.15	7.2502					12.00	0.4724	2
10.49	0.4130	Z	M12x1.75		3	●	MDW04130HGS3S	35.00	1.3780	54.67	2.1525	118.17	4.6525	2.17	0.0855	12.00	0.4724	2		
5	●	MDW04130HGS5S	56.00	2.2047	86.17	3.3926	151.17	5.9517	2											



*Refer to N74 for the tolerance of h6 and h8

Fig. 2 (diameter ø2.5 to 20.0mm 0.098"-0.787", double margin)



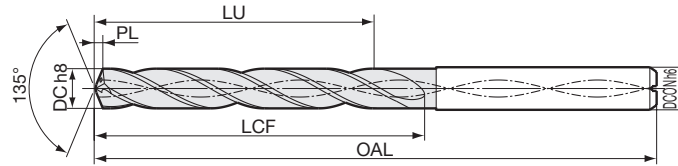
Diameter ø10.50 to 11.50 (.4134" to .4528") Dimensions (inch/mm)

Dia. DC			Cut Tap Size	Roll Form Tap Size	Hole Depth (L/D)	Stock	Cat. No.	Effective Length LU		Flute Length LCF		Overall Length OAL		Tip PL		Shank Dia. DCON		Fig
mm	in.	Fraction						mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
10.50	0.4134			7/16-20	3	●	MDW1050HGS3	39.00	1.5354	54.67	2.1525	118.17	4.6525	2.17	0.0856	11.00	0.4331	2
					3	●	MDW1050HGS3S	39.00	1.5354	54.67	2.1525	118.17	4.6525					2
					5	●	MDW1050HGS5	70.50	2.7756	86.17	3.3927	151.17	5.9518					2
					5	●	MDW1050HGS5S	70.50	2.7756	86.17	3.3927	151.17	5.9518					2
					8	●	MDW1050HGS8	102.00	4.0157	117.67	4.6329	184.17	7.2510					2
					8	●	MDW1050HGS8S	102.00	4.0157	117.67	4.6329	184.17	7.2510					2
10.60	0.4173			M11x1	3	●	MDW1060HGS3	41.30	1.6260	57.20	2.2518	118.20	4.6534	2.20	0.0864	11.00	0.4331	2
					3	●	MDW1060HGS3S	41.30	1.6260	57.20	2.2518	118.20	4.6534					2
					5	●	MDW1060HGS5	74.30	2.9252	90.20	3.5510	151.20	5.9526					2
					5	●	MDW1060HGS5S	74.30	2.9252	90.20	3.5510	151.20	5.9526					2
					8	★	MDW1060HGS8	107.30	4.2244	123.20	4.8502	184.20	7.2518					2
					8	★	MDW1060HGS8S	107.30	4.2244	123.20	4.8502	184.20	7.2518					2
10.70	0.4213				3	●	MDW1070HGS3	41.20	1.6220	57.22	2.2526	118.22	4.6542	2.22	0.0872	11.00	0.4331	2
					3	●	MDW1070HGS3S	41.20	1.6220	57.22	2.2526	118.22	4.6542					2
					5	●	MDW1070HGS5	74.20	2.9213	90.22	3.5518	151.22	5.9534					2
					5	●	MDW1070HGS5S	74.20	2.9213	90.22	3.5518	151.22	5.9534					2
					8	★	MDW1070HGS8	107.20	4.2205	123.22	4.8510	184.22	7.2526					2
					8	★	MDW1070HGS8S	107.20	4.2205	123.22	4.8510	184.22	7.2526					2
10.72	0.4219	27/64	M12x1.5 1/2-13	M11x.75	3	●	MDW04219HGS3	38.91	1.5320	90.22	3.5520	151.22	5.9536	2.22	0.0874	11.11	0.4375	2
					3	●	MDW04219HGS3S	38.91	1.5320	90.22	3.5520	151.22	5.9536					2
					5	●	MDW04219HGS5	71.93	2.8318	123.22	4.8512	184.22	7.2528					2
					5	●	MDW04219HGS5S	71.93	2.8318	57.22	2.2528	118.22	4.6543					2
					8	●	MDW04219HGS8	104.93	4.1310	57.22	2.2528	118.22	4.6543					2
					8	●	MDW04219HGS8S	38.91	1.5319	123.22	4.8512	184.22	7.2528					2
10.80	0.4252				3	●	MDW1080HGS3	41.00	1.6142	57.24	2.2534	118.24	4.6550	2.24	0.0881	11.00	0.4331	2
					3	●	MDW1080HGS3S	41.00	1.6142	57.24	2.2534	118.24	4.6550					2
					5	●	MDW1080HGS5	74.00	2.9134	90.24	3.5526	151.24	5.9542					2
					5	●	MDW1080HGS5S	74.00	2.9134	90.24	3.5526	151.24	5.9542					2
					8	★	MDW1080HGS8	107.00	4.2126	123.24	4.8518	184.24	7.2534					2
					8	★	MDW1080HGS8S	107.00	4.2126	123.24	4.8518	184.24	7.2534					2
10.90	0.4291		M12x1.25		3	●	MDW1090HGS3	41.00	1.6142	57.26	2.2542	118.26	4.6558	2.26	0.0889	11.00	0.4331	2
					3	●	MDW1090HGS3S	41.00	1.6142	57.26	2.2542	118.26	4.6558					2
					5	●	MDW1090HGS5	74.00	2.9134	90.26	3.5534	151.26	5.9550					2
					5	●	MDW1090HGS5S	74.00	2.9134	90.26	3.5534	151.26	5.9550					2
					8	★	MDW1090HGS8	107.00	4.2126	123.26	4.8527	184.26	7.2542					2
					8	★	MDW1090HGS8S	107.00	4.2126	123.26	4.8527	184.26	7.2542					2
11.00	0.4331				3	●	MDW1100HGS3	40.80	1.6063	57.28	2.2550	118.28	4.6566	2.28	0.0897	11.00	0.4331	2
					3	●	MDW1100HGS3S	40.80	1.6063	57.28	2.2550	118.28	4.6566					2
					5	●	MDW1100HGS5	73.80	2.9055	90.28	3.5543	151.28	5.9558					2
					5	●	MDW1100HGS5S	73.80	2.9055	90.28	3.5543	151.28	5.9558					2
					8	●	MDW1100HGS8	106.80	4.2047	123.28	4.8535	184.28	7.2550					2
					8	●	MDW1100HGS8S	106.80	4.2047	123.28	4.8535	184.28	7.2550					2
11.10	0.4370				3	●	MDW1110HGS3	43.20	1.7008	59.80	2.3543	124.30	4.8937	2.30	0.0906	12.00	0.4724	2
					5	●	MDW1110HGS5	77.70	3.0591	94.30	3.7126	160.30	6.3110					2
					8	★	MDW1110HGS8	112.20	4.4173	128.80	5.0708	196.30	7.7283					2
11.11	0.4375	7/16	M12x1		3	●	MDW04375HGS3	38.30	1.5080	57.30	2.2559	118.30	4.6575	2.30	0.0906	11.11	0.4375	2
					3	●	MDW04375HGS3S	38.30	1.5080	59.80	2.3544	124.30	4.8937					2
					5	●	MDW04375HGS5	71.33	2.8084	90.30	3.5552	151.30	5.9567					2
					5	●	MDW04375HGS5S	71.33	2.8084	94.30	3.7126	160.30	6.3111					2
					8	●	MDW04375HGS8	104.33	4.1076	123.30	4.8544	184.30	7.2559					2
					8	●	MDW04375HGS8S	112.20	4.4173	128.80	5.0709	196.30	7.7284					2
11.20	0.4409				3	●	MDW1120HGS3	43.00	1.6929	59.82	2.3551	124.32	4.8945	2.32	0.0913	12.00	0.4724	2
					5	●	MDW1120HGS5	77.50	3.0512	94.32	3.7134	160.32	6.3118					2
					8	★	MDW1120HGS8	112.00	4.4094	128.82	5.0716	196.32	7.7291					2
11.30	0.4449			M12x1.5 M12x1.75	3	●	MDW1130HGS3	42.90	1.6890	59.84	2.3559	124.34	4.8953	2.34	0.0921	12.00	0.4724	2
					5	●	MDW1130HGS5	77.40	3.0472	94.34	3.7142	160.34	6.3126					2
					8	★	MDW1130HGS8	111.90	4.4055	128.84	5.0725	196.34	7.7299					2
11.40	0.4488				3	●	MDW1140HGS3	42.80	1.6850	59.86	2.3567	124.36	4.8961	2.36	0.0930	12.00	0.4724	2
					5	●	MDW1140HGS5	77.30	3.0433	94.36	3.7150	160.36	6.3134					2
					8	★	MDW1140HGS8	111.80	4.4016	128.86	5.0733	196.36	7.7307					2
11.50	0.4528			M12x1.25	3	●	MDW1150HGS3	42.70	1.6811	59.88	2.3575	124.38	4.8969	2.40	0.0945	12.00	0.4724	2
					5	●	MDW1150HGS5	77.20	3.0394	94.38	3.7158	160.38	6.3142					2
					8	●	MDW1150HGS8	111.70	4.3976	128.88	5.0741	196.38	7.7316					2



*Refer to N74 for the tolerance of h6 and h8

Fig. 2 (diameter ø2.5 to 20.0mm 0.098"-0.787", double margin)



Diameter ø11.51mm to 12.50mm (.4531" to .4921") Dimensions (inch/mm)

Dia. DC			Cut Tap Size	Roll Form Tap Size	Hole Depth (L/D)	Stock	Cat. No.	Effective Length LU		Flute Length LCF		Overall Length OAL		Tip PL		Shank Dia. DCON		Fig		
mm	in.	Fraction						mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
11.51	0.4531	29/64	1/2-20		3	●	MDW04531HGS3	42.74	1.6825	62.38	2.4561	124.38	4.8970	2.38	0.0938			11.91	0.4688	2
					3	●	MDW04531HGS3S	42.74	1.6825	62.38	2.4561	124.38	4.8970					12.00	0.4724	2
					5	●	MDW04531HGS5	78.74	3.0999	98.38	3.8734	160.38	6.3143					11.91	0.4688	2
					5	●	MDW04531HGS5S	78.74	3.0999	98.38	3.8734	160.38	6.3143					12.00	0.4724	2
					8	●	MDW04531HGS8	114.74	4.5173	134.38	5.2907	196.38	7.7316					11.91	0.4688	2
					8	●	MDW04531HGS8S	114.74	4.5172	134.38	5.2907	196.38	7.7316					12.00	0.4724	2
11.60	0.4567		M12x1	3	●	MDW1160HGS3	45.00	1.7717	62.40	2.4568	124.40	4.8977	2.40	0.0945			12.00	0.4724	2	
				5	●	MDW1160HGS5	81.00	3.1890	98.40	3.8741	160.40	6.3151					12.00	0.4724	2	
				8	★	MDW1160HGS8	117.00	4.6063	134.40	5.2914	196.40	7.7324					12.00	0.4724	2	
11.70	0.4606			3	●	MDW1170HGS3	44.90	1.7677	62.42	2.4576	124.42	4.8985	2.42	0.0954			12.00	0.4724	2	
				5	●	MDW1170HGS5	80.90	3.1850	98.42	3.8749	160.42	6.3159					12.00	0.4724	2	
				8	★	MDW1170HGS8	116.90	4.6024	134.42	5.2922	196.42	7.7332					12.00	0.4724	2	
11.80	0.4646		1/2-13	3	●	MDW1180HGS3	44.70	1.7598	62.44	2.4584	124.44	4.8994	2.44	0.0962			12.00	0.4724	2	
				5	●	MDW1180HGS5	80.70	3.1772	98.44	3.8757	160.44	6.3167					12.00	0.4724	2	
				8	★	MDW1180HGS8	116.70	4.5945	134.44	5.2931	196.44	7.7340					12.00	0.4724	2	
11.90	0.4685			3	●	MDW1190HGS3	44.70	1.7598	62.46	2.4592	124.46	4.9002	2.46	0.0970			12.00	0.4724	2	
				5	●	MDW1190HGS5	80.70	3.1772	98.46	3.8766	160.46	6.3175					12.00	0.4724	2	
				8	★	MDW1190HGS8	116.70	4.5945	134.46	5.2939	196.46	7.7348					12.00	0.4724	2	
11.91	0.4688	15/32		3	●	MDW04688HGS3	42.13	1.6585	62.47	2.4593	124.47	4.9003	2.47	0.0971			11.91	0.4688	2	
				3	●	MDW04688HGS3S	42.13	1.6585	62.47	2.4593	124.47	4.9003					12.00	0.4724	2	
				5	●	MDW04688HGS5	78.14	3.0763	98.47	3.8766	160.47	6.3176					11.91	0.4688	2	
				5	●	MDW04688HGS5S	78.14	3.0763	98.47	3.8766	160.47	6.3176					12.00	0.4724	2	
				8	●	MDW04688HGS8	114.14	4.4937	134.47	5.2940	196.47	7.7349					11.91	0.4688	2	
				8	●	MDW04688HGS8S	114.14	4.4936	134.47	5.2940	196.47	7.7349					12.00	0.4724	2	
12.00	0.4724			3	●	MDW1200HGS3	44.50	1.7520	62.49	2.4601	124.49	4.9010	2.49	0.0978			12.00	0.4724	2	
				5	●	MDW1200HGS5	80.50	3.1693	98.49	3.8774	160.49	6.3183					12.00	0.4724	2	
				8	●	MDW1200HGS8	116.50	4.5866	134.49	5.2947	196.49	7.7356					12.00	0.4724	2	
12.10	0.4764			3	●	MDW1210HGS3	46.90	1.8465	65.01	2.5593	130.51	5.1380	2.51	0.0987			13.00	0.5118	2	
				3	●	MDW1210HGS3S	46.90	1.8465	65.01	2.5593	130.51	5.1380					14.00	0.5512	2	
				5	●	MDW1210HGS5	84.40	3.3228	102.51	4.0357	169.51	6.6735					13.00	0.5118	2	
				5	●	MDW1210HGS5S	84.40	3.3228	102.51	4.0357	169.51	6.6735					14.00	0.5512	2	
				8	●	MDW1210HGS8	121.90	4.7992	140.01	5.5120	208.51	8.2089					13.00	0.5118	2	
				8	●	MDW1210HGS8S	121.90	4.7992	140.01	5.5120	208.51	8.2089					14.00	0.5512	2	
12.20	0.4803			3	●	MDW1220HGS3	46.70	1.8386	65.03	2.5601	130.53	5.1388	2.53	0.0995			13.00	0.5118	2	
				3	●	MDW1220HGS3S	46.70	1.8386	65.03	2.5601	130.53	5.1388					14.00	0.5512	2	
				5	●	MDW1220HGS5	84.20	3.3150	102.53	4.0365	169.53	6.6743					13.00	0.5118	2	
				5	●	MDW1220HGS5S	84.20	3.3150	102.53	4.0365	169.53	6.6743					14.00	0.5512	2	
				8	●	MDW1220HGS8	121.70	4.7913	140.03	5.5129	208.53	8.2097					13.00	0.5118	2	
				8	●	MDW1220HGS8S	121.70	4.7913	140.03	5.5129	208.53	8.2097					14.00	0.5512	2	
12.30	0.4843			3	●	MDW1230HGS3	46.60	1.8346	65.05	2.5609	130.55	5.1397	2.55	0.0984			13.00	0.5118	2	
				3	●	MDW1230HGS3S	46.60	1.8346	65.05	2.5609	130.55	5.1397					14.00	0.5512	2	
				5	●	MDW1230HGS5	84.10	3.3110	102.55	4.0373	169.55	6.6751					13.00	0.5118	2	
				5	●	MDW1230HGS5S	84.10	3.3110	102.55	4.0373	169.55	6.6751					14.00	0.5512	2	
				8	●	MDW1230HGS8	121.60	4.7874	140.05	5.5137	208.55	8.2105					13.00	0.5118	2	
				8	●	MDW1230HGS8S	121.60	4.7874	140.05	5.5137	208.55	8.2105					14.00	0.5512	2	
12.40	0.4882			3	●	MDW04844HGS3	44.07	1.7350	65.05	2.5609	130.55	5.1397	2.55	0.1003			13.11	0.5156	2	
				3	●	MDW04844HGS3S	44.07	1.7350	65.05	2.5609	130.55	5.1397					14.00	0.5512	2	
				5	●	MDW04844HGS5	81.54	3.2104	102.55	4.0373	169.55	6.6751					13.10	0.5156	2	
				5	●	MDW04844HGS5S	81.54	3.2104	102.55	4.0373	169.55	6.6751					14.00	0.5512	2	
				8	●	MDW04844HGS8	119.04	4.6868	140.05	5.5137	208.55	8.2105					13.10	0.5156	2	
				8	●	MDW04844HGS8S	119.04	4.6864	140.05	5.5137	208.55	8.2105					14.00	0.5512	2	
12.50	0.4921			3	●	MDW1240HGS3	46.50	1.8307	65.07	2.5617	130.57	5.1405	2.57	0.1011			13.00	0.5118	2	
				3	●	MDW1240HGS3S	46.50	1.8307	65.07	2.5617	130.57	5.1405					14.00	0.5512	2	
				5	●	MDW1240HGS5	84.00	3.3071	102.57	4.0381	169.57	6.6759					13.00	0.5118	2	
				5	●	MDW1240HGS5S	84.00	3.3071	102.57	4.0381	169.57	6.6759					14.00	0.5512	2	
				8	●	MDW1240HGS8	121.50	4.7835	140.07	5.5145	208.57	8.2113					13.00	0.5118	2	
				8	●	MDW1240HGS8S	121.50	4.7835	140.07	5.5145	208.57	8.2113					14.00	0.5512	2	
12.50	0.4921			3	●	MDW1250HGS3	46.40	1.8268	65.09	2.5626	130.59	5.1413	2.59	0.1019			13.00	0.5118	2	
				3	●	MDW1250HGS3S	46.40	1.8268	65.09	2.5626	130.59	5.1413					14.00	0.5512	2	
				5	●	MDW1250HGS5	83.90	3.3031	102.59	4.0389	169.59	6.6767					13.00	0.5118	2	
				5	●	MDW1250HGS5S	83.90	3.3031	102.59	4.0389	169.59	6.6767					14.00	0.5512	2	
				8	●	MDW1250HGS8	121.40	4.7795	140.09	5.5153	208.59	8.2122					13.00	0.5118	2	
				8	●	MDW1250HGS8S	121.40	4.7795	140.09	5.5153	208.59	8.2122					14.00	0.5512	2	

Super MultiDrills

HGS (Internal Coolant Supply)

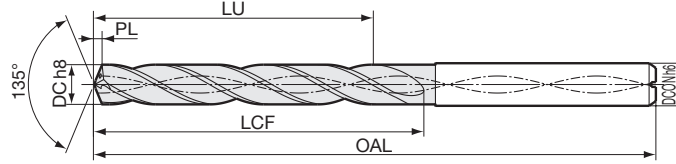
Carbon Steel Alloy Steel up to 0.28%
Carbon Steel Alloy Steel up to 0.29%
Tempered Steel
Hardened Steel up to 45HRC
Hardened Steel from 46HRC
Stainless Steel
Ti Alloy
Heat-resistant Steel
Cast Iron
Ductile Cast Iron
Copper Alloy



3D 5D 8D

*Refer to N74 for the tolerance of h6 and h8

Fig. 2 (diameter ø2.5 to 20.0mm 0.098"-0.787", double margin)



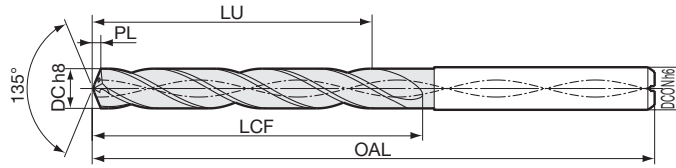
Diameter ø12.60mm to 13.49mm (.4961" to .5312") Dimensions (inch/mm)

Dia. DC			Cut Tap Size	Roll Form Tap Size	Hole Depth (L/D)	Stock	Cat. No.	Effective Length LU		Flute Length LCF		Overall Length OAL		Tip PL		Shank Dia. DCON		Fig
mm	in.	Fraction						mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
12.60	0.4961				3	●	MDW1260HGS3	48.70	1.9173	67.61	2.6618	130.61	5.1421	2.61	0.1027	13.00	0.5118	2
					3	●	MDW1260HGS3S	48.70	1.9173	67.61	2.6618	130.61	5.1421			14.00	0.5512	2
					5	●	MDW1260HGS5	87.70	3.4528	106.61	4.1972	169.61	6.6775			13.00	0.5118	2
					5	●	MDW1260HGS5S	87.70	3.4528	106.61	4.1972	169.61	6.6775			14.00	0.5512	2
					8	●	MDW1260HGS8	126.70	4.9882	145.61	5.7327	208.61	8.2130			13.00	0.5118	2
					8	●	MDW1260HGS8S	126.70	4.9882	145.61	5.7327	208.61	8.2130			14.00	0.5512	2
12.70	0.5000	1/2	M14x1.5	3	●	MDW1270HGS3	48.60	1.9134	67.63	2.6626	130.63	5.1429	2.63	0.1036	13.00	0.5118	2	
				3	●	MDW1270HGS3S	48.60	1.9134	67.63	2.6626	130.63	5.1429			14.00	0.5512	2	
				5	●	MDW1270HGS5	87.60	3.4488	106.63	4.1980	169.63	6.6784			13.00	0.5118	2	
				5	●	MDW1270HGS5S	87.60	3.4488	106.63	4.1980	169.63	6.6784			14.00	0.5512	2	
				8	●	MDW1270HGS8	126.60	4.9843	145.63	5.7335	208.63	8.2138			13.00	0.5118	2	
				8	●	MDW1270HGS8S	126.60	4.9843	145.63	5.7335	208.63	8.2138			14.00	0.5512	2	
				3	●	MDW05000HGS3	45.95	1.8090	67.63	2.6626	130.63	5.1429	2.63	0.1036	13.11	0.5156	2	
				3	●	MDW05000HGS3S	45.95	1.8090	67.63	2.6626	130.63	5.1429			14.00	0.5512	2	
				5	●	MDW05000HGS5	84.95	3.3445	106.63	4.1980	169.63	6.6784			13.10	0.5156	2	
				5	●	MDW05000HGS5S	84.95	3.3445	106.63	4.1980	169.63	6.6784			14.00	0.5512	2	
				8	●	MDW05000HGS8	123.95	4.8799	145.63	5.7335	208.63	8.2138			13.10	0.5156	2	
				8	●	MDW05000HGS8S	126.60	4.9843	145.63	5.7335	208.63	8.2138			14.00	0.5512	2	
12.80	0.5039		9/16-18	3	●	MDW1280HGS3	48.40	1.9055	67.65	2.6634	130.65	5.1437	2.65	0.1024	13.00	0.5118	2	
				3	●	MDW1280HGS3S	48.40	1.9055	67.65	2.6634	130.65	5.1437			14.00	0.5512	2	
				5	●	MDW1280HGS5	87.40	3.4409	106.65	4.1989	169.65	6.6792			13.00	0.5118	2	
				5	●	MDW1280HGS5S	87.40	3.4409	106.65	4.1989	169.65	6.6792			14.00	0.5512	2	
				8	●	MDW1280HGS8	126.40	4.9764	145.65	5.7343	208.65	8.2146			13.00	0.5118	2	
				8	●	MDW1280HGS8S	126.40	4.9764	145.65	5.7343	208.65	8.2146			14.00	0.5512	2	
12.83	0.5051			5	●	MDW1283HGS5	84.76	3.3368	106.66	4.1991	169.66	6.6794	2.66	0.1046	13.00	0.5118	2	
				5	●	MDW1283HGS5S	84.76	3.3368	106.66	4.1991	169.66	6.6794			14.00	0.5512	2	
				8	●	MDW1283HGS8S	84.76	3.3368	145.66	5.7345	208.66	8.2148					2	
12.90	0.5079		M14x1.25	3	●	MDW1290HGS3	48.40	1.9055	67.67	2.6642	130.67	5.1446	2.67	0.1052	13.00	0.5118	2	
				3	●	MDW1290HGS3S	48.40	1.9055	67.67	2.6642	130.67	5.1446			14.00	0.5512	2	
				5	●	MDW1290HGS5	87.40	3.4409	106.67	4.1997	169.67	6.6800			13.00	0.5118	2	
				5	●	MDW1290HGS5S	87.40	3.4409	106.67	4.1997	169.67	6.6800			14.00	0.5512	2	
				8	●	MDW1290HGS8	126.40	4.9764	145.67	5.7351	208.67	8.2154			13.00	0.5118	2	
				8	●	MDW1290HGS8S	126.40	4.9764	145.67	5.7351	208.67	8.2154			14.00	0.5512	2	
13.00	0.5118			3	●	MDW1300HGS3	48.20	1.8976	67.69	2.6651	130.69	5.1454	2.69	0.1060	13.00	0.5118	2	
				3	●	MDW1300HGS3S	48.20	1.8976	67.69	2.6651	130.69	5.1454			14.00	0.5512	2	
				5	●	MDW1300HGS5	87.20	3.4331	106.69	4.2005	169.69	6.6808			13.00	0.5118	2	
				5	●	MDW1300HGS5S	87.20	3.4331	106.69	4.2005	169.69	6.6808			14.00	0.5512	2	
				8	●	MDW1300HGS8	126.20	4.9685	145.69	5.7359	208.69	8.2162			13.00	0.5118	2	
				8	●	MDW1300HGS8S	126.20	4.9685	145.69	5.7359	208.69	8.2162			14.00	0.5512	2	
13.10	0.5156	33/64	M14x1	M14x2	3	●	MDW05156HGS3	45.35	1.7856	67.71	2.6659	130.71	5.1462	2.71	0.1068	13.10	0.5156	2
					3	●	MDW05156HGS3S	45.35	1.7856	70.21	2.7643	136.71	5.3824			14.00	0.5512	2
					5	●	MDW05156HGS5	84.36	3.3211	106.71	4.2013	169.71	6.6816			13.10	0.5156	2
					5	●	MDW05156HGS5S	84.36	3.3211	110.71	4.3588	178.71	7.0359			14.00	0.5512	2
					8	●	MDW05156HGS8	123.36	4.8565	145.71	5.7367	208.71	8.2171			13.10	0.5156	2
					8	●	MDW05156HGS8S	123.36	4.8565	151.21	5.9533	220.71	8.6895					2
	0.5157			3	●	MDW1310HGS3	50.60	1.9921	70.21	2.7643	136.71	5.3824	2.71	0.1068	14.00	0.5512	2	
				5	●	MDW1310HGS5	91.10	3.5866	110.71	4.3588	178.71	7.0359					2	
				8	●	MDW1310HGS8	131.60	5.1811	151.21	5.9533	220.71	8.6895					2	
13.20	0.5197			3	●	MDW1320HGS3	50.40	1.9843	70.23	2.7651	136.73	5.3832	2.73	0.1076	14.00	0.5512	2	
				5	●	MDW1320HGS5	90.90	3.5787	110.73	4.3596	178.73	7.0368					2	
				8	●	MDW1320HGS8	131.40	5.1732	151.23	5.9541	220.73	8.6903					2	
13.30	0.5236		M14x1.5	3	●	MDW1330HGS3	50.40	1.9843	70.25	2.7659	136.75	5.3840	2.75	0.1084	14.00	0.5512	2	
				5	●	MDW1330HGS5	90.90	3.5787	110.75	4.3604	178.75	7.0376					2	
				8	●	MDW1330HGS8	131.40	5.1732	151.25	5.9549	220.75	8.6911					2	
13.40	0.5276		9/16-12 M14x1.25	3	●	MDW1340HGS3	50.20	1.9764	70.28	2.7667	136.78	5.3849	2.78	0.1093	14.00	0.5512	2	
				5	●	MDW1340HGS5	90.70	3.5709	110.78	4.3612	178.78	7.0384					2	
				8	●	MDW1340HGS8	131.20	5.1654	151.28	5.9557	220.78	8.6919					2	
13.49	0.5312	17/32	M14x1	3	●	MDW05312HGS3	47.28	1.8615	70.29	2.7675	136.79	5.3856	2.79	0.1100	13.89	0.5469	2	
				3	●	MDW05312HGS3S	47.28	1.8615	70.29	2.7675	136.79	5.3856			14.00	0.5512	2	
				5	●	MDW05312HGS5	87.76	3.4552	110.79	4.3620	178.79	7.0391			13.89	0.5469	2	
				5	●	MDW05312HGS5S	87.76	3.4552	110.79	4.3620	178.79	7.0391			14.00	0.5512	2	
				8	●	MDW05312HGS8	128.26	5.0497	151.29	5.9565	220.79	8.6927			13.89	0.5469	2	
				8	●	MDW05312HGS8S	47.28	1.8613	151.29	5.9565	220.79	8.6927			14.00	0.5512	2	



*Refer to N74 for the tolerance of h6 and h8

Fig. 2 (diameter ø2.5 to 20.0mm 0.098"-0.787", double margin)



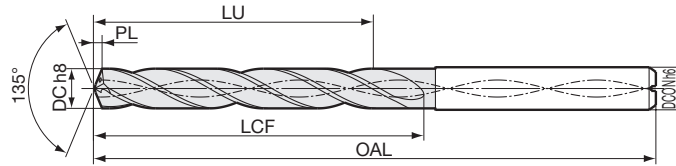
Diameter ø13.50mm to 14.50mm (.5315" to .5709") Dimensions (inch/mm)

Dia. DC			Cut Tap Size	Roll Form Tap Size	Hole Depth (L/D)	Stock	Cat. No.	Effective Length LU		Flute Length LCF		Overall Length OAL		Tip PL		Shank Dia. DCON		Fig
mm	in.	Fraction						mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
13.50	0.5315				3	●	MDW1350HGS3	50.10	1.9724	70.30	2.7676	136.80	5.3857	2.80	0.1102	14.00	0.5512	2
					5	●	MDW1350HGS5	90.60	3.5669	110.80	4.3620	178.80	7.0392					2
					8	●	MDW1350HGS8	131.10	5.1614	151.30	5.9565	220.80	8.6928					2
13.60	0.5354		5/8-11		3	●	MDW1360HGS3	52.40	2.0630	72.82	2.8668	136.82	5.3865	2.82	0.1109	14.00	0.5512	2
					5	●	MDW1360HGS5	94.40	3.7165	114.82	4.5203	178.82	7.0400					2
					8	●	MDW1360HGS8	136.40	5.3701	156.82	6.1739	220.82	8.6936					2
13.70	0.5394		M15x1.5	9/16-18	3	●	MDW1370HGS3	52.30	2.0591	72.84	2.8676	136.84	5.3873	2.84	0.1117	14.00	0.5512	2
					5	●	MDW1370HGS5	94.30	3.7126	114.84	4.5212	178.84	7.0408					2
					8	●	MDW1370HGS8	136.30	5.3661	156.84	6.1747	220.84	8.6944					2
13.80	0.5433				3	●	MDW1380HGS3	52.20	2.0551	72.86	2.8684	136.86	5.3881	2.86	0.1125	14.00	0.5512	2
					5	●	MDW1380HGS5	94.20	3.7087	114.86	4.5220	178.86	7.0417					2
					8	●	MDW1380HGS8	136.20	5.3622	156.86	6.1755	220.86	8.6952					2
13.89	0.5469	35/64			3	●	MDW05469HGS3	49.17	1.9357	72.88	2.8692	136.88	5.3888	2.88	0.1133	13.89	0.5469	2
					3	●	MDW05469HGS3S	49.17	1.9357	72.88	2.8692	136.88	5.3888					2
					5	●	MDW05469HGS5	91.16	3.5891	114.88	4.5227	178.88	7.0424					2
					5	●	MDW05469HGS5S	91.16	3.5891	114.88	4.5227	178.88	7.0424					2
					8	●	MDW05469HGS8	133.16	5.2427	156.88	6.1762	220.88	8.6959					2
					8	●	MDW05469HGS8S	133.17	5.2427	156.88	6.1762	220.88	8.6959					2
13.90	0.5472				3	●	MDW1390HGS3	52.10	2.0512	72.88	2.8692	136.88	5.3889	2.88	0.1133	14.00	0.5512	2
					5	●	MDW1390HGS5	94.10	3.7047	114.88	4.5228	178.88	7.0425					2
					8	●	MDW1390HGS8	136.10	5.3583	156.88	6.1763	220.88	8.6960					2
14.00	0.5512				3	●	MDW1400HGS3	51.90	2.0433	72.90	2.8701	136.90	5.3897	2.90	0.1142	14.00	0.5512	2
					5	●	MDW1400HGS5	93.90	3.6969	114.90	4.5236	178.90	7.0433					2
					8	●	MDW1400HGS8	135.90	5.3504	156.90	6.1771	220.90	8.6968					2
14.10	0.5551		M15x1		3	●	MDW1410HGS3	54.30	2.1378	75.42	2.9693	142.92	5.6268	2.92	0.1159	15.00	0.5906	2
					3	●	MDW1410HGS3S	54.30	2.1378	75.42	2.9693	142.92	5.6268					2
					5	●	MDW1410HGS5	97.80	3.8504	118.92	4.6819	187.92	7.3984					2
					5	●	MDW1410HGS5S	97.80	3.8504	118.92	4.6819	187.92	7.3984					2
					8	●	MDW1410HGS8	141.30	5.5630	162.42	6.3945	232.92	9.1701					2
					8	●	MDW1410HGS8S	141.30	5.5630	162.42	6.3945	232.92	9.1701					2
14.20	0.5591				3	●	MDW1420HGS3	54.10	2.1299	75.44	2.9701	142.94	5.6276	2.94	0.1158	15.00	0.5906	2
					3	●	MDW1420HGS3S	54.10	2.1299	75.44	2.9701	142.94	5.6276					2
					5	●	MDW1420HGS5	97.60	3.8425	118.94	4.6827	187.94	7.3992					2
					5	●	MDW1420HGS5S	97.60	3.8425	118.94	4.6827	187.94	7.3992					2
					8	●	MDW1420HGS8	141.10	5.5551	162.44	6.3953	232.94	9.1709					2
					8	●	MDW1420HGS8S	141.10	5.5551	162.44	6.3953	232.94	9.1709					2
14.29	0.5625	9/16	M16x2	M15x1.5	3	●	MDW05625HGS3	51.04	2.0095	75.46	2.9708	142.96	5.6283	2.96	0.1165	15.08	0.5937	2
					3	●	MDW05625HGS3S	51.04	2.0095	75.46	2.9708	142.96	5.6283					2
					5	●	MDW05625HGS5	94.57	3.7232	118.96	4.6834	187.96	7.4000					2
					5	●	MDW05625HGS5S	94.57	3.7232	118.96	4.6834	187.96	7.4000					2
					8	●	MDW05625HGS8	138.07	5.4358	162.46	6.3960	232.96	9.1716					2
					8	●	MDW05625HGS8S	138.06	5.4356	162.46	6.3960	232.96	9.1716					2
14.30	0.5630				3	●	MDW1430HGS3	54.10	2.1299	75.46	2.9709	142.96	5.6284	2.96	0.1166	15.00	0.5906	2
					3	●	MDW1430HGS3S	54.10	2.1299	75.46	2.9709	142.96	5.6284					2
					5	●	MDW1430HGS5	97.60	3.8425	118.96	4.6835	187.96	7.4001					2
					5	●	MDW1430HGS5S	97.60	3.8425	118.96	4.6835	187.96	7.4001					2
					8	●	MDW1430HGS8	141.10	5.5551	162.46	6.3961	232.96	9.1717					2
					8	●	MDW1430HGS8S	141.10	5.5551	162.46	6.3961	232.96	9.1717					2
14.40	0.5669				3	●	MDW1440HGS3	53.90	2.1220	75.48	2.9717	142.98	5.6292	2.98	0.1174	15.00	0.5906	2
					3	●	MDW1440HGS3S	53.90	2.1220	75.48	2.9717	142.98	5.6292					2
					5	●	MDW1440HGS5	97.40	3.8346	118.98	4.6843	187.98	7.4009					2
					5	●	MDW1440HGS5S	97.40	3.8346	118.98	4.6843	187.98	7.4009					2
					8	●	MDW1440HGS8	140.90	5.5472	162.48	6.3969	232.98	9.1725					2
					8	●	MDW1440HGS8S	140.90	5.5472	162.48	6.3969	232.98	9.1725					2
14.50	0.5709		5/8-18	M15x1	3	●	MDW1450HGS3	53.80	2.1181	75.50	2.9726	143.00	5.6300	3.00	0.1181	15.00	0.5906	2
					3	●	MDW1450HGS3S	53.80	2.1181	75.50	2.9726	143.00	5.6300					2
					5	●	MDW1450HGS5	97.30	3.8307	119.00	4.6852	188.00	7.4017					2
					5	●	MDW1450HGS5S	97.30	3.8307	119.00	4.6852	188.00	7.4017					2
					8	●	MDW1450HGS8	140.80	5.5433	162.50	6.3978	233.00	9.1733					2
					8	●	MDW1450HGS8S	140.80	5.5433	162.50	6.3978	233.00	9.1733					2



*Refer to N74 for the tolerance of h6 and h8

Fig. 2 (diameter ø2.5 to 20.0mm 0.098"-0.787", double margin)

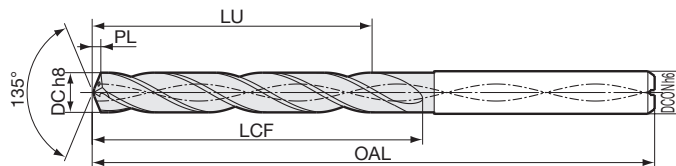


Diameter ø14.60mm to 15.50mm (.5748" to .6102") Dimensions (inch/mm)

Dia. DC			Cut Tap Size	Roll Form Tap Size	Hole Depth (L/D)	Stock	Cat. No.	Effective Length LU		Flute Length LCF		Overall Length OAL		Tip PL		Shank Dia. DCON		Fig
mm	in.	Fraction						mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
14.60	0.5748				3	●	MDW1460HGS3	56.10	2.2087	78.02	3.0718	143.02	5.6309	3.02	0.1190	15.00	0.5906	2
					3	●	MDW1460HGS3S	56.10	2.2087	78.02	3.0718	143.02	5.6309			16.00	0.6299	2
					5	●	MDW1460HGS5	101.10	3.9803	123.02	4.8435	188.02	7.4025			15.00	0.5906	2
					5	●	MDW1460HGS5S	101.10	3.9803	123.02	4.8435	188.02	7.4025			16.00	0.6299	2
					8	●	MDW1460HGS8	146.10	5.7520	168.02	6.6151	233.02	9.1742			15.00	0.5906	2
					8	●	MDW1460HGS8S	146.10	5.7520	168.02	6.6151	233.02	9.1742			16.00	0.6299	2
14.68	0.5781	37/64	M16x1.5	3	●	MDW05781HGS3	52.98	2.0860	78.04	3.0725	143.04	5.6315	3.04	0.1197	15.08	0.5937	2	
				3	●	MDW05781HGS3S	52.98	2.0860	78.04	3.0725	143.04	5.6315			16.00	0.6299	2	
				5	●	MDW05781HGS5	97.97	3.8573	123.04	4.8441	188.04	7.4032			15.08	0.5937	2	
				5	●	MDW05781HGS5S	97.97	3.8573	123.04	4.8441	188.04	7.4032			16.00	0.6299	2	
				8	●	MDW05781HGS8	142.98	5.6290	168.04	6.6158	233.04	9.1748			15.08	0.5937	2	
				8	●	MDW05781HGS8S	142.98	5.6292	168.04	6.6158	233.04	9.1748			16.00	0.6299	2	
14.70	0.5787			3	●	MDW1470HGS3	56.00	2.2047	78.04	3.0726	143.04	5.6317	3.04	0.1199	15.00	0.5906	2	
				3	●	MDW1470HGS3S	56.00	2.2047	78.04	3.0726	143.04	5.6317			16.00	0.6299	2	
				5	●	MDW1470HGS5	101.00	3.9764	123.04	4.8443	188.04	7.4033			15.00	0.5906	2	
				5	●	MDW1470HGS5S	101.00	3.9764	123.04	4.8443	188.04	7.4033			16.00	0.6299	2	
				8	●	MDW1470HGS8	146.00	5.7480	168.04	6.6159	233.04	9.1750			15.00	0.5906	2	
				8	●	MDW1470HGS8S	146.00	5.7480	168.04	6.6159	233.04	9.1750			16.00	0.6299	2	
14.80	0.5827			3	●	MDW1480HGS3	55.90	2.2008	78.07	3.0734	143.07	5.6325	3.07	0.1207	15.00	0.5906	2	
				3	●	MDW1480HGS3S	55.90	2.2008	78.07	3.0734	143.07	5.6325			16.00	0.6299	2	
				5	●	MDW1480HGS5	100.90	3.9724	123.07	4.8451	188.07	7.4041			15.00	0.5906	2	
				5	●	MDW1480HGS5S	100.90	3.9724	123.07	4.8451	188.07	7.4041			16.00	0.6299	2	
				8	●	MDW1480HGS8	145.90	5.7441	168.07	6.6167	233.07	9.1758			15.00	0.5906	2	
				8	●	MDW1480HGS8S	145.90	5.7441	168.07	6.6167	233.07	9.1758			16.00	0.6299	2	
14.90	0.5866		5/8-11	3	●	MDW1490HGS3	55.80	2.1969	78.09	3.0742	143.09	5.6333	3.09	0.1215	15.00	0.5906	2	
				3	●	MDW1490HGS3S	55.80	2.1969	78.09	3.0742	143.09	5.6333			16.00	0.6299	2	
				5	●	MDW1490HGS5	100.80	3.9685	123.09	4.8459	188.09	7.4050			15.00	0.5906	2	
				5	●	MDW1490HGS5S	100.80	3.9685	123.09	4.8459	188.09	7.4050			16.00	0.6299	2	
				8	●	MDW1490HGS8	145.80	5.7402	168.09	6.6176	233.09	9.1766			15.00	0.5906	2	
				8	●	MDW1490HGS8S	145.80	5.7402	168.09	6.6176	233.09	9.1766			16.00	0.6299	2	
15.00	0.5906			3	●	MDW1500HGS3	55.60	2.1890	78.11	3.0751	143.11	5.6341	3.11	0.1223	15.00	0.5906	2	
				3	●	MDW1500HGS3S	55.60	2.1890	78.11	3.0751	143.11	5.6341			16.00	0.6299	2	
				5	●	MDW1500HGS5	100.60	3.9606	123.11	4.8467	188.11	7.4058			15.00	0.5906	2	
				5	●	MDW1500HGS5S	100.60	3.9606	123.11	4.8467	188.11	7.4058			16.00	0.6299	2	
				8	●	MDW1500HGS8	145.60	5.7323	168.11	6.6184	233.11	9.1774			15.00	0.5906	2	
				8	●	MDW1500HGS8S	145.60	5.7323	168.11	6.6184	233.11	9.1774			16.00	0.6299	2	
15.08	0.5937	19/32	M16x1	M16x2	3	●	MDW05937HGS3	52.37	2.0620	78.13	3.0758	143.13	5.6349	3.12	0.1230	15.08	0.5937	2
					3	●	MDW05937HGS3S	52.37	2.0620	80.63	3.1742	149.13	5.8711			16.00	0.6299	2
					5	●	MDW05937HGS5	97.38	3.8339	123.12	4.8474	188.12	7.4064			15.08	0.5937	2
					5	●	MDW05937HGS5S	97.38	3.8339	127.12	5.0048	197.12	7.7608			16.00	0.6299	2
					8	●	MDW05937HGS8	142.38	5.6056	168.12	6.6190	233.12	9.1781			15.08	0.5937	2
					8	●	MDW05937HGS8S	142.38	5.6055	173.62	6.8356	245.12	9.6505			16.00	0.6299	2
15.10	0.5945			3	●	MDW1510HGS3	58.00	2.2835	80.63	3.1743	149.13	5.8712	3.13	0.1231	16.00	0.6299	2	
				5	●	MDW1510HGS5	104.50	4.1142	127.13	5.0050	197.13	7.7609					2	
				8	●	MDW1510HGS8	151.00	5.9449	173.63	6.8357	245.13	9.6507					2	
15.20	0.5984			3	●	MDW1520HGS3	57.80	2.2756	80.65	3.1751	149.15	5.8720	3.15	0.1239	16.00	0.6299	2	
				5	●	MDW1520HGS5	104.30	4.1063	127.15	5.0058	197.15	7.7617					2	
				8	●	MDW1520HGS8	150.80	5.9370	173.65	6.8365	245.15	9.6515					2	
15.30	0.6024		5/8-18 M16x1.5	3	●	MDW1530HGS3	57.80	2.2756	80.67	3.1759	149.17	5.8728	3.17	0.1248	16.00	0.6299	2	
				5	●	MDW1530HGS5	104.30	4.1063	127.17	5.0066	197.17	7.7625					2	
				8	●	MDW1530HGS8	150.80	5.9370	173.67	6.8374	245.17	9.6523					2	
15.40	0.6063			3	●	MDW1540HGS3	57.60	2.2677	80.69	3.1767	149.19	5.8736	3.19	0.1256	16.00	0.6299	2	
				5	●	MDW1540HGS5	104.10	4.0984	127.19	5.0075	197.19	7.7634					2	
				8	●	MDW1540HGS8	150.60	5.9291	173.69	6.8382	245.19	9.6531					2	
15.48	0.6094	39/64	11/16-12	3	●	MDW06094HGS3	54.29	2.1375	80.70	3.1773	149.20	5.8742	3.21	0.1262	15.88	0.6250	2	
				3	●	MDW06094HGS3S	54.29	2.1375	80.70	3.1773	149.20	5.8742			16.00	0.6299	2	
				5	●	MDW06094HGS5	100.78	3.9678	127.21	5.0081	197.21	7.7640			15.88	0.6250	2	
				5	●	MDW06094HGS5S	100.78	3.9678	127.21	5.0081	197.21	7.7640			16.00	0.6299	2	
				8	●	MDW06094HGS8	147.28	5.7985	173.71	6.8388	245.21	9.6538			15.88	0.6250	2	
				8	●	MDW06094HGS8S	147.28	5.7984	173.71	6.8388	245.21	9.6538			16.00	0.6299	2	
15.50	0.6102			3	●	MDW1550HGS3	57.50	2.2638	80.71	3.1776	149.21	5.8744	3.21	0.1264	16.00	0.6299	2	
				5	●	MDW1550HGS5	104.00	4.0945	127.21	5.0083	197.21	7.7642					2	
				8	●	MDW1550HGS8	150.50	5.9252	173.71	6.8390	245.21	9.6539					2	

*Refer to N74 for the tolerance of h6 and h8

Fig. 2 (diameter ø2.5 to 20.0mm 0.098"-0.787", double margin)



Diameter ø15.60mm to 17.70mm (.6142" to .6969") Dimensions (inch/mm)

Dia. DC			Cut Tap	Roll Form	Hole Depth	Stock	Cat. No.	Effective Length LU		Flute Length LCF		Overall Length OAL		Tip PL		Shank Dia. DCON		Fig
mm	in.	Fraction	Size	Tap Size	(L/D)			mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
15.60	0.6142			M16x1	3	●	MDW1560HGS3	59.80	2.3543	83.23	3.2768	149.23	5.8752	3.23	0.1272	16.00	0.6299	2
					5	●	MDW1560HGS5	107.80	4.2441	131.23	5.1666	197.23	7.7650					2
					8	●	MDW1560HGS8	155.80	6.1339	179.23	7.0563	245.23	9.6548					2
15.70	0.6181		M18x2.5	3	●	MDW1570HGS3	59.70	2.3504	83.25	3.2776	149.25	5.8760	3.25	0.1280	16.00	0.6299	2	
				5	★	MDW1570HGS5	107.70	4.2402	131.25	5.1674	197.25	7.7658					2	
				8	●	MDW1570HGS8	155.70	6.1299	179.25	7.0571	245.25	9.6556					2	
15.80	0.6220			3	●	MDW1580HGS3	59.60	2.3465	83.27	3.2784	149.27	5.8769	3.27	0.1288	16.00	0.6299	2	
				5	●	MDW1580HGS5	107.60	4.2362	131.27	5.1682	197.27	7.7666					2	
				8	●	MDW1580HGS8	155.60	6.1260	179.27	7.0580	245.27	9.6564					2	
15.88	0.6250	5/8		3	●	MDW06250HGS3	56.20	2.2125	83.29	3.2791	149.29	5.8775	3.29	0.1294	15.88	0.6250	2	
				3	●	MDW06250HGS3S	56.20	2.2125	83.29	3.2791	149.29	5.8775					2	
				5	●	MDW06250HGS5	104.19	4.1019	131.29	5.1689	197.29	7.7673					2	
				5	●	MDW06250HGS5S	104.19	4.1019	131.29	5.1689	197.29	7.7673					2	
				8	●	MDW06250HGS8	152.19	5.9916	179.29	7.0586	245.29	9.6570					2	
				8	●	MDW06250HGS8S	152.18	5.9913	179.29	7.0586	245.29	9.6570					2	
15.90	0.6260			3	●	MDW1590HGS3	59.50	2.3425	83.29	3.2793	149.29	5.8777	3.29	0.1296	16.00	0.6299	2	
				5	●	MDW1590HGS5	107.50	4.2323	131.29	5.1690	197.29	7.7674					2	
				8	●	MDW1590HGS8	155.50	6.1220	179.29	7.0588	245.29	9.6572					2	
16.00	0.6299			3	●	MDW1600HGS3	59.30	2.3346	83.31	3.2801	149.31	5.8785	3.31	0.1305	16.00	0.6299	2	
				5	●	MDW1600HGS5	107.30	4.2244	131.31	5.1698	197.31	7.7683					2	
				8	●	MDW1600HGS8	155.30	6.1142	179.31	7.0596	245.31	9.6580					2	
16.10	0.6339			3	★	MDW1610HGS3	61.70	2.4291	85.83	3.3793	155.33	6.1155	3.33	0.1313	17.00	0.6693	2	
				5	★	MDW1610HGS5	111.20	4.3780	135.33	5.3281	206.33	8.1234					2	
16.20	0.6378			3	★	MDW1620HGS3	61.60	2.4252	85.86	3.3801	155.36	6.1163	3.36	0.1321	17.00	0.6693	2	
				5	★	MDW1620HGS5	111.10	4.3740	135.36	5.3289	206.36	8.1242					2	
16.27	0.6406	41/64	M18x2	M17x1.5	3	●	MDW06406HGS3	58.09	2.2870	85.87	3.3807	155.37	6.1169	3.37	0.1327	17.07	0.6720	2
					5	●	MDW06406HGS5	107.60	4.2360	135.37	5.3295	206.37	8.1248					2
16.30	0.6417				3	★	MDW1630HGS3	61.50	2.4213	85.88	3.3809	155.38	6.1172	3.38	0.1329	17.00	0.6693	2
					5	★	MDW1630HGS5	111.00	4.3701	135.38	5.3298	206.38	8.1250					2
16.40	0.6457				3	★	MDW1640HGS3	61.30	2.4134	85.90	3.3818	155.40	6.1180	3.40	0.1339	17.00	0.6693	2
					5	★	MDW1640HGS5	110.80	4.3622	135.40	5.3306	206.40	8.1258					2
16.50	0.6496		3/4-10	M17x1	3	●	MDW1650HGS3	61.20	2.4094	85.92	3.3826	155.42	6.1188	3.42	0.1345	17.00	0.6693	2
					5	★	MDW1650HGS5	110.70	4.3583	135.42	5.3314	206.42	8.1267					2
16.60	0.6535				3	★	MDW1660HGS3	63.50	2.5000	88.44	3.4818	155.44	6.1196	3.44	0.1354	17.00	0.6693	2
					5	★	MDW1660HGS5	114.50	4.5079	139.44	5.4897	206.44	8.1275					2
16.67	0.6562	21/32	M18x1.5		3	●	MDW06562HGS3	60.00	2.3622	88.45	3.4824	155.45	6.1202	3.45	0.1359	17.00	0.6693	2
					5	●	MDW06562HGS5	110.99	4.3697	139.45	5.4903	206.45	8.1281					2
16.70	0.6575				3	★	MDW1670HGS3	63.50	2.5000	88.46	3.4826	155.46	6.1204	3.46	0.1378	17.00	0.6693	2
					5	★	MDW1670HGS5	114.50	4.5079	139.46	5.4905	206.46	8.1283					2
16.80	0.6614				3	★	MDW1680HGS3	63.30	2.4921	88.48	3.4834	155.48	6.1212	3.48	0.1362	17.00	0.6693	2
					5	★	MDW1680HGS5	114.30	4.5000	139.48	5.4913	206.48	8.1291					2
16.90	0.6654				3	★	MDW1690HGS3S	63.20	2.4882	88.50	3.4843	155.50	6.1221	3.50	0.1370	18.00	0.7087	2
					5	★	MDW1690HGS5S	114.20	4.4961	139.50	5.4921	206.50	8.1299					2
17.00	0.6693				3	●	MDW1700HGS3	63.00	2.4803	88.52	3.4851	155.52	6.1229	3.52	0.1386	17.00	0.6693	2
					5	●	MDW1700HGS5	114.00	4.4882	139.52	5.4929	206.52	8.1307					2
17.07	0.6719	43/64			3	●	MDW06719HGS3S	58.33	2.2966	91.04	3.5841	161.54	6.3597	3.53	0.1392	18.00	0.7087	2
					5	●	MDW06719HGS5S	93.33	3.6745	143.54	5.6510	217.54	8.5644					2
17.10	0.6732				3	★	MDW1710HGS3	65.40	2.5748	91.04	3.5843	161.54	6.3599	3.54	0.1394	18.00	0.7087	2
					5	★	MDW1710HGS5	117.90	4.6417	143.54	5.6512	217.54	8.5646					2
17.20	0.6772				3	★	MDW1720HGS3	65.30	2.5709	91.06	3.5851	161.56	6.3607	3.56	0.1402	18.00	0.7087	2
					5	★	MDW1720HGS5	117.80	4.6378	143.56	5.6521	217.56	8.5654					2
17.30	0.6811				3	★	MDW1730HGS3	65.20	2.5669	91.08	3.5859	161.58	6.3615	3.58	0.1411	18.00	0.7087	2
					5	★	MDW1730HGS5	117.70	4.6339	143.58	5.6529	217.58	8.5663					2
17.40	0.6850			M18x1.5	3	★	MDW1740HGS3	65.00	2.5591	91.10	3.5868	161.60	6.3623	3.60	0.1417	18.00	0.7087	2
					5	★	MDW1740HGS5	117.50	4.6260	143.60	5.6537	217.60	8.5671					2
17.46	0.6875	11/16			3	●	MDW06875HGS3	61.31	2.4136	91.12	3.5872	161.62	6.3628	3.62	0.1424	17.86	0.7030	2
					5	●	MDW06875HGS5	113.81	4.4808	143.62	5.6542	217.62	8.5676					2
17.50	0.6890			M18x1	3	●	MDW1750HGS3	64.90	2.5551	91.12	3.5876	161.62	6.3632	3.62	0.1427	18.00	0.7087	2
					5	★	MDW1750HGS5	117.40	4.6220	143.62	5.6545	217.62	8.5679					2
17.60	0.6929				3	★	MDW1760HGS3	67.20	2.6457	93.65	3.6868	161.65	6.3640	3.65	0.1435	18.00	0.7087	2
					5	★	MDW1760HGS5	121.20	4.7717	147.65	5.8128	217.65	8.5687					2
17.70	0.6969				3	★	MDW1770HGS3	67.20	2.6457	93.67	3.6876	161.67	6.3648	3.67	0.1443	18.00	0.7087	2
					5	★	MDW1770HGS5	121.20	4.7717	147.67	5.8136	217.67	8.5695					2

Super MultiDrills

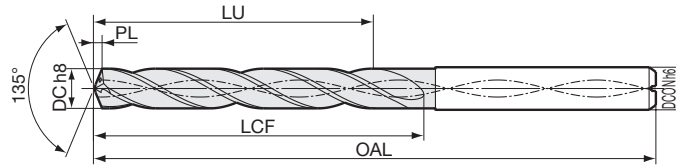
HGS (Internal Coolant Supply)

Carbon Steel Alloy Steel up to 0.28% Carbon Steel Alloy Steel up to 0.29% Tempered Steel Hardened Steel up to 45HRC Hardened Steel from 46HRC Stainless Steel Ti Alloy Heat-resistant Steel Cast Iron Ductile Cast Iron Copper Alloy



*Refer to N74 for the tolerance of h6 and h8

Fig. 2 (diameter ø2.5 to 20.0mm 0.098"-0.787", double margin)



Diameter ø17.80mm to 20.00mm (.7008" to .7874") Dimensions (inch/mm)

Dia. DC			Cut Tap Size	Roll Form Tap Size	Hole Depth (L/D)	Stock	Cat. No.	Effective Length LU		Flute Length LCF		Overall Length OAL		Tip PL		Shank Dia. DCON		Fig
mm	in.	Fraction						mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
17.80	0.7008				3	★	MDW1780HGS3	67.00	2.6378	93.69	3.6884	161.69	6.3656	3.69	0.1451	18.00	0.7087	2
					5	●	MDW1780HGS5	121.00	4.7638	147.69	5.8144	217.69	8.5703					2
17.86	0.7031	45/64		3/4-10	3	★	MDW07031HGS3	63.21	2.4887	93.70	3.6889	161.70	6.3661	3.70	0.1457	18.00	0.7087	2
					5	●	MDW07031HGS5	96.00	3.7795	147.70	5.8149	217.70	8.5708					2
17.90	0.7047				3	★	MDW1790HGS3	66.90	2.6339	93.71	3.6893	161.71	6.3664	3.71	0.1460	18.00	0.7087	2
					5	★	MDW1790HGS5	120.90	4.7598	147.71	5.8152	217.71	8.5712					2
18.00	0.7087			3/4-10	3	★	MDW1800HGS3	66.70	2.6260	93.73	3.6901	161.73	6.3672	3.73	0.1468	18.00	0.7087	2
					5	★	MDW1800HGS5	120.70	4.7520	147.73	5.8161	217.73	8.5720					2
18.10	0.7126				3	★	MDW1810HGS3	69.10	2.7205	96.25	3.7893	167.75	6.6043	3.75	0.1476	19.00	0.7480	2
					5	★	MDW1810HGS5	124.60	4.9055	151.75	5.9744	224.75	8.8484					2
18.20	0.7165				3	★	MDW1820HGS3	69.00	2.7165	96.27	3.7901	167.77	6.6051	3.77	0.1484	19.00	0.7480	2
					5	★	MDW1820HGS5	124.50	4.9016	151.77	5.9752	224.77	8.8492					2
18.25	0.7187	23/32			3	●	MDW07187HGS3	65.12	2.5637	96.28	3.7905	167.78	6.6055	3.78	0.1488	18.00	0.7087	2
					5	●	MDW07187HGS5	98.67	3.8845	151.78	5.9757	224.78	8.8497					2
18.30	0.7205				3	★	MDW1830HGS3	68.90	2.7126	96.29	3.7909	167.79	6.6059	3.79	0.1492	19.00	0.7480	2
					5	★	MDW1830HGS5	124.40	4.8976	151.79	5.9760	224.79	8.8500					2
18.40	0.7244			3/4-16	3	★	MDW1840HGS3	68.70	2.7047	96.31	3.7918	167.81	6.6067	3.81	0.1500	19.00	0.7480	2
					5	★	MDW1840HGS5	124.20	4.8898	151.81	5.9768	224.81	8.8508					2
18.50	0.7283				3	★	MDW1850HGS3	68.60	2.7008	96.33	3.7926	167.83	6.6075	3.83	0.1508	19.00	0.7480	2
					5	★	MDW1850HGS5	124.10	4.8858	151.83	5.9776	224.83	8.8516					2
18.60	0.7323				3	★	MDW1860HGS3	71.00	2.7953	98.85	3.8918	167.85	6.6084	3.85	0.1517	19.00	0.7480	2
					5	★	MDW1860HGS5	128.00	5.0394	155.85	6.1359	224.85	8.8524					2
18.65	0.7344	47/64	M20.1.5		3	●	MDW07344HGS3	67.02	2.6386	98.86	3.8922	167.86	6.6088	3.86	0.1521	19.00	0.7031	2
					5	●	MDW07344HGS5	101.33	3.9895	155.86	6.1363	224.86	8.8529					2
18.70	0.7362				3	★	MDW1870HGS3	70.90	2.7913	98.87	3.8926	167.87	6.6092	3.87	0.1525	19.00	0.7480	2
					5	★	MDW1870HGS5	127.90	5.0354	155.87	6.1367	224.87	8.8533					2
18.80	0.7402				3	★	MDW1880HGS3	70.70	2.7835	98.89	3.8934	167.89	6.6100	3.89	0.1533	19.00	0.7480	2
					5	★	MDW1880HGS5	127.70	5.0276	155.89	6.1375	224.89	8.8541					2
18.90	0.7441				3	★	MDW1890HGS3	70.60	2.7795	98.91	3.8943	167.91	6.6108	3.90	0.1535	19.00	0.7480	2
					5	★	MDW1890HGS5	127.60	5.0236	155.91	6.1384	224.91	8.8549					2
19.00	0.7480				3	●	MDW1900HGS3	70.40	2.7717	98.94	3.8951	167.94	6.6116	3.91	0.1541	19.00	0.7480	2
					5	★	MDW1900HGS5	127.40	5.0157	155.94	6.1392	224.94	8.8557					2
19.05	0.7500	3/4			3	●	MDW07500HGS3	68.93	2.7136	98.95	3.8955	167.95	6.6120	3.95	0.1553	20.00	0.7874	2
					5	★	MDW1910HGS3	72.90	2.8701	101.46	3.9943	173.96	6.8487	3.96	0.1557	20.00	0.7874	2
					5	★	MDW1910HGS5	131.40	5.1732	159.96	6.2975	233.96	9.2109					2
19.10	0.7520				3	★	MDW1920HGS3	72.70	2.8622	101.48	3.9951	173.98	6.8495	3.98	0.1566	20.00	0.7874	2
					5	★	MDW1920HGS5	131.20	5.1654	159.98	6.2983	233.98	9.2117					2
19.20	0.7559				3	★	MDW1930HGS3	72.60	2.8583	101.50	3.9960	174.00	6.8503	4.00	0.1575	20.00	0.7874	2
					5	★	MDW1930HGS5	131.10	5.1614	160.00	6.2991	234.00	9.2125					2
19.30	0.7598				3	★	MDW1940HGS3	72.40	2.8504	101.52	3.9968	174.02	6.8511	4.02	0.1582	20.00	0.7874	2
					5	★	MDW1940HGS5	130.90	5.1535	160.02	6.2999	234.02	9.2133					2
19.40	0.7638				3	★	MDW1950HGS3	72.30	2.8465	101.54	3.9976	174.04	6.8519	4.04	0.1590	20.00	0.7874	2
					5	★	MDW1950HGS5	130.80	5.1496	160.04	6.3007	234.04	9.2141					2
19.50	0.7677		7/8-9		3	★	MDW1960HGS3	74.70	2.9409	104.06	4.0968	174.06	6.8527	4.06	0.1598	20.00	0.7874	2
					5	★	MDW1960HGS5	134.70	5.3031	164.06	6.4590	234.06	9.2149					2
19.60	0.7717				3	★	MDW1970HGS3	74.60	2.9370	104.08	4.0976	174.08	6.8535	4.08	0.1606	20.00	0.7874	2
					5	★	MDW1970HGS5	134.60	5.2992	164.08	6.4598	234.08	9.2157					2
19.70	0.7756				3	★	MDW1980HGS3	74.40	2.9291	104.10	4.0985	174.10	6.8544	4.10	0.1614	20.00	0.7874	2
					5	★	MDW1980HGS5	134.40	5.2913	164.10	6.4607	234.10	9.2166					2
19.80	0.7795				3	★	MDW1990HGS3	74.20	2.9252	104.12	4.0993	174.12	6.8552	4.12	0.1623	20.00	0.7874	2
					5	★	MDW1990HGS5	134.30	5.2874	164.12	6.4615	234.12	9.2174					2
19.84	0.7812	25/32	M22x2.5		3	●	MDW07812HGS3	70.24	2.7652	104.11	4.0988	174.11	6.8547	4.11	0.1618	20.00	0.7874	2
					5	●	MDW07812HGS5	106.67	4.1995	164.11	6.4610	234.11	9.2169					2
19.90	0.7835				3	★	MDW1990HGS3	74.30	2.9252	104.12	4.0993	174.12	6.8552	4.12	0.1623	20.00	0.7874	2
					5	★	MDW1990HGS5	134.30	5.2874	164.12	6.4615	234.12	9.2174					2
20.00	0.7874				3	★	MDW2000HGS3	74.10	2.9173	104.14	4.1001	174.14	6.8560	4.14	0.1631	20.00	0.7874	2
					5	★	MDW2000HGS5	134.10	5.2795	164.14	6.4623	234.14	9.2182					2

Grade: ACX70 ★: Worldwide Warehouse Item

Tap Size values fall between 55% and 75% of thread engagement, and should be adjusted according to application



MDW		Work Material	Hardness HB	Speed = SFM Feed = IPR	Drill Diameter (inch)		
					$\phi < - \phi 0.196$	$\phi 0.197 - \phi 0.394$	$\phi 0.395 > \phi$
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	160 ~ 280	SFM	120 - 225	150 - 325	150 - 325
				IPR	.002 - .006	.004 - .010	.006 - .012
		400 Martensitic Stainless Steel	160 ~ 240	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

Drilling



Solid

Indexable Head Type

Indexable Insert Type

Reamers

Brazed

Others