

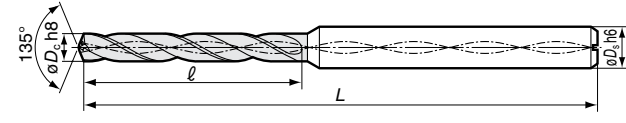
HGS Type

Internal Coolant Supply (HGS Type)

Carbon Steel Up to 0.28%	Alloy Steel From 0.28%	Tempered Steel	Hardened Steel Up to 45HRC	Stainless Steel From 48HRC	Ti Alloy	Heatresist steels	Cast Iron	Ductile Cast Iron	Aluminium Alloy	Copper alloy	Composite CFRP	DEX Coat	W/Oil Hole	3D	5D	8D
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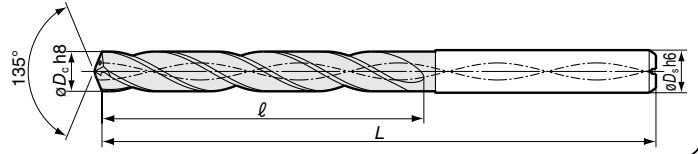
● HGS Type Diameter $\phi 1.5$ to $\phi 2.4$ mm

Single Margin



● HGS Type Diameter $\phi 2.5$ to $\phi 20.0$ mm

Double Margin



● Diameter $\phi 1.5$ to $\phi 7.0$ mm

Diameter ϕD_c (mm)	Shank ϕD_s (mm)	Cat. No.	3D Type		5D Type		8D Type	
			Stock	Dimensions (mm)	Stock	Dimensions (mm)	Stock	Dimensions (mm)
		3.5.8	[3]	L	[5]	L	[8]	L
1.5	3.0	MDW 0150HGS	●	63 10	●	70 14	●	76 18.5
1.6		MDW 0160HGS	●		●		●	
1.7		0170HGS	●		●		●	
1.8		0180HGS	●	63 12.5	●	70 19	●	76 24
1.9		0190HGS	●		●		●	
2.0		0200HGS	●		●		●	
2.1		MDW 0210HGS	●		●		●	
2.2		0220HGS	●		●		●	
2.3		0230HGS	●	68 15	●	78 24	●	81 27.5
2.4		0240HGS	●		●		●	
2.5	0250HGS	●		●		●		
2.6	MDW 0260HGS	●		●		●		
2.7	0270HGS	●		●		●		
2.8	0280HGS	●	68 17.5	●	78 28	●	81 33	
2.9	0290HGS	●		●		●		
3.0	0300HGS	●		●		●		
3.1	MDW 0310HGS	●		●		●		
3.2	0320HGS	●		●		●		
3.3	0330HGS	●	72 20	●	86 32	●	92 38.5	
3.4	0340HGS	●		●		●		
3.5	0350HGS	●		●		●		
3.6	MDW 0360HGS	●		●		●		
3.7	0370HGS	●		●		●		
3.8	0380HGS	●	72 22.5	●	86 36	●	92 44	
3.9	0390HGS	●		●		●		
4.0	0400HGS	●		●		●		
4.1	MDW 0410HGS	●		●		●		
4.2	0420HGS	●		●		●		
4.3	0430HGS	●	80 25	●	98 40	●	105 49.5	
4.4	0440HGS	●		●		●		
4.5	0450HGS	●		●		●		
4.6	MDW 0460HGS	●		●		●		
4.7	0470HGS	●		●		●		
4.8	0480HGS	●	80 27.5	●	98 44	●	105 55	
4.9	0490HGS	●		●		●		
5.0	0500HGS	●		●		●		
5.1	MDW 0510HGS	●		●		●		
5.2	0520HGS	●		●		●		
5.3	0530HGS	●	82 27.5	●	100 44	●	118 60.5	
5.4	0540HGS	●		●		●		
5.5	0550HGS	●		●		●		
5.6	MDW 0560HGS	●		●		●		
5.7	0570HGS	●		●		●		
5.8	0580HGS	●	82 30	●	100 48	●	118 66	
5.9	0590HGS	●		●		●		
6.0	0600HGS	●		●		●		
6.1	MDW 0610HGS	●		●		●		
6.2	0620HGS	●		●		●		
6.3	0630HGS	●	88 32.5	●	109 52	●	130 71.5	
6.4	0640HGS	●		●		●		
6.5	0650HGS	●		●		●		
6.6	MDW 0660HGS	●		●		●		
6.7	0670HGS	●		●		●		
6.8	0680HGS	●	88 35	●	109 56	●	130 77	
6.9	0690HGS	●		●		●		
7.0	0700HGS	●		●		●		

● Diameter $\phi 7.1$ to $\phi 12.0$ mm

Diameter ϕD_c (mm)	Shank ϕD_s (mm)	Cat. No.	3D Type		5D Type		8D Type	
			Stock	Dimensions (mm)	Stock	Dimensions (mm)	Stock	Dimensions (mm)
		3.5.8	[3]	L	[5]	L	[8]	L
7.1	8.0	MDW 0710HGS	●		●		●	
7.2		0720HGS	●		●		●	
7.3		0730HGS	●	94 37.5	●	118 60	●	142 82.5
7.4		0740HGS	●		●		●	
7.5		0750HGS	●		●		●	
7.6		MDW 0760HGS	●		●		●	
7.7		0770HGS	●		●		●	
7.8		0780HGS	●	94 40	●	118 64	●	142 88
7.9		0790HGS	●		●		●	
8.0		0800HGS	●		●		●	
8.1	MDW 0810HGS	●		●		●		
8.2	0820HGS	●		●		●		
8.3	0830HGS	●	100 42.5	●	127 68	●	154 93.5	
8.4	0840HGS	●		●		●		
8.5	0850HGS	●		●		●		
8.6	MDW 0860HGS	●		●		●		
8.7	0870HGS	●		●		●		
8.8	0880HGS	●	100 45	●	127 72	●	154 99	
8.9	0890HGS	●		●		●		
9.0	0900HGS	●		●		●		
9.1	MDW 0910HGS	●		●		●		
9.2	0920HGS	●		●		●		
9.3	0930HGS	●	106 47.5	●	136 76	●	166 104.5	
9.4	0940HGS	●		●		●		
9.5	0950HGS	●		●		●		
9.6	MDW 0960HGS	●		●		●		
9.7	0970HGS	●		●		●		
9.8	0980HGS	●	106 50	●	136 80	●	166 110	
9.9	0990HGS	●		●		●		
10.0	1000HGS	●		●		●		
10.1	MDW 1010HGS	●		●		●		
10.2	1020HGS	●		●		●		
10.3	1030HGS	●	116 52.5	●	149 84	●	182 115.5	
10.4	1040HGS	●		●		●		
10.5	1050HGS	●		●		●		
10.6	MDW 1060HGS	●		●		●		
10.7	1070HGS	●		●		●		
10.8	1080HGS	●	116 55	●	149 88	●	182 121	
10.9	1090HGS	●		●		●		
11.0	1100HGS	●		●		●		
11.1	MDW 1110HGS	●		●		●		
11.2	1120HGS	●		●		●		
11.3	1130HGS	●	122 57.5	●	158 92	●	194 126.5	
11.4	1140HGS	●		●		●		
11.5	1150HGS	●		●		●		
11.6	MDW 1160HGS	●		●		●		
11.7	1170HGS	●		●		●		
11.8	1180HGS	●	122 60	●	158 96	●	194 132	
11.9	1190HGS	●		●		●		
12.0	1200HGS	●		●		●		

Grade: ACX70

Please indicate 3, 5 or 8 in the when ordering.
(Example: MDW 0250HGS3)

Note : The size of small hole ($\phi 1.5$ to $\phi 2.4$) is consistent with single margin specification.