

TiAIN-COATED SOLID CARBIDE DREAM DRILLS
MQL with Coolant Holes

DH510 | DH515 | DH520 | DHM10 | DHM15 | DHM20 SERIES

WORK MATERIAL	P						K						
	CARBON STEELS						CAST IRON			DUCTILE CAST IRON			
STRENGTH	~ 1060 N/mm ²						250 ~ 350 N/mm ²			400 ~ 500 N/mm ²			
DRILLING SPEED(SFM)	230 ~ 290 ft/min						230 ~ 290 ft/min			220 ~ 240 ft/min			
DIAMETER	RPM	FEED	IPR	RPM	FEED	IPR	RPM	FEED	IPR	RPM	FEED	IPR	
	Metric(mm) Decimal												
3	.1181	7500	0.06~0.12	.0024	.0047	7500	0.06~0.12	.0024	.0047	7500	0.06~0.12	.0024	.0047
4	.1575	6400	0.08~0.16	.0031	.0063	6400	0.08~0.16	.0031	.0063	5600	0.08~0.16	.0031	.0063
5	.1969	5800	0.10~0.20	.0039	.0079	5800	0.10~0.20	.0039	.0079	4500	0.10~0.20	.0039	.0079
6	.2362	4800	0.12~0.24	.0047	.0094	4800	0.12~0.24	.0047	.0094	3800	0.12~0.24	.0047	.0094
8	.3150	3600	0.16~0.28	.0063	.0110	3600	0.16~0.28	.0063	.0110	2800	0.16~0.28	.0063	.0110
10	.3937	2900	0.20~0.35	.0079	.0138	2900	0.20~0.35	.0079	.0138	2300	0.20~0.35	.0079	.0138
12	.4724	2400	0.24~0.42	.0094	.0165	2400	0.24~0.42	.0094	.0165	1900	0.24~0.42	.0094	.0165
14	.5512	2050	0.28~0.46	.0110	.0181	2050	0.28~0.46	.0110	.0181	1600	0.28~0.46	.0110	.0181

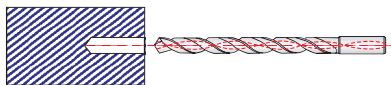
RPM = rev./min.
FEED = mm/rev.
IPR = inch/rev.

DHM25 | DHM30 SERIES

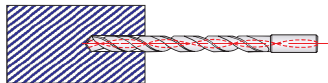
WORK MATERIAL	P						K						
	CARBON STEELS						CAST IRON			DUCTILE CAST IRON			
STRENGTH	~ 1060 N/mm ²						250 ~ 350 N/mm ²			400 ~ 500 N/mm ²			
DRILLING SPEED(SFM)	230 ~ 290 ft/min						230 ~ 290 ft/min			220 ~ 240 ft/min			
DIAMETER	RPM	FEED	IPR	RPM	FEED	IPR	RPM	FEED	IPR	RPM	FEED	IPR	
	Metric(mm) Decimal												
3	.1181	6400	0.06~0.12	.0024	.0047	6400	0.06~0.12	.0024	.0047	6400	0.06~0.12	.0024	.0047
4	.1575	5500	0.08~0.16	.0031	.0063	5500	0.08~0.16	.0031	.0063	4700	0.08~0.16	.0031	.0063
5	.1969	4900	0.10~0.20	.0039	.0079	4900	0.10~0.20	.0039	.0079	3800	0.10~0.20	.0039	.0079
6	.2362	4200	0.12~0.24	.0047	.0094	4200	0.12~0.24	.0047	.0094	3200	0.12~0.24	.0047	.0094
8	.3150	3000	0.16~0.28	.0063	.0110	3000	0.16~0.28	.0063	.0110	2400	0.16~0.28	.0063	.0110
10	.3937	2500	0.20~0.35	.0079	.0138	2500	0.20~0.35	.0079	.0138	1900	0.20~0.35	.0079	.0138

RPM = rev./min.
FEED = mm/rev.
IPR = inch/rev.

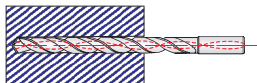
► Coolant Pressure : 900 PSI



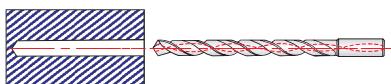
1. Use a YG 3xD Drill to produce a guide hole no larger than .004 over the required drill size. Drill the pilot hole 2xD deep hole.



2. Enter the guide hole at 50 SFM surface and .010 feed rate / per rev.



3. Before hitting the bottom of the guide hole, Increase SFM and feed rate for normal drilling.

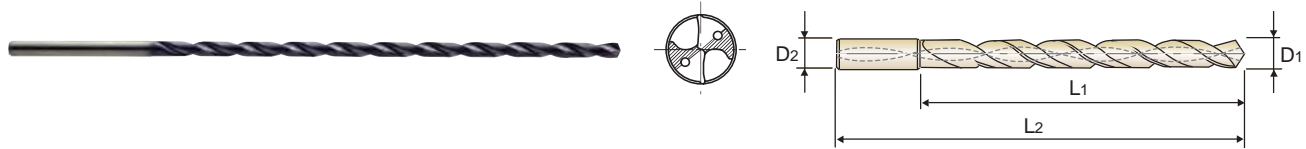


4. After drilling, to withdraw drill, reduce SFM to 50 @ 10 inches per minute.

TiAIN-COATED SOLID CARBIDE DREAM DRILLS MQL with Coolant Holes (25XD)

EXTRA LONG
DHM25 SERIES

- ▶ 4-Facet Point for good centering capability
- ▶ Optimized special flutes are ideal for removing chips and for productive drilling
- ▶ Enhanced chip evacuation by polished flute upgraded TiAIN nano layer full coating
- ▶ MQL system compatible (Minimum Quantity Lubrication)



MG 30° h6 h7 140° 45 bar P.97

25 × D

Unit : mm

EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length
	Metric	Inch	Decimal			
TiAIN	D1			D2	L1	L2
DHM25030	3.0		.1181	6	85	125
DHM25031	3.1		.1220	6	99	139
DHM25008F	3.175	1/8	.1250	6	99	139
DHM25032	3.2		.1260	6	99	139
DHM25033	3.3		.1299	6	99	139
DHM25034	3.4		.1339	6	99	139
DHM25035	3.5		.1378	6	99	139
DHM25036	3.6		.1417	6	113	153
DHM25037	3.7		.1457	6	113	153
DHM25038	3.8		.1496	6	113	153
DHM25039	3.9		.1535	6	113	153
DHM25040	4.0		.1575	6	113	153
DHM25041	4.1		.1614	6	127	167
DHM25042	4.2		.1654	6	127	167
DHM25043	4.3		.1693	6	127	167
DHM25044	4.4		.1732	6	127	167
DHM25045	4.5		.1772	6	127	167
DHM25046	4.6		.1811	6	141	181
DHM25047	4.7		.1850	6	141	181
DHM25048	4.8		.1890	6	141	181
DHM25049	4.9		.1929	6	141	181
DHM25050	5.0		.1969	6	141	181
DHM25051	5.1		.2008	6	155	195
DHM25052	5.2		.2047	6	155	195
DHM25053	5.3		.2087	6	155	195
DHM25054	5.4		.2126	6	155	195

EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length
	Metric	Inch	Decimal			
TiAIN	D1			D2	L1	L2
DHM25055	5.5		.2165	6	155	195
DHM25056	5.6		.2205	6	169	209
DHM25057	5.7		.2244	6	169	209
DHM25058	5.8		.2283	6	169	209
DHM25059	5.9		.2323	6	169	209
DHM25060	6.0		.2362	6	169	209
DHM25061	6.1		.2402	8	183	223
DHM25062	6.2		.2441	8	183	223
DHM25063	6.3		.2480	8	183	223
DHM25016F	6.350	1/4	.2500	8	183	223
DHM25064	6.4		.2520	8	183	223
DHM25065	6.5		.2559	8	183	223
DHM25066L	6.528	F	.2570	8	197	237
DHM25066	6.6		.2598	8	197	237
DHM25067	6.7		.2638	8	197	237
DHM25017F	6.746	17/64	.2656	8	197	237
DHM25068	6.8		.2677	8	197	237
DHM25069	6.9		.2717	8	197	237
DHM25209L	6.909	I	.2720	8	197	237
DHM25070	7.0		.2756	8	197	237
DHM25071	7.1		.2795	8	211	251
DHM25018F	7.142	9/32	.2812	8	211	251
DHM25072	7.2		.2835	8	211	251
DHM25073	7.3		.2874	8	211	251
DHM25074	7.4		.2913	8	211	251
DHM25075	7.5		.2953	8	211	251

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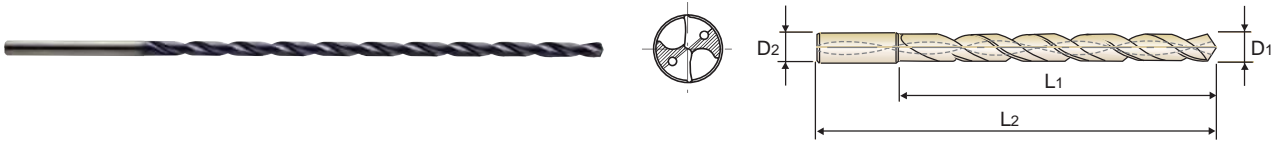
◎ : Excellent ○ : Good

P			H		M	K	N				S
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		Stainless Steels	Cast Iron	Aluminum	Copper	Bronze	CFRP	Titanium
-HB225	HB225~325	HRc30~45	HRc45~55	HRc55~							
◎	◎	○				○					

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- ▶ MQL system compatible (Minimum Quantity Lubrication)



25 × D

Unit : mm

EDP No.	Drill Diameter			Shank Diameter D2	Flute Length L1	Overall Length L2
	Metric	Inch	Decimal			
TiAIN	D1			D2	L1	L2
DHM25019F	7.541	19/64	.2969	8	225	265
DHM25076	7.6		.2992	8	225	265
DHM25077	7.7		.3031	8	225	265
DHM25078	7.8		.3071	8	225	265
DHM25079	7.9		.3110	8	225	265
DHM25020F	7.938	5/16	.3125	8	225	265
DHM25080	8.0		.3150	8	225	265
DHM25081	8.1		.3189	10	239	283
DHM25082	8.2		.3228	10	239	283
DHM25083	8.3		.3268	10	239	283
DHM25021F	8.334	21/64	.3281	10	239	283
DHM25084	8.4		.3307	10	239	283
DHM25217L	8.433	Q	.3320	10	239	283
DHM25085	8.5		.3346	10	239	283
DHM25086	8.6		.3386	10	253	297
DHM25087	8.7		.3425	10	253	297
DHM25022F	8.733	11/32	.3438	10	253	297

EDP No.	Drill Diameter			Shank Diameter D2	Flute Length L1	Overall Length L2
	Metric	Inch	Decimal			
TiAIN	D1			D2	L1	L2
DHM25088	8.8		.3465	10	253	297
DHM25089	8.9		.3504	10	253	297
DHM25090	9.0		.3543	10	253	297
DHM25091	9.1		.3583	10	268	312
DHM25023F	9.129	23/64	.3594	10	268	312
DHM25092	9.2		.3622	10	268	312
DHM25093	9.3		.3661	10	268	312
DHM25221L	9.347	U	.3680	10	268	312
DHM25094	9.4		.3701	10	268	312
DHM25095	9.5		.3740	10	268	312
DHM25024F	9.525	3/8	.3750	10	282	326
DHM25096	9.6		.3780	10	282	326
DHM25097	9.7		.3819	10	282	326
DHM25098	9.8		.3858	10	282	326
DHM25099	9.9		.3898	10	282	326
DHM25025F	9.921	25/64	.3906	10	282	326
DHM25100	10.0		.3937	10	282	326

◎ : Excellent ○ : Good

P				H	M	K	N				S
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		Stainless Steels	Cast Iron	Aluminum	Copper	Bronze	CFRP	Titanium
~HB225	HB225~325	HRc30~45	HRc45~55	HRc55~							
◎	◎	○				○					