



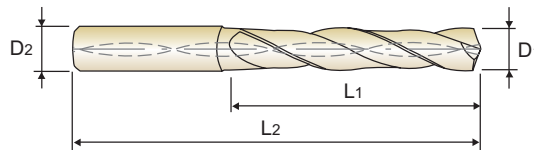
DREAM DRILLS -GENERAL

DH406 SERIES

CARBIDE, DREAM DRILLS with COOLANT HOLES **SHORT**
VOLLHARTMETALL DREAM SPIRALBOHRER mit KÜHLKANAL **KURZ**

- **Application** : Drilling steels in general, cast steels, cast iron, chilled cast iron, malleable cast iron, non-ferrous heavy metals, non-ferrous light metals, abrasive plastics.
- **Advantage** : Self centering
 - center drilling is not required.
 Excellent positioning
 - bush is not necessary.
 Special Design
 - reaming is not required.
 - good chip removal
 - powerful drilling

- **Verwendung** : Zum wirtschaftlichen Bohren von Stahl allgemein, Stahlguß, Hart-und Temperguß, Nichteisen Leichtmetallen, abrasiven Kunststoffen.
- **Vorteile** : Selbst zentrierend
 - Zentrierbohrung wird nicht benötigt.
 Exzellente Positionierbarkeit
 - Keine Führungsbuchse notwendig.
 Spezielles Design
 - Räumen ist nicht notwendig
 - Gute Spanabfuhr
 - Leistungsfähiges Bohren



DIN 6537 MG h6 m7 140° P.60

3 × D

Unit : mm

EDP No.	Drill Diameter	Shank Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Shank Diameter	Flute Length	Overall Length
TiAlN	D1	D2	L1	L2	TiAlN	D1	D2	L1	L2
DH406084	8.4	10	47	89	DH406111	11.1	12	55	102
DH406085	8.5	10	47	89	DH406112	11.2	12	55	102
DH406086	8.6	10	47	89	DH406113	11.3	12	55	102
DH406087	8.7	10	47	89	DH406114	11.4	12	55	102
DH406088	8.8	10	47	89	DH406115	11.5	12	55	102
DH406089	8.9	10	47	89	DH406116	11.6	12	55	102
DH406090	9.0	10	47	89	DH406117	11.7	12	55	102
DH406091	9.1	10	47	89	DH406118	11.8	12	55	102
DH406092	9.2	10	47	89	DH406119	11.9	12	55	102
DH406093	9.3	10	47	89	DH406120	12.0	12	55	102
DH406094	9.4	10	47	89	DH406125	12.5	14	60	107
DH406095	9.5	10	47	89	DH406130	13.0	14	60	107
DH406096	9.6	10	47	89	DH406135	13.5	14	60	107
DH406097	9.7	10	47	89	DH406140	14.0	14	60	107
DH406098	9.8	10	47	89	DH406145	14.5	16	65	115
DH406099	9.9	10	47	89	DH406150	15.0	16	65	115
DH406100	10.0	10	47	89	DH406155	15.5	16	65	115
DH406101	10.1	12	55	102	DH406160	16.0	16	65	115
DH406102	10.2	12	55	102	DH406165	16.5	18	73	123
DH406103	10.3	12	55	102	DH406170	17.0	18	73	123
DH406104	10.4	12	55	102	DH406175	17.5	18	73	123
DH406105	10.5	12	55	102	DH406180	18.0	18	73	123
DH406106	10.6	12	55	102	DH406185	18.5	20	79	131
DH406107	10.7	12	55	102	DH406190	19.0	20	79	131
DH406108	10.8	12	55	102	DH406195	19.5	20	79	131
DH406109	10.9	12	55	102	DH406200	20.0	20	79	131
DH406110	11.0	12	55	102					

► Other shank types are available on your request.

◎ : Excellent ○ : Good

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		Cast Iron	Aluminum	Stainless Steels	Titanium	Mild Steels	Copper	Bronze
~HB225	HB225~325	HRc30~45	HRc45~55	HRc55~							
○	◎	◎			○		○				

**CARBIDE, DREAM DRILLS, TiAIN COATED
VOLLHARTMETALL DREAM BOHRER, TiAIN-BESCHICHTET****DH404, DH423, DH424 SERIES**

Unit : mm

WORK MATERIAL DIAMETER	NON-ALLOY STEELS < 700 N/mm ²		ALLOY STEELS < 1000 N/mm ²		SOFT GREY CAST IRON < HB240, GG25		HARD GREY CAST IRON < HB300, GG40	
	N	S	N	S	N	S	N	S
1	13000	0.04	11250	0.04	21300	0.04	14200	0.04
2	13000	0.06	11250	0.06	21300	0.06	14200	0.06
3	13000	0.13	11000	0.13	21000	0.13	14000	0.13
4	9500	0.14	8400	0.14	16000	0.14	10500	0.14
5	7600	0.15	6700	0.15	13000	0.15	8300	0.15
6	6400	0.17	5600	0.17	11000	0.17	6900	0.17
7	5500	0.19	4800	0.19	9100	0.19	5900	0.19
8	4800	0.21	4200	0.21	8000	0.21	5200	0.21
9	4200	0.23	3700	0.23	7100	0.23	4600	0.23
10	3800	0.25	3350	0.25	6400	0.25	4150	0.25
12	3200	0.27	2800	0.27	5300	0.27	3450	0.27
14	2750	0.29	2400	0.29	4550	0.29	3000	0.29
16	2400	0.31	2100	0.31	4000	0.31	2600	0.31
18	2100	0.33	1850	0.33	3550	0.33	2300	0.33
20	1900	0.35	1650	0.35	3200	0.35	2100	0.35

► Recommend to reduce the feed rate as following

N = R.P.M
S = Feed per Revolution (mm/rev.)**Feed 100%** : DH404(3×D), DH423(3×D)
Feed 85% : DH424(5×D)**CARBIDE, DREAM DRILLS with COOLANT HOLES DIN6537, TiAIN COATED
VOLLHARTMETALL DREAM BOHRER mit KÜHLKANAL DIN6537, TiAIN-BESCHICHTET****DH406, DH408, DH421 SERIES**

Unit : mm

WORK MATERIAL DIAMETER	NON-ALLOY STEELS < 700 N/mm ²		ALLOY STEELS < 1000 N/mm ²		SOFT GREY CAST IRON < HB240, GG25		HARD GREY CAST IRON < HB300, GG40	
	N	S	N	S	N	S	N	S
1	16250	0.05	14800	0.05	26600	0.05	17300	0.05
2	16250	0.07	14800	0.07	26600	0.07	17300	0.07
3	16000	0.16	14500	0.16	26000	0.16	17000	0.16
4	12000	0.17	11000	0.17	20000	0.17	13000	0.17
5	9550	0.18	8600	0.18	16000	0.18	10000	0.18
6	8000	0.20	7200	0.20	13000	0.20	8500	0.20
7	6800	0.22	6100	0.22	11500	0.22	7300	0.22
8	6000	0.24	5400	0.24	9900	0.24	6400	0.24
9	5300	0.27	4800	0.27	8800	0.27	5700	0.27
10	4800	0.30	4300	0.30	8000	0.30	5100	0.30
12	4000	0.33	3600	0.33	6600	0.33	4250	0.33
14	3400	0.36	3050	0.36	5700	0.36	3650	0.36
16	3000	0.39	2700	0.39	5000	0.39	3200	0.39
18	2650	0.42	2400	0.42	4400	0.42	2850	0.42
20	2400	0.45	2150	0.45	4000	0.45	2550	0.45

► Recommend to reduce the feed rate as following

N = R.P.M
S = Feed per Revolution (mm/rev.)**Feed 100%** : DH406(3×D)
Feed 85% : DH408(5×D)
Feed 70% : DH421(8×D)