

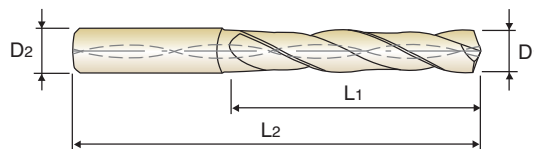


**DREAM DRILLS
-INOX**

DH451 SERIES

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

- ▶ Narzędzie posiada specjalny kształt rowka wiórowego oraz geometrię ostrza odpowiednie do obróbki stali nierdzewnych
- ▶ Doskonała ewakuacja wiórów dzięki lepszej obróbce powierzchniowej
- ▶ Pocinienie na ścinie wiertła zapewnia doskonałe centrowanie i zwijanie wiórów.
- ▶ Zastosowana powłoka TiAlN zapewnia uzyskanie gładziej powierzchni obrabianych materiałów oraz zwiększa trwałość narzędzia.



DIN 6537
MG
h6
m7
140°
P.84

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
DH451030	3.0	6	20	62	DH451050	5.0	6	28	66
DH451031	3.1	6	20	62	DH451051	5.1	6	28	66
DH451032	3.2	6	20	62	DH451052	5.2	6	28	66
DH451033	3.3	6	20	62	DH451053	5.3	6	28	66
DH451034	3.4	6	20	62	DH451054	5.4	6	28	66
DH451035	3.5	6	20	62	DH451055	5.5	6	28	66
DH451036	3.6	6	20	62	DH451056	5.6	6	28	66
DH451037	3.7	6	20	62	DH451057	5.7	6	28	66
DH451038	3.8	6	24	66	DH451058	5.8	6	28	66
DH451039	3.9	6	24	66	DH451059	5.9	6	28	66
DH451040	4.0	6	24	66	DH451060	6.0	6	28	66
DH451041	4.1	6	24	66	DH451061	6.1	8	34	79
DH451042	4.2	6	24	66	DH451062	6.2	8	34	79
DH451043	4.3	6	24	66	DH451063	6.3	8	34	79
DH451044	4.4	6	24	66	DH451064	6.4	8	34	79
DH451045	4.5	6	24	66	DH451065	6.5	8	34	79
DH451046	4.6	6	24	66	DH451066	6.6	8	34	79
DH451047	4.7	6	24	66	DH451067	6.7	8	34	79
DH451048	4.8	6	28	66	DH451068	6.8	8	34	79
DH451049	4.9	6	28	66	DH451069	6.9	8	34	79

▶ Other shank types are available on your request.

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

◎ : Excellent ○ : Good



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VOLLHARTMETALL DREAM SPIRALBOHRER - INOX mit KÜHLKANAL *KURZ*

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DIN 6537 MG h6 m7 140° P.84

3 × D

					Unit : mm				
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TiAlN	D1	D2	L1	L2	TiAlN	D1	D2	L1	L2
DH451070	7.0	8	34	79	DH451090	9.0	10	47	89
DH451071	7.1	8	41	79	DH451091	9.1	10	47	89
DH451072	7.2	8	41	79	DH451092	9.2	10	47	89
DH451073	7.3	8	41	79	DH451093	9.3	10	47	89
DH451074	7.4	8	41	79	DH451094	9.4	10	47	89
DH451075	7.5	8	41	79	DH451095	9.5	10	47	89
DH451076	7.6	8	41	79	DH451096	9.6	10	47	89
DH451077	7.7	8	41	79	DH451097	9.7	10	47	89
DH451078	7.8	8	41	79	DH451098	9.8	10	47	89
DH451079	7.9	8	41	79	DH451099	9.9	10	47	89
DH451080	8.0	8	41	79	DH451100	10.0	10	47	89
DH451081	8.1	10	47	89	DH451101	10.1	12	55	102
DH451082	8.2	10	47	89	DH451102	10.2	12	55	102
DH451083	8.3	10	47	89	DH451103	10.3	12	55	102
DH451084	8.4	10	47	89	DH451104	10.4	12	55	102
DH451085	8.5	10	47	89	DH451105	10.5	12	55	102
DH451086	8.6	10	47	89	DH451106	10.6	12	55	102
DH451087	8.7	10	47	89	DH451107	10.7	12	55	102
DH451088	8.8	10	47	89	DH451108	10.8	12	55	102
DH451089	8.9	10	47	89	DH451109	10.9	12	55	102

▶ Other shank types are available on your request.

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

◎ : Excellent ○ : Good

I-DREAM DRILLS

DREAM DRILLS -GENERAL

DREAM DRILLS -INOX

DREAM DRILLS -ALU

DREAM DRILLS -CFRP

DREAM DRILLS -MQL TYPE

DREAM DRILLS for HARDENED STEELS

GENERAL CARBIDE DRILLS

NC-SPOTTING DRILLS

CENTER DRILLS

MULTI-1 DRILLS

HPD DRILLS

GOLD-P DRILLS

STRAIGHT SHANK DRILLS

TAPER SHANK DRILLS

NC-SPOTTING DRILLS

CENTER DRILLS

SPADE DRILLS

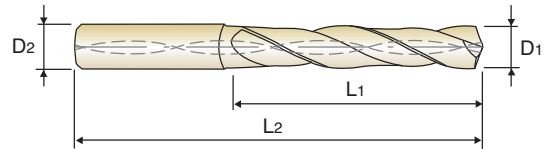
TECHNICAL DATA

Y/G DREAM DRILLS -INOX

DH451 SERIES

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VOLLHARTMETALL DREAM SPIRALBOHRER - INOX mit KÜHLKANAL *KURZ*

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TiAlN	D1	D2	L1	L2	TiAlN	D1	D2	L1	L2
DH451110	11.0	12	55	102	DH451140	14.0	14	60	107
DH451111	11.1	12	55	102	DH451145	14.5	16	65	115
DH451112	11.2	12	55	102	DH451150	15.0	16	65	115
DH451113	11.3	12	55	102	DH451155	15.5	16	65	115
DH451114	11.4	12	55	102	DH451160	16.0	16	65	115
DH451115	11.5	12	55	102	DH451165	16.5	18	73	123
DH451116	11.6	12	55	102	DH451170	17.0	18	73	123
DH451117	11.7	12	55	102	DH451175	17.5	18	73	123
DH451118	11.8	12	55	102	DH451180	18.0	18	73	123
DH451119	11.9	12	55	102	DH451185	18.5	20	79	131
DH451120	12.0	12	55	102	DH451190	19.0	20	79	131
DH451125	12.5	14	60	107	DH451195	19.5	20	79	131
DH451130	13.0	14	60	107	DH451200	20.0	20	79	131
DH451135	13.5	14	60	107					

▶ Other shank types are available on your request.

◎ : Excellent ○ : Good

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~HB225	HB225~325	HRc30~45	HRc45~55	HRc55~								
◎	◎	○				○	◎	○	○			



**DREAM DRILLS
-INOX**

**RECOMMENDED CUTTING CONDITIONS
EMPFOHLENE SCHNEIDKONDITIONEN**

**CARBIDE, DREAM DRILLS - INOX with COOLANT HOLES, TiAIN COATED
VOLLHARTMETALL DREAM BOHRER - INOX mit KÜHLKANAL, TiAIN-BESCHICHTET**

DH451, DH452, DH453 SERIES

WORK MATERIAL	STAINLESS STEELS		STAINLESS STEELS		ALUMINUM		ALUMINUM		TITANIUM Ti ALLOYS		CARBON STEELS ALLOY STEELS		NON FRERROUS	
	< 800 N/mm ²		> 800 N/mm ²		< 10% Si		> 10% Si							
DRILLING SPEED	60 ~ 70 m/min		35 ~ 45 m/min		200 ~ 220 m/min		155 ~ 175 m/min		40 ~ 50 m/min		105 ~ 125 m/min		130 ~ 150 m/min	
DIAMETER	N	S	N	S	N	S	N	S	N	S	N	S	N	S
	1.0	12000	0.02	6200	0.02	48000	0.04	38000	0.03	8100	0.01	26000	0.02	38000
1.5	9000	0.03	5400	0.02	43000	0.05	32000	0.04	7500	0.01	18000	0.03	25500	0.03
2.5	7000	0.04	4200	0.03	25500	0.08	19500	0.06	4500	0.02	10800	0.05	15500	0.05
3.0	7400	0.04	4700	0.02	23000	0.12	18500	0.10	5300	0.03	13000	0.04	16000	0.08
4.0	5600	0.05	3600	0.03	17500	0.18	13900	0.15	4000	0.04	10000	0.05	11900	0.10
5.0	4400	0.05	2800	0.03	14000	0.20	11000	0.18	3200	0.05	8000	0.05	9500	0.12
6.0	3700	0.06	2400	0.04	11700	0.25	9300	0.25	2650	0.06	6600	0.06	8000	0.15
8.0	2800	0.08	1800	0.06	8800	0.30	7000	0.30	2000	0.07	5000	0.08	6000	0.18
10.0	2200	0.10	1400	0.08	7000	0.40	5600	0.35	1600	0.08	4000	0.10	4800	0.22
12.0	1900	0.12	1200	0.10	5800	0.50	4600	0.40	1300	0.10	3300	0.12	4000	0.26
14.0	1600	0.15	1000	0.12	5000	0.60	4000	0.50	1100	0.12	2800	0.15	3400	0.30
16.0	1400	0.20	900	0.15	4380	0.80	3500	0.60	1000	0.14	2500	0.20	3000	0.40
18.0	1250	0.22	800	0.17	3900	1.00	3100	0.70	900	0.16	2200	0.22	2650	0.45
20.0	1120	0.24	720	0.19	3500	1.20	2800	0.80	800	0.18	2000	0.24	2400	0.50

► Recommend to reduce the feed rate as following

Feed 100% : DH451(3xD), DH452(5XD)
Feed 85% : DH453(8xD)

N = R.P.M
 S = Feed per Revolution (mm/rev.)

- HSS
- i-DREAM DRILLS
- DREAM DRILLS -GENERAL
- DREAM DRILLS -INOX
- DREAM DRILLS -ALU
- DREAM DRILLS -CFRP
- DREAM DRILLS -MQL TYPE
- DREAM DRILLS for HARDENED STEELS
- GENERAL CARBIDE DRILLS
- NC-SPOTTING DRILLS
- CENTER DRILLS
- MULTI-1 DRILLS
- HPD DRILLS
- GOLD-P DRILLS
- STRAIGHT SHANK DRILLS
- TAPER SHANK DRILLS
- NC-SPOTTING DRILLS
- CENTER DRILLS
- SPADE DRILLS
- TECHNICAL DATA