



**DREAM DRILLS
-INOX**

DH452 SERIES

CARBIDE, DREAM DRILLS - INOX with COOLANT HOLES **LONG**
VOLLHARTMETALL DREAM SPIRALBOHRER - INOX mit KÜHLKANAL **LANG**



5 × D

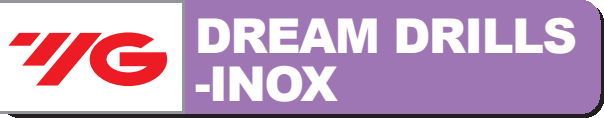
Unit : mm

EDP No.	Drill Diameter	Shank Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Shank Diameter	Flute Length	Overall Length
TiAIN	D1	D2	L1	L2	TiAIN	D1	D2	L1	L2
DH452010	1.0	3	8	55	DH452035	3.5	6	28	66
DH452011	1.1	3	12	55	DH452036	3.6	6	28	66
DH452012	1.2	3	12	55	DH452037	3.7	6	28	66
DH452013	1.3	3	12	55	DH452038	3.8	6	36	74
DH452014	1.4	3	12	55	DH452039	3.9	6	36	74
DH452015	1.5	3	16	55	DH452040	4.0	6	36	74
DH452016	1.6	3	16	55	DH452041	4.1	6	36	74
DH452017	1.7	3	16	55	DH452042	4.2	6	36	74
DH452018	1.8	3	16	55	DH452043	4.3	6	36	74
DH452019	1.9	3	16	55	DH452044	4.4	6	36	74
DH452020	2.0	4	21	57	DH452045	4.5	6	36	74
DH452021	2.1	4	21	57	DH452046	4.6	6	36	74
DH452022	2.2	4	21	57	DH452047	4.7	6	36	74
DH452023	2.3	4	21	57	DH452048	4.8	6	44	82
DH452024	2.4	4	21	57	DH452049	4.9	6	44	82
DH452025	2.5	4	21	57	DH452050	5.0	6	44	82
DH452026	2.6	4	21	57	DH452051	5.1	6	44	82
DH452027	2.7	4	21	57	DH452052	5.2	6	44	82
DH452028	2.8	4	21	57	DH452053	5.3	6	44	82
DH452029	2.9	4	21	57	DH452054	5.4	6	44	82
DH452030	3.0	6	28	66	DH452055	5.5	6	44	82
DH452031	3.1	6	28	66	DH452056	5.6	6	44	82
DH452032	3.2	6	28	66	DH452057	5.7	6	44	82
DH452033	3.3	6	28	66	DH452058	5.8	6	44	82
DH452034	3.4	6	28	66	DH452059	5.9	6	44	82

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



CARBIDE, DREAM DRILLS - INOX with COOLANT HOLES **LONG LANG**
VOLLHARTMETALL DREAM SPIRALBOHRER - INOX mit KÜHLKANAL **LANG**



5 × D

Unit : mm

EDP No.	Drill Diameter	Shank Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Shank Diameter	Flute Length	Overall Length
TiAIN	D1	D2	L1	L2	TiAIN	D1	D2	L1	L2
DH452060	6.0	6	44	82	DH452085	8.5	10	61	103
DH452061	6.1	8	53	91	DH452086	8.6	10	61	103
DH452062	6.2	8	53	91	DH452087	8.7	10	61	103
DH452063	6.3	8	53	91	DH452088	8.8	10	61	103
DH452064	6.4	8	53	91	DH452089	8.9	10	61	103
DH452065	6.5	8	53	91	DH452090	9.0	10	61	103
DH452066	6.6	8	53	91	DH452091	9.1	10	61	103
DH452067	6.7	8	53	91	DH452092	9.2	10	61	103
DH452068	6.8	8	53	91	DH452093	9.3	10	61	103
DH452069	6.9	8	53	91	DH452094	9.4	10	61	103
DH452070	7.0	8	53	91	DH452095	9.5	10	61	103
DH452071	7.1	8	53	91	DH452096	9.6	10	61	103
DH452072	7.2	8	53	91	DH452097	9.7	10	61	103
DH452073	7.3	8	53	91	DH452098	9.8	10	61	103
DH452074	7.4	8	53	91	DH452099	9.9	10	61	103
DH452075	7.5	8	53	91	DH452100	10.0	10	61	103
DH452076	7.6	8	53	91	DH452101	10.1	12	71	118
DH452077	7.7	8	53	91	DH452102	10.2	12	71	118
DH452078	7.8	8	53	91	DH452103	10.3	12	71	118
DH452079	7.9	8	53	91	DH452104	10.4	12	71	118
DH452080	8.0	8	53	91	DH452105	10.5	12	71	118
DH452081	8.1	10	61	103	DH452106	10.6	12	71	118
DH452082	8.2	10	61	103	DH452107	10.7	12	71	118
DH452083	8.3	10	61	103	DH452108	10.8	12	71	118
DH452084	8.4	10	61	103	DH452109	10.9	12	71	118

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



**DREAM DRILLS
-INOX**

DH452 SERIES

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

**LONG
LANG**



DIN
6537

MG

h6

m7

140°



5 × 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
DH452110	11.0	12	71	118	DH452140	14.0	14	77	124
DH452111	11.1	12	71	118	DH452145	14.5	16	83	133
DH452112	11.2	12	71	118	DH452150	15.0	16	83	133
DH452113	11.3	12	71	118	DH452155	15.5	16	83	133
DH452114	11.4	12	71	118	DH452160	16.0	16	83	133
DH452115	11.5	12	71	118	DH452165	16.5	18	93	143
DH452116	11.6	12	71	118	DH452170	17.0	18	93	143
DH452117	11.7	12	71	118	DH452175	17.5	18	93	143
DH452118	11.8	12	71	118	DH452180	18.0	18	93	143
DH452119	11.9	12	71	118	DH452185	18.5	20	101	153
DH452120	12.0	12	71	118	DH452190	19.0	20	101	153
DH452125	12.5	14	77	124	DH452195	19.5	20	101	153
DH452130	13.0	14	77	124	DH452200	20.0	20	101	153
DH452135	13.5	14	77	124					

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

◎ : Excellent ○ : Good



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

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

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