



Leading Through Innovation

SOLID CARBIDE

DREAM DRILLS -GENERAL

DREAM DRILLS - UNIVERSAL

- For General Purpose (HRc30 to HRc50)
- Für allgemeine Anwendungen (HRc30 bis HRc50)

[illegible]



DH404

SERIES

CARBIDE, DREAM DRILLS

 **VOLLHARTMETALL DREAM SPIRALBOHRER**
 **Forets DREAM DRILLS carbure, série extra-courte**
 **PUNTE ELICOIDALI IN MD - DREAM DRILLS**

STUB

EXTRA KURZ

EXTRA-COURTE

EXTRA CORTA

► Drilling for Steel, Cast Steel, Cast Iron, Malleable Cast Iron

► Self centering and chip breaking by R-thinning

► Wave shape and negative land on the cutting edge for low thrust, stable torque and long tool life

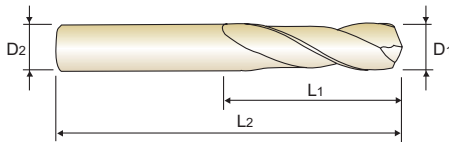
► Optimized flute shape for strength of drilling and smooth chip evacuation

► Bohren von Stahl, Stahlguss, Gusseisen, Temperguss, Nichteisenmetallen-Leichtmetallen, abrasiven Kunststoffen

► Selbst zentrierend und guter Spanbruch durch die R-Ausspitzung

► Wellenform und Neagtivfäse auf der Schneide bewirken geringen Schub, stabiles Drehmoment und lange Standzeit

► Optimierte Nutenform für Hochleistungsbohren und leichte Spanabfuhr



DIN 6539

CARBIDE

30°

h6

h7

140°

TiAIN



p.A114

D₁=D₂

3 x D

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length
TiAIN	D ₁	L ₁	L ₂
DH404078	7.8	37	79
DH404079	7.9	37	79
DH404080	8.0	37	79
DH404081	8.1	37	79
DH404082	8.2	37	79
DH404083	8.3	37	79
DH404084	8.4	37	79
DH404085	8.5	37	79
DH404086	8.6	40	84
DH404087	8.7	40	84
DH404088	8.8	40	84
DH404089	8.9	40	84
DH404090	9.0	40	84
DH404091	9.1	40	84
DH404092	9.2	40	84
DH404093	9.3	40	84
DH404094	9.4	40	84
DH404095	9.5	40	84
DH404096	9.6	43	89
DH404097	9.7	43	89
DH404098	9.8	43	89
DH404099	9.9	43	89

EDP No.	Drill Diameter	Flute Length	Overall Length
TiAIN	D ₁	L ₁	L ₂
DH404100	10.0	43	89
DH404102	10.2	43	89
DH404105	10.5	43	89
DH404110	11.0	47	95
DH404115	11.5	47	95
DH404120	12.0	51	102
DH404130	13.0	51	102
DH404135	13.5	54	107
DH404140	14.0	54	107
DH404145	14.5	56	111
DH404150	15.0	56	111
DH404155	15.5	58	115
DH404160	16.0	58	115
DH404165	16.5	60	119
DH404170	17.0	60	119
DH404175	17.5	62	123
DH404180	18.0	62	123
DH404185	18.5	64	127
DH404190	19.0	64	127
DH404195	19.5	66	131
DH404200	20.0	66	131

► Other shank types are available on your request.

ISO

Material Description	P									M				K					
	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel	Stainless steel			Grey cast iron	Nodular cast iron	Malleable cast iron			
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	20
HRC		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25	21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	230
Recommended		◎	◎	◎	○	◎	◎	○	○	◎	○	○	○	○	◎	○	◎	○	○

ISO

Material Description	N					S				H											
	Aluminum-wrought alloy		Aluminum-cast, alloyed		Copper and Copper Alloys (Bronze / Brass)	Non Metallic Materials		Heat Resistant Super Alloys		Titanium Alloys		Hardened steel	Chilled Cast Iron	Hardened Cast Iron							
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
HRC											15	30	25	38	34			55	60	42	55
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400 Rm	1050 Rm	550	630	400	550
Recommended																		○			

YG-1 CO., LTD.

phone: +82-32-526-0909, www.yg1.solutions, E-mail: yg1@yg1.solutions

A99



PLAIN SHANK

DH423 SERIES

FLAT SHANK

DH443 SERIES

CARBIDE, DREAM DRILLS

- VOLLHARTMETALL DREAM SPIRALBOHRER
- Forets DREAM DRILLS carbure, série courte
- PUNTE ELICOIDALI IN MD - DREAM DRILLS

- ▶ Drilling for Steel, Cast Steel, Cast Iron, Malleable Cast Iron
- ▶ Self centering and chip breaking by R-thinning
- ▶ Wave shape and negative land on the cutting edge for low thrust, stable torque and long tool life
- ▶ Optimized flute shape for strength of drilling and smooth chip evacuation

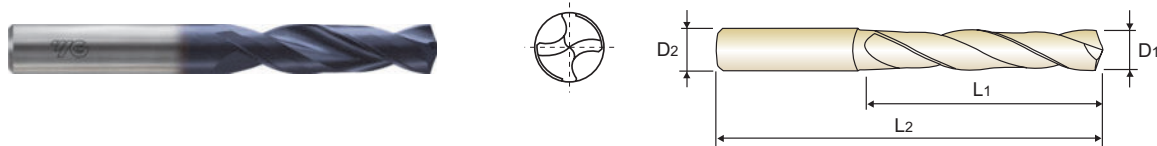
- ▶ Bohren von Stahl, Stahlguss, Gusseisen, Temperguss, Nichteisenmetallen-Leichtmetallen, abrasiven Kunststoffen
- ▶ Selbst zentrierend und guter Spanbruch durch die R-Ausspitzung
- ▶ Wellenform und Neagtivfase auf der Schneide bewirken geringen Schub, stabiles Drehmoment und lange Standzeit
- ▶ Optimierte Nutenform für Hochleistungsbohren und leichte Spanabfuhr

SHORT

KURZ

COURTE

CORTA



DIN 6537

CARBIDE

30°

h6

m7

140°

TiAIN

p.A114

3 × D

						Unit : mm					
EDP No. (TiAIN)		Drill Diameter	Shank Diameter	Flute Length	Overall Length	EDP No. (TiAIN)		Drill Diameter	Shank Diameter	Flute Length	Overall Length
Plain	Flat	D1	D2	L1	L2	Plain	Flat	D1	D2	L1	L2
DH423030	DH443030	3.0	6	20	62	DH423054	DH443054	5.4	6	28	66
DH423031	DH443031	3.1	6	20	62	DH423055	DH443055	5.5	6	28	66
DH423032	DH443032	3.2	6	20	62	DH423056	DH443056	5.6	6	28	66
DH423033	DH443033	3.3	6	20	62	DH423057	DH443057	5.7	6	28	66
DH423034	DH443034	3.4	6	20	62	DH423058	DH443058	5.8	6	28	66
DH423035	DH443035	3.5	6	20	62	DH423059	DH443059	5.9	6	28	66
DH423036	DH443036	3.6	6	20	62	DH423060	DH443060	6.0	6	28	66
DH423037	DH443037	3.7	6	20	62	DH423061	DH443061	6.1	8	34	79
DH423038	DH443038	3.8	6	24	66	DH423062	DH443062	6.2	8	34	79
DH423039	DH443039	3.9	6	24	66	DH423063	DH443063	6.3	8	34	79
DH423040	DH443040	4.0	6	24	66	DH423064	DH443064	6.4	8	34	79
DH423041	DH443041	4.1	6	24	66	DH423065	DH443065	6.5	8	34	79
DH423042	DH443042	4.2	6	24	66	DH423066	DH443066	6.6	8	34	79
DH423043	DH443043	4.3	6	24	66	DH423067	DH443067	6.7	8	34	79
DH423044	DH443044	4.4	6	24	66	DH423068	DH443068	6.8	8	34	79
DH423045	DH443045	4.5	6	24	66	DH423069	DH443069	6.9	8	34	79
DH423046	DH443046	4.6	6	24	66	DH423070	DH443070	7.0	8	34	79
DH423047	DH443047	4.7	6	24	66	DH423071	DH443071	7.1	8	41	79
DH423048	DH443048	4.8	6	28	66	DH423072	DH443072	7.2	8	41	79
DH423049	DH443049	4.9	6	28	66	DH423073	DH443073	7.3	8	41	79
DH423050	DH443050	5.0	6	28	66	DH423074	DH443074	7.4	8	41	79
DH423051	DH443051	5.1	6	28	66	DH423075	DH443075	7.5	8	41	79
DH423052	DH443052	5.2	6	28	66	DH423076	DH443076	7.6	8	41	79
DH423053	DH443053	5.3	6	28	66	DH423077	DH443077	7.7	8	41	79

▶ Other shank types are available on your request.

▶ NEXT PAGE

ISO	P										M					K				
	Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel					Stainless steel				
Material Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRC	13	25	28	32	30	10	29	32	38	15	35	15	23	10	10	26	3	25	21	
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎

ISO	N										S					H				
	Aluminum-wrought alloy					Aluminum-cast, alloyed					Copper and Copper Alloys (Bronze / Brass)					Non Metallic Materials				
Material Description	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
HRC	60	100	75	90	130	110	90	100			15	30	25	38	34	400 Rm	1050 Rm	55	60	42
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400 Rm	1050 Rm	550	630	400
Recommended																				



PLAIN SHANK

DH423 SERIES

FLAT SHANK

DH443 SERIES

CARBIDE, DREAM DRILLS

- VOLLHARTMETALL DREAM SPIRALBOHRER
- Forets DREAM DRILLS carbure, série courte
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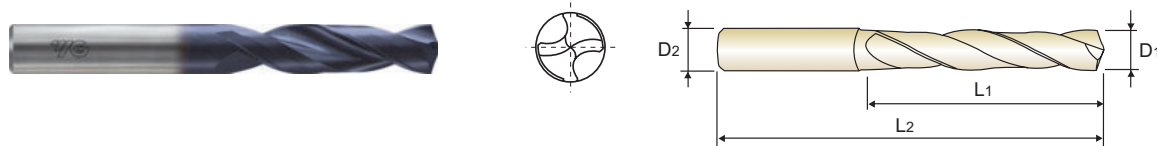
- ▶ Bohren von Stahl, Stahlguss, Gusseisen, Temperguss, Nichteisenmetallen-Leichtmetallen, abrasiven Kunsstoffen
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- ▶ Optimierte Nutenform für Hochleistungsbohren und leichte Spanabfuhr

SHORT

KURZ

COURTE

CORTA



DIN 6537

CARBIDE

30°

h6

m7

140°

TiAIN

p.A114

3 × D

EDP No. (TiAIN)		Drill Diameter	Shank Diameter	Flute Length	Overall Length	Unit : mm					
Plain	Flat	D1	D2	L1	L2	EDP No. (TiAIN)	Drill Diameter	Shank Diameter	Flute Length	Overall Length	
DH423078	DH443078	7.8	8	41	79	DH423102	DH443102	10.2	12	55	102
DH423079	DH443079	7.9	8	41	79	DH423103	DH443103	10.3	12	55	102
DH423080	DH443080	8.0	8	41	79	DH423104	DH443104	10.4	12	55	102
DH423081	DH443081	8.1	10	47	89	DH423105	DH443105	10.5	12	55	102
DH423082	DH443082	8.2	10	47	89	DH423106	DH443106	10.6	12	55	102
DH423083	DH443083	8.3	10	47	89	DH423107	DH443107	10.7	12	55	102
DH423084	DH443084	8.4	10	47	89	DH423108	DH443108	10.8	12	55	102
DH423085	DH443085	8.5	10	47	89	DH423109	DH443109	10.9	12	55	102
DH423086	DH443086	8.6	10	47	89	DH423110	DH443110	11.0	12	55	102
DH423087	DH443087	8.7	10	47	89	DH423111	DH443111	11.1	12	55	102
DH423088	DH443088	8.8	10	47	89	DH423112	DH443112	11.2	12	55	102
DH423089	DH443089	8.9	10	47	89	DH423113	DH443113	11.3	12	55	102
DH423090	DH443090	9.0	10	47	89	DH423114	DH443114	11.4	12	55	102
DH423091	DH443091	9.1	10	47	89	DH423115	DH443115	11.5	12	55	102
DH423092	DH443092	9.2	10	47	89	DH423116	DH443116	11.6	12	55	102
DH423093	DH443093	9.3	10	47	89	DH423117	DH443117	11.7	12	55	102
DH423094	DH443094	9.4	10	47	89	DH423118	DH443118	11.8	12	55	102
DH423095	DH443095	9.5	10	47	89	DH423119	DH443119	11.9	12	55	102
DH423096	DH443096	9.6	10	47	89	DH423120	DH443120	12.0	12	55	102
DH423097	DH443097	9.7	10	47	89	DH423123	DH443123	12.3	14	60	107
DH423098	DH443098	9.8	10	47	89	DH423125	DH443125	12.5	14	60	107
DH423099	DH443099	9.9	10	47	89	DH423128	DH443128	12.8	14	60	107
DH423100	DH443100	10.0	10	47	89	DH423130	DH443130	13.0	14	60	107
DH423101	DH443101	10.1	12	55	102	DH423135	DH443135	13.5	14	60	107



PLAIN SHANK

DH406 SERIES

FLAT SHANK

DH446 SERIES

CARBIDE, DREAM DRILLS with COOLANT HOLES

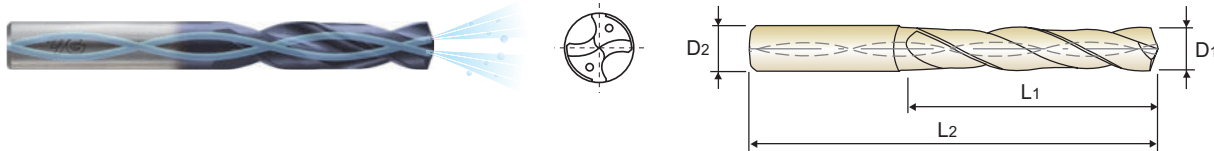
SHORT

- VOLLHARTMETALL DREAM SPIRALBOHRER mit KÜHLKANAL
- Forets DREAM DRILLS carbure, avec arrosage central, série courte
- PUNTE ELICOIDALI IN MD - DREAM DRILLS (con fori di refrigerazione)

KURZ
COURTE
CORTA

- ▶ Drilling for Steel, Cast Steel, Cast Iron, Malleable Cast Iron
- ▶ Self centering and chip breaking by R-thinning
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- ▶ Optimierte Nutenform für Hochleistungsbohren und leichte Spanabfuhr



DIN 6537

CARBIDE

30°

h6

m7

140°

20 bar

TiAIN

p.A115

3 × D

EDP No. (TiAIN)						EDP No. (TiAIN)					
Plain		Drill Diameter	Shank Diameter	Flute Length	Overall Length	Plain		Drill Diameter	Shank Diameter	Flute Length	Overall Length
		D1	D2	L1	L2			D1	D2	L1	L2
DH406030	DH446030	3.0	6	20	62	DH406054	DH446054	5.4	6	28	66
DH406031	DH446031	3.1	6	20	62	DH406055	DH446055	5.5	6	28	66
DH406032	DH446032	3.2	6	20	62	DH406056	DH446056	5.6	6	28	66
DH406033	DH446033	3.3	6	20	62	DH406057	DH446057	5.7	6	28	66
DH406034	DH446034	3.4	6	20	62	DH406058	DH446058	5.8	6	28	66
DH406035	DH446035	3.5	6	20	62	DH406059	DH446059	5.9	6	28	66
DH406036	DH446036	3.6	6	20	62	DH406060	DH446060	6.0	6	28	66
DH406037	DH446037	3.7	6	20	62	DH406061	DH446061	6.1	8	34	79
DH406038	DH446038	3.8	6	24	66	DH406062	DH446062	6.2	8	34	79
DH406039	DH446039	3.9	6	24	66	DH406063	DH446063	6.3	8	34	79
DH406040	DH446040	4.0	6	24	66	DH406064	DH446064	6.4	8	34	79
DH406041	DH446041	4.1	6	24	66	DH406065	DH446065	6.5	8	34	79
DH406042	DH446042	4.2	6	24	66	DH406066	DH446066	6.6	8	34	79
DH406043	DH446043	4.3	6	24	66	DH406067	DH446067	6.7	8	34	79
DH406044	DH446044	4.4	6	24	66	DH406068	DH446068	6.8	8	34	79
DH406045	DH446045	4.5	6	24	66	DH406069	DH446069	6.9	8	34	79
DH406046	DH446046	4.6	6	24	66	DH406070	DH446070	7.0	8	34	79
DH406047	DH446047	4.7	6	24	66	DH406071	DH446071	7.1	8	41	79
DH406048	DH446048	4.8	6	28	66	DH406072	DH446072	7.2	8	41	79
DH406049	DH446049	4.9	6	28	66	DH406073	DH446073	7.3	8	41	79
DH406050	DH446050	5.0	6	28	66	DH406074	DH446074	7.4	8	41	79
DH406051	DH446051	5.1	6	28	66	DH406075	DH446075	7.5	8	41	79
DH406052	DH446052	5.2	6	28	66	DH406076	DH446076	7.6	8	41	79
DH406053	DH446053	5.3	6	28	66	DH406077	DH446077	7.7	8	41	79

▶ Other shank types are available on your request.

▶ NEXT PAGE

																				◎ : Excellent ○ : Good			
ISO	P										M				K								
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron				
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
HRC		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21			
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230			
Recommended		◎	◎	◎	○	◎	◎	○	○	◎	◎	○	○		◎	○	◎	○	◎	○			
ISO	N										S						H						
Material Description	Aluminum-wrought alloy		Aluminum-cast, alloyed			Copper and Copper Alloys (Bronze / Brass)			Non Metallic Materials		Heat Resistant Super Alloys				Titanium Alloys		Hardened steel		Chilled Cast Iron		Hardened Cast Iron		
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41		
HRC											15	30	25	38	34			55	60	42	55		
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400 Rm	1050 Rm	550	630	400	550		
Recommended																		○					

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YG-1 CO., LTD.



PLAIN SHANK

DH406 SERIES

FLAT SHANK

DH446 SERIES

CARBIDE, DREAM DRILLS with COOLANT HOLES

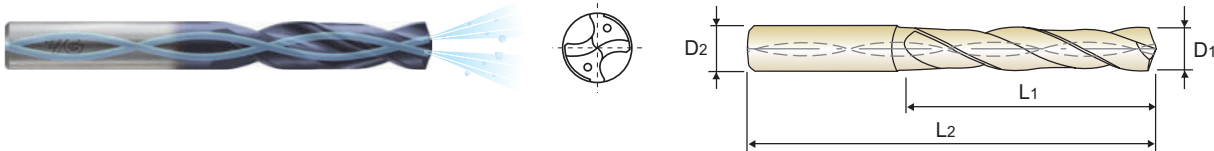
SHORT

- VOLLHARTMETALL DREAM SPIRALBOHRER mit KÜHLKANAL
- Forets DREAM DRILLS carbure, avec arrosage central, série courte
- PUNTE ELICOIDALI IN MD - DREAM DRILLS (con fori di refrigerazione)

KURZ
COURTE
CORTA

- ▶ Drilling for Steel, Cast Steel, Cast Iron, Malleable Cast Iron
- ▶ Self centering and chip breaking by R-thinning
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- ▶ Selbst zentrierend und guter Spanbruch durch die R-Ausspitzung
- ▶ Wellenform und Neagtivfase auf der Schneide bewirken geringen Schub, stabiles Drehmoment und lange Standzeit
- ▶ Optimierte Nutenform für Hochleistungsbohren und leichte Spanabfuhr



DIN 6537

CARBIDE

30°

h6

m7

140°

20 bar

TiAIN

p.A115

3 × D

EDP No. (TiAIN)						EDP No. (TiAIN)					
Plain		Drill Diameter	Shank Diameter	Flute Length	Overall Length	Plain		Drill Diameter	Shank Diameter	Flute Length	Overall Length
		D1	D2	L1	L2			D1	D2	L1	L2
DH406078	DH446078	7.8	8	41	79	DH406102	DH446102	10.2	12	55	102
DH406079	DH446079	7.9	8	41	79	DH406103	DH446103	10.3	12	55	102
DH406080	DH446080	8.0	8	41	79	DH406104	DH446104	10.4	12	55	102
DH406081	DH446081	8.1	10	47	89	DH406105	DH446105	10.5	12	55	102
DH406082	DH446082	8.2	10	47	89	DH406106	DH446106	10.6	12	55	102
DH406083	DH446083	8.3	10	47	89	DH406107	DH446107	10.7	12	55	102
DH406084	DH446084	8.4	10	47	89	DH406108	DH446108	10.8	12	55	102
DH406085	DH446085	8.5	10	47	89	DH406109	DH446109	10.9	12	55	102
DH406086	DH446086	8.6	10	47	89	DH406110	DH446110	11.0	12	55	102
DH406087	DH446087	8.7	10	47	89	DH406111	DH446111	11.1	12	55	102
DH406088	DH446088	8.8	10	47	89	DH406112	DH446112	11.2	12	55	102
DH406089	DH446089	8.9	10	47	89	DH406113	DH446113	11.3	12	55	102
DH406090	DH446090	9.0	10	47	89	DH406114	DH446114	11.4	12	55	102
DH406091	DH446091	9.1	10	47	89	DH406115	DH446115	11.5	12	55	102
DH406092	DH446092	9.2	10	47	89	DH406116	DH446116	11.6	12	55	102
DH406093	DH446093	9.3	10	47	89	DH406117	DH446117	11.7	12	55	102
DH406094	DH446094	9.4	10	47	89	DH406118	DH446118	11.8	12	55	102
DH406095	DH446095	9.5	10	47	89	DH406119	DH446119	11.9	12	55	102
DH406096	DH446096	9.6	10	47	89	DH406120	DH446120	12.0	12	55	102
DH406097	DH446097	9.7	10	47	89	DH406125	DH446125	12.5	14	60	107
DH406098	DH446098	9.8	10	47	89	DH406130	DH446130	13.0	14	60	107
DH406099	DH446099	9.9	10	47	89	DH406135	DH446135	13.5	14	60	107
DH406100	DH446100	10.0	10	47	89	DH406140	DH446140	14.0	14	60	107
DH406101	DH446101	10.1	12	55	102	DH406145	DH446145	14.5	16	65	115

▶ Other shank types are available on your request.

▶ NEXT PAGE

																				◎ : Excellent ○ : Good			
ISO	P										M				K								
Material Description	Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron			
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
HRC		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21			
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230			
Recommended		◎	◎	◎	○	◎	◎	○	○	◎	◎	○	○	○	◎	○	◎	○	◎	○			
ISO	N										S				H								
Material Description	Aluminum-wrought alloy		Aluminum-cast, alloyed			Copper and Copper Alloys (Bronze / Brass)			Non Metallic Materials		Heat Resistant Super Alloys				Titanium Alloys		Hardened steel		Chilled Cast Iron		Hardened Cast Iron		
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41		
HRC											15	30	25	38	34			55	60	42	55		
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400 Rm	1050 Rm	550	630	400	550		
Recommended																		○					



PLAIN SHANK

DH408 SERIES

FLAT SHANK

DH448 SERIES

CARBIDE, DREAM DRILLS with COOLANT HOLES

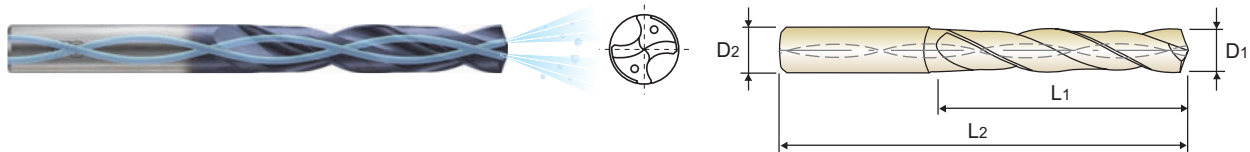
LONG

- VOLLHARTMETALL DREAM SPIRALBOHRER mit KÜHLKANAL
- Forets DREAM DRILLS carbure, avec arrosage central, série longue
- PUNTE ELICOIDALI IN MD - DREAM DRILLS (con fori di refrigerazione)

LANG
LONGUE
LUNGA

- ▶ Drilling for Steel, Cast Steel, Cast Iron, Malleable Cast Iron
- ▶ Self centering and chip breaking by R-thinning
- ▶ Wave shape and negative land on the cutting edge for low thrust, stable torque and long tool life
- ▶ Optimized flute shape for strength of drilling and smooth chip evacuation

- ▶ Bohren von Stahl, Stahlguss, Gusseisen, Temperguss, Nichteisenmetallen-Leichtmetallen, abrasiven Kunststoffen
- ▶ Selbst zentrierend und guter Spanbruch durch die R-Ausspitzung
- ▶ Wellenform und Neagtivfase auf der Schneide bewirken geringen Schub, stabiles Drehmoment und lange Standzeit
- ▶ Optimierte Nutenform für Hochleistungsbohren und leichte Spanabfuhr



DIN 6537

CARBIDE

30°

h6

m7

140°

20 bar

TiAIN

p.A115

5 × D

EDP No. (TiAIN)		Drill Diameter	Shank Diameter	Flute Length	Overall Length
Plain	Flat	D1	D2	L1	L2
DH408058	DH448058	5.8	6	44	82
DH408059	DH448059	5.9	6	44	82
DH408060	DH448060	6.0	6	44	82
DH408061	DH448061	6.1	8	53	91
DH408062	DH448062	6.2	8	53	91
DH408063	DH448063	6.3	8	53	91
DH408064	DH448064	6.4	8	53	91
DH408065	DH448065	6.5	8	53	91
DH408066	DH448066	6.6	8	53	91
DH408067	DH448067	6.7	8	53	91
DH408068	DH448068	6.8	8	53	91
DH408069	DH448069	6.9	8	53	91
DH408070	DH448070	7.0	8	53	91
DH408071	DH448071	7.1	8	53	91
DH408072	DH448072	7.2	8	53	91
DH408073	DH448073	7.3	8	53	91
DH408074	DH448074	7.4	8	53	91
DH408075	DH448075	7.5	8	53	91
DH408076	DH448076	7.6	8	53	91
DH408077	DH448077	7.7	8	53	91
DH408078	DH448078	7.8	8	53	91
DH408079	DH448079	7.9	8	53	91
DH408080	DH448080	8.0	8	53	91
DH408081	DH448081	8.1	10	61	103

EDP No. (TiAIN)		Drill Diameter	Shank Diameter	Flute Length	Overall Length
Plain	Flat	D1	D2	L1	L2
DH408082	DH448082	8.2	10	61	103
DH408083	DH448083	8.3	10	61	103
DH408084	DH448084	8.4	10	61	103
DH408085	DH448085	8.5	10	61	103
DH408086	DH448086	8.6	10	61	103
DH408087	DH448087	8.7	10	61	103
DH408088	DH448088	8.8	10	61	103
DH408089	DH448089	8.9	10	61	103
DH408090	DH448090	9.0	10	61	103
DH408091	DH448091	9.1	10	61	103
DH408092	DH448092	9.2	10	61	103
DH408093	DH448093	9.3	10	61	103
DH408094	DH448094	9.4	10	61	103
DH408095	DH448095	9.5	10	61	103
DH408096	DH448096	9.6	10	61	103
DH408097	DH448097	9.7	10	61	103
DH408098	DH448098	9.8	10	61	103
DH408099	DH448099	9.9	10	61	103
DH408100	DH448100	10.0	10	61	103
DH408101	DH448101	10.1	12	71	118
DH408102	DH448102	10.2	12	71	118
DH408103	DH448103	10.3	12	71	118
DH408104	DH448104	10.4	12	71	118
DH408105	DH448105	10.5	12	71	118

Unit : mm

▶ Other shank types are available on your request.

▶ NEXT PAGE

ISO		P										M					K				
Material Description		Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel					Stainless steel				
VDI 3323		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRC		13	25	28	32	30	10	29	32	38	15	35	15	23	10	10	26	3	25		21
HB		125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended			⊙	⊙	⊙	⊙	⊙	⊙	○	○	⊙	○	○	○	○	⊙	○	⊙	○	⊙	○
ISO		N										S					H				
Material Description		Aluminum-wrought alloy					Aluminum-cast, alloyed					Copper and Copper Alloys (Bronze / Brass)					Non Metallic Materials				
VDI 3323		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
HRC																					
HB		60	100	75	90	130	110	90	100												
Recommended																					

ISO		P										M					K				
Material Description		Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel					Stainless steel				
VDI 3323		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRC		13	25	28	32	30	10	29	32	38	15	35	15	23	10	10	26	3	25		21
HB		125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended			⊙	⊙	⊙	○	⊙	⊙	○	○	⊙	○	○	○	○	⊙	○	⊙	○	⊙	○
ISO		N										S					H				
Material Description		Aluminum-wrought alloy					Aluminum-cast, alloyed					Copper and Copper Alloys (Bronze / Brass)					Non Metallic Materials				
VDI 3323		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
HRC																					
HB		60	100	75	90	130	110	90	100												
Recommended																					



PLAIN SHANK

DH408 SERIES

FLAT SHANK

DH448 SERIES

CARBIDE, DREAM DRILLS with COOLANT HOLES

LONG

- VOLLHARTMETALL DREAM SPIRALBOHRER mit KÜHLKANAL
- Forets DREAM DRILLS carbure, avec arrosage central, série longue
- PUNTE ELICOIDALI IN MD - DREAM DRILLS (con fori di refrigerazione)

LANG
LONGUE
LUNGA

- ▶ Drilling for Steel, Cast Steel, Cast Iron, Malleable Cast Iron
- ▶ Self centering and chip breaking by R-thinning
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- ▶ Selbst zentrierend und guter Spanbruch durch die R-Ausspitzung
- ▶ Wellenform und Neagtivfase auf der Schneide bewirken geringen Schub, stabiles Drehmoment und lange Standzeit
- ▶ Optimierte Nutenform für Hochleistungsbohren und leichte Spanabfuhr



DIN 6537

CARBIDE

30°

h6

m7

140°

20 bar

TiAIN

p.A115

5 × D

EDP No. (TiAIN)		Drill Diameter	Shank Diameter	Flute Length	Overall Length
Plain	Flat	D1	D2	L1	L2
DH408106	DH448106	10.6	12	71	118
DH408107	DH448107	10.7	12	71	118
DH408108	DH448108	10.8	12	71	118
DH408109	DH448109	10.9	12	71	118
DH408110	DH448110	11.0	12	71	118
DH408111	DH448111	11.1	12	71	118
DH408112	DH448112	11.2	12	71	118
DH408113	DH448113	11.3	12	71	118
DH408114	DH448114	11.4	12	71	118
DH408115	DH448115	11.5	12	71	118
DH408116	DH448116	11.6	12	71	118
DH408117	DH448117	11.7	12	71	118
DH408118	DH448118	11.8	12	71	118
DH408119	DH448119	11.9	12	71	118
DH408120	DH448120	12.0	12	71	118
DH408125	DH448125	12.5	14	77	124
DH408130	DH448130	13.0	14	77	124
DH408135	DH448135	13.5	14	77	124
DH408140	DH448140	14.0	14	77	124
DH408145	DH448145	14.5	16	83	133
DH408150	DH448150	15.0	16	83	133
DH408155	DH448155	15.5	16	83	133
DH408160	DH448160	16.0	16	83	133
DH408165	DH448165	16.5	18	93	143

EDP No. (TiAIN)		Drill Diameter	Shank Diameter	Flute Length	Overall Length
Plain	Flat	D1	D2	L1	L2
DH408170	DH448170	17.0	18	93	143
DH408175	DH448175	17.5	18	93	143
DH408180	DH448180	18.0	18	93	143
DH408185	DH448185	18.5	20	101	153
DH408190	DH448190	19.0	20	101	153
DH408195	DH448195	19.5	20	101	153
DH408200	DH448200	20.0	20	101	153

▶ Other shank types are available on your request.

◎ : Excellent ○ : Good																							
ISO	P										M				K								
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel		Grey cast iron		Nodular cast iron		Malleable cast iron					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
HrC		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21			
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230			
Recommended		◎	◎	◎	○	◎	◎	○	○	◎	◎	○	○	○	◎	○	◎	○	◎	○			
ISO	N										S										H		
Material Description	Aluminum-wrought alloy		Aluminum-cast, alloyed			Copper and Copper Alloys (Bronze / Brass)			Non Metallic Materials		Heat Resistant Super Alloys					Titanium Alloys		Hardened steel	Chilled Cast Iron	Hardened Cast Iron			
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41		
HrC											15	30	25	38	34			55	60	42	55		
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400 Rm	1050 Rm	550	630	400	550		
Recommended																		○					



DH421 SERIES

CARBIDE, DREAM DRILLS with COOLANT HOLES

EXTRA LONG

- VOLLHARTMETALL DREAM SPIRALBOHRER mit KÜHLKANAL
- Forets DREAM DRILLS carbure, avec arrosage central, série extra-longue
- PUNTE ELICOIDALI IN MD - DREAM DRILLS (con fori di refrigerazione)

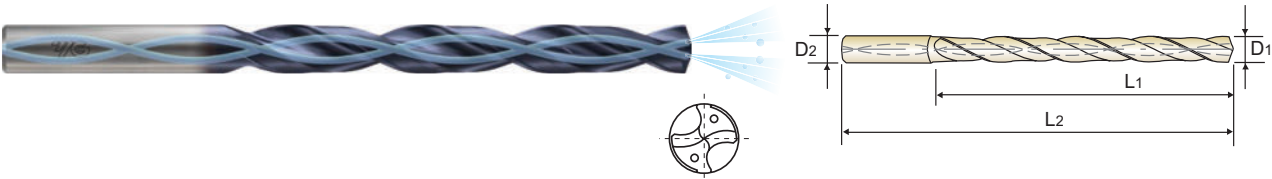
ÜBERLANG

EXTRA-LONGUE

EXTRA LUNGA

- ▶ Drilling for Steel, Cast Steel, Cast Iron, Malleable Cast Iron
- ▶ Self centering and chip breaking by R-thinning
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- ▶ Selbst zentrierend und guter Spanbruch durch die R-Ausspitzung
- ▶ Wellenform und Neagtivfase auf der Schneide bewirken geringen Schub, stabiles Drehmoment und lange Standzeit
- ▶ Optimierte Nutenform für Hochleistungsbohren und leichte Spanabfuhr



DIN 6537

CARBIDE

30°

h6

m7

140°

20 bar

TiAIN

p.A115

8 × D

Unit : mm					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
DH421030	3.0	6	34	72	DH421054	5.4	6	57	95
DH421031	3.1	6	34	72	DH421055	5.5	6	57	95
DH421032	3.2	6	34	72	DH421056	5.6	6	57	95
DH421033	3.3	6	34	72	DH421057	5.7	6	57	95
DH421034	3.4	6	34	72	DH421058	5.8	6	57	95
DH421035	3.5	6	34	72	DH421059	5.9	6	57	95
DH421036	3.6	6	34	72	DH421060	6.0	6	57	95
DH421037	3.7	6	34	72	DH421061	6.1	8	76	114
DH421038	3.8	6	43	81	DH421062	6.2	8	76	114
DH421039	3.9	6	43	81	DH421063	6.3	8	76	114
DH421040	4.0	6	43	81	DH421064	6.4	8	76	114
DH421041	4.1	6	43	81	DH421065	6.5	8	76	114
DH421042	4.2	6	43	81	DH421066	6.6	8	76	114
DH421043	4.3	6	43	81	DH421067	6.7	8	76	114
DH421044	4.4	6	43	81	DH421068	6.8	8	76	114
DH421045	4.5	6	43	81	DH421069	6.9	8	76	114
DH421046	4.6	6	43	81	DH421070	7.0	8	76	114
DH421047	4.7	6	43	81	DH421071	7.1	8	76	114
DH421048	4.8	6	57	95	DH421072	7.2	8	76	114
DH421049	4.9	6	57	95	DH421073	7.3	8	76	114
DH421050	5.0	6	57	95	DH421074	7.4	8	76	114
DH421051	5.1	6	57	95	DH421075	7.5	8	76	114
DH421052	5.2	6	57	95	DH421076	7.6	8	76	114
DH421053	5.3	6	57	95	DH421077	7.7	8	76	114

▶ Other shank types are available on your request.

▶ NEXT PAGE

◎ : Excellent ○ : Good																						
ISO	P										M				K							
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron			
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
HRC		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21		
HB		125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230	
Recommended		◎	◎	◎	○	◎	◎	○	○	◎	○	○	○	○	◎	○	◎	○	◎	○		
ISO	N										S					H						
Material Description	Aluminum-wrought alloy		Aluminum-cast, alloyed			Copper and Copper Alloys (Bronze / Brass)			Non Metallic Materials		Heat Resistant Super Alloys				Titanium Alloys		Hardened steel		Chilled Cast Iron		Hardened Cast Iron	
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	
HRC											15	30	25	38	34			55	60	42	55	
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400 Rm	1050 Rm	550	630	400	550	
Recommended																		○				

A112 phone:+82-32-526-0909, www.yg1.solutions, E-mail:yg1@yg1.solutions

YG YG-1 CO., LTD.



DH421 SERIES

CARBIDE, DREAM DRILLS with COOLANT HOLES

EXTRA LONG

- VOLLHARTMETALL DREAM SPIRALBOHRER mit KÜHLKANAL
- Forets DREAM DRILLS carbure, avec arrosage central, série extra-longue
- PUNTE ELICOIDALI IN MD - DREAM DRILLS (con fori di refrigerazione)

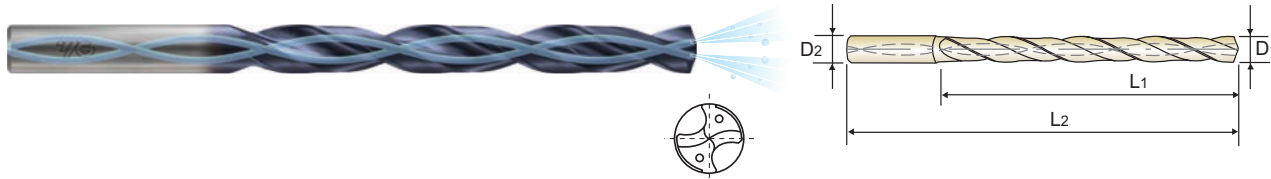
ÜBERLANG

EXTRA-LONGUE

EXTRA LUNGA

- ▶ Drilling for Steel, Cast Steel, Cast Iron, Malleable Cast Iron
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- ▶ Optimierte Nutenform für Hochleistungsbohren und leichte Spanabfuhr



DIN 6537

CARBIDE

30°

h6

m7

140°

20 bar

TiAIN

p.A115

8 × D

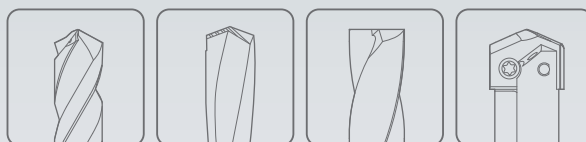
Unit : mm					Unit : mm				
EDP No.	Drill Diameter	Shank Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Shank Diameter	Flute Length	Overall Length
TiAIN	D1	D2	L1	L2	TiAIN	D1	D2	L1	L2
DH421078	7.8	8	76	114	DH421102	10.2	12	114	162
DH421079	7.9	8	76	114	DH421103	10.3	12	114	162
DH421080	8.0	8	76	114	DH421104	10.4	12	114	162
DH421081	8.1	10	95	142	DH421105	10.5	12	114	162
DH421082	8.2	10	95	142	DH421106	10.6	12	114	162
DH421083	8.3	10	95	142	DH421107	10.7	12	114	162
DH421084	8.4	10	95	142	DH421108	10.8	12	114	162
DH421085	8.5	10	95	142	DH421109	10.9	12	114	162
DH421086	8.6	10	95	142	DH421110	11.0	12	114	162
DH421087	8.7	10	95	142	DH421111	11.1	12	114	162
DH421088	8.8	10	95	142	DH421112	11.2	12	114	162
DH421089	8.9	10	95	142	DH421113	11.3	12	114	162
DH421090	9.0	10	95	142	DH421114	11.4	12	114	162
DH421091	9.1	10	95	142	DH421115	11.5	12	114	162
DH421092	9.2	10	95	142	DH421116	11.6	12	114	162
DH421093	9.3	10	95	142	DH421117	11.7	12	114	162
DH421094	9.4	10	95	142	DH421118	11.8	12	114	162
DH421095	9.5	10	95	142	DH421119	11.9	12	114	162
DH421096	9.6	10	95	142	DH421120	12.0	12	114	162
DH421097	9.7	10	95	142	DH421125	12.5	14	133	178
DH421098	9.8	10	95	142	DH421130	13.0	14	133	178
DH421099	9.9	10	95	142	DH421135	13.5	14	133	178
DH421100	10.0	10	95	142	DH421140	14.0	14	133	178
DH421101	10.1	12	114	162					

▶ Other shank types are available on your request.

◎ : Excellent ○ : Good																							
ISO	P										M				K								
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron				
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21			
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230			
Recommended		◎	◎	◎	○	◎	◎	○	○	◎	○	○	○	○	◎	○	◎	○	◎	○			
ISO	N										S										H		
Material Description	Aluminum-wrought alloy		Aluminum-cast, alloyed			Copper and Copper Alloys (Bronze / Brass)			Non Metallic Materials		Heat Resistant Super Alloys					Titanium Alloys		Hardened steel		Chilled Cast iron		Hardened Cast iron	
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41		
HRc											15	30	25	38	34			55	60	42	55		
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400 Rm	1050 Rm	550	630	400	550		
Recommended																		○					



Global Cutting Tool Leader **YG-1**



HOLEMAKING