



Leading Through Innovation



HSS, HSS-E & HSS Co8

STRAIGHT SHANK DRILLS

BOHRER MIT ZYLINDERSCHAFT

- For General Purpose (Soft & Tough Materials)
- Für allgemeine Anwendungen (weiche & zähe Materialien)

SELECTION GUIDE



SERIES	D2107	D1107	D2105
STANDARD	DIN 1897	DIN 1897	DIN 338
LENGTH	STUB	STUB	JOBBER
SIZE MIN	D1.0	D1.1	D1.0
SIZE MAX	D30.0	D13.0	D20.0
PAGE	A232	A235	A237
SURFACE TREATMENT	Gold Coloring	Vap	Gold Coloring

HSS, HSS-E & HSS Co8
STRAIGHT SHANK
DRILLS

For General Purpose (Soft & Tough Materials)



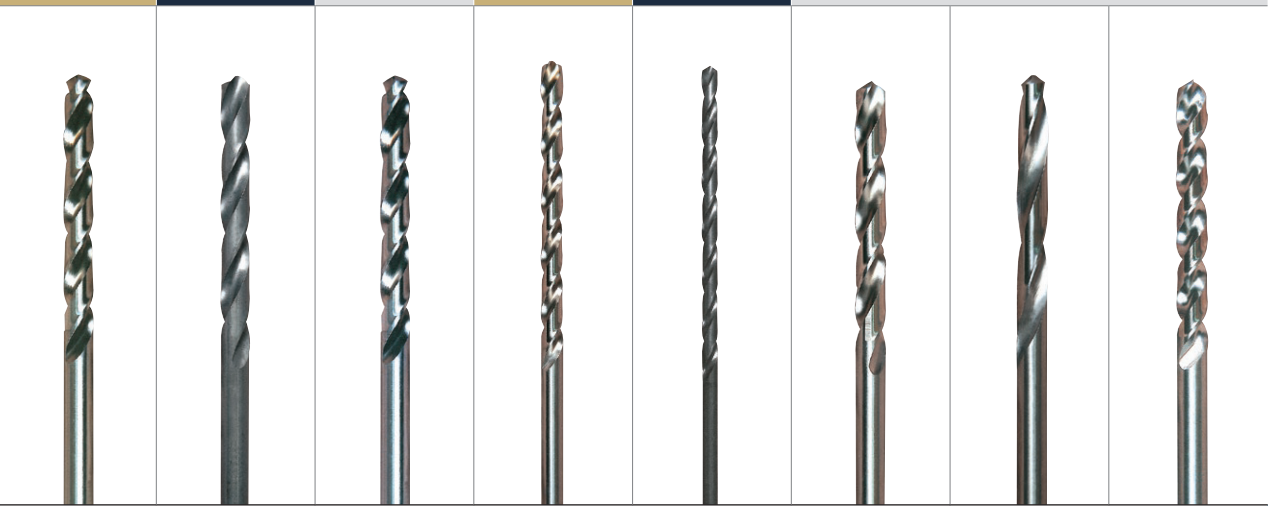
Please visit
globalyg1.com/mat
for material search

◎ : Excellent ○ : Good

Recommended cutting conditions : p.A270

ISO	VDI 3323	Material Description	Composition / Structure / Heat Treatment		HB	HRc			
P	1	Non-alloy steel	About 0.15% C	Annealed	125		◎	◎	◎
	2		About 0.45% C	Annealed	190	13	◎	◎	◎
	3		About 0.45% C	Quenched & Tempered	250	25	◎	◎	◎
	4		About 0.75% C	Annealed	270	28	○	○	○
	5		About 0.75% C	Quenched & Tempered	300	32			
	6	Low alloy steel		Annealed	180	10	◎	◎	◎
	7			Quenched & Tempered	275	29	○	○	○
	8			Quenched & Tempered	300	32	○	○	○
	9			Quenched & Tempered	350	38			
	10	High alloyed steel, and tool steel		Annealed	200	15	○	○	○
	11			Quenched & Tempered	325	35			
M	12	Stainless steel	Ferritic / Martensitic	Annealed	200	15	◎	○	◎
	13		Martensitic	Quenched & Tempered	240	23	○	○	○
	14		Austenitic		180	10	○	○	○
K	15	Grey cast iron	Pearlitic / ferritic		180	10	○	○	○
	16		Pearlitic (Martensitic)		260	26	○	○	○
	17	Nodular cast iron	Ferritic		160	3	○	○	○
	18		Pearlitic		250	25			
	19	Malleable cast iron	Ferritic		130		○	○	○
	20		Pearlitic		230	21			
N	21	Aluminum-wrought alloy	Not Curable		60		○	○	○
	22		Curable Hardened		100		○	○	○
	23	Aluminum-cast, alloyed	≤ 12% Si, Not Curable		75		○	○	○
	24		≤ 12% Si, Curable Hardened		90				
	25		> 12% Si, Not Curable		130				
	26	Copper and Copper Alloys	Cutting Alloys, PB>1%		110				
	27		CuZn, CuSnZn (Brass)		90				
	28	Non Metallic Materials	CuSn, lead-free copper and electrolytic copper		100				
	29		Duroplastic, Fiber Reinforced Plastic				○	○	○
	30		Rubber, Wood, etc.						
S	31	Heat Resistant Super Alloys	Fe Based	Annealed	200	15			
	32			Cured	280	30			
	33		Ni or Co Based	Annealed	250	25			
	34			Cured	350	38			
	35			Cast	320	34			
	36	Titanium Alloys	Pure Titanium		400 Rm		○	○	○
	37		Alpha + Beta Alloys Hardened		1050 Rm				
H	38	Hardened steel			550	55			
	39				630	60			
	40	Chilled Cast Iron			400	42			
	41	Hardened Cast Iron			550	55			

DL105	D1105	D1125	D2104	D1121	DL109	D1100	D1106
DIN 338	DIN 338	DIN 338	DIN 340	DIN 1869/1	DIN 338	DIN 338	DIN 338
JOBBER	JOBBER	JOBBER	LONG	EXTRA LONG	JOBBER	JOBBER	JOBBER
D1.0	D0.3	D2.0	D2.0	D2.0	D1.75	D1.5	D1.5
D20.0	D20.0	D20.0	D12.0	D13.0	D12.5	D12.0	D13.0
A240	A247	A248	A250	A252	A253	A254	A255
Gold Coloring	Vap	Bright	Gold Coloring	Vap	Bright		



◎	◎	◎	◎	◎	◎		1
◎	◎	◎	◎	◎	◎		2
◎	◎	◎	◎	◎	◎		3
○	○	○	○	○	○		4
							5
◎	◎	◎	◎	◎	◎		6 P
○	○	○	○	○	○		7
○	○	○	○	○	○		8
							9
○	○	○	○	○	○		10
							11
◎	○	○	◎	○	◎		12
○	○	○	○	○	○		13 M
○	○	○	○	○	○		14
○	○	○	○	○	○		15
○	○	○	○	○	○		16
○	○	○	○	○	○		17 K
							18
○	○	○	○	○	○		19
							20
○	○	○	○	○	○		21
○	○	○	○	○	○		22
○	○	○	○	○	○		23
							24
							25 N
							26
							27
						◎	28
						◎	29
○	○	○	○	○	○		30
							31
							32
							33
							34 S
							35
○	○	○	○	○	○		36
							37
							38
							39
							40 H
							41

SELECTION GUIDE



SERIES

STANDARD

LENGTH

SIZE MIN

SIZE MAX

PAGE

SURFACE TREATMENT

DH100 DL510	DH100 DL508	DH100 DL509
DIN 1897	DIN 338	DIN 340
STUB	JOBBER	LONG
D2.0	D2.0	D2.0
D20.0	D16.0	D12.0
A257	A259	A261

Bright



HSS-E

STRAIGHT SHANK
DRILLS

For General Purpose (Soft & Tough Materials)



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◎ : Excellent ○ : Good

Recommended cutting conditions : p.A272

ISO	VDI 3323	Material Description	Composition / Structure / Heat Treatment		HB	HRc			
P	1	Non-alloy steel	About 0.15% C	Annealed	125		◎	◎	◎
	2		About 0.45% C	Annealed	190	13	◎	◎	◎
	3		About 0.45% C	Quenched & Tempered	250	25	◎	◎	◎
	4		About 0.75% C	Annealed	270	28	○	○	○
	5		About 0.75% C	Quenched & Tempered	300	32			
	6	Low alloy steel		Annealed	180	10	◎	◎	◎
	7			Quenched & Tempered	275	29	○	○	○
	8			Quenched & Tempered	300	32	○	○	○
	9			Quenched & Tempered	350	38			
	10	High alloyed steel, and tool steel		Annealed	200	15	○	○	○
	11			Quenched & Tempered	325	35			
M	12	Stainless steel	Ferritic / Martensitic	Annealed	200	15			
	13		Martensitic	Quenched & Tempered	240	23			
	14		Austenitic		180	10			
K	15	Grey cast iron	Pearlitic / ferritic		180	10	○	○	○
	16		Pearlitic (Martensitic)		260	26	○	○	○
	17	Nodular cast iron	Ferritic		160	3	○	○	○
	18		Pearlitic		250	25	○	○	○
	19	Malleable cast iron	Ferritic		130		○	○	○
	20		Pearlitic		230	21	○	○	○
N	21	Aluminum- wrought alloy	Not Curable		60				
	22		Curable Hardened		100				
	23	Aluminum-cast, alloyed	≤ 12% Si, Not Curable		75				
	24		≤ 12% Si, Curable Hardened		90				
	25		> 12% Si, Not Curable		130				
	26	Copper and Copper Alloys	Cutting Alloys, PB>1%		110				
	27		CuZn, CuSnZn (Brass)		90				
	28	Bronze / Brass	CuSn, lead-free copper and electrolytic copper		100				
	29		Duroplastic, Fiber Reinforced Plastic						
	30	Non Metallic Materials	Rubber, Wood, etc.						
S	31	Heat Resistant Super Alloys	Fe Based	Annealed	200	15			
	32			Cured	280	30			
	33		Ni or Co Based	Annealed	250	25			
	34			Cured	350	38			
	35			Cast	320	34			
	36	Titanium Alloys	Pure Titanium		400 Rm				
	37		Alpha + Beta Alloys Hardened		1050 Rm				
H	38	Hardened steel		Hardened	550	55			
	39			Hardened	630	60			
	40	Chilled Cast Iron		Cast	400	42			
	41	Hardened Cast Iron		Hardened	550	55			

DH100 DL505	DH100 DL504	DH100 DT600	DH100 DT692	DH100 DT693	DH100 DL608	DH50 DL507
DIN 338	DIN 340	DIN 1869/1	DIN 1869/2	DIN 1869/3	DIN 341	-
JOBBER	LONG	EXTRA LONG			LONG	EXTRA LONG
D2.0	D2.0	D2.0	D3.0	D4.0	D13.0	D2.0
D12.8	D13.0	D10.5	D10.2	D10.0	D30.0	D13.0
A263	A265	A266			A267	A268

Vap TiAIN Bright



◎	◎	◎	◎	◎	◎	○	1
◎	◎	◎	◎	◎	◎		2
◎	◎	◎	◎	◎	◎		3
○	○	○	○	○	○		4
							5
◎	◎	◎	◎	◎	◎		6 P
○	○	○	○	○	○		7
○	○	○	○	○	○		8
							9
○	○	○	○	○	○		10
							11
							12
							13 M
							14
○	○	○	○	○	○		15
○	○	○	○	○	○		16
○	○	○	○	○	○		17 K
○	○	○	○	○	○		18
○	○	○	○	○	○		19
○	○	○	○	○	○		20
						◎	21
						◎	22
						○	23
							24
							25 N
							26
							27
							28
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							31
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							33
							34 S
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							37
							38
							39 H
							40
							41

CARBIDE

HSS

STRAIGHT SHANK DRILLS

D2107 SERIES

HSS Co8, STRAIGHT SHANK TWIST DRILLS

HSS Co8, SPIRALBOHRER mit ZYLINDERSCHAFT

Forets HSS Co8, queue cylindrique, Forme C, série extra-courte

PUNTE ELICOIDALI, GAMBO CILINDRICO, HSS Co8

STUB

EXTRA KURZ

EXTRA-COURTE

EXTRA CORTA

►Surface treatment : Coloring(Gold color)

►Application : Suitable for drilling thin materials with portable electric drills.
Special twist drills for automatic and turret lathes

►Oberflächenbehandlung : Coloring(Goldfarbe)

►Verwendung : Sonderbohrer zum Einsatz auf Automaten und Revolverdrehbänken.
Geeignet für den Einsatz in Handbohrmaschinen zum Bohren von dünnwandigem Material.

under 1.6mm

1.6mm & over

DIN 1897

HSS Co8

33°

h8

135°

Gold Coloring

p.A270

EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2
D2107010	1.0	6	26
D2107011	1.1	7	28
D2107012	1.2	8	30
D2107912	1.25	8	30
D2107013	1.3	8	30
D2107014	1.4	9	32
D2107015	1.5	9	32
D2107016	1.6	10	34
D2107017	1.7	10	34
D2107917	1.75	11	36
D2107018	1.8	11	36
D2107019	1.9	11	36
D2107020	2.0	12	38
D2107021	2.1	12	38
D2107922	2.25	13	40
D2107023	2.3	13	40
D2107024	2.4	14	43
D2107025	2.5	14	43
D2107026	2.6	14	43
D2107027	2.7	16	46
D2107927	2.75	16	46
D2107028	2.8	16	46
D2107029	2.9	16	46
D2107030	3.0	16	46
D2107031	3.1	18	49
D2107032	3.2	18	49

► HSS-E(DL107) is available on your request.

► TiN(D4107), TiCN(D7107) and TiAlN(DQ107) are available on your request.

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2
D2107932	3.25	18	49
D2107033	3.3	18	49
D2107034	3.4	20	52
D2107035	3.5	20	52
D2107036	3.6	20	52
D2107037	3.7	20	52
D2107937	3.75	20	52
D2107038	3.8	22	55
D2107039	3.9	22	55
D2107040	4.0	22	55
D2107041	4.1	22	55
D2107042	4.2	22	55
D2107942	4.25	22	55
D2107043	4.3	24	58
D2107044	4.4	24	58
D2107045	4.5	24	58
D2107046	4.6	24	58
D2107946	4.65	24	58
D2107047	4.7	24	58
D2107947	4.75	24	58
D2107048	4.8	26	62
D2107049	4.9	26	62
D2107050	5.0	26	62
D2107051	5.1	26	62
D2107052	5.2	26	62
D2107952	5.25	26	62

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2
D2107053	5.3	26	62
D2107054	5.4	28	66
D2107055	5.5	28	66
D2107955	5.55	28	66
D2107056	5.6	28	66
D2107057	5.7	28	66
D2107957	5.75	28	66
D2107058	5.8	28	66
D2107059	5.9	28	66
D2107060	6.0	28	66
D2107061	6.1	31	70
D2107062	6.2	31	70
D2107962	6.25	31	70
D2107063	6.3	31	70
D2107065	6.5	31	70
D2107066	6.6	31	70
D2107067	6.7	31	70
D2107967	6.75	34	74
D2107068	6.8	34	74
D2107069	6.9	34	74
D2107070	7.0	34	74
D2107071	7.1	34	74
D2107072	7.2	34	74
D2107972	7.25	34	74
D2107073	7.3	34	74
D2107974	7.45	34	74

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2
D2107076	7.6	37	79
D2107077	7.7	37	79
D2107977	7.75	37	79
D2107078	7.8	37	79
D2107079	7.9	37	79
D2107080	8.0	37	79
D2107081	8.1	37	79
D2107082	8.2	37	79
D2107982	8.25	37	79
D2107083	8.3	37	79
D2107084	8.4	37	79
D2107085	8.5	37	79
D2107086	8.6	40	84
D2107087	8.7	40	84
D2107987	8.75	40	84
D2107088	8.8	40	84
D2107090	9.0	40	84
D2107091	9.1	40	84
D2107992	9.25	40	84
D2107093	9.3	40	84
D2107993	9.35	40	84
D2107095	9.5	40	84
D2107096	9.6	43	89
D2107097	9.7	43	89
D2107997	9.75	43	89
D2107098	9.8	43	89

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2
D2107076	7.6	37	79
D2107077	7.7	37	79
D2107977	7.75	37	79
D2107078	7.8	37	79
D2107079	7.9	37	79
D2107080	8.0	37	79
D2107081	8.1	37	79
D2107082	8.2	37	79
D2107982	8.25	37	79
D2107083	8.3	37	79
D2107084	8.4	37	79
D2107085	8.5	37	79
D2107086	8.6	40	84
D2107087	8.7	40	84
D2107987	8.75	40	84
D2107088	8.8	40	84
D2107090	9.0	40	84
D2107091	9.1	40	84
D2107992	9.25	40	84
D2107093	9.3	40	84
D2107993	9.35	40	84
D2107095	9.5	40	84
D2107096	9.6	43	89
D2107097	9.7	43	89
D2107997	9.75	43	89
D2107098	9.8	43	89

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2
D2107076	7.6	37	79
D2107077	7.7	37	79
D2107977	7.75	37	79
D2107078	7.8	37	79
D2107079	7.9	37	79
D2107080	8.0	37	79
D2107081	8.1	37	79
D2107082	8.2	37	79
D2107982	8.25	37	79
D2107083	8.3	37	79
D2107084	8.4	37	79
D2107085	8.5	37	79
D2107086	8.6	40	84
D2107087	8.7	40	84
D2107987	8.75	40	84
D2107088	8.8	40	84
D2107090	9.0	40	84
D2107091	9.1	40	84
D2107992	9.25	40	84
D2107093	9.3	40	84
D2107993	9.35	40	84
D2107095	9.5	40	84
D2107096	9.6	43	89
D2107097	9.7	43	89
D2107997	9.75	43	89
D2107098	9.8	43	89

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2
D2107076	7.6	37	79
D2107077	7.7	37	79
D2107977	7.75	37	79
D2107078	7.8	37	79
D2107079	7.9	37	79
D2107080	8.0	37	79
D2107081	8.1	37	79
D2107082	8.2	37	79
D2107982	8.25	37	79
D2107083	8.3	37	79
D2107084	8.4	37	79
D2107085	8.5	37	79
D2107086	8.6	40	84
D2107087	8.7	40	84
D2107987	8.75	40	84
D2107088	8.8	40	84
D2107090	9.0	40	84
D2107091	9.1	40	84
D2107992	9.25	40	84
D2107093	9.3	40	84
D2107993	9.35	40	84
D2107095	9.5	40	84
D2107096	9.6	43	89
D2107097	9.7	43	89
D2107997	9.75	43	89
D2107098	9.8	43	89

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2
D2107076	7.6	37	79
D2107077	7.7	37	79
D2107977	7.75	37	79
D2107078	7.8	37	79
D2107079	7.9	37	79
D2107080	8.0	37	79
D2107081	8.1	37	79
D2107082	8.2	37	79
D2107982	8.25	37	79
D2107083	8.3	37	79
D2107084	8.4	37	79
D2107085	8.5	37	79
D2107086	8.6	40	84
D2107087	8.7	40	84
D2107987	8.75	40	84
D2107088	8.8	40	84
D2107090	9.0	40	84
D2107091	9.1	40	84
D2107992	9.25	40	84
D2107093	9.3	40	84
D2107993	9.35	40	84
D2107095	9.5	40	84
D2107096	9.6	43	89
D2107097	9.7	43	89
D2107997	9.75	43	89
D2107098	9.8	43	89

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2
D2107076	7.6	37	79
D2107077	7.7	37	79
D2107977	7.75	37	79
D2107078	7.8	37	79
D2107079	7.9	37	79
D2107080	8.0	37	79
D2107081	8.1	37	79
D2107082	8.2	37	79
D2107982	8.25	37	79
D2107083	8.3	37	79
D2107084	8.4	37	79
D2107085	8.5	37	79
D2107086	8.6	40	84
D2107087	8.7	40	84
D2107987	8.75	40	84
D2107088	8.8	40	84
D2107090	9.0	40	84
D2107091	9.1	40	84
D2107992	9.25	40	84
D2107093	9.3	40	84
D2107993	9.35	40	84
D2107095	9.5	40	84
D2107096	9.6	43	89
D2107097	9.7	43	89
D2107997	9.75	43	89
D2107098	9.8	43	89

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2
D2107076	7.6	37	79
D2107077	7.7	37	79
D2107977	7.75	37	79
D2107078	7.8	37	79
D2107079	7.9	37	79
D2107080	8.0	37	79
D2107081	8.1	37	79
D2107082	8.2	37	79
D2107982	8.25	37	79
D2107083	8.3	37	79
D2107084	8.4	37	79
D2107085	8.5	37	79
D2107086	8.6	40	84
D2107087	8.7	40	84
D2107987	8.75	40	84
D2107088	8.8	40	84
D2107090	9.0	40	84
D2107091	9.1	40	84
D2107992	9.25	40	84
D2107093	9.3	40	84
D2107993	9.35	40	84
D2107095	9.5	40	84
D2107096	9.6	43	89
D2107097	9.7	43	89
D2107997	9.75	43	89
D2107098	9.8	43	89

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2
D2107076	7.6	37	79
D2107077	7.7	37	79
D2107977	7.75	37	79
D2107078	7.8	37	79
D2107079	7.9	37	79
D2107080	8.0	37	79
D2107081	8.1	37	79
D2107082	8.2	37	79
D2107982	8.25	37	79
D2107083	8.3	37	79
D2107084	8.4	37	79
D2107085	8.5	37	79
D2107086	8.6	40	84
D2107087	8.7	40	84
D2107987	8.75	40	84
D2107088	8.8	40	84
D2107090	9.0	40	84
D2107091	9.1	40	84
D2107992	9.25	40	84
D2107093	9.3	40	84
D2107993	9.35	40	84
D2107095	9.5	40	84
D2107096	9.6	43	89
D2107097	9.7	43	89
D2107997	9.75	43	89
D2107098	9.8	4	

CARBIDE

HSS

STRAIGHT SHANK DRILLS

D1107 SERIES

HSS, STRAIGHT SHANK TWIST DRILLS

HSS, SPIRALBOHRER mit ZYLINDERSCHAFT

Forets HSS, queue cylindrique, série extra-courte

PUNTE ELICOIDALI, GAMBO CILINDRICO, HSS

STUB

EXTRA KURZ

EXTRA-COURTE

EXTRA CORTA

►Surface treatment : Steam Tempered(Black Oxide Finish)

►Application : Suitable for drilling thin materials with portable electric drills.
Special twist drills for automatic and turret lathes.

►Oberflächenbehandlung : Steam Homo(Schwarzoxidation)

►Verwendung : Sonderbohrer zum Einsatz auf Automaten und Revolverdrehbänken.
Geeignet für den Einsatz in Handbohrmaschinen zum Bohren von dünnwandigem Material.

DIN 1897

HSS

N

20~30°

h8

118°

Vap

p.A270

EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2
D1107065	6.5	31	70
D1107066	6.6	31	70
D1107067	6.7	31	70
D1107967	6.75	34	74
D1107068	6.8	34	74
D1107069	6.9	34	74
D1107070	7.0	34	74
D1107071	7.1	34	74
D1107072	7.2	34	74
D1107073	7.3	34	74
D1107074	7.4	34	74
D1107075	7.5	34	74
D1107076	7.6	37	79
D1107077	7.7	37	79
D1107977	7.75	37	79
D1107078	7.8	37	79
D1107079	7.9	37	79
D1107080	8.0	37	79
D1107081	8.1	37	79
D1107082	8.2	37	79
D1107982	8.25	37	79
D1107083	8.3	37	79
D1107084	8.4	37	79
D1107085	8.5	37	79
D1107087	8.7	40	84
D1107987	8.75	40	84
D1107088	8.8	40	84
D1107089	8.9	40	84

EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2
D1107090	9.0	40	84
D1107091	9.1	40	84
D1107092	9.2	40	84
D1107992	9.25	40	84
D1107093	9.3	40	84
D1107094	9.4	40	84
D1107095	9.5	40	84
D1107096	9.6	43	89
D1107097	9.7	43	89
D1107997	9.75	43	89
D1107098	9.8	43	89
D1107099	9.9	43	89
D1107100	10.0	43	89
D1107802	10.25	43	89
D1107105	10.5	43	89
D1107807	10.75	47	95
D1107110	11.0	47	95
D1107812	11.25	47	95
D1107115	11.5	47	95
D1107817	11.75	47	95
D1107120	12.0	51	102
D1107822	12.25	51	102
D1107125	12.5	51	102
D1107827	12.75	51	102
D1107130	13.0	51	102

Unit : mm

◎ : Excellent ○ : Good

ISO	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			
Material Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VDI 3323																				
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		Heat Resistant Super Alloys			Titanium Alloys		Hardened steel	Chilled Cast Iron	Hardened Cast Iron					
Material Description	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
VDI 3323																					
HRc	60	100	75	90	130	110	90	100			15	30	25	38	34	400 Rm	1050 Rm	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	○	○	○						○							○					

CARBIDE

HSS

STRAIGHT SHANK DRILLS

D2105 SERIES

HSS Co8, STRAIGHT SHANK TWIST DRILLS

HSS CO8, SPIRALBOHRER mit ZYLINDERSCHAFT

Forets HSS Co8, queue cylindrique, Forme C, série courte

PUNTE ELICOIDALI, GAMBO CILINDRICO, HSS Co8

JOBBER

KURZ

COURTE

CORTA

►Surface treatment : Coloring(Gold color)

►Application : Drilling stainless steels and difficult - to - cut materials such as titanium and inconel.

►Oberflächenbehandlung : Coloring(Goldfarbe)

►Verwendung : Zum Bohren von rostfreien und austenitischen. Stählen, schwerzerspanbaren Werkstoffen wie Titan und Inconel.

DIN 338

HSS Co8

33°

h8

135°

Gold Coloring

p.A270

EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2
D2105010	1.0	12	34
D2105011	1.1	14	36
D2105012	1.2	16	38
D2105013	1.3	16	38
D2105014	1.4	18	40
D2105015	1.5	18	40
D2105016	1.6	20	43
D2105017	1.7	20	43
D2105917	1.75	22	46
D2105018	1.8	22	46
D2105019	1.9	22	46
D2105020	2.0	24	49
D2105021	2.1	24	49
D2105022	2.2	27	53
D2105922	2.25	27	53
D2105023	2.3	27	53
D2105024	2.4	30	57
D2105025	2.5	30	57
D2105026	2.6	30	57
D2105027	2.7	33	61
D2105927	2.75	33	61
D2105028	2.8	33	61
D2105029	2.9	33	61
D2105030	3.0	33	61
D2105031	3.1	36	65
D2105032	3.2	36	65

Unit : mm

► TiN(D4105), TiCN(D7105) and TiAlN(DQ105) are available on your request.

► NEXT PAGE

◎ : Excellent ○ : Good

ISO	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			
Material Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VDI 3323																				
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		Heat Resistant Super Alloys			Titanium Alloys		Hardened steel	Chilled Cast Iron	Hardened Cast Iron					
Material Description	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
VDI 3323																					
HRc	60	100	75	90	130	110	90	100			15	30	25	38	34	400 Rm	1050 Rm	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	○	○	○						○							○					

CARBIDE

HSS

STRAIGHT SHANK DRILLS

D2105 SERIES

HSS Co8, STRAIGHT SHANK TWIST DRILLS

HSS CO8, SPIRALBOHRER mit ZYLINDERSCHAFT

Forets HSS Co8, queue cylindrique, Forme C, série courte

PUNTE ELICOIDALI, GAMBO CILINDRICO, HSS Co8

JOBBER

KURZ

COURTE

CORTA

►Surface treatment : Coloring(Gold color)

►Application : Drilling stainless steels and difficult - to - cut materials such as titanium and inconel.

►Oberflächenbehandlung : Coloring(Goldfarbe)

►Verwendung : Zum Bohren von rostfreien und austenitischen. Stählen, schwerzerspanbaren Werkstoffen wie Titan und Inconel.

DIN 338

HSS Co8

33°

h8

135°

Gold Coloring

p.A270

EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2
D2105010	1.0	12	34
D2105011	1.1	14	36
D2105012	1.2	16	38
D2105013	1.3	16	38
D2105014	1.4	18	40
D2105015	1.5	18	40
D2105016	1.6	20	43
D2105017	1.7	20	43
D2105917	1.75	22	46
D2105018	1.8	22	46
D2105019	1.9	22	46
D2105020	2.0	24	49
D2105021	2.1	24	49
D2105022	2.2	27	53
D2105922	2.25	27	53
D2105023	2.3	27	53
D2105024	2.4	30	57
D2105025	2.5	30	57
D2105026	2.6	30	57
D2105027	2.7	33	61
D2105927	2.75	33	61
D2105028	2.8	33	61
D2105029	2.9	33	61
D2105030	3.0	33	61
D2105031	3.1	36	65
D2105032	3.2	36	65

Unit : mm

► TiN(D4105), TiCN(D7105) and TiAlN(DQ105) are available on your request.

► NEXT PAGE

◎ : Excellent ○ : Good

ISO	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			
Material Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VDI 3323																				
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		Heat Resistant Super Alloys			Titanium Alloys		Hardened steel	Chilled Cast Iron	Hardened Cast Iron					
Material Description	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
VDI 3323																					
HRc	60	100	75	90	130	110	90	100			15	30	25	38	34	400 Rm	1050 Rm	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	○	○	○						○							○					

CARBIDE

HSS

STRAIGHT SHANK DRILLS

D2105 SERIES

HSS Co8, STRAIGHT SHANK TWIST DRILLS

HSS CO8, SPIRALBOHRER mit ZYLINDERSCHAFT

Forets HSS Co8, queue cylindrique, Forme C, série courte

PUNTE ELICOIDALI, GAMBO CILINDRICO, HSS Co8

JOBBER

KURZ

COURTE

CORTA

►Surface treatment : Coloring(Gold color)

►Application : Drilling stainless steels and difficult - to - cut materials such as titanium and inconel.

►Oberflächenbehandlung : Coloring(Goldfarbe)

►Verwendung : Zum Bohren von rostfreien und austenitischen. Stählen, schwerzerspanbaren Werkstoffen wie Titan und Inconel.

DIN 338

HSS Co8

33°

h8

135°

Gold Coloring

p.A270

EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2
D2105010	1.0	12	34
D2105011	1.1	14	36
D2105012	1.2	16	38
D2105013	1.3	16	38
D2105014	1.4	18	40
D2105015	1.5	18	40
D2105016	1.6	20	43
D2105017	1.7	20	43
D2105917	1.75	22	46
D2105018	1.8	22	46
D2105019	1.9	22	46
D2105020	2.0	24	49
D2105021	2.1	24	49
D2105022	2.2	27	53
D2105922	2.25	27	53
D2105023	2.3	27	53
D2105024	2.4	30	57
D2105025	2.5	30	57
D2105026	2.6	30	57
D2105027	2.7	33	61
D2105927	2.75	33	61
D2105028	2.8	33	61
D2105029	2.9	33	61
D2105030</			



**STRAIGHT
SHANK DRILLS**

D2105 SERIES

HSS Co8, STRAIGHT SHANK TWIST DRILLS

 HSS Co8, SPIRALBOHRER mit ZYLINDERSCHAFT

 Forets HSS Co8, queue cylindrique, Forme C, série courte

 PUNTE ELICOIDALI, GAMBO CILINDRICO, HSS Co8

JOBBER
 KURZ
 COURTE
 CORTA

► Surface treatment :	Coloring (Gold color)	► Oberflächenbehandlung :	Coloring (Goldfarbe)
► Application	: Drilling stainless steels and difficult - to - cut materials such as titanium and Inconel.	► Verwendung	: Zum Bohren von rostfreien und austenitischen Stählen, schwerzerspanbaren Werkstoffen wie Titan und Inconel.

				Unit : mm			
EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
D2105099	9.9	87	133	D2105160	16.0	120	178
D2105100	10.0	87	133	D2105165	16.5	125	184
D2105102	10.2	87	133	D2105170	17.0	125	184
D2105105	10.5	87	133	D2105175	17.5	130	191
D2105110	11.0	94	142	D2105180	18.0	130	191
D2105115	11.5	94	142	D2105185	18.5	135	198
D2105120	12.0	101	151	D2105190	19.0	135	198
D2105125	12.5	101	151	D2105195	19.5	140	205
D2105130	13.0	101	151	D2105200	20.0	140	205
D2105135	13.5	108	160				
D2105140	14.0	108	160				
D2105145	14.5	114	169				
D2105150	15.0	114	169				
D2105155	15.5	120	178				

► TiN(D4105), TiCN(D7105) and TiAlN(DQ105) 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
HRC											15	30	25	38	34	36	37	55	60	42
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400
Recommended	○	○	○						○							○	○			

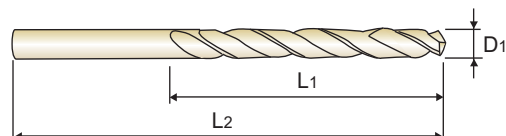
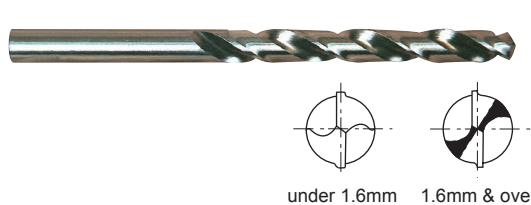


DL105 SERIES

JOBBER

KURZ
COURTE
CORTA

► **Oberflächenbehandlung** : Coloring(Goldfarbe)
 ► **Verwendung** : Zum Bohren von rostfreien und austenitischen. Stählen, schwerzerspanbaren Werkstoffen wie Titan und Inconel.











				Unit : mm			
EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D ₁	L ₁	L ₂		D ₁	L ₁	L ₂
DL105010	1.0	12	34	DL105033	3.3	36	65
DL105011	1.1	14	36	DL105034	3.4	39	70
DL105012	1.2	16	38	DL105035	3.5	39	70
DL105912	1.25	16	38	DL105036	3.6	39	70
DL105013	1.3	16	38	DL105037	3.7	39	70
DL105014	1.4	18	40	DL105937	3.75	39	70
DL105015	1.5	18	40	DL105038	3.8	43	75
DL105016	1.6	20	43	DL105039	3.9	43	75
DL105017	1.7	20	43	DL105040	4.0	43	75
DL105018	1.8	22	46	DL105041	4.1	43	75
DL105019	1.9	22	46	DL105042	4.2	43	75
DL105020	2.0	24	49	DL105942	4.25	43	75
DL105021	2.1	24	49	DL105043	4.3	47	80
DL105022	2.2	27	53	DL105044	4.4	47	80
DL105922	2.25	27	53	DL105045	4.5	47	80
DL105023	2.3	27	53	DL105046	4.6	47	80
DL105024	2.4	30	57	DL105047	4.7	47	80
DL105025	2.5	30	57	DL105947	4.75	47	80
DL105026	2.6	30	57	DL105048	4.8	52	86
DL105027	2.7	33	61	DL105049	4.9	52	86
DL105028	2.8	33	61	DL105050	5.0	52	86
DL105029	2.9	33	61	DL105051	5.1	52	86
DL105030	3.0	33	61	DL105052	5.2	52	86
DL105031	3.1	36	65	DL105952	5.25	52	86
DL105032	3.2	36	65	DL105053	5.3	52	86
DL105932	3.25	36	65	DL105054	5.4	57	93

► TiN(DN105), TiCN(DX105) and TiAlN(DT105) 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			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	○	○	○						○							○					

A240 phone:+82-32-526-0909, www.yg1.solutions, E-mail:yg1@yg1.solutions

YG YG-1 CO., LTD.

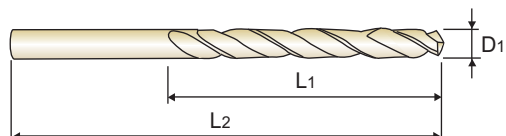
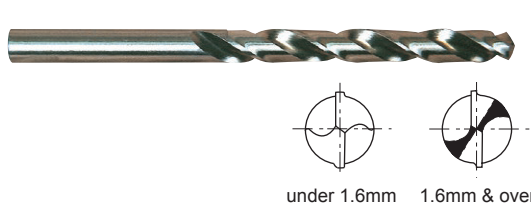


DL105 SERIES

JOBBER

**KURZ
COURTE
CORTA**

► **Oberflächenbehandlung** : Coloring (Goldfarbe)
 ► **Verwendung** : Zum Bohren von rostfreien und austenitischen Stählen, schwererspanbaren Werkstoffen wie Titan und Inconel.



DIN 338 **HSS-E** **33°** **h8** **135°** **Gold Coloring** **p.A270**

				Unit : mm			
EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
DL105055	5.5	57	93	DL105079	7.9	75	117
DL105056	5.6	57	93	DL105080	8.0	75	117
DL105057	5.7	57	93	DL105081	8.1	75	117
DL105058	5.8	57	93	DL105082	8.2	75	117
DL105059	5.9	57	93	DL105982	8.25	75	117
DL105060	6.0	57	93	DL105083	8.3	75	117
DL105061	6.1	63	101	DL105084	8.4	75	117
DL105062	6.2	63	101	DL105085	8.5	75	117
DL105962	6.25	63	101	DL105086	8.6	81	125
DL105063	6.3	63	101	DL105087	8.7	81	125
DL105064	6.4	63	101	DL105987	8.75	81	125
DL105065	6.5	63	101	DL105088	8.8	81	125
DL105066	6.6	63	101	DL105089	8.9	81	125
DL105067	6.7	63	101	DL105090	9.0	81	125
DL105068	6.8	69	109	DL105091	9.1	81	125
DL105069	6.9	69	109	DL105092	9.2	81	125
DL105070	7.0	69	109	DL105093	9.3	81	125
DL105071	7.1	69	109	DL105094	9.4	81	125
DL105072	7.2	69	109	DL105095	9.5	81	125
DL105972	7.25	69	109	DL105096	9.6	87	133
DL105073	7.3	69	109	DL105097	9.7	87	133
DL105074	7.4	69	109	DL105098	9.8	87	133
DL105075	7.5	69	109	DL105099	9.9	87	133
DL105076	7.6	75	117	DL105100	10.0	87	133
DL105077	7.7	75	117	DL105102	10.2	87	133
DL105078	7.8	75	117	DL105105	10.5	87	133

► TiN(DN105), TiCN(DX105) and TiAlN(DT105) 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	23	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			550	630	400	550
Recommended	○	○	○						○							○	Rm				

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A241

CARBIDE

HSS

STRAIGHT SHANK DRILLS

DL105 SERIES

HSS-E, STRAIGHT SHANK TWIST DRILLS

HSS-E, SPIRALBOHRER mit ZYLINDERSCHAFT

Forets HSS-E, queue cylindrique, Forme C, série courte

PUNTE ELICOIDALI, GAMBO CILINDRICO, HSS - E

JOBBER

KURZ

COURTE

CORTA

►Surface treatment : Coloring(Gold color)

►Application : Drilling stainless steels and difficult - to - cut materials such as titanium and inconel.

►Oberflächenbehandlung : Coloring(Goldfarbe)

►Verwendung : Zum Bohren von rostfreien und austenitischen. Stählen, schwerzerspanbaren Werkstoffen wie Titan und Inconel.

under 1.6mm

1.6mm & over

L1

L2

D1

DIN 338

HSS-E

33°

h8

135°

Gold Coloring

p.A270

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2
DL105110	11.0	94	142
DL105115	11.5	94	142
DL105120	12.0	101	151
DL105125	12.5	101	151
DL105130	13.0	101	151
DL105135	13.5	108	160
DL105140	14.0	108	160
DL105145	14.5	114	169
DL105150	15.0	114	169
DL105155	15.5	120	178
DL105160	16.0	120	178
DL105165	16.5	125	184
DL105170	17.0	125	184
DL105175	17.5	130	191

EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2
DL105180	18.0	130	191
DL105185	18.5	135	198
DL105190	19.0	135	198
DL105195	19.5	140	205
DL105200	20.0	140	205

►TiN(DN105), TiCN(DX105) and TiAlN(DT105) 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				
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	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			15	30	25	38	34	400 Rm	1050 Rm	55	60	42
Recommended	○	○	○						○							○				

CARBIDE

HSS

STRAIGHT SHANK DRILLS

D1105 SERIES

HSS, STRAIGHT SHANK TWIST DRILLS

HSS, SPIRALBOHRER mit ZYLINDERSCHAFT

Forets HSS, queue cylindrique, série courte

PUNTE ELICOIDALI, GAMBO CILINDRICO, HSS

JOBBER

KURZ

COURTE

CORTA

►Surface treatment : Steam Tempered(Black Oxide Finish)

►Application : Drilling steels, cast steels alloyed and non-alloyed, grey cast iron, malleable cast iron and graphite.

►Oberflächenbehandlung : Steam Homo(Schwarzoxidation)

►Verwendung : Zum Bohren von Stahl und Stahlguß, Grauguß, Temperguß, Sphäroguß, Sintereisen, Graphite.

L1

L2

D1

DIN 338

HSS

20~30°

h8

118°

Vap

p.A270

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2
D1105003	0.3	3	19
D1105004	0.4	5	20
D1105005	0.5	6	22
D1105006	0.6	7	24
D1105007	0.7	9	28
D1105008	0.8	10	30
D1105009	0.9	11	32
D1105010	1.0	12	34
D1105010	1.05	12	34
D1105011	1.1	14	36
D1105011	1.15	14	36
D1105012	1.2	16	38
D1105012	1.25	16	38
D1105013	1.3	16	38
D1105013	1.35	18	40
D1105014	1.4	18	40
D1105014	1.45	18	40
D1105015	1.5	18	40
D1105015	1.55	20	43
D1105016	1.6	20	43
D1105016	1.65	20	43
D1105017	1.7	20	43
D1105017	1.75	22	46
D1105018	1.8	22	46
D1105018	1.85	22	46
D1105019	1.9	22	46

EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2
D1105919	1.95	24	49
D1105020	2.0	24	49
D1105920	2.05	24	49
D1105021	2.1	24	49
D1105022	2.2	27	53
D1105922	2.25	27	53
D1105023	2.3	27	53
D1105923	2.35	27	53
D1105024	2.4	30	57
D1105924	2.45	30	57
D1105025	2.5	30	57
D1105925	2.55	30	57
D1105026	2.6	30	57
D1105926	2.65	30	57
D1105027	2.7	33	61
D1105927	2.75	33	61
D1105028	2.8	33	61
D1105928	2.85	33	61
D1105029	2.9	33	61
D1105929	2.95	33	61
D1105030	3.0	33	61
D1105930	3.05	36	65
D1105031	3.1	36	65
D1105931	3.15	36	65
D1105032	3.2	36	65
D1105932	3.25	36	65

►NEXT PAGE

© : Excellent ○ : Good

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	10	29	32	38	15	35	15	23	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			15	30	25	38	34	400 Rm	1050 Rm	55	60	42
Recommended	○	○	○													○				

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A242

A243



**STRAIGHT
SHANK DRILLS**

D1105 SERIES

HSS, STRAIGHT SHANK TWIST DRILLS

 HSS, SPIRALBOHRER mit ZYLINDERSCHAFT

 Forets HSS, queue cylindrique, série courte

 PUNTE ELICOIDALI, GAMBO CILINDRICO, HSS

JOBBER
 KURZ
 COURTE
 CORTA

► Surface treatment	: Steam Tempered(Black Oxide Finish) Bright Finish under 2mm	► Oberflächenbehandlung	: Steam Homo(Schwarzoxidation) Helle Beschaffenheit unter 2mm
► Application	: Drilling steels, cast steels alloyed and non-alloyed, grey cast iron, malleable cast iron and graphite.	► Verwendung	: Zum Bohren von Stahl und Stahlguß, Grauguß, Temperguß, Sphäroguß, Sinterisen, Graphite.

				Unit : mm			
EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
D1105059	5.9	57	93	D1105972	7.25	69	109
D1105959	5.95	57	93	D1105073	7.3	69	109
D1105060	6.0	57	93	D1105973	7.35	69	109
D1105960	6.05	63	101	D1105074	7.4	69	109
D1105061	6.1	63	101	D1105974	7.45	69	109
D1105961	6.15	63	101	D1105075	7.5	69	109
D1105062	6.2	63	101	D1105975	7.55	75	117
D1105962	6.25	63	101	D1105076	7.6	75	117
D1105063	6.3	63	101	D1105976	7.65	75	117
D1105963	6.35	63	101	D1105077	7.7	75	117
D1105064	6.4	63	101	D1105977	7.75	75	117
D1105964	6.45	63	101	D1105078	7.8	75	117
D1105065	6.5	63	101	D1105978	7.85	75	117
D1105965	6.55	63	101	D1105079	7.9	75	117
D1105066	6.6	63	101	D1105979	7.95	75	117
D1105966	6.65	63	101	D1105080	8.0	75	117
D1105067	6.7	63	101	D1105081	8.1	75	117
D1105967	6.75	69	109	D1105082	8.2	75	117
D1105068	6.8	69	109	D1105982	8.25	75	117
D1105968	6.85	69	109	D1105083	8.3	75	117
D1105069	6.9	69	109	D1105084	8.4	75	117
D1105969	6.95	69	109	D1105085	8.5	75	117
D1105070	7.0	69	109	D1105086	8.6	81	125
D1105071	7.1	69	109	D1105087	8.7	81	125
D1105971	7.15	69	109	D1105987	8.75	81	125
D1105072	7.2	69	109	D1105088	8.8	81	125

▶ 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	6	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	○	○	○						○							○								

 **STRAIGHT
SHANK DRILLS**

D1105 SERIES

HSS, STRAIGHT SHANK TWIST DRILLS

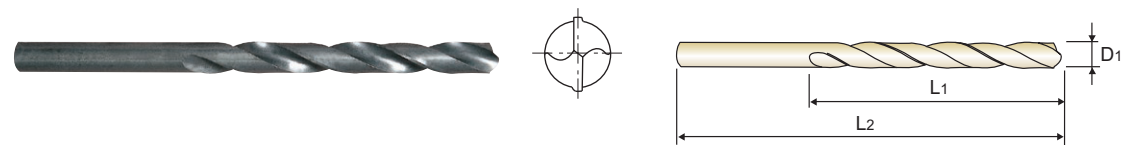
JOBBER

 **HSS, SPIRALBOHRER mit ZYLINDERSCHAFT**
 **Forets HSS, queue cylindrique, série courte**
 **PUNTE ELICOIDALI, GAMBO CILINDRICO, HSS**

**KURZ
COURTE
CORTA**

► **Surface treatment** : Steam Tempered(Black Oxide Finish)
Bright Finish under 2mm
► **Application** : Drilling steels, cast steels alloyed and non-
alloyed, grey cast iron, malleable cast iron
and graphite.

► **Oberflächenbehandlung** : Steam Homo(Schwarzoxidation)
Helle Beschaffenheit unter 2mm
► **Verwendung** : Zum Bohren von Stahl und Stahlguß,
Grauguß, Temperguß, Sphäroguß,
Sintereisen, Graphite.



				Unit : mm			
EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
D1105089	8.9	81	125	D1105111	11.1	94	142
D1105090	9.0	81	125	D1105112	11.2	94	142
D1105091	9.1	81	125	D1105812	11.25	94	142
D1105092	9.2	81	125	D1105113	11.3	94	142
D1105992	9.25	81	125	D1105114	11.4	94	142
D1105093	9.3	81	125	D1105115	11.5	94	142
D1105094	9.4	81	125	D1105116	11.6	94	142
D1105095	9.5	81	125	D1105117	11.7	94	142
D1105096	9.6	87	133	D1105817	11.75	94	142
D1105097	9.7	87	133	D1105118	11.8	94	142
D1105997	9.75	87	133	D1105119	11.9	101	151
D1105098	9.8	87	133	D1105120	12.0	101	151
D1105099	9.9	87	133	D1105121	12.1	101	151
D1105100	10.0	87	133	D1105122	12.2	101	151
D1105101	10.1	87	133	D1105822	12.25	101	151
D1105102	10.2	87	133	D1105123	12.3	101	151
D1105802	10.25	87	133	D1105124	12.4	101	151
D1105103	10.3	87	133	D1105125	12.5	101	151
D1105104	10.4	87	133	D1105126	12.6	101	151
D1105105	10.5	87	133	D1105127	12.7	101	151
D1105106	10.6	87	133	D1105827	12.75	101	151
D1105107	10.7	94	142	D1105128	12.8	101	151
D1105807	10.75	94	142	D1105129	12.9	101	151
D1105108	10.8	94	142	D1105130	13.0	101	151
D1105109	10.9	94	142	D1105832	13.25	108	160
D1105110	11.0	94	142	D1105135	13.5	108	160

► 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	○	○	○						○							○						

 **STRAIGHT
SHANK DRILLS**

D1105 SERIES

HSS, STRAIGHT SHANK TWIST DRILLS

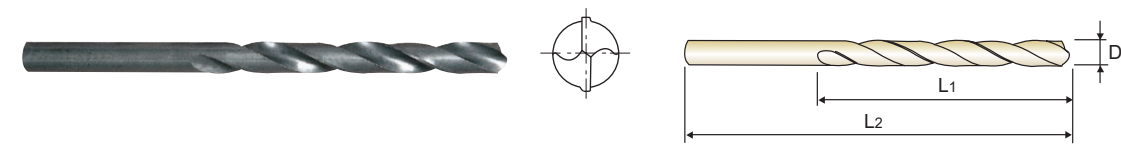
JOBBER

 **HSS, SPIRALBOHRER mit ZYLINDERSCHAFT**
 **Forets HSS, queue cylindrique, série courte**
 **PUNTE ELICOIDALI, GAMBO CILINDRICO, HSS**

**KURZ
COURTE
CORTA**

► **Surface treatment** : Steam Tempered(Black Oxide Finish)
Bright Finish under 2mm
► **Application** : Drilling steels, cast steels alloyed and non-
alloyed, grey cast iron, malleable cast iron
and graphite.

► **Oberflächenbehandlung** : Steam Homo(Schwarzoxidation)
Helle Beschaffenheit unter 2mm
► **Verwendung** : Zum Bohren von Stahl und Stahlguß,
Grauguß, Temperguß, Sphäroguß,
Sintereisen, Graphite.



EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
D1105837	13.75	108	160	D1105111	11.1	94	142
D1105140	14.0	108	160	D1105112	11.2	94	142
D1105842	14.25	114	169	D1105812	11.25	94	142
D1105145	14.5	114	169	D1105113	11.3	94	142
D1105847	14.75	114	169	D1105114	11.4	94	142
D1105150	15.0	114	169	D1105115	11.5	94	142
D1105852	15.25	120	178	D1105116	11.6	94	142
D1105155	15.5	120	178	D1105117	11.7	94	142
D1105857	15.75	120	178	D1105817	11.75	94	142
D1105160	16.0	120	178	D1105118	11.8	94	142
D1105862	16.25	125	184	D1105119	11.9	101	151
D1105165	16.5	125	184	D1105120	12.0	101	151
D1105867	16.75	125	184	D1105121	12.1	101	151
D1105170	17.0	125	184	D1105122	12.2	101	151
D1105872	17.25	130	191	D1105822	12.25	101	151
D1105175	17.5	130	191	D1105123	12.3	101	151
D1105877	17.75	130	191	D1105124	12.4	101	151
D1105180	18.0	130	191	D1105125	12.5	101	151
D1105882	18.25	135	198	D1105126	12.6	101	151
D1105185	18.5	135	198	D1105127	12.7	101	151
D1105887	18.75	135	198	D1105827	12.75	101	151
D1105190	19.0	135	198	D1105128	12.8	101	151
D1105195	19.5	140	205	D1105129	12.9	101	151
D1105897	19.75	140	205	D1105130	13.0	101	151
D1105200	20.0	140	205	D1105832	13.25	108	160
				D1105135	13.5	108	160

◎ : 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	23	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	60	100	75	90	130	110	90	100			15	30	25	38	34	400 Rm	1050 Rm	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	○	○	○						○							○						

CARBIDE

HSS

STRAIGHT SHANK DRILLS

D1125 SERIES

HSS, STRAIGHT SHANK TWIST DRILLS

HSS, SPIRALBOHRER mit ZYLINDERSCHAFT

Forets HSS, queue cylindrique, série courte

PUNTE ELICOIDALI, GAMBO CILINDRICO, HSS

►Surface treatment

: Bright Finish

►Application

: Drilling steels, cast steels alloyed and non-alloyed, grey cast iron, malleable cast iron and graphite.

►Oberflächenbehandlung

: Helle Beschaffenheit

►Verwendung

: Zum Bohren von Stahl und Stahlguß, Grauguß, Temperguß, Sphäroguß, Sintereisen, Graphite.

DIN 338

HSS

N

20~30°

h8

118°

Bright

p.A270

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2
D1125020	2.0	24	49
D1125021	2.1	24	49
D1125022	2.2	27	53
D1125023	2.3	27	53
D1125024	2.4	30	57
D1125025	2.5	30	57
D1125028	2.8	33	61
D1125030	3.0	33	61
D1125032	3.2	36	65
D1125034	3.4	39	70
D1125035	3.5	39	70
D1125037	3.7	39	70
D1125038	3.8	43	75
D1125040	4.0	43	75
D1125041	4.1	43	75
D1125042	4.2	43	75
D1125043	4.3	47	80
D1125044	4.4	47	80
D1125045	4.5	47	80
D1125046	4.6	47	80
D1125047	4.7	47	80
D1125048	4.8	52	86
D1125049	4.9	52	86
D1125050	5.0	52	86
D1125052	5.3	52	86
D1125054	5.4	57	93

EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2
D1125055	5.5	57	93
D1125056	5.6	57	93
D1125057	5.7	57	93
D1125058	5.8	57	93
D1125059	5.9	57	93
D1125060	6.0	57	93
D1125061	6.1	63	101
D1125062	6.2	63	101
D1125063	6.3	63	101
D1125064	6.4	63	101
D1125065	6.5	63	101
D1125066	6.6	63	101
D1125067	6.7	63	101
D1125068	6.8	69	109
D1125070	7.0	69	109
D1125072	7.2	69	109
D1125075	7.5	69	109
D1125080	8.0	75	117
D1125082	8.2	75	117
D1125083	8.3	75	117
D1125085	8.5	75	117
D1125087	8.7	81	125
D1125090	9.0	81	125
D1125092	9.2	81	125
D1125095	9.5	81	125
D1125100	10.0	87	133

►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				
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			15	30	25	38	34	400 Rm	1050 Rm	55	60	42
Recommended	○	○	○						○							○				

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HSS

STRAIGHT SHANK DRILLS

D1125 SERIES

HSS, STRAIGHT SHANK TWIST DRILLS

HSS, SPIRALBOHRER mit ZYLINDERSCHAFT

Forets HSS, queue cylindrique, série courte

PUNTE ELICOIDALI, GAMBO CILINDRICO, HSS

►Surface treatment

: Bright Finish

►Application

: Drilling steels, cast steels alloyed and non-alloyed, grey cast iron, malleable cast iron and graphite.

►Oberflächenbehandlung

: Helle Beschaffenheit

►Verwendung

: Zum Bohren von Stahl und Stahlguß, Grauguß, Temperguß, Sphäroguß, Sintereisen, Graphite.

DIN 338

HSS

N

20~30°

h8

118°

Bright

p.A270

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2
D1125102	10.2	87	133
D1125103	10.3	87	133
D1125104	10.4	87	133
D1125105	10.5	87	133
D1125108	10.8	94	142
D1125110	11.0	94	142
D1125111	11.1	94	142
D1125114	11.4	94	142
D1125115	11.5	94	142
D1125116	11.6	94	142
D1125117	11.7	94	142
D1125120	12.0	101	151
D1125121	12.1	101	151
D1125125	12.5	101	151
D1125128	12.8	101	151
D1125130	13.0	101	151
D1125132	13.2	101	151
D1125133	13.3	108	160
D1125135	13.5	108	160
D1125140	14.0	108	160
D1125145	14.5	114	169
D1125170	17.0	125	184
D1125180	18.0	130	191
D1125185	18.5	135	198
D1125190	19.0	135	198
D1125200	20.0	140	205

◎ : 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				
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			15	30	25	38	34	400 Rm	1050 Rm	55	60	42
Recommended	○	○	○						○							○				

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STRAIGHT SHANK DRILLS

D1100 SERIES

HSS, STRAIGHT SHANK TWIST DRILLS for BRASS/BRONZE

HSS, SPIRALBOHRER für MESSING/BRONZE mit ZYLINDERSCHAFT

Forets HSS, queue cylindrique pour Laiton/Bronze, série courte

PUNTE ELICOIDALI, GAMBO CILINDRICO PER OTTONE (HSS)

JOBBER

KURZ

COURTE

CORTA

►Application : Drilling hard, brittle and short-chip materials. i.e., brass, bronze, phosphor bronze and magnesium alloys.

►Verwendung : Zum Bohren von harten und spröden Werkstoffen wie Messing, Magnesium-Legierungen, Bronze, Phosphorbronze.

DIN 338

HSS

N

15 ~ 20°

h8

118°

Bright

p.A271

Unit : mm

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2
D1100015	1.5	18	40
D1100017	1.7	20	43
D1100020	2.0	24	49
D1100025	2.5	30	57
D1100026	2.6	30	57
D1100030	3.0	33	61
D1100032	3.2	36	65
D1100033	3.3	36	65
D1100035	3.5	39	70
D1100037	3.7	39	70
D1100038	3.8	43	75
D1100040	4.0	43	75
D1100041	4.1	43	75
D1100045	4.5	47	80
D1100049	4.9	52	86
D1100050	5.0	52	86
D1100051	5.1	52	86
D1100055	5.5	57	93
D1100058	5.8	57	93
D1100059	5.9	57	93
D1100060	6.0	57	93
D1100062	6.2	63	101
D1100063	6.3	63	101
D1100064	6.4	63	101
D1100066	6.6	63	101
D1100067	6.7	63	101
D1100068	6.8	69	109
D1100070	7.0	69	109

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2
D1100072	7.2	69	109
D1100073	7.3	69	109
D1100075	7.5	69	109
D1100076	7.6	75	117
D1100077	7.7	75	117
D1100078	7.8	75	117
D1100079	7.9	75	117
D1100080	8.0	75	117
D1100083	8.3	75	117
D1100084	8.4	75	117
D1100085	8.5	75	117
D1100087	8.7	81	125
D1100088	8.8	81	125
D1100089	8.9	81	125
D1100090	9.0	81	125
D1100091	9.1	81	125
D1100092	9.2	81	125
D1100093	9.3	81	125
D1100094	9.4	81	125
D1100095	9.5	81	125
D1100096	9.6	87	133
D1100097	9.7	87	133
D1100098	9.8	87	133
D1100099	9.9	87	133
D1100100	10.0	87	133
D1100120	12.0	101	151

© : Excellent ○ : Good

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	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			15	30	25	38	34	400 Rm	1050 Rm	55	60	40
Recommended																				

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HSS

STRAIGHT SHANK DRILLS

D1106 SERIES

HSS, STRAIGHT SHANK TWIST DRILLS for ALUMINUM

HSS, SPIRALBOHRER für ALUMINIUM mit ZYLINDERSCHAFT

Forets HSS, queue cylindrique pour ALU, Forme C, série courte

PUNTE ELICOIDALI, GAMBO CILINDRICO, PER ALLUMINIO (HSS)

JOBBER

KURZ

COURTE

CORTA

►Application : Drilling hard, brittle and short-chip materials. i.e., brass, bronze, phosphor bronze aluminum and magnesium alloys.

►Verwendung : Zum Bohren von harten und spröden Werkstoffen wie Messing, Magnesium-Legierungen, Bronze, Phosphorbronze.

DIN 338

HSS

38°

h8

135°

Bright

p.A271

Unit : mm

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2
D1106015	1.5	18	40
D1106016	1.6	20	43
D1106017	1.7	20	43
D1106018	1.8	22	46
D1106019	1.9	22	46
D1106020	2.0	24	49
D1106021	2.1	24	49
D1106022	2.2	27	53
D1106023	2.3	27	53
D1106024	2.4	30	57
D1106025	2.5	30	57
D1106026	2.6	30	57
D1106027	2.7	33	61
D1106028	2.8	33	61
D1106029	2.9	33	61
D1106030	3.0	33	61
D1106031	3.1	36	65
D1106032	3.2	36	65
D1106033	3.3	36	65
D1106034	3.4	39	70
D1106035	3.5	39	70
D1106036	3.6	39	70
D1106037	3.7	39	70
D1106038	3.8	43	75
D1106039	3.9	43	75
D1106040	4.0	43	75

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2
D1106041	4.1	43	75
D1106042	4.2	43	75
D1106043	4.3	47	80
D1106045	4.5	47	80
D1106046	4.6	47	80
D1106047	4.7	47	80
D1106048	4.8	52	86
D1106049	4.9	52	86
D1106050	5.0	52	86
D1106051	5.1	52	86
D1106052	5.2	52	86
D1106053	5.3	52	86
D1106054	5.4	57	93
D1106055	5.5	57	93
D1106057	5.7	57	93
D1106058	5.8	57	93
D1106060	6.0	57	93
D1106061	6.1	63	101
D1106062	6.2	63	101
D1106063	6.3	63	101
D1106064	6.4	63	101
D1106065	6.5	63	101
D1106066	6.6	63	101
D1106067	6.7	63	101
D1106068	6.8	69	109
D1106069	6.9	69	109

© : Excellent ○ : Good

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	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			15	30	25	38	34	400 Rm	1050 Rm	55	60	40
Recommended																				

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HSS

STRAIGHT SHANK DRILLS

D1106 SERIES

HSS, STRAIGHT SHANK TWIST DRILLS for ALUMINUM

HSS, SPIRALBOHRER für ALUMINIUM mit ZYLINDERSCHAFT

Forets HSS, queue cylindrique pour ALU, Forme C, série courte

PUNTE ELICOIDALI, GAMBO CILINDRICO, PER ALLUMINIO (HSS)

JOBBER

KURZ

COURTE

CORTA

►Application : Drilling hard, brittle and short-chip materials. i.e., brass, bronze, phosphor bronze aluminum and magnesium alloys.

►Verwendung : Zum Bohren von harten und spröden Werkstoffen wie Messing, Magnesium-Legierungen, Bronze, Phosphorbronze.

DIN 338

HSS

38°

h8

135°

Bright

p.A271

Unit : mm

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2
D1106015	1.5	18	40
D1106016	1.6	20	43
D1106017	1.7	20	43
D1106018	1.8	22	46
D1106019	1.9	22	46
D1106020	2.0	24	49
D1106021	2.1	24	49
D1106022	2.2	27	53
D1106023	2.3	27	53
D1106024	2.4	30	57
D1106025	2.5	30	57
D1106026	2.6	30	57
D1106027	2.7	33	61
D1106028	2.8	33	61
D1106029	2.9	33	61
D1106030	3.0	33	61
D1106031	3.1	36	65
D1106032	3.2	36	65
D1106033	3.3	36	65
D1106034	3.4	39	70
D1106035	3.5	39	70
D1106036	3.6	39	70
D1106037	3.7	39	70
D1106038	3.8	43	75
D1106039	3.9	43	75
D1106040	4.0	43	75

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2
D1106041	4.1	43	75
D1106042	4.2	43	75
D1106043	4.3	47	80
D1106045	4.5	47	80
D1106046	4.6	47	80
D1106047	4.7	47	80
D1106048	4.8	52	86
D1106049	4.9	52	86
D1106050	5.0	52	86
D1106051	5.1	52	86
D1106052	5.2	52	86
D1106053	5.3	52	86
D1106054	5.4	57	93
D1106055	5.5	57	93
D1106057	5.7	57	93
D1106058	5.8	57	93
D1106060	6.0	57	93
D1106061	6.1	63	101
D1106062	6.2	63	101
D1106063	6.3	63	101
D1106064	6.4	63	101
D1106065	6.5	63	101
D1106066	6.6	63	101
D1106067	6.7	63	101
D1106068	6.8	69	109
D1106069	6.9	69	109

© : Excellent ○ : Good

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											

 **STRAIGHT
SHANK DRILLS**

D1106 SERIES

HSS, STRAIGHT SHANK TWIST DRILLS for ALUMINUM

 **HSS, SPIRALBOHRER für ALUMINIUM mit ZYLINDERSCHAFT**

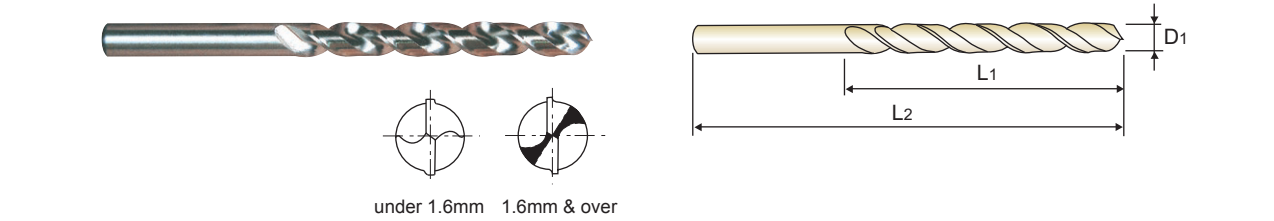
 **Forets HSS, queue cylindrique pour ALU, Forme C, série courte**

 **PUNTE ELICOIDALI, GAMBO CILINDRICO, PER ALLUMINIO (HSS)**

JOBBER
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► **Application** : Drilling hard, brittle and short-chip materials. i.e., brass, bronze, phosphor bronze aluminum and magnesium alloys.

► **Verwendung** : Zum Bohren von harten und spröden Werkstoffen wie Messing, Magnesium-Legierungen, Bronze, Phosphorbronze.



Unit : mm				Unit : mm			
EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
D1106070	7.0	69	109	D1106090	9.0	81	125
D1106071	7.1	69	109	D1106091	9.1	81	125
D1106072	7.2	69	109	D1106092	9.2	81	125
D1106073	7.3	69	109	D1106093	9.3	81	125
D1106074	7.4	69	109	D1106094	9.4	81	125
D1106075	7.5	69	109	D1106095	9.5	81	125
D1106076	7.6	75	117	D1106096	9.6	87	133
D1106077	7.7	75	117	D1106097	9.7	87	133
D1106079	7.9	75	117	D1106098	9.8	87	133
D1106080	8.0	75	117	D1106099	9.9	87	133
D1106081	8.1	75	117	D1106100	10.0	87	133
D1106082	8.2	75	117	D1106105	10.5	87	133
D1106083	8.3	75	117	D1106110	11.0	94	142
D1106084	8.4	75	117	D1106120	12.0	101	151
D1106085	8.5	75	117	D1106125	12.5	101	151
D1106087	8.7	81	125	D1106130	13.0	101	151
D1106088	8.8	81	125				
D1106089	8.9	81	125				

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		⊙	⊙	⊙	⊙																

 **STRAIGHT
SHANK DRILLS**

DL510 SERIES

HSS-E, STRAIGHT SHANK TWIST DRILLS for DEEP HOLES

 **HSS-E, SPIRALBOHRER für TIEFLOCH mit ZYLINDERSCHAFT**

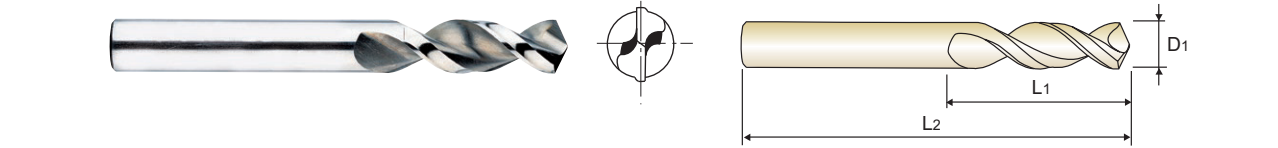
 **Forets HSS-E, queue cylindrique pour perçage profond, série extra-courte**

 **PUNTA IN HSS-E, GAMBO CILINDRICO PER FORI NON - STOP**

STUB
EXTRA KURZ
EXTRA-COURTE
EXTRA CORTA

► **Application** : Drilling deep holes in non alloy steels, alloy steels, grey cast iron, malleable cast iron, special aluminum or magnesium alloys.

► **Verwendung** : Zum Bohren von legiertem und unlegiertem stahl, Grauguß, Temperguß, Sphäroguß, Druckguß, Alu-Legierungen kurzspanend, Bronze, Messing zäh, Neusilber.



► **DH100**
worm pattern drills

Unit : mm				Unit : mm			
EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
DL510020	2.0	12	38	DL510053	5.3	26	66
DL510021	2.1	12	38	DL510055	5.5	28	66
DL510023	2.3	13	40	DL510056	5.6	28	66
DL510024	2.4	14	43	DL510057	5.7	28	66
DL510025	2.5	14	43	DL510059	5.9	28	66
DL510026	2.6	14	43	DL510060	6.0	28	66
DL510028	2.8	16	46	DL510061	6.1	31	70
DL510029	2.9	16	46	DL510062	6.2	31	70
DL510030	3.0	16	46	DL510063	6.3	31	70
DL510031	3.1	18	49	DL510065	6.5	31	70
DL510032	3.2	18	49	DL510066	6.6	31	70
DL510033	3.3	18	49	DL510067	6.7	31	70
DL510034	3.4	20	52	DL510068	6.8	34	74
DL510035	3.5	20	52	DL510070	7.0	34	74
DL510036	3.6	20	52	DL510071	7.1	34	74
DL510038	3.8	22	55	DL510072	7.2	34	74
DL510040	4.0	22	55	DL510073	7.3	34	74
DL510041	4.1	22	55	DL510074	7.4	34	74
DL510042	4.2	22	55	DL510075	7.5	34	74
DL510043	4.3	24	58	DL510076	7.6	37	79
DL510044	4.4	24	58	DL510077	7.7	37	79
DL510045	4.5	24	58	DL510079	7.9	37	79
DL510046	4.6	24	58	DL510080	8.0	37	79
DL510050	5.0	26	62	DL510081	8.1	37	79
DL510051	5.1	26	62	DL510083	8.3	37	79
DL510052	5.2	26	62	DL510084	8.4	37	79

► 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		⊙	⊙	⊙	⊙																

CARBIDE

HSS

STRAIGHT SHANK DRILLS

DL510SERIES

HSS-E, STRAIGHT SHANK TWIST DRILLS for DEEP HOLES

HSS-E, SPIRALBOHRER für TIEFLOCH mit ZYLINDERSCHAFT

Forets HSS-E, queue cylindrique pour perçage profond, série extra-courte

PUNTA IN HSS-E, GAMBO CILINDRICO PER FORI NON - STOP

STUB

EXTRA KURZ

EXTRA-COURTE

EXTRA CORTA

►Application : Drilling deep holes in non alloy steels, alloy steels, grey cast iron, malleable cast iron, special aluminum or magnesium alloys.

►Verwendung : Zum Bohren von legiertem und unlegiertem stahl, Grauguß, Temperguß, Sphäroguß, Druckguß, Alu-Legierungen kurzspanend, Bronze, Messing zäh, Neusilber.

DIN 1897

HSS-E

42°

h8

130°

Bright

p.A272

►DH100 worm pattern drills

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2
DL510085	8.5	37	79
DL510086	8.6	40	84
DL510087	8.7	40	84
DL510089	8.9	40	84
DL510090	9.0	40	84
DL510092	9.2	40	84
DL510094	9.4	40	84
DL510095	9.5	40	84
DL510097	9.7	43	89
DL510100	10.0	43	89
DL510102	10.2	43	89
DL510105	10.5	43	89
DL510108	10.8	47	95
DL510112	11.2	47	95
DL510118	11.8	47	95
DL510120	12.0	51	102
DL510130	13.0	51	102
DL510135	13.5	54	107
DL510140	14.0	54	107
DL510145	14.5	56	111

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2
DL510150	15.0	56	111
DL510155	15.5	58	115
DL510160	16.0	58	115
DL510165	16.5	60	119
DL510170	17.0	60	119
DL510175	17.5	62	123
DL510180	18.0	62	123
DL510185	18.5	64	127
DL510190	19.0	64	127
DL510200	20.0	66	131

Unit : mm

CARBIDE

HSS

STRAIGHT SHANK DRILLS

DL508SERIES

HSS-E, STRAIGHT SHANK TWIST DRILLS for DEEP HOLES

HSS-E, SPIRALBOHRER für TIEFLOCH mit ZYLINDERSCHAFT

Forets HSS-E, queue cylindrique pour perçage profond, série courte

PUNTA IN HSS-E, GAMBO CILINDRICO PER FORI NON - STOP

JOBBER

KURZ

COURTE

CORTA

►Application : Drilling deep holes in non alloy steels, alloy steels, grey cast iron, malleable cast iron, special aluminum or magnesium alloys.

►Verwendung : Zum Bohren von legiertem und unlegiertem stahl, Grauguß, Temperguß, Sphäroguß, Druckguß, Alu-Legierungen kurzspanend, Bronze, Messing zäh, Neusilber.

DIN 338

HSS-E

42°

h8

130°

Bright

p.A272

►DH100 worm pattern drills

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2
DL508020	2.0	24	49
DL508021	2.1	24	49
DL508023	2.3	27	53
DL508025	2.5	30	57
DL508026	2.6	30	57
DL508028	2.8	33	61
DL508030	3.0	33	61
DL508031	3.1	36	65
DL508032	3.2	36	65
DL508033	3.3	36	65
DL508037	3.7	39	70
DL508038	3.8	43	75
DL508040	4.0	43	75
DL508041	4.1	43	75
DL508042	4.2	43	75
DL508043	4.3	47	80
DL508044	4.4	47	80
DL508045	4.5	47	80
DL508046	4.6	47	80
DL508047	4.7	47	80
DL508048	4.8	52	86
DL508050	5.0	52	86
DL508052	5.2	52	86
DL508054	5.4	57	93
DL508055	5.5	57	93
DL508056	5.6	57	93

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2
DL508057	5.7	57	93
DL508058	5.8	57	93
DL508059	5.9	57	93
DL508060	6.0	57	93
DL508061	6.1	63	101
DL508062	6.2	63	101
DL508063	6.3	63	101
DL508065	6.5	63	101
DL508066	6.6	63	101
DL508068	6.8	69	109
DL508070	7.0	69	109
DL508072	7.2	69	109
DL508073	7.3	69	109
DL508074	7.4	69	109
DL508075	7.5	69	109
DL508076	7.6	75	117
DL508077	7.7	75	117
DL508078	7.8	75	117
DL508079	7.9	75	117
DL508080	8.0	75	117
DL508081	8.1	75	117
DL508082	8.2	75	117
DL508083	8.3	75	117
DL508084	8.4	75	117
DL508085	8.5	75	117
DL508087	8.7	81	125

Unit : mm

© : 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	40	41					
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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CARBIDE

HSS

STRAIGHT SHANK DRILLS

DL508SERIES

HSS-E, STRAIGHT SHANK TWIST DRILLS for DEEP HOLES

HSS-E, SPIRALBOHRER für TIEFLOCH mit ZYLINDERSCHAFT

Forets HSS-E, queue cylindrique pour perçage profond, série courte

PUNTA IN HSS-E, GAMBO CILINDRICO PER FORI NON - STOP

JOBBER

KURZ

COURTE

CORTA

►Application : Drilling deep holes in non alloy steels, alloy steels, grey cast iron, malleable cast iron, special aluminum or magnesium alloys.

►Verwendung : Zum Bohren von legiertem und unlegiertem stahl, Grauguß, Temperguß, Sphäroguß, Druckguß, Alu-Legierungen kurzspanend, Bronze, Messing zäh, Neusilber.

DIN 338

HSS-E

42°

h8

130°

Bright

p.A272

►DH100 worm pattern drills

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2
DL508020	2.0	24	49
DL508021	2.1	24	49
DL508023	2.3	27	53
DL508025	2.5	30	57
DL508026	2.6	30	57
DL508028	2.8	33	61
DL508030	3.0	33	61
DL508031	3.1	36	65
DL508032	3.2	36	65
DL508033	3.3	36	65
DL508037	3.7	39	70
DL508038	3.8	43	75
DL508040	4.0	43	75
DL508041	4.1	43	75
DL508042	4.2	43	75
DL508043	4.3	47	80
DL508044	4.4	47	80
DL508045	4.5	47	80
DL508046	4.6	47	80
DL508047	4.7	47	80
DL508048	4.8	52	86
DL508050	5.0	52	86
DL508052	5.2	52	86
DL508054	5.4	57	93
DL508055	5.5	57	93
DL508056	5.6	57	93

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2
DL508057	5.7	57	93
DL508058	5.8	57	93
DL508059	5.9	57	93
DL508060	6.0	57	93
DL508061	6.1	63	101
DL508062	6.2	63	101
DL508063	6.3	63	101
DL508065	6.5	63	101
DL508066	6.6	63	101
DL508068	6.8	69	109
DL508070	7.0	69	109
DL508072	7.2	69	109
DL508073	7.3	69	109
DL508074	7.4	69	109
DL508075	7.5	69	109
DL508076	7.6	75	117
DL508077	7.7	75	117
DL508078	7.8	75	117
DL508079	7.9	75	117
DL508080	8.0	75	117
DL508081	8.1	75	117
DL508082	8.2	75	117
DL508083	8.3	75	117
DL508084	8.4	75	117
DL508085	8.5	75	117
DL508087	8.7	81	125

Unit : mm

© : 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	40	41					
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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CARBIDE

HSS

STRAIGHT SHANK DRILLS

DL508SERIES

HSS-E, STRAIGHT SHANK TWIST DRILLS for DEEP HOLES

HSS-E, SPIRALBOHRER für TIEFLOCH mit ZYLINDERSCHAFT

Forets HSS-E, queue cylindrique pour perçage profond, série courte

PUNTA IN HSS-E, GAMBO CILINDRICO PER FORI NON - STOP

JOBBER

KURZ

COURTE

CORTA

►Application : Drilling deep holes in non alloy steels, alloy steels, grey cast iron, malleable cast iron, special aluminum or magnesium alloys.

►Verwendung : Zum Bohren von legiertem und unlegiertem stahl, Grauguß, Temperguß, Sphäroguß, Druckguß, Alu-Legierungen kurzspanend, Bronze, Messing zäh, Neusilber.

DIN 338

HSS-E

42°

h8

130°

Bright

p.A272

►DH100 worm pattern drills

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2
DL508020	2.0	24	49
DL508021	2.1	24	49
DL508023	2.3	27	53



DL505 SERIES

JOBBER

KURZ
COURTE
CORTA

- **Oberflächenbehandlung** : Steam Homo (Schwarzoxidation)
- **Verwendung** : Zum Bohren von legiertem und unlegiertem stahl, Grauguß, Temperguß, Sphäroguß, Druckguß, Alu-Legierungen kurzspanend, Bronze, Messing zäh, Neusilber.











► **DH100**
worm pattern drills

EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2
DL505087	8.7	81	125
DL505088	8.8	81	125
DL505089	8.9	81	125
DL505091	9.1	81	125
DL505092	9.2	81	125
DL505093	9.3	81	125
DL505094	9.4	81	125
DL505096	9.6	87	133
DL505097	9.7	87	133
DL505098	9.8	87	133
DL505099	9.9	87	133
DL505102	10.2	87	133
DL505105	10.5	87	133
DL505110	11.0	94	142
DL505115	11.5	94	142
DL505125	12.5	101	151
DL505128	12.8	101	151

► TiN(DN505), TiCN(DX505) and TiAlN(DT505) are available on your request.

◎ : Excellent ○ : Good

[illegible]

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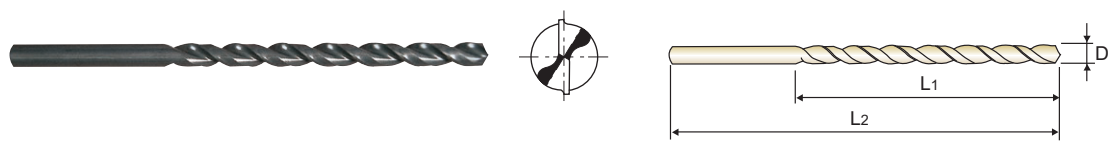


DL504 SERIES

LONG

LANG
LONGUE
LUNGA

- **Oberflächenbehandlung** : Steam Homo (Schwarzoxidation)
- **Verwendung** : Zum Bohren von legiertem und unlegiertem stahl, Grauguß, Temperguß, Sphäroguß, Druckguß, Alu-Legierungen kurzspanend, Bronze, Messing zäh, Neusilber.



DIN 340 HSS-E 38° h8 130° Vap p.A272

► **DH100**
worm pattern drills

EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2
DL504020	2.0	56	85
DL504021	2.1	56	85
DL504022	2.2	59	90
DL504023	2.3	59	90
DL504025	2.5	62	95
DL504027	2.7	66	100
DL504028	2.8	66	100
DL504029	2.9	66	100
DL504030	3.0	66	100
DL504031	3.1	69	106
DL504032	3.2	69	106
DL504033	3.3	69	106
DL504034	3.4	73	112
DL504035	3.5	73	112
DL504036	3.6	73	112
DL504037	3.7	73	112
DL504038	3.8	78	119
DL504039	3.9	78	119
DL504040	4.0	78	119
DL504042	4.2	78	119
DL504045	4.5	82	126
DL504048	4.8	87	132
DL504050	5.0	87	132
DL504052	5.2	87	132

► TiN(DN504), TiCN(DX504) and TiAlN(DT504) are available on your request.

◎ : Excellent ○ : Good

[illegible]

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A265

YG **STRAIGHT SHANK DRILLS**

DT600 SERIES **DT692** SERIES **DT693** SERIES

HSS-E, STRAIGHT SHANK TWIST DRILLS for DEEP HOLES *EXTRA LONG*
HSS-E, SPIRALBOHRER für TIEFLOCH mit ZYLINDERSCHAFT *ÜBERLANG*
Forets HSS-E, queue cylindrique pour perçage profond, Forme C, série extra-longue *EXTRA-LONGUE*
PUNTA IN HSS-E, GAMBO CILINDRICO PER FORI NON - STOP *EXTRA LUNGA*

► **Surface treatment** : TiAIN coating on working area.
► **Application** : Drilling deep holes in non alloy steels, alloy steels, grey cast iron, malleable cast iron, special aluminum or magnesium alloys.
► **Verwendung** : Zum Bohren von legiertem und unlegiertem stahl, Grauguß, Temperguß, Sphäroguß, Druckguß, Alu-Legierungen kurzspanend, Bronze, Messing zäh, Neusilber.



DIN 1869/1 DIN 1869/2 DIN 1869/3 HSS-E 38° h8 130° TiAIN p.A273 **► DH100 worm pattern drills**

DT600 SERIES (DIN 1869/1)				DT692 SERIES (DIN 1869/2)			
EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
DT600020	2.0	85	125	DT692030	3.0	130	190
DT600025	2.5	95	140	DT692035	3.5	145	210
DT600030	3.0	100	150	DT692040	4.0	150	220
DT600035	3.5	115	165	DT692055	5.5	180	260
DT600040	4.0	120	175	DT692060	6.0	180	260
DT600045	4.5	125	185	DT692065	6.5	190	275
DT600050	5.0	135	195	DT692070	7.0	200	290
DT600055	5.5	140	205	DT692075	7.5	200	290
DT600060	6.0	140	205	DT692080	8.0	210	305
DT600065	6.5	150	215	DT692085	8.5	210	305
DT600075	7.5	155	225	DT692090	9.0	220	320
DT600080	8.0	165	240	DT692095	9.5	220	320
DT600085	8.5	165	240	DT692100	10.0	235	340
DT600090	9.0	175	250	DT692102	10.2	235	340
DT600100	10.0	185	265				
DT600105	10.5	185	265				

► TiN(DN600) and TiCN(DX600) are available on your request.

DT693 SERIES (DIN 1869/3)			
EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2
DT693040	4.0	190	280
DT693050	5.0	210	315
DT693060	6.0	225	330
DT693080	8.0	265	390
DT693100	10.0	295	430

◎ : 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																					

YG **STRAIGHT SHANK DRILLS**

DL608 SERIES

HSS-E, MORSE TAPER SHANK TWIST DRILLS for DEEP HOLES *LONG*
HSS-E, SPIRALBOHRER für TIEFLOCH mit MORSEKEGELSCHAFT *LANG*
Forets HSS-E, queue cône morse pour perçage profond, série longue *LONGUE*
PUNTE IN HSS - E, ATTACCO CONO MORSE PER FORI NON - STOP *LUNGA*

► **Application** : Drilling deep holes in non alloy steels, alloy steels, grey cast iron, malleable cast iron, special aluminum or magnesium alloys.
► **Verwendung** : Zum Bohren von legiertem und unlegiertem stahl, Grauguß, Temperguß, Sphäroguß, Druckguß, Alu-Legierungen kurzspanend, Bronze, Messing zäh, Neusilber.



DIN 341 HSS-E 38° 1~3 h8 130° Bright p.A272 **► DH100 worm pattern drills**

					Unit : mm				
EDP No.	Drill Diameter	Flute Length	Overall Length	No.of Morse Taper	EDP No.	Drill Diameter	Flute Length	Overall Length	No.of Morse Taper
	D1	L1	L2			D1	L1	L2	
DL608130	13.0	134	215	1	DL608195	19.5	177	275	2
DL608135	13.5	142	223	1	DL608200	20.0	177	275	2
DL608140	14.0	142	223	1	DL608210	21.0	184	282	2
DL608145	14.5	147	245	2	DL608220	22.0	191	289	2
DL608150	15.0	147	245	2	DL608230	23.0	198	296	2
DL608155	15.5	153	251	2	DL608240	24.0	206	327	3
DL608160	16.0	153	251	2	DL608250	25.0	206	327	3
DL608170	17.0	159	257	2	DL608260	26.0	214	335	3
DL608175	17.5	165	263	2	DL608280	28.0	222	343	3
DL608180	18.0	165	263	2	DL608300	30.0	230	351	3
DL608185	18.5	171	269	2					
DL608190	19.0	171	269	2					

◎ : 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																					



STRAIGHT SHANK DRILLS

RECOMMENDED CUTTING CONDITIONS EMPFOHLENE SCHNEIDPARAMETER

**D2107, D1107, D2105, DL105, D1105,
D1125, D2104, D1121, DL109** SERIES

HSS, HSS-E & HSS Co8 COBALT DRILLS

Vc = m/min.
RPM = rev./min.
FEED = mm/rev.

ISO	VDI 3323	Material Description	Vc	Parameter	Drill Diameter (mm)										
					2.0	3.0	4.0	6.0	8.0	10.0	13.0	16.0	18.0	20.0	30.0
P	1	Non-alloy steel	30	RPM	4770	3180	2390	1590	1190	950	730	600	530	480	320
				FEED	0.02-0.04	0.03-0.05	0.04-0.06	0.05-0.08	0.10-0.13	0.11-0.15	0.11-0.17	0.12-0.18	0.14-0.20	0.19-0.25	0.22-0.28
	2		25	RPM	3980	2650	1990	1330	990	800	610	500	440	400	270
				FEED	0.02-0.04	0.03-0.05	0.04-0.06	0.05-0.08	0.10-0.13	0.11-0.15	0.11-0.17	0.12-0.18	0.14-0.20	0.19-0.25	0.22-0.28
	3		20	RPM	3180	2120	1590	1060	800	640	490	400	350	320	210
				FEED	0.02-0.04	0.03-0.05	0.04-0.06	0.05-0.08	0.10-0.13	0.11-0.15	0.11-0.17	0.12-0.18	0.14-0.20	0.19-0.25	0.22-0.28
	4		20	RPM	3180	2120	1590	1060	800	640	490	400	350	320	210
				FEED	0.01-0.02	0.01-0.03	0.02-0.04	0.02-0.05	0.03-0.06	0.03-0.06	0.04-0.10	0.06-0.12	0.08-0.14	0.10-0.16	0.12-0.18
	6	Low alloy steel	25	RPM	3980	2650	1990	1330	990	800	610	500	440	400	270
				FEED	0.02-0.04	0.03-0.05	0.04-0.06	0.05-0.08	0.10-0.13	0.11-0.15	0.11-0.17	0.12-0.18	0.14-0.20	0.19-0.25	0.22-0.28
7	20		RPM	3180	2120	1590	1060	800	640	490	400	350	320	210	
			FEED	0.02-0.04	0.03-0.05	0.04-0.06	0.05-0.08	0.10-0.13	0.11-0.15	0.11-0.17	0.12-0.18	0.14-0.20	0.19-0.25	0.22-0.28	
8	20	RPM	3180	2120	1590	1060	800	640	490	400	350	320	210		
		FEED	0.01-0.02	0.01-0.03	0.02-0.04	0.02-0.05	0.03-0.06	0.03-0.06	0.04-0.10	0.06-0.12	0.08-0.14	0.10-0.16	0.12-0.18		
10	High alloyed steel, and tool steel	15	RPM	2390	1590	1190	800	600	480	370	300	270	240	160	
			FEED	0.02-0.04	0.03-0.05	0.04-0.06	0.05-0.08	0.10-0.13	0.11-0.15	0.11-0.17	0.12-0.18	0.14-0.20	0.19-0.25	0.22-0.28	
M	12	Stainless steel	20	RPM	3180	2120	1590	1060	800	640	490	400	350	320	210
				FEED	0.02-0.04	0.03-0.05	0.04-0.06	0.05-0.08	0.10-0.13	0.11-0.15	0.11-0.17	0.12-0.18	0.14-0.20	0.19-0.25	0.22-0.28
	13		15	RPM	2390	1590	1190	800	600	480	370	300	270	240	160
FEED				0.02-0.04	0.03-0.05	0.04-0.06	0.05-0.08	0.10-0.13	0.11-0.15	0.11-0.17	0.12-0.18	0.14-0.20	0.19-0.25	0.22-0.28	
14	10		RPM	1590	1060	800	530	400	320	240	200	180	160	110	
			FEED	0.01-0.02	0.01-0.03	0.02-0.04	0.02-0.05	0.03-0.06	0.03-0.06	0.04-0.10	0.06-0.12	0.08-0.14	0.10-0.16	0.12-0.18	
K	15	Grey cast iron	30	RPM	4770	3180	2390	1590	1190	950	730	600	530	480	320
				FEED	0.02-0.04	0.03-0.05	0.04-0.06	0.05-0.08	0.10-0.13	0.11-0.15	0.11-0.17	0.12-0.18	0.14-0.20	0.19-0.25	0.22-0.28
	16		25	RPM	3980	2650	1990	1330	990	800	610	500	440	400	270
				FEED	0.01-0.02	0.01-0.03	0.02-0.04	0.02-0.05	0.03-0.06	0.03-0.06	0.04-0.10	0.06-0.12	0.08-0.14	0.10-0.16	0.12-0.18
	17	Nodular cast iron	30	RPM	4770	3180	2390	1590	1190	950	730	600	530	480	320
FEED				0.02-0.04	0.03-0.05	0.04-0.06	0.05-0.08	0.10-0.13	0.11-0.15	0.11-0.17	0.12-0.18	0.14-0.20	0.19-0.25	0.22-0.28	
19	Malleable cast iron	25	RPM	3980	2650	1990	1330	990	800	610	500	440	400	270	
			FEED	0.02-0.04	0.03-0.05	0.04-0.06	0.05-0.08	0.10-0.13	0.11-0.15	0.11-0.17	0.12-0.18	0.14-0.20	0.19-0.25	0.22-0.28	
N	21	Aluminum-wrought alloy	55	RPM	8750	5840	4380	2920	2190	1750	1350	1090	970	880	580
				FEED	0.03-0.06	0.05-0.09	0.07-0.11	0.12-0.16	0.12-0.18	0.14-0.20	0.16-0.22	0.18-0.24	0.20-0.28	0.20-0.30	0.28-0.38
	22		55	RPM	8750	5840	4380	2920	2190	1750	1350	1090	970	880	580
				FEED	0.03-0.06	0.05-0.09	0.07-0.11	0.12-0.16	0.12-0.18	0.14-0.20	0.16-0.22	0.18-0.24	0.20-0.28	0.20-0.30	0.28-0.38
	23	Aluminum-cast, alloyed	40	RPM	6370	4240	3180	2120	1590	1270	980	800	710	640	420
FEED				0.03-0.06	0.05-0.09	0.07-0.11	0.12-0.16	0.12-0.18	0.14-0.20	0.16-0.22	0.18-0.24	0.20-0.28	0.20-0.30	0.28-0.38	
29	Non Metallic Materials	20	RPM	3180	2120	1590	1060	800	640	490	400	350	320	210	
			FEED	0.02-0.04	0.03-0.05	0.04-0.06	0.05-0.08	0.10-0.13	0.11-0.15	0.11-0.17	0.12-0.18	0.14-0.20	0.19-0.25	0.22-0.28	
S	36	Titanium Alloys	10	RPM	1590	1060	800	530	400	320	240	200	180	160	110
				FEED	0.01-0.03	0.02-0.04	0.03-0.05	0.04-0.07	0.05-0.08	0.05-0.09	0.06-0.10	0.05-0.11	0.06-0.12	0.09-0.13	0.12-0.18



STRAIGHT SHANK DRILLS

RECOMMENDED CUTTING CONDITIONS EMPFOHLENE SCHNEIDPARAMETER

D1100 SERIES

HSS, TWIST DRILLS for BRASS / BRONZE

Vc = m/min.
RPM = rev./min.
FEED = mm/rev.

ISO	VDI 3323	Material Description	Vc	Parameter	Drill Diameter (mm)								
					1.5	2.0	3.0	4.0	5.0	6.0	8.0	10.0	13.0
N	27	Copper and Copper Alloys (Bronze / Brass)	45	RPM	9550	7160	4770	3580	2860	2390	1790	1430	1100
				FEED	0.03-0.06	0.05-0.08	0.06-0.10	0.08-0.12	0.10-0.14	0.12-0.16	0.16-0.20	0.19-0.25	0.22-0.32
	28		30	RPM	6370	4770	3180	2390	1910	1590	1190	950	730
				FEED	0.01-0.03	0.02-0.05	0.03-0.06	0.04-0.08	0.05-0.09	0.07-0.11	0.09-0.13	0.10-0.16	0.11-0.21

D1106 SERIES

HSS, TWIST DRILLS for ALUMINUM

Vc = m/min.
RPM = rev./min.
FEED = mm/rev.

ISO	VDI 3323	Material Description	Vc	Parameter	Drill Diameter (mm)								
					1.5	2.0	3.0	4.0	5.0	6.0	8.0	10.0	13.0
N	21	Aluminum-wrought alloy	50	RPM	10610	7960	5310	3980	3180	2650	1990	1590	1220
				FEED	0.03-0.06	0.05-0.08	0.06-0.10	0.08-0.12	0.10-0.14	0.14-0.18	0.14-0.20	0.19-0.25	0.25-0.35
	22	Aluminum-wrought alloy	50	RPM	10610	7960	5310	3980	3180	2650	1990	1590	1220
				FEED	0.03-0.06	0.05-0.08	0.06-0.10	0.08-0.12	0.10-0.14	0.14-0.18	0.14-0.20	0.19-0.25	0.25-0.35
	23	Aluminum-cast, alloyed	40	RPM	8490	6370	4240	3180	2550	2120	1590	1270	980
				FEED	0.03-0.06	0.05-0.08	0.06-0.10	0.08-0.12	0.10-0.14	0.14-0.18	0.14-0.20	0.19-0.25	0.25-0.35
	24	Aluminum-cast, alloyed	30	RPM	6370	4770	3180	2390	1910	1590	1190	950	730
				FEED	0.01-0.04	0.03-0.06	0.03-0.07	0.04-0.08	0.05-0.09	0.04-0.10	0.06-0.12	0.10-0.16	0.12-0.22

CARBIDE

HSS

STRAIGHT SHANK DRILLS

DL510, DL508, DL509, DL505, DL504, DL608

SERIES

HSS-E, DH100 WORM PATTERN DRILLS

Vc = m/min.
RPM = rev./min.
FEED = mm/rev.

ISO	VDI 3323	Material Description	Vc	Parameter	Drill Diameter (mm)										
					2.0	3.0	4.0	6.0	8.0	10.0	13.0	16.0	18.0	20.0	30.0
					P	1	Non-alloy steel	30	RPM	4770	3180	2390	1590	1190	950
FEED	0.02-0.04	0.03-0.05	0.04-0.06	0.05-0.08				0.10-0.13	0.11-0.15	0.11-0.17	0.12-0.18	0.14-0.20	0.19-0.25	0.22-0.28	
2	25	RPM	3980	2650			1990	1330	990	800	610	500	440	400	270
		FEED	0.02-0.04	0.03-0.05			0.04-0.06	0.05-0.08	0.10-0.13	0.11-0.15	0.11-0.17	0.12-0.18	0.14-0.20	0.19-0.25	0.22-0.28
3	20	RPM	3180	2120		1590	1060	800	640	490	400	350	320	210	
		FEED	0.02-0.04	0.03-0.05		0.04-0.06	0.05-0.08	0.10-0.13	0.11-0.15	0.11-0.17	0.12-0.18	0.14-0.20	0.19-0.25	0.22-0.28	
4	20	RPM	3180	2120		1590	1060	800	640	490	400	350	320	210	
		FEED	0.01-0.02	0.01-0.03		0.02-0.04	0.02-0.05	0.03-0.06	0.03-0.06	0.04-0.10	0.06-0.12	0.08-0.14	0.10-0.16	0.12-0.18	
6	25	Low alloy steel	RPM	3980		2650	1990	1330	990	800	610	500	440	400	270
			FEED	0.02-0.04		0.03-0.05	0.04-0.06	0.05-0.08	0.10-0.13	0.11-0.15	0.11-0.17	0.12-0.18	0.14-0.2	0.19-0.25	0.22-0.28
7	20	RPM	3180	2120	1590	1060	800	640	490	400	350	320	210		
		FEED	0.02-0.04	0.03-0.05	0.04-0.06	0.05-0.08	0.10-0.13	0.11-0.15	0.11-0.17	0.12-0.18	0.14-0.2	0.19-0.25	0.22-0.28		
8	20	RPM	3180	2120	1590	1060	800	640	490	400	350	320	210		
		FEED	0.01-0.02	0.01-0.03	0.02-0.04	0.02-0.05	0.03-0.06	0.03-0.06	0.04-0.10	0.06-0.12	0.08-0.14	0.10-0.16	0.12-0.18		
10	15	High alloyed steel, and tool steel	RPM	2390	1590	1190	800	600	480	370	300	270	240	160	
			FEED	0.02-0.04	0.03-0.05	0.04-0.06	0.05-0.08	0.10-0.13	0.11-0.15	0.11-0.17	0.12-0.18	0.14-0.20	0.19-0.25	0.22-0.28	
K	15	Grey cast iron	RPM	4770	3180	2390	1590	1190	950	730	600	530	480	320	
			FEED	0.02-0.04	0.03-0.05	0.04-0.06	0.05-0.08	0.10-0.13	0.11-0.15	0.11-0.17	0.12-0.18	0.14-0.20	0.19-0.25	0.22-0.28	
	16	25	RPM	3980	2650	1990	1330	990	800	610	500	440	400	270	
			FEED	0.01-0.02	0.01-0.03	0.02-0.04	0.02-0.05	0.03-0.06	0.03-0.06	0.04-0.10	0.06-0.12	0.08-0.14	0.10-0.16	0.12-0.18	
	17	30	Nodular cast iron	RPM	4770	3180	2390	1590	1190	950	730	600	530	480	320
				FEED	0.02-0.04	0.03-0.05	0.04-0.06	0.05-0.08	0.10-0.13	0.11-0.15	0.11-0.17	0.12-0.18	0.14-0.20	0.19-0.25	0.22-0.28
	18	20	RPM	3180	2120	1590	1060	800	640	490	400	350	320	210	
			FEED	0.01-0.02	0.01-0.03	0.02-0.04	0.02-0.05	0.03-0.06	0.03-0.06	0.04-0.10	0.06-0.12	0.08-0.14	0.10-0.16	0.12-0.18	
19	25	Malleable cast iron	RPM	3980	2650	1990	1330	990	800	610	500	440	400	270	
			FEED	0.02-0.04	0.03-0.05	0.04-0.06	0.05-0.08	0.10-0.13	0.11-0.15	0.11-0.17	0.12-0.18	0.14-0.20	0.19-0.25	0.22-0.28	
20	20	RPM	3180	2120	1590	1060	800	640	490	400	350	320	210		
		FEED	0.01-0.02	0.01-0.03	0.02-0.04	0.02-0.05	0.03-0.06	0.03-0.06	0.04-0.10	0.06-0.12	0.08-0.14	0.10-0.16	0.12-0.18		

A272

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YG-1 CO., LTD.

CARBIDE

HSS

STRAIGHT SHANK DRILLS

DT600, DT692, DT693

SERIES

HSS-E, DH100 WORM PATTERN DRILLS (EXTRA LONG)

Vc = m/min.
RPM = rev./min.
FEED = mm/rev.

ISO	VDI 3323	Material Description	Vc	Parameter	Drill Diameter (mm)						
					2.0	3.0	4.0	6.0	8.0	10.0	13.0
					P	1	Non-alloy steel	20	RPM	3180	2120
FEED	0.01-0.03	0.03-0.05	0.04-0.06	0.05-0.08				0.08-0.11	0.09-0.13	0.10-0.16	
2	15	RPM	2390	1590			1190	800	600	480	370
		FEED	0.01-0.03	0.03-0.05			0.04-0.06	0.05-0.08	0.08-0.11	0.09-0.13	0.10-0.16
3	10	RPM	1590	1060		800	530	400	320	240	
		FEED	0.01-0.03	0.03-0.05		0.04-0.06	0.05-0.08	0.08-0.11	0.09-0.13	0.10-0.16	
4	10	RPM	1590	1060		800	530	400	320	240	
		FEED	0.01-0.02	0.01-0.03		0.02-0.04	0.02-0.05	0.03-0.06	0.03-0.06	0.04-0.10	
6	15	Low alloy steel	RPM	2390		1590	1190	800	600	480	370
			FEED	0.01-0.03		0.03-0.05	0.04-0.06	0.05-0.08	0.08-0.11	0.09-0.13	0.10-0.16
7	10	RPM	1590	1060	800	530	400	320	240		
		FEED	0.01-0.03	0.03-0.05	0.04-0.06	0.05-0.08	0.08-0.11	0.09-0.13	0.10-0.16		
8	10	RPM	1590	1060	800	530	400	320	240		
		FEED	0.01-0.02	0.01-0.03	0.02-0.04	0.02-0.05	0.03-0.06	0.03-0.06	0.04-0.10		
10	5	High alloyed steel, and tool steel	RPM	800	530	400	270	200	160	120	
			FEED	0.01-0.03	0.03-0.05	0.04-0.06	0.05-0.08	0.08-0.11	0.09-0.13	0.10-0.16	
K	15	Grey cast iron	20	RPM	3180	2120	1590	1060	800	640	490
			FEED	0.01-0.03	0.03-0.05	0.04-0.06	0.05-0.08	0.08-0.11	0.09-0.13	0.10-0.16	
	16	15	RPM	2390	1590	1190	800	600	480	370	
			FEED	0.01-0.02	0.01-0.03	0.02-0.04	0.02-0.05	0.03-0.06	0.03-0.06	0.04-0.10	
	17	20	Nodular cast iron	RPM	3180	2120	1590	1060	800	640	490
				FEED	0.01-0.03	0.03-0.05	0.04-0.06	0.05-0.08	0.08-0.11	0.09-0.13	0.10-0.16
	18	10	RPM	1590	1060	800	530	400	320	240	
			FEED	0.01-0.02	0.01-0.03	0.02-0.04	0.02-0.05	0.03-0.06	0.03-0.06	0.04-0.10	
19	15	Malleable cast iron	RPM	2390	1590	1190	800	600	480	370	
			FEED	0.01-0.03	0.03-0.05	0.04-0.06	0.05-0.08	0.08-0.11	0.09-0.13	0.10-0.16	
20	10	RPM	1590	1060	800	530	400	320	240		
		FEED	0.01-0.02	0.01-0.03	0.02-0.04	0.02-0.05	0.03-0.06	0.03-0.06	0.04-0.10		

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SERIES

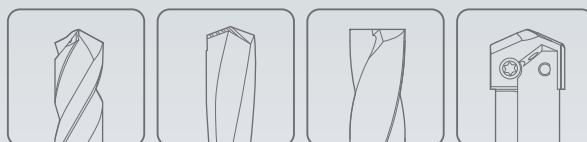
HSS-E, DH50 WORM PATTERN DRILLS

Vc = m/min.
RPM = rev./min.
FEED = mm/rev.

ISO	VDI 3323	Material Description	Vc	Parameter	Drill Diameter (mm)						
					2.0	3.0	4.0	6.0	8.0	10.0	13.0
P	1	Non-alloy steel	15	RPM	2390	1590	1190	800	600	480	370
				FEED	0.01-0.03	0.02-0.04	0.03-0.06	0.04-0.08	0.04-0.10	0.07-0.13	0.09-0.15
N	21	Aluminum-wrought alloy	55	RPM	8750	5840	4380	2920	2190	1750	1350
				FEED	0.02-0.04	0.03-0.06	0.04-0.08	0.08-0.12	0.10-0.16	0.14-0.20	0.16-0.26
			45	RPM	7160	4770	3580	2390	1790	1430	1100
				FEED	0.02-0.04	0.03-0.06	0.04-0.08	0.08-0.12	0.10-0.16	0.14-0.20	0.16-0.26
			40	RPM	6370	4240	3180	2120	1590	1270	980
				FEED	0.02-0.04	0.03-0.06	0.04-0.08	0.08-0.12	0.10-0.16	0.14-0.20	0.16-0.26



Global Cutting Tool Leader **YG-1**



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