



STRAIGHT SHANK DRILLS

DL508 SERIES

HSS-E, STRAIGHT SHANK TWIST DRILLS for DEEP HOLES
HSS-E, SPIRALBOHRER für TIEFLOCH mit ZYLINDERSCHAFT

JOBBER
KURZ

► **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

EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
DL508020	2.0	24	49	DL508047	4.7	47	80
DL508021	2.1	24	49	DL508048	4.8	52	86
DL508022	2.2	27	53	DL508049	4.9	52	86
DL508023	2.3	27	53	DL508050	5.0	52	86
DL508024	2.4	30	57	DL508051	5.1	52	86
DL508025	2.5	30	57	DL508052	5.2	52	86
DL508026	2.6	30	57	DL508053	5.3	52	86
DL508027	2.7	33	61	DL508054	5.4	57	93
DL508028	2.8	33	61	DL508055	5.5	57	93
DL508029	2.9	33	61	DL508056	5.6	57	93
DL508030	3.0	33	61	DL508057	5.7	57	93
DL508031	3.1	36	65	DL508058	5.8	57	93
DL508032	3.2	36	65	DL508059	5.9	57	93
DL508033	3.3	36	65	DL508060	6.0	57	93
DL508034	3.4	39	70	DL508061	6.1	63	101
DL508035	3.5	39	70	DL508062	6.2	63	101
DL508036	3.6	39	70	DL508063	6.3	63	101
DL508037	3.7	39	70	DL508064	6.4	63	101
DL508038	3.8	43	75	DL508065	6.5	63	101
DL508039	3.9	43	75	DL508066	6.6	63	101
DL508040	4.0	43	75	DL508067	6.7	63	101
DL508041	4.1	43	75	DL508068	6.8	69	109
DL508042	4.2	43	75	DL508069	6.9	69	109
DL508043	4.3	47	80	DL508070	7.0	69	109
DL508044	4.4	47	80	DL508071	7.1	69	109
DL508045	4.5	47	80	DL508072	7.2	69	109
DL508046	4.6	47	80	DL508073	7.3	69	109

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

◎ : Excellent ○ : Good



STRAIGHT SHANK DRILLS

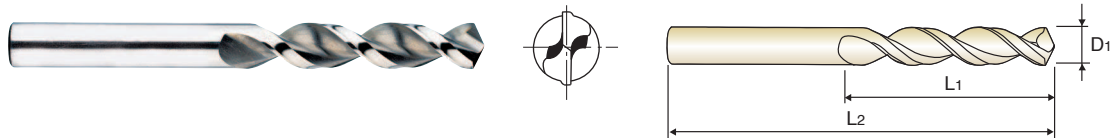
DL508 SERIES

HSS-E, STRAIGHT SHANK TWIST DRILLS for DEEP HOLES HSS-E, SPIRALBOHRER für TIEFLOCH mit ZYLINDERSCHAFT

JOBBER
KURZ

► **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

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2	EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2
DL508074	7.4	69	109	DL508095	9.5	81	125
DL508075	7.5	69	109	DL508096	9.6	87	133
DL508076	7.6	75	117	DL508097	9.7	87	133
DL508077	7.7	75	117	DL508098	9.8	87	133
DL508078	7.8	75	117	DL508099	9.9	87	133
DL508079	7.9	75	117	DL508100	10.0	87	133
DL508080	8.0	75	117	DL508102	10.2	87	133
DL508081	8.1	75	117	DL508105	10.5	87	133
DL508082	8.2	75	117	DL508110	11.0	94	142
DL508083	8.3	75	117	DL508112	11.2	94	142
DL508084	8.4	75	117	DL508115	11.5	94	142
DL508085	8.5	75	117	DL508120	12.0	101	151
DL508086	8.6	81	125	DL508125	12.5	101	151
DL508087	8.7	81	125	DL508130	13.0	101	151
DL508088	8.8	81	125	DL508135	13.5	108	160
DL508089	8.9	81	125	DL508140	14.0	108	160
DL508090	9.0	81	125	DL508145	14.5	114	169
DL508091	9.1	81	125	DL508150	15.0	114	169
DL508092	9.2	81	125	DL508155	15.5	120	178
DL508093	9.3	81	125	DL508160	16.0	120	178
DL508094	9.4	81	125				

◎ : Excellent ○ : Good

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

CARBIDE

HSS

I-DREAM DRILLS

DREAM DRILLS -GENERAL

DREAM DRILLS -INOX

DREAM DRILLS -ALU

DREAM DRILLS -CFRP

DREAM DRILLS -MQL TYPE

DREAM DRILLS for HARDENED STEELS

GENERAL CARBIDE DRILLS

NC-SPOTTING DRILLS

CENTER DRILLS

MULTI-1 DRILLS

HPD DRILLS

GOLD-P DRILLS

STRAIGHT SHANK DRILLS

TAPER SHANK DRILLS

NC-SPOTTING DRILLS

CENTER DRILLS

SPADE DRILLS

TECHNICAL DATA

HSS-E, DH100 TYPE WORM PATTERN DRILLS, DIN1897, DIN338, DIN340, DIN1869, DIN341
HSS-E, DH100 TYPE WORM PATTERN SPIRALBOHRER, DIN1897, DIN 338, DIN 340, DIN 1869, DIN 341
DL510, DL508, DL509, DL505, DL504, DT600, DT692, DT693, DL608 SERIES

WORK MATERIAL	CARBON STEELS ALLOY STEELS		TOOL STEELS HARDENED STEELS		SOFT GREY CAST IRON		HARD GREY CAST IRON	
	HARDNESS		HARDNESS					
HARDNESS	HRc15 ~ 30		HRc20 ~ 40					
STRENGTH	700 ~ 1000 N/mm ²		800 ~ 1200 N/mm ²					
DRILLING SPEED	13 ~ 18 m/min		8 ~ 13 m/min		20 ~ 25 m/min		7 ~ 12 m/min	
DIAMETER	N	S	N	S	N	S	N	S
2.0	2630	0.03	2100	0.025	4200	0.06	1680	0.05
2.5	2100	0.04	1680	0.03	3300	0.08	1310	0.06
3.0	1680	0.05	1310	0.04	2630	0.10	1050	0.08
4.0	1310	0.06	1050	0.05	2100	0.13	840	0.10
5.0	1050	0.06	840	0.05	1680	0.13	660	0.10
6.0	840	0.08	660	0.06	1310	0.16	530	0.13
8.0	660	0.10	530	0.08	1050	0.20	420	0.17
10.0	530	0.13	420	0.10	840	0.25	330	0.21
13.0	420	0.13	330	0.10	660	0.25	260	0.21
16.0	330	0.15	260	0.13	530	0.30	210	0.25
20.0	260	0.20	210	0.15	420	0.40	170	0.30
25.0	210	0.25	170	0.20	330	0.50	130	0.50
30.0	170	0.25	130	0.20	260	0.50	110	0.50

N = R.P.M

S = Feed per Revolution (mm/rev.)

HSS-E, DH50 TYPE WORM PATTERN DRILLS
HSS-E, DH50 TYPE WORM PATTERN SPIRALBOHRER
DL507 SERIES

WORK MATERIAL	CARBON STEELS ALLOY STEELS		SOFT GREY CAST IRON		ALUMINUM ALLOY	
	HARDNESS		HARDNESS			
HARDNESS	HRc15 ~ 30					
STRENGTH	700 ~ 1000 N/mm ²					
DRILLING SPEED	13 ~ 18 m/min		25 ~ 30 m/min		45 ~ 55 m/min	
DIAMETER	N	S	N	S	N	S
2.0	2630	0.03	4200	0.06	8700	0.04
2.5	2100	0.04	3300	0.08	6950	0.05
3.0	1680	0.05	2630	0.10	5800	0.06
4.0	1310	0.06	2100	0.13	4300	0.08
5.0	1050	0.06	1680	0.13	3500	0.10
6.0	840	0.08	1310	0.16	2900	0.12
8.0	660	0.10	1050	0.20	2200	0.16
10.0	530	0.13	840	0.25	1750	0.20
13.0	420	0.13	660	0.25	1350	0.26

N = R.P.M

S = Feed per Revolution (mm/rev.)