STRAIGHT SHANK DRILLS

DL504 SERIES

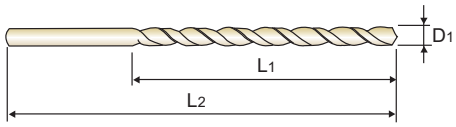
HSS-E, STRAIGHT SHANK TWIST DRILLS for DEEP HOLES — LONG

HSS-E, SPIRALBOHRER für TIEFLOCH mit ZYLINDERSCHAFT — LANG
Forets HSS-E, queue cylindrique pour perçage profond, série longue — LONGUE
PUNTA IN HSS-E, GAMBO CILINDRICO PER FORI NON - STOP — LUNGA

▶**Surface treatment** : Steam Tempered(Black Oxide Finish)
▶**Application** : Drilling deep holes in non alloy steels, alloy steels, grey cast iron, malleable cast iron, special aluminum or magnesium alloys.

▶**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.A264

▶ **DH100 worm pattern drills**

Recommended ToolHolder — Plain Shank — ER COLLET CHUCK

Unit : mm

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2
DL504020	2.0	56	85
DL504021	2.1	56	85
DL504022	2.2	59	90
DL504023	2.3	59	90
DL504024	2.4	62	95
DL504025	2.5	62	95
DL504026	2.6	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

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2
DL504055	5.5	91	139
DL504058	5.8	91	139
DL504060	6.0	91	139
DL504062	6.2	97	148
DL504065	6.5	97	148
DL504068	6.8	102	156
DL504070	7.0	102	156
DL504072	7.2	102	156
DL504075	7.5	102	156
DL504078	7.8	109	165
DL504080	8.0	109	165
DL504082	8.2	109	165
DL504085	8.5	109	165
DL504090	9.0	115	175
DL504095	9.5	115	175
DL504098	9.8	121	184
DL504100	10.0	121	184
DL504105	10.5	121	184
DL504110	11.0	128	195
DL504115	11.5	128	195
DL504120	12.0	134	205
DL504125	12.5	134	205
DL504130	13.0	134	205

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

◎ : Excellent ○ : Good

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

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