

# Y/G STRAIGHT SHANK DRILLS

**D1106** SERIES

## HSS, STRAIGHT SHANK TWIST DRILLS for ALUMINUM

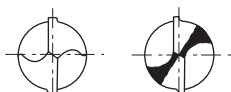
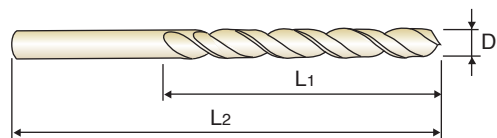
**JOBBER**

## HSS, SPIRALBOHRER für ALUMINIUM mit ZYLINDERSCHAFT

**KURZ**

► **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.



under 1.6mm 1.6mm & over

DIN 338
HSS
W 38°
h8
135°
P.216

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
D1106015	1.5	18	40	D1106043	4.3	47	80
D1106016	1.6	20	43	D1106044	4.4	47	80
D1106017	1.7	20	43	D1106045	4.5	47	80
D1106018	1.8	22	46	D1106046	4.6	47	80
D1106019	1.9	22	46	D1106047	4.7	47	80
D1106020	2.0	24	49	D1106048	4.8	52	86
D1106021	2.1	24	49	D1106049	4.9	52	86
D1106022	2.2	27	53	D1106050	5.0	52	86
D1106023	2.3	27	53	D1106051	5.1	52	86
D1106024	2.4	30	57	D1106052	5.2	52	86
D1106025	2.5	30	57	D1106053	5.3	52	86
D1106026	2.6	30	57	D1106054	5.4	57	93
D1106027	2.7	33	61	D1106055	5.5	57	93
D1106028	2.8	33	61	D1106056	5.6	57	93
D1106029	2.9	33	61	D1106057	5.7	57	93
D1106030	3.0	33	61	D1106058	5.8	57	93
D1106031	3.1	36	65	D1106059	5.9	57	93
D1106032	3.2	36	65	D1106060	6.0	57	93
D1106033	3.3	36	65	D1106061	6.1	63	101
D1106034	3.4	39	70	D1106062	6.2	63	101
D1106035	3.5	39	70	D1106063	6.3	63	101
D1106036	3.6	39	70	D1106064	6.4	63	101
D1106037	3.7	39	70	D1106065	6.5	63	101
D1106038	3.8	43	75	D1106066	6.6	63	101
D1106039	3.9	43	75	D1106067	6.7	63	101
D1106040	4.0	43	75	D1106068	6.8	69	109
D1106041	4.1	43	75	D1106069	6.9	69	109
D1106042	4.2	43	75	D1106070	7.0	69	109

◎ : 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~								
						◎					○	



# STRAIGHT SHANK DRILLS

## D1106 SERIES

### HSS, STRAIGHT SHANK TWIST DRILLS for ALUMINUM

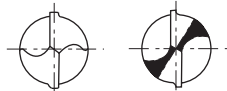
**JOBBER**

### HSS, SPIRALBOHRER für ALUMINIUM mit ZYLINDERSCHAFT

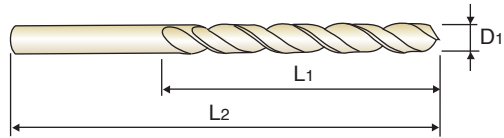
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under 1.6mm 1.6mm & over

**DIN 338****HSS****W 38°****h8****135°**

P.216

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
D1106071	7.1	69	109	D1106089	8.9	81	125
D1106072	7.2	69	109	D1106090	9.0	81	125
D1106073	7.3	69	109	D1106091	9.1	81	125
D1106074	7.4	69	109	D1106092	9.2	81	125
D1106075	7.5	69	109	D1106093	9.3	81	125
D1106076	7.6	75	117	D1106094	9.4	81	125
D1106077	7.7	75	117	D1106095	9.5	81	125
D1106078	7.8	75	117	D1106096	9.6	87	133
D1106079	7.9	75	117	D1106097	9.7	87	133
D1106080	8.0	75	117	D1106098	9.8	87	133
D1106081	8.1	75	117	D1106099	9.9	87	133
D1106082	8.2	75	117	D1106100	10.0	87	133
D1106083	8.3	75	117	D1106105	10.5	87	133
D1106084	8.4	75	117	D1106110	11.0	94	142
D1106085	8.5	75	117	D1106115	11.5	94	142
D1106086	8.6	81	125	D1106120	12.0	101	151
D1106087	8.7	81	125	D1106125	12.5	101	151
D1106088	8.8	81	125	D1106130	13.0	101	151

◎ : 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



# STRAIGHT SHANK DRILLS

**RECOMMENDED CUTTING CONDITIONS**  
**EMPFOHLENE SCHNEIDKONDITIONEN**

i-DREAM DRILLS

DREAM DRILLS -GENERAL

DREAM DRILLS -INOX

DREAM DRILLS -ALU

DREAM DRILLS -CFRP

DREAM DRILLS -MQL TYPE

DREAM DRILLS for HARDENED STEELS

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SPADE DRILLS

TECHNICAL DATA

## HSS, TWIST DRILLS for BRASS/BRONZE, DIN 338

### HSS, SPIRALBOHRER für MESSING/BRONZE, DIN338

#### D1100 SERIES

WORK MATERIAL	BRASS		BRONZE	
	45 ~ 55 m/min		30 ~ 35 m/min	
	n	S	n	S
2.0	8750	0.080	5688	0.052
3.0	5850	0.100	3803	0.065
4.0	4400	0.120	2860	0.078
5.0	3500	0.140	2275	0.091
6.0	2900	0.160	1885	0.104
7.0	2500	0.180	1625	0.117
8.0	2200	0.200	1430	0.130
9.0	1950	0.220	1268	0.143
10.0	1750	0.250	1138	0.163
11.0	1600	0.270	1040	0.176
12.0	1450	0.290	943	0.189
13.0	1350	0.320	878	0.208

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

## HSS, TWIST DRILLS for ALUMINUM, DIN338

### HSS, SPIRALBOHRER für ALUMINIUM, DIN338

#### D1106 SERIES

WORK MATERIAL	LONG CHIP ALUMINUM ALLOYS		SHORT CHIP ALUMINUM ALLOYS	
	40 ~ 50 m/min		30 ~ 35 m/min	
	N	S	N	S
2.0	7950	0.08	5550	0.06
3.0	5300	0.10	3700	0.07
4.0	4000	0.12	2800	0.08
5.0	3200	0.14	2230	0.09
6.0	2650	0.16	1850	0.10
7.0	2250	0.18	1600	0.11
8.0	2000	0.20	1400	0.12
9.0	1750	0.22	1250	0.14
10.0	1600	0.25	1100	0.16
11.0	1450	0.28	1000	0.18
12.0	1330	0.32	930	0.20
13.0	1220	0.35	860	0.22

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