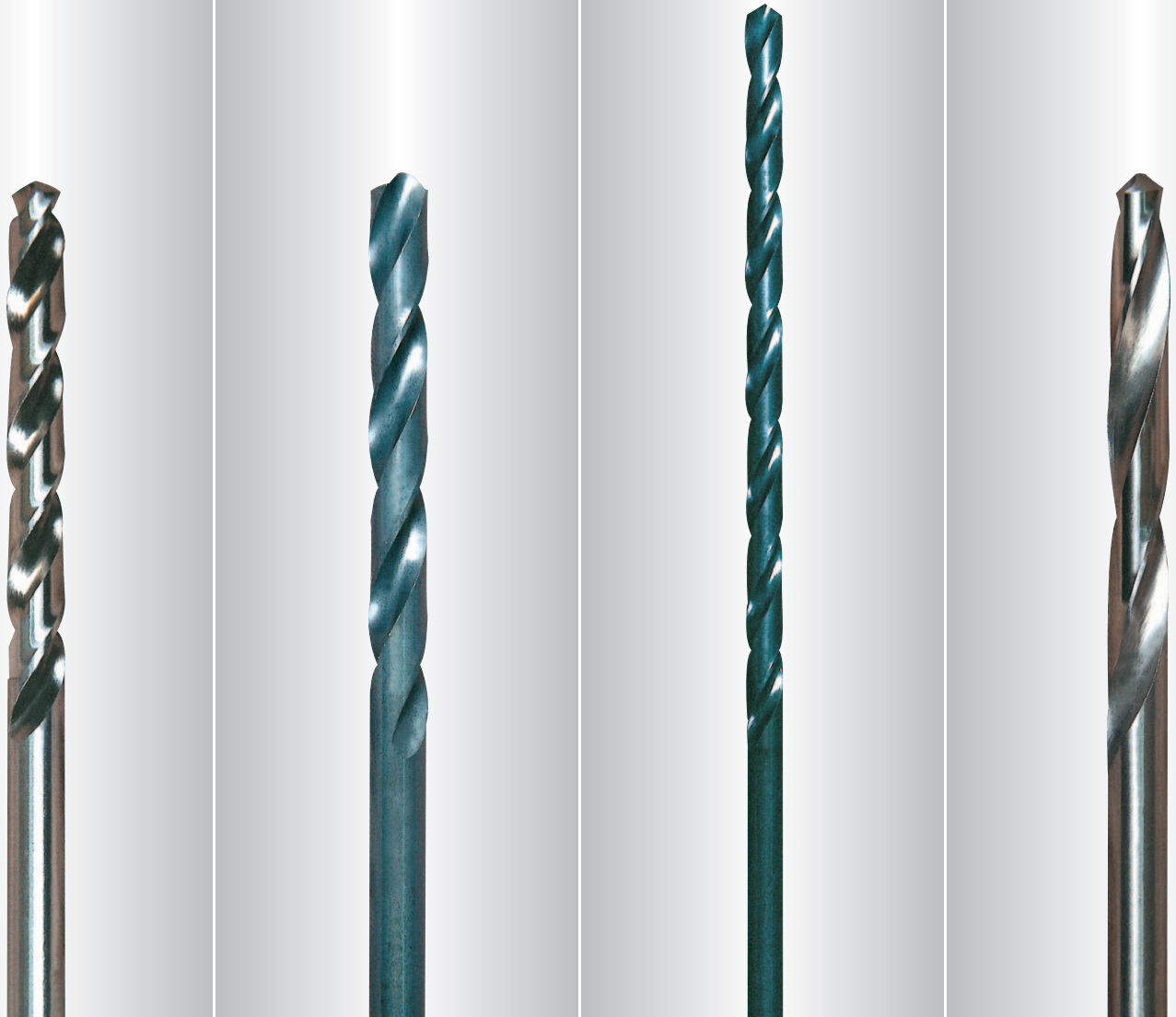


HSS



Being the best through innovation



STRAIGHT SHANK DRILLS












BOHRER MIT ZYLINDERSCHAFT

- General Purpose (HSS & HSS-E & 8% Cobalt)
- Für allgemeinen Einsatz, HSS und HSSE-Co8

SELECTION GUIDE

STRAIGHT SHANK TWIST DRILLS

HSS Drills for soft materials & HSS cobalt Drills for tough materials

ITEM	MODEL	DESCRIPTION	SIZE		PAGE	
			MIN	MAX		
D2107		HSSCo8, STRAIGHT SHANK TWIST DRILLS, FORM C HSSCo8, SPIRALBOHRER mit ZYLINDERSCHAFT	<i>STUB EXTRA KURZ</i>	D1.0	D31.0	162
D1107		HSS, STRAIGHT SHANK TWIST DRILLS HSS, SPIRALBOHRER mit ZYLINDERSCHAFT	<i>STUB EXTRA KURZ</i>	D1.0	D13.0	165
D2105		HSSCo8, STRAIGHT SHANK TWIST DRILLS, FORM C HSSCo8, SPIRALBOHRER mit ZYLINDERSCHAFT	<i>JOBBER KURZ</i>	D1.0	D20.0	167
DL105		HSS-E, STRAIGHT SHANK TWIST DRILLS, FORM C HSS-E, SPIRALBOHRER mit ZYLINDERSCHAFT	<i>JOBBER KURZ</i>	D1.0	D20.0	170
D1105		HSS, STRAIGHT SHANK TWIST DRILLS HSS, SPIRALBOHRER mit ZYLINDERSCHAFT	<i>JOBBER KURZ</i>	D0.3	D20.0	173
D1125		HSS, STRAIGHT SHANK TWIST DRILLS HSS, SPIRALBOHRER mit ZYLINDERSCHAFT	<i>JOBBER KURZ</i>	D2.0	D20.0	177
D2104		HSSCo8, STRAIGHT SHANK TWIST DRILLS HSSCo8, SPIRALBOHRER mit ZYLINDERSCHAFT	<i>LONG LANG</i>	D2.0	D12.0	180
D1121		HSS, STRAIGHT SHANK TWIST DRILLS HSS, SPIRALBOHRER mit ZYLINDERSCHAFT	<i>EXTRA LONG ÜBERLANG</i>	D2.0	D13.0	182
DL109		HSS-E, STRAIGHT SHANK TWIST DRILLS for HEAVY DUTY HSS-E, SPIRALBOHRER für HOHE LEISTUNGEN mit ZYLINDERSCHAFT	<i>JOBBER KURZ</i>	D1.5	D13.0	183
D1100		HSS, STRAIGHT SHANK TWIST DRILLS for BRASS HSS, SPIRALBOHRER für MESSING mit ZYLINDERSCHAFT	<i>JOBBER KURZ</i>	D1.5	D13.0	184
D1106		HSS, STRAIGHT SHANK TWIST DRILLS for ALUMINUM, FORM C HSS, SPIRALBOHRER für ALUMINIUM mit ZYLINDERSCHAFT	<i>JOBBER KURZ</i>	D1.5	D13.0	186
RECOMMENDED CUTTING CONDITIONS EMPFOHLENE SCHNEIDKONDITIONEN						188

HSS STRAIGHT SHANK DRILLS

◎ : Excellent
○ : Good

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

YG STRAIGHT SHANK DRILLS

D2107 SERIES

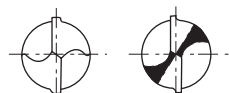
HSSCo8, STRAIGHT SHANK TWIST DRILLS HSSCo8, SPIRALBOHRER mit ZYLINDERSCHAFT

STUB

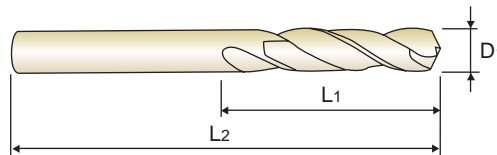
EXTRA KURZ

► **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.



up to 1.5mm over 1.5mm



Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
D2107010	1.0	6	26	D2107034	3.4	20	52
D2107011	1.1	7	28	D2107035	3.5	20	52
D2107012	1.2	8	30	D2107036	3.6	20	52
D2107912	1.25	8	30	D2107037	3.7	20	52
D2107013	1.3	8	30	D2107937	3.75	20	52
D2107014	1.4	9	32	D2107038	3.8	22	55
D2107015	1.5	9	32	D2107039	3.9	22	55
D2107016	1.6	10	34	D2107040	4.0	22	55
D2107017	1.7	10	34	D2107041	4.1	22	55
D2107917	1.75	11	36	D2107042	4.2	22	55
D2107018	1.8	11	36	D2107942	4.25	22	55
D2107019	1.9	11	36	D2107043	4.3	24	58
D2107020	2.0	12	38	D2107044	4.4	24	58
D2107021	2.1	12	38	D2107045	4.5	24	58
D2107022	2.2	13	40	D2107046	4.6	24	58
D2107925	2.55	13	40	D2107946	4.65	24	58
D2107023	2.3	13	40	D2107047	4.7	24	58
D2107024	2.4	14	43	D2107947	4.75	24	58
D2107025	2.5	14	43	D2107048	4.8	26	62
D2107026	2.6	14	43	D2107049	4.9	26	62
D2107027	2.7	16	46	D2107050	5.0	26	62
D2107927	2.75	16	46	D2107051	5.1	26	62
D2107028	2.8	16	46	D2107052	5.2	26	62
D2107029	2.9	16	46	D2107952	5.25	26	62
D2107030	3.0	16	46	D2107053	5.3	26	62
D2107031	3.1	18	49	D2107054	5.4	28	66
D2107032	3.2	18	49	D2107055	5.5	28	66
D2107932	3.25	18	49	D2107955	5.55	28	66
D2107033	3.3	18	49	D2107056	5.6	28	66

► HSS-E(DL107) is available on your request.
 ► TiN(D4107), TiCN(D7107) and TiAlN(DQ107) are available on your request.

◎ : Excellent ○ : Good

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



STRAIGHT SHANK DRILLS

D2107 SERIES

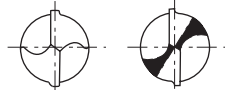
HSSCo8, STRAIGHT SHANK TWIST DRILLS HSSCo8, SPIRALBOHRER mit ZYLINDERSCHAFT

STUB

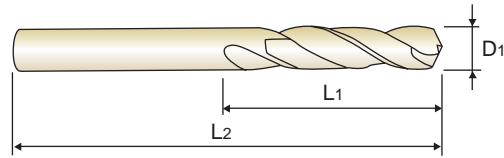
EXTRA KURZ

- ▶ **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.



up to 1.5mm over 1.5mm



DIN 1897
HSS Co8
N 33°
h8
135°
P.188

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
D2107057	5.7	28	66	D2107080	8.0	37	79
D2107957	5.75	28	66	D2107081	8.1	37	79
D2107058	5.8	28	66	D2107082	8.2	37	79
D2107059	5.9	28	66	D2107982	8.25	37	79
D2107060	6.0	28	66	D2107083	8.3	37	79
D2107061	6.1	31	70	D2107084	8.4	37	79
D2107062	6.2	31	70	D2107085	8.5	37	79
D2107962	6.25	31	70	D2107086	8.6	40	84
D2107063	6.3	31	70	D2107087	8.7	40	84
D2107064	6.4	31	70	D2107987	8.75	40	84
D2107065	6.5	31	70	D2107088	8.8	40	84
D2107066	6.6	31	70	D2107089	8.9	40	84
D2107067	6.7	31	70	D2107090	9.0	40	84
D2107967	6.75	34	74	D2107091	9.1	40	84
D2107068	6.8	34	74	D2107092	9.2	40	84
D2107069	6.9	34	74	D2107992	9.25	40	84
D2107070	7.0	34	74	D2107093	9.3	40	84
D2107071	7.1	34	74	D2107993	9.35	40	84
D2107072	7.2	34	74	D2107094	9.4	40	84
D2107972	7.25	34	74	D2107095	9.5	40	84
D2107073	7.3	34	74	D2107096	9.6	43	89
D2107074	7.4	34	74	D2107097	9.7	43	89
D2107974	7.45	34	74	D2107997	9.75	43	89
D2107075	7.5	34	74	D2107098	9.8	43	89
D2107076	7.6	37	79	D2107099	9.9	43	89
D2107077	7.7	37	79	D2107100	10.0	43	89
D2107977	7.75	37	79	D2107102	10.2	43	89
D2107078	7.8	37	79	D2107802	10.25	43	89
D2107079	7.9	37	79	D2107105	10.5	43	89

- ▶ HSS-E(DL107) is available on your request.
- ▶ TiN(D4107), TiCN(D7107) and TiAlN(DQ107) are available on your request.

◎ : Excellent ○ : Good

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		Cast Iron	Aluminum	Stainless Steels	Titanium	Mild Steels	Copper	Bronze
~HB225	HB225~325	HRC30~45	HRC45~55	HRC55~							
◎	◎				○	○	○	○	○		

CARBIDE

HSS

i-DREAM DRILLS

DREAM DRILLS -GENERAL

DREAM DRILLS -INOX

DREAM DRILLS -MQL TYPE

DREAM DRILLS for HARDENED STEELS

GENERAL CARBIDE DRILLS

NC-SPOTTING DRILLS

MULTI-1 DRILLS

HPD DRILLS

GOLD-P DRILLS

WORM PATTERN DRILLS

STRAIGHT SHANK DRILLS

TAPER SHANK DRILLS

NC-SPOTTING DRILLS

CENTER DRILLS

SPADE DRILLS

TECHNICAL DATA

YG STRAIGHT SHANK DRILLS

D2107 SERIES

HSSCo8, STRAIGHT SHANK TWIST DRILLS

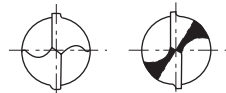
STUB

HSSCo8, SPIRALBOHRER mit ZYLINDERSCHAFT

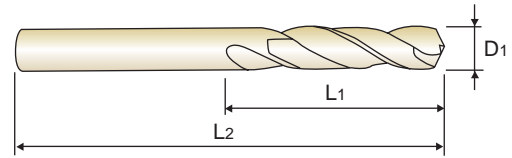
EXTRA KURZ

- ▶ **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.



up to 1.5mm over 1.5mm



Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
D2107807	10.75	47	95	D2107872	17.25	62	123
D2107110	11.0	47	95	D2107175	17.5	62	123
D2107812	11.25	47	95	D2107877	17.75	62	123
D2107115	11.5	47	95	D2107180	18.0	62	123
D2107817	11.75	47	95	D2107882	18.25	64	127
D2107118	11.8	47	95	D2107185	18.5	64	127
D2107120	12.0	51	102	D2107887	18.75	64	127
D2107822	12.25	51	102	D2107190	19.0	64	127
D2107125	12.5	51	102	D2107892	19.25	66	131
D2107827	12.75	51	102	D2107195	19.5	66	131
D2107130	13.0	51	102	D2107897	19.75	66	131
D2107832	13.25	54	107	D2107200	20.0	66	131
D2107135	13.5	54	107	D2107205	20.5	68	136
D2107837	13.75	54	107	D2107210	21.0	68	136
D2107138	13.8	54	107	D2107215	21.5	70	141
D2107140	14.0	54	107	D2107220	22.0	70	141
D2107842	14.25	56	111	D2107225	22.5	72	146
D2107145	14.5	56	111	D2107230	23.0	72	146
D2107847	14.75	56	111	D2107235	23.5	72	146
D2107150	15.0	56	111	D2107240	24.0	75	151
D2107852	15.25	58	115	D2107245	24.5	75	151
D2107155	15.5	58	115	D2107250	25.0	75	151
D2107857	15.75	58	115	D2107260	26.0	78	156
D2107160	16.0	58	115	D2107270	27.0	81	162
D2107862	16.25	60	119	D2107280	28.0	81	162
D2107165	16.5	60	119	D2107290	29.0	84	168
D2107867	16.75	60	119	D2107300	30.0	84	168
D2107170	17.0	60	119	D2107310	31.0	87	174

- ▶ HSS-E(DL107) is available on your request.
- ▶ TiN(D4107), TiCN(D7107) and TiAlN(DQ107) are available on your request.

◎ : Excellent ○ : Good

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



STRAIGHT SHANK DRILLS

D1107 SERIES

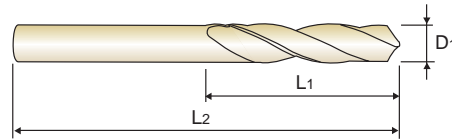
HSS, STRAIGHT SHANK TWIST DRILLS HSS, SPIRALBOHRER mit ZYLINDERSCHAFT

STUB

EXTRA KURZ

- **Surface treatment:** Steam Tempered(Black Oxide Finish)
Bright Finish under 2mm
- **Application** : Suitable for drilling thin materials with portable electric drills.
Special twist drills for automatic and turret lathes.

- **Oberflächenbehandlung** : Steam Homo(Schwarzoxidation)
Helle Beschaffenheit unter 2 mm
- **Verwendung** : Sonderbohrer zum Einsatz auf Automaten und Revolverdrehbänken.
Geeignet für den Einsatz in Handbohrmaschinen zum Bohren von dünnwandigem Material.



Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
D1107010	1.0	6	26	D1107036	3.6	20	52
D1107011	1.1	7	28	D1107037	3.7	20	52
D1107012	1.2	8	30	D1107937	3.75	20	52
D1107912	1.25	8	30	D1107038	3.8	22	55
D1107013	1.3	8	30	D1107039	3.9	22	55
D1107014	1.4	9	32	D1107040	4.0	22	55
D1107015	1.5	9	32	D1107041	4.1	22	55
D1107016	1.6	9	34	D1107042	4.2	22	55
D1107017	1.7	10	34	D1107942	4.25	22	55
D1107917	1.75	11	36	D1107043	4.3	24	58
D1107018	1.8	11	36	D1107044	4.4	24	58
D1107019	1.9	11	36	D1107045	4.5	24	58
D1107020	2.0	12	38	D1107046	4.6	24	58
D1107021	2.1	12	38	D1107047	4.7	24	58
D1107022	2.2	13	40	D1107947	4.75	24	58
D1107922	2.25	13	40	D1107048	4.8	26	62
D1107023	2.3	13	40	D1107049	4.9	26	62
D1107024	2.4	14	43	D1107050	5.0	26	62
D1107025	2.5	14	43	D1107051	5.1	26	62
D1107026	2.6	14	43	D1107052	5.2	26	62
D1107027	2.7	16	46	D1107952	5.25	26	62
D1107927	2.75	16	46	D1107053	5.3	26	62
D1107028	2.8	16	46	D1107054	5.4	28	66
D1107029	2.9	16	46	D1107055	5.5	28	66
D1107030	3.0	16	46	D1107056	5.6	28	66
D1107031	3.1	18	49	D1107057	5.7	28	66
D1107032	3.2	18	49	D1107957	5.75	28	66
D1107932	3.25	18	49	D1107058	5.8	28	66
D1107033	3.3	18	49	D1107059	5.9	28	66
D1107034	3.4	20	52	D1107060	6.0	28	66
D1107035	3.5	20	52	D1107061	6.1	31	70

◎ : Excellent ○ : Good

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		Cast Iron	Aluminum	Stainless Steels	Titanium	Mild Steels	Copper	Bronze
~HB225	HB225~325	HRC30~45	HRC45~55	HRC55~							
◎	◎				○	○	○	○	○		

CARBIDE

HSS

i-DREAM DRILLS

DREAM DRILLS -GENERAL

DREAM DRILLS -INOX

DREAM DRILLS -MQL TYPE

DREAM DRILLS for HARDENED STEELS

GENERAL CARBIDE DRILLS

NC-SPOTTING DRILLS

MULTI-1 DRILLS

HPD DRILLS

GOLD-P DRILLS

WORM PATTERN DRILLS

STRAIGHT SHANK DRILLS

TAPER SHANK DRILLS

NC-SPOTTING DRILLS

CENTER DRILLS

SPADE DRILLS

TECHNICAL DATA

YG STRAIGHT SHANK DRILLS

D1107 SERIES

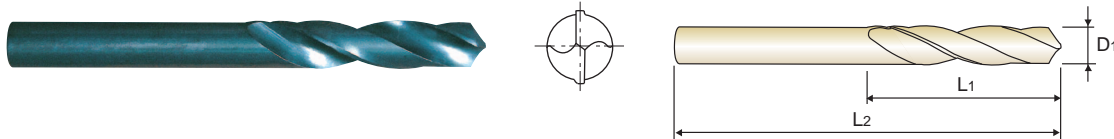
HSS, STRAIGHT SHANK TWIST DRILLS HSS, SPIRALBOHRER mit ZYLINDERSCHAFT

STUB

EXTRA KURZ

► **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°
P.188

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
D1107062	6.2	31	70	D1107087	8.7	40	84
D1107962	6.25	31	70	D1107987	8.75	40	84
D1107063	6.3	31	70	D1107088	8.8	40	84
D1107064	6.4	31	70	D1107089	8.9	40	84
D1107065	6.5	31	70	D1107090	9.0	40	84
D1107066	6.6	31	70	D1107091	9.1	40	84
D1107067	6.7	31	70	D1107092	9.2	40	84
D1107967	6.75	34	74	D1107992	9.25	40	84
D1107068	6.8	34	74	D1107093	9.3	40	84
D1107069	6.9	34	74	D1107094	9.4	40	84
D1107070	7.0	34	74	D1107095	9.5	40	84
D1107071	7.1	34	74	D1107096	9.6	43	89
D1107072	7.2	34	74	D1107097	9.7	43	89
D1107972	7.25	34	74	D1107997	9.75	43	89
D1107073	7.3	34	74	D1107098	9.8	43	89
D1107074	7.4	34	74	D1107099	9.9	43	89
D1107075	7.5	34	74	D1107100	10.0	43	89
D1107076	7.6	37	79	D1107802	10.25	43	89
D1107077	7.7	37	79	D1107105	10.5	43	89
D1107977	7.75	37	79	D1107807	10.75	47	95
D1107078	7.8	37	79	D1107110	11.0	47	95
D1107079	7.9	37	79	D1107812	11.25	47	95
D1107080	8.0	37	79	D1107115	11.5	47	95
D1107081	8.1	37	79	D1107817	11.75	47	95
D1107082	8.2	37	79	D1107120	12.0	51	102
D1107982	8.25	37	79	D1107822	12.25	51	102
D1107083	8.3	37	79	D1107125	12.5	51	102
D1107084	8.4	37	79	D1107827	12.75	51	102
D1107085	8.5	37	79	D1107130	13.0	51	102
D1107086	8.6	40	84				

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



STRAIGHT SHANK DRILLS

D2105 SERIES

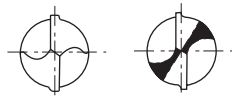
HSSCo8, STRAIGHT SHANK TWIST DRILLS HSSCo8, SPIRALBOHRER mit ZYLINDERSCHAFT

JOBBER

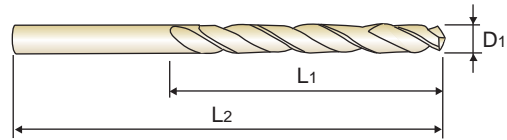
KURZ

► **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, schwererspanbaren Werkstoffen wie Titan und Inconel.



up to 1.5mm over 1.5mm



DIN 338
HSS Co8
N 33°
h8
135°
P.188

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
D2105010	1.0	12	34	D2105031	3.1	36	65
D2105011	1.1	14	36	D2105032	3.2	36	65
D2105012	1.2	16	38	D2105932	3.25	36	65
D2105912	1.25	16	38	D2105033	3.3	36	65
D2105013	1.3	16	38	D2105034	3.4	39	70
D2105014	1.4	18	40	D2105035	3.5	39	70
D2105015	1.5	18	40	D2105036	3.6	39	70
D2105016	1.6	20	43	D2105037	3.7	39	70
D2105017	1.7	20	43	D2105937	3.75	39	70
D2105917	1.75	22	46	D2105038	3.8	43	75
D2105018	1.8	22	46	D2105039	3.9	43	75
D2105019	1.9	22	46	D2105040	4.0	43	75
D2105020	2.0	24	49	D2105041	4.1	43	75
D2105021	2.1	24	49	D2105042	4.2	43	75
D2105022	2.2	27	53	D2105942	4.25	43	75
D2105922	2.25	27	53	D2105043	4.3	47	80
D2105023	2.3	27	53	D2105044	4.4	47	80
D2105024	2.4	30	57	D2105045	4.5	47	80
D2105025	2.5	30	57	D2105046	4.6	47	80
D2105026	2.6	30	57	D2105047	4.7	47	80
D2105027	2.7	33	61	D2105947	4.75	47	80
D2105927	2.75	33	61	D2105048	4.8	52	86
D2105028	2.8	33	61	D2105049	4.9	52	86
D2105029	2.9	33	61	D2105050	5.0	52	86
D2105030	3.0	33	61	D2105051	5.1	52	86

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

Carbon Steels		Alloy Steels	Prehardened Steels	Hardened Steels		Cast Iron	Aluminum	Stainless Steels	Titanium	Mild Steels	Copper	Bronze
~HB225	HB225~325	HRC30~45	HRC45~55	HRC55~								
◎	◎					○	○	◎	○	○		

CARBIDE

HSS

i-DREAM DRILLS

DREAM DRILLS -GENERAL

DREAM DRILLS -INOX

DREAM DRILLS -MQL TYPE

DREAM DRILLS for HARDENED STEELS

GENERAL CARBIDE DRILLS

NC-SPOTTING DRILLS

MULTI-1 DRILLS

HPD DRILLS

GOLD-P DRILLS

WORM PATTERN DRILLS

STRAIGHT SHANK DRILLS

TAPER SHANK DRILLS

NC-SPOTTING DRILLS

CENTER DRILLS

SPADE DRILLS

TECHNICAL DATA

STRAIGHT SHANK DRILLS

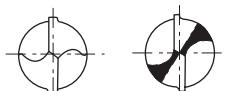
D2105 SERIES

HSSCo8, STRAIGHT SHANK TWIST DRILLS HSSCo8, SPIRALBOHRER mit ZYLINDERSCHAFT

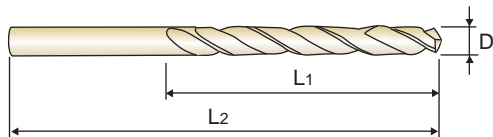
JOBBER
KURZ

► **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.



up to 1.5mm over 1.5mm



DIN 338
HSS Co8
N 33°
h8
135°
P.188

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
D2105052	5.2	52	86	D2105972	7.25	69	109
D2105952	5.25	52	86	D2105073	7.3	69	109
D2105053	5.3	52	86	D2105074	7.4	69	109
D2105054	5.4	57	93	D2105075	7.5	69	109
D2105055	5.5	57	93	D2105076	7.6	75	117
D2105056	5.6	57	93	D2105077	7.7	75	117
D2105057	5.7	57	93	D2105977	7.75	75	117
D2105957	5.75	57	93	D2105078	7.8	75	117
D2105058	5.8	57	93	D2105079	7.9	75	117
D2105059	5.9	57	93	D2105080	8.0	75	117
D2105060	6.0	57	93	D2105081	8.1	75	117
D2105061	6.1	63	101	D2105082	8.2	75	117
D2105062	6.2	63	101	D2105982	8.25	75	117
D2105962	6.25	63	101	D2105083	8.3	75	117
D2105063	6.3	63	101	D2105084	8.4	75	117
D2105064	6.4	63	101	D2105085	8.5	75	117
D2105065	6.5	63	101	D2105086	8.6	81	125
D2105066	6.6	63	101	D2105087	8.7	81	125
D2105067	6.7	63	101	D2105987	8.75	81	125
D2105967	6.75	69	109	D2105088	8.8	81	125
D2105068	6.8	69	109	D2105089	8.9	81	125
D2105069	6.9	69	109	D2105090	9.0	81	125
D2105070	7.0	69	109	D2105091	9.1	81	125
D2105071	7.1	69	109	D2105092	9.2	81	125
D2105072	7.2	69	109	D2105992	9.25	81	125

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

◎ : Excellent ○ : Good

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



STRAIGHT SHANK DRILLS

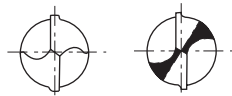
D2105 SERIES

HSSCo8, STRAIGHT SHANK TWIST DRILLS HSSCo8, SPIRALBOHRER mit ZYLINDERSCHAFT

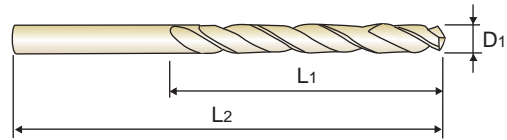
JOBBER**KURZ**

► **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, schwererspanbaren Werkstoffen wie Titan und Inconel.



up to 1.5mm over 1.5mm



Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1		L1		L2		D1
D2105093	9.3	81	125	D2105130	13.0	101	151
D2105094	9.4	81	125	D2105135	13.5	108	160
D2105095	9.5	81	125	D2105140	14.0	108	160
D2105096	9.6	87	133	D2105145	14.5	114	169
D2105097	9.7	87	133	D2105150	15.0	114	169
D2105997	9.75	87	133	D2105155	15.5	120	178
D2105098	9.8	87	133	D2105160	16.0	120	178
D2105099	9.9	87	133	D2105165	16.5	125	184
D2105100	10.0	87	133	D2105170	17.0	125	184
D2105102	10.2	87	133	D2105175	17.5	130	191
D2105105	10.5	87	133	D2105180	18.0	130	191
D2105110	11.0	94	142	D2105185	18.5	135	198
D2105115	11.5	94	142	D2105190	19.0	135	198
D2105120	12.0	101	151	D2105195	19.5	140	205
D2105125	12.5	101	151	D2105200	20.0	140	205

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

◎ : Excellent ○ : Good

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		Cast Iron	Aluminum	Stainless Steels	Titanium	Mild Steels	Copper	Bronze
~HB225	HB225~325	HRC30~45	HRC45~55	HRC55~							
◎	◎				○	○	◎	○	○		

YG STRAIGHT SHANK DRILLS

DL105 SERIES

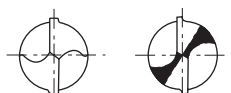
HSS-E, STRAIGHT SHANK TWIST DRILLS HSS-E, SPIRALBOHRER mit ZYLINDERSCHAFT

JOBBER

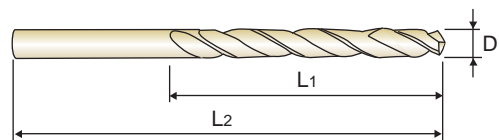
KURZ

► **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.



up to 1.5mm over 1.5mm



DIN 338
HSS-E
N 33°
h8
135°
P.188

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
DL105010	1.0	12	34	DL105031	3.1	36	65
DL105011	1.1	14	36	DL105032	3.2	36	65
DL105012	1.2	16	38	DL105932	3.25	36	65
DL105912	1.25	16	38	DL105033	3.3	36	65
DL105013	1.3	16	38	DL105034	3.4	39	70
DL105014	1.4	18	40	DL105035	3.5	39	70
DL105015	1.5	18	40	DL105036	3.6	39	70
DL105016	1.6	20	43	DL105037	3.7	39	70
DL105017	1.7	20	43	DL105937	3.75	39	70
DL105917	1.75	22	46	DL105038	3.8	43	75
DL105018	1.8	22	46	DL105039	3.9	43	75
DL105019	1.9	22	46	DL105040	4.0	43	75
DL105020	2.0	24	49	DL105041	4.1	43	75
DL105021	2.1	24	49	DL105042	4.2	43	75
DL105022	2.2	27	53	DL105942	4.25	43	75
DL105922	2.25	27	53	DL105043	4.3	47	80
DL105023	2.3	27	53	DL105044	4.4	47	80
DL105024	2.4	30	57	DL105045	4.5	47	80
DL105025	2.5	30	57	DL105046	4.6	47	80
DL105026	2.6	30	57	DL105047	4.7	47	80
DL105027	2.7	33	61	DL105947	4.75	47	80
DL105927	2.75	33	61	DL105048	4.8	52	86
DL105028	2.8	33	61	DL105049	4.9	52	86
DL105029	2.9	33	61	DL105050	5.0	52	86
DL105030	3.0	33	61	DL105051	5.1	52	86

► TiN(DN105), TiCN(DX105) and TiAlN(DT105) are available on your request.

◎ : Excellent ○ : Good

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



STRAIGHT SHANK DRILLS

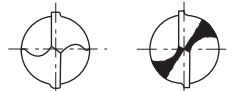
DL105 SERIES

HSS-E, STRAIGHT SHANK TWIST DRILLS HSS-E, SPIRALBOHRER mit ZYLINDERSCHAFT

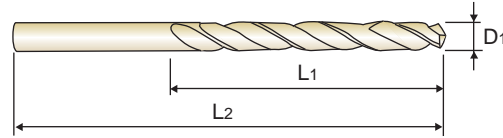
JOBBER**KURZ**

► **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.



up to 1.5mm over 1.5mm



DIN 338

HSS-E

N 33°

h8

135°



P.188

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
DL105052	5.2	52	86	DL105972	7.25	69	109
DL105952	5.25	52	86	DL105073	7.3	69	109
DL105053	5.3	52	86	DL105074	7.4	69	109
DL105054	5.4	57	93	DL105075	7.5	69	109
DL105055	5.5	57	93	DL105076	7.6	75	117
DL105056	5.6	57	93	DL105077	7.7	75	117
DL105057	5.7	57	93	DL105977	7.75	75	117
DL105957	5.75	57	93	DL105078	7.8	75	117
DL105058	5.8	57	93	DL105079	7.9	75	117
DL105059	5.9	57	93	DL105080	8.0	75	117
DL105060	6.0	57	93	DL105081	8.1	75	117
DL105061	6.1	63	101	DL105082	8.2	75	117
DL105062	6.2	63	101	DL105982	8.25	75	117
DL105962	6.25	63	101	DL105083	8.3	75	117
DL105063	6.3	63	101	DL105084	8.4	75	117
DL105064	6.4	63	101	DL105085	8.5	75	117
DL105065	6.5	63	101	DL105086	8.6	81	125
DL105066	6.6	63	101	DL105087	8.7	81	125
DL105067	6.7	63	101	DL105987	8.75	81	125
DL105967	6.75	63	101	DL105088	8.8	81	125
DL105068	6.8	69	109	DL105089	8.9	81	125
DL105069	6.9	69	109	DL105090	9.0	81	125
DL105070	7.0	69	109	DL105091	9.1	81	125
DL105071	7.1	69	109	DL105092	9.2	81	125
DL105072	7.2	69	109	DL105992	9.25	81	125

► TiN(DN105), TiCN(DX105) and TiAlN(DT105) are available on your request.

◎ : Excellent ○ : Good

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		Cast Iron	Aluminum	Stainless Steels	Titanium	Mild Steels	Copper	Bronze
~HB225	HB225~325	HRC30~45	HRC45~55	HRC55~							
◎	◎				○	○	◎	○	○		

YG STRAIGHT SHANK DRILLS

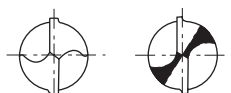
DL105 SERIES

HSS-E, STRAIGHT SHANK TWIST DRILLS HSS-E, SPIRALBOHRER mit ZYLINDERSCHAFT

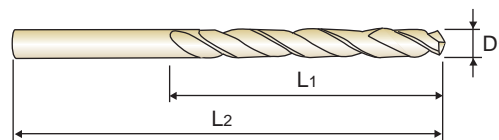
JOBBER
KURZ

► **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.



up to 1.5mm over 1.5mm



DIN 338
HSS-E
N 33°
h8
135°
P.188

Unit : mm

EDP No.	Drill Diameter	Flute Length		Overall Length	EDP No.	Drill Diameter	Flute Length		Overall Length
	D1	L1	L2	L2		D1	L1	L2	
DL105093	9.3	81	125	125	DL105130	13.0	101	151	151
DL105094	9.4	81	125	125	DL105135	13.5	108	160	160
DL105095	9.5	81	125	125	DL105140	14.0	108	160	160
DL105096	9.6	87	133	133	DL105145	14.5	114	169	169
DL105097	9.7	87	133	133	DL105150	15.0	114	169	169
DL105997	9.75	87	133	133	DL105155	15.5	120	178	178
DL105098	9.8	87	133	133	DL105160	16.0	120	178	178
DL105099	9.9	87	133	133	DL105165	16.5	125	184	184
DL105100	10.0	87	133	133	DL105170	17.0	125	184	184
DL105102	10.2	87	133	133	DL105175	17.5	130	191	191
DL105105	10.5	87	133	133	DL105180	18.0	130	191	191
DL105110	11.0	94	142	142	DL105185	18.5	135	198	198
DL105115	11.5	94	142	142	DL105190	19.0	135	198	198
DL105120	12.0	101	151	151	DL105195	19.5	140	205	205
DL105125	12.5	101	151	151	DL105200	20.0	140	205	205

► TiN(DN105), TiCN(DX105) and TiAlN(DT105) are available on your request.

◎ : Excellent ○ : Good

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



STRAIGHT SHANK DRILLS

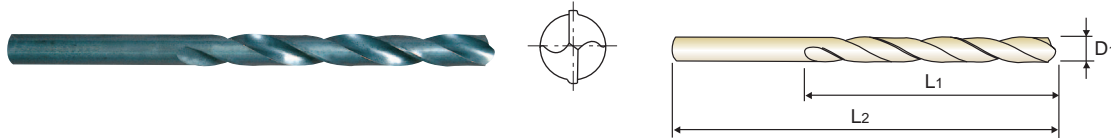
D1105 SERIES

HSS, STRAIGHT SHANK TWIST DRILLS HSS, SPIRALBOHRER mit ZYLINDERSCHAFT

JOBBER**KURZ**

- ▶ **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 2 mm
- ▶ **Verwendung** : Zum Bohren von Stahl und Stahlguß,
Grauguß, Temperguß, Sphäroguß,
Sintereisen, Graphite.



DIN 338 HSS N 20~30° h8 118° P.188

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
D1105003G	0.3	3	19	D1105921	2.15	27	53
D1105004G	0.4	5	20	D1105022	2.2	27	53
D1105005G	0.5	6	22	D1105922	2.25	27	53
D1105006G	0.6	7	24	D1105023	2.3	27	53
D1105007G	0.7	9	28	D1105923	2.35	27	53
D1105008G	0.8	10	30	D1105024	2.4	30	57
D1105009G	0.9	11	32	D1105924	2.45	30	57
D1105010	1.0	12	34	D1105025	2.5	30	57
D1105910	1.05	12	34	D1105925	2.55	30	57
D1105011	1.1	14	36	D1105026	2.6	30	57
D1105911	1.15	14	36	D1105926	2.65	30	57
D1105012	1.2	16	38	D1105027	2.7	33	61
D1105912	1.25	16	38	D1105927	2.75	33	61
D1105013	1.3	16	38	D1105028	2.8	33	61
D1105913	1.35	18	40	D1105928	2.85	33	61
D1105014	1.4	18	40	D1105029	2.9	33	61
D1105914	1.45	18	40	D1105929	2.95	33	61
D1105015	1.5	18	40	D1105030	3.0	33	61
D1105915	1.55	20	43	D1105930	3.05	36	65
D1105016	1.6	20	43	D1105031	3.1	36	65
D1105916	1.65	20	43	D1105931	3.15	36	65
D1105017	1.7	20	43	D1105032	3.2	36	65
D1105917	1.75	22	46	D1105932	3.25	36	65
D1105018	1.8	22	46	D1105033	3.3	36	65
D1105918	1.85	22	46	D1105933	3.35	36	65
D1105019	1.9	22	46	D1105034	3.4	39	70
D1105919	1.95	24	49	D1105934	3.45	39	70
D1105020	2.0	24	49	D1105035	3.5	39	70
D1105920	2.05	24	49	D1105935	3.55	39	70
D1105021	2.1	24	49	D1105036	3.6	39	70

◎ : Excellent ○ : Good

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

T/G STRAIGHT SHANK DRILLS

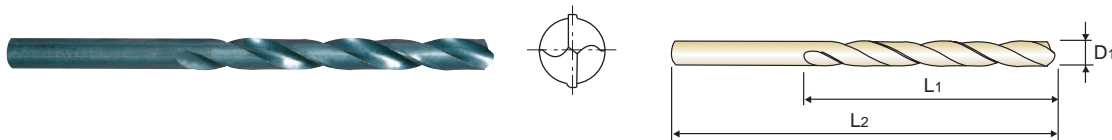
D1105 SERIES

HSS, STRAIGHT SHANK TWIST DRILLS
HSS, SPIRALBOHRER mit ZYLINDERSCHAFT

JOBBER
KURZ

- ▶ **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 2 mm
- ▶ **Verwendung** : Zum Bohren von Stahl und Stahlguß, Grauguß, Temperguß, Sphäroguß, Sintereisen, Graphite.



DIN 338 **HSS** **N 20~30°** **h8** **118°** **P.188**

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
D1105936	3.65	39	70	D1105951	5.15	52	86
D1105037	3.7	39	70	D1105052	5.2	52	86
D1105937	3.75	39	70	D1105952	5.25	52	86
D1105038	3.8	43	75	D1105053	5.3	52	86
D1105938	3.85	43	75	D1105953	5.35	57	93
D1105039	3.9	43	75	D1105054	5.4	57	93
D1105939	3.95	43	75	D1105954	5.45	57	93
D1105040	4.0	43	75	D1105055	5.5	57	93
D1105940	4.05	43	75	D1105955	5.55	57	93
D1105041	4.1	43	75	D1105056	5.6	57	93
D1105941	4.15	43	75	D1105956	5.65	57	93
D1105042	4.2	43	75	D1105057	5.7	57	93
D1105942	4.25	43	75	D1105957	5.75	57	93
D1105043	4.3	47	80	D1105058	5.8	57	93
D1105943	4.35	47	80	D1105958	5.85	57	93
D1105044	4.4	47	80	D1105059	5.9	57	93
D1105944	4.45	47	80	D1105959	5.95	57	93
D1105045	4.5	47	80	D1105060	6.0	57	93
D1105945	4.55	47	80	D1105960	6.05	63	101
D1105046	4.6	47	80	D1105061	6.1	63	101
D1105946	4.65	47	80	D1105961	6.15	63	101
D1105047	4.7	47	80	D1105062	6.2	63	101
D1105947	4.75	47	80	D1105962	6.25	63	101
D1105048	4.8	52	86	D1105063	6.3	63	101
D1105948	4.85	52	86	D1105963	6.35	63	101
D1105049	4.9	52	86	D1105064	6.4	63	101
D1105949	4.95	52	86	D1105964	6.45	63	101
D1105050	5.0	52	86	D1105065	6.5	63	101
D1105950	5.05	52	86	D1105965	6.55	63	101
D1105051	5.1	52	86	D1105066	6.6	63	101

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



STRAIGHT SHANK DRILLS

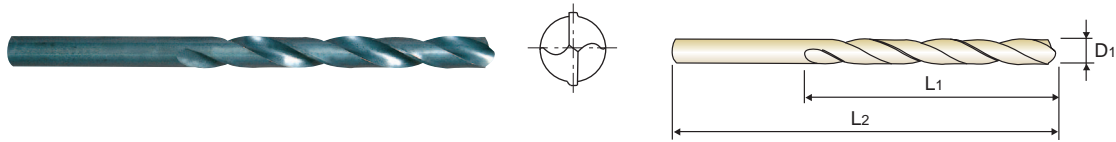
D1105 SERIES

HSS, STRAIGHT SHANK TWIST DRILLS HSS, SPIRALBOHRER mit ZYLINDERSCHAFT

JOBBER**KURZ**

- ▶ **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 2 mm
- ▶ **Verwendung** : Zum Bohren von Stahl und Stahlguß, Grauguß, Temperguß, Sphäroguß, Sintereisen, Graphite.



DIN 338
HSS
N 20~30°
h8
118°
P.188

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
D1105966	6.65	63	101	D1105982	8.25	75	117
D1105067	6.7	63	101	D1105083	8.3	75	117
D1105967	6.75	69	109	D1105084	8.4	75	117
D1105068	6.8	69	109	D1105085	8.5	75	117
D1105968	6.85	69	109	D1105086	8.6	81	125
D1105069	6.9	69	109	D1105087	8.7	81	125
D1105969	6.95	69	109	D1105987	8.75	81	125
D1105070	7.0	69	109	D1105088	8.8	81	125
D1105970	7.05	69	109	D1105089	8.9	81	125
D1105071	7.1	69	109	D1105090	9.0	81	125
D1105971	7.15	69	109	D1105091	9.1	81	125
D1105072	7.2	69	109	D1105092	9.2	81	125
D1105972	7.25	69	109	D1105992	9.25	81	125
D1105073	7.3	69	109	D1105093	9.3	81	125
D1105973	7.35	69	109	D1105094	9.4	81	125
D1105074	7.4	69	109	D1105095	9.5	81	125
D1105974	7.45	69	109	D1105096	9.6	87	133
D1105075	7.5	69	109	D1105097	9.7	87	133
D1105975	7.55	75	117	D1105997	9.75	87	133
D1105076	7.6	75	117	D1105098	9.8	87	133
D1105976	7.65	75	117	D1105099	9.9	87	133
D1105077	7.7	75	117	D1105100	10.0	87	133
D1105977	7.75	75	117	D1105101	10.1	87	133
D1105078	7.8	75	117	D1105102	10.2	87	133
D1105978	7.85	75	117	D1105802	10.25	87	133
D1105079	7.9	75	117	D1105103	10.3	87	133
D1105979	7.95	75	117	D1105104	10.4	87	133
D1105080	8.0	75	117	D1105105	10.5	87	133
D1105081	8.1	75	117	D1105106	10.6	87	133
D1105082	8.2	75	117	D1105107	10.7	94	142

◎ : Excellent ○ : Good

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		Cast Iron	Aluminum	Stainless Steels	Titanium	Mild Steels	Copper	Bronze
~HB225	HB225~325	HRC30~45	HRC45~55	HRC55~							
◎	◎				○	○	○	○	○		

Y/G STRAIGHT SHANK DRILLS

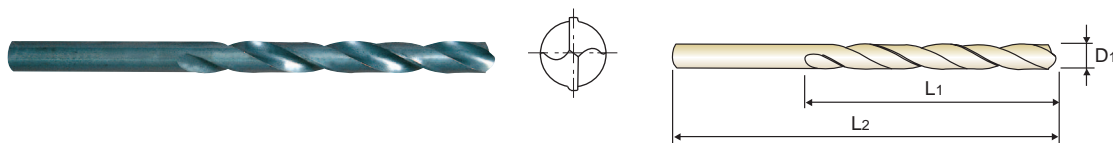
D1105 SERIES

HSS, STRAIGHT SHANK TWIST DRILLS HSS, SPIRALBOHRER mit ZYLINDERSCHAFT

JOBBER
KURZ

- ▶ **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 2 mm
- ▶ **Verwendung** : Zum Bohren von Stahl und Stahlguß, Grauguß, Temperguß, Sphäroguß, Sintereisen, Graphite.



DIN 338
HSS
N 20~30°
h8
118°
P.188

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
D1105807	10.75	94	142	D1105832	13.25	108	160
D1105108	10.8	94	142	D1105135	13.5	108	160
D1105109	10.9	94	142	D1105837	13.75	108	160
D1105110	11.0	94	142	D1105140	14.0	108	160
D1105111	11.1	94	142	D1105842	14.25	114	169
D1105112	11.2	94	142	D1105145	14.5	114	169
D1105812	11.25	94	142	D1105847	14.75	114	169
D1105113	11.3	94	142	D1105150	15.0	114	169
D1105114	11.4	94	142	D1105852	15.25	120	178
D1105115	11.5	94	142	D1105155	15.5	120	178
D1105116	11.6	94	142	D1105857	15.75	120	178
D1105117	11.7	94	142	D1105160	16.0	120	178
D1105817	11.75	94	142	D1105862	16.25	125	184
D1105118	11.8	94	142	D1105165	16.5	125	184
D1105119	11.9	101	151	D1105867	16.75	125	184
D1105120	12.0	101	151	D1105170	17.0	125	184
D1105121	12.1	101	151	D1105872	17.25	130	191
D1105122	12.2	101	151	D1105175	17.5	130	191
D1105822	12.25	101	151	D1105877	17.75	130	191
D1105123	12.3	101	151	D1105180	18.0	130	191
D1105124	12.4	101	151	D1105882	18.25	135	198
D1105125	12.5	101	151	D1105185	18.5	135	198
D1105126	12.6	101	151	D1105887	18.75	135	198
D1105127	12.7	101	151	D1105190	19.0	135	198
D1105827	12.75	101	151	D1105892	19.25	140	205
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

◎ : Excellent ○ : Good

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



STRAIGHT SHANK DRILLS

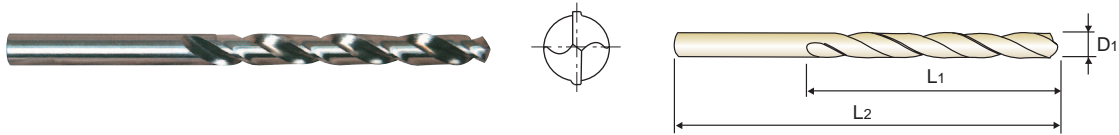
D1125 SERIES

HSS, STRAIGHT SHANK TWIST DRILLS HSS, SPIRALBOHRER mit ZYLINDERSCHAFT

JOBBER**KURZ**

► **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, Sinter Eisen, Graphite.



DIN 338
HSS
N 20~30°
h8
118°
P.188

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1				D1		
D1125020	2.0	24	49	D1125045	4.5	47	80
D1125021	2.1	24	49	D1125046	4.6	47	80
D1125022	2.2	27	53	D1125047	4.7	47	80
D1125023	2.3	27	53	D1125048	4.8	52	86
D1125024	2.4	30	57	D1125049	4.9	52	86
D1125025	2.5	30	57	D1125050	5.0	52	86
D1125026	2.6	30	57	D1125051	5.1	52	86
D1125027	2.7	33	61	D1125052	5.3	52	86
D1125028	2.8	33	61	D1125053	5.3	52	86
D1125029	2.9	33	61	D1125054	5.4	57	93
D1125030	3.0	33	61	D1125055	5.5	57	93
D1125031	3.1	36	65	D1125056	5.6	57	93
D1125032	3.2	36	65	D1125057	5.7	57	93
D1125033	3.3	36	65	D1125058	5.8	57	93
D1125034	3.4	39	70	D1125059	5.9	57	93
D1125035	3.5	39	70	D1125060	6.0	57	93
D1125036	3.6	39	70	D1125061	6.1	63	101
D1125037	3.7	39	70	D1125062	6.2	63	101
D1125038	3.8	43	75	D1125063	6.3	63	101
D1125039	3.9	43	75	D1125064	6.4	63	101
D1125040	4.0	43	75	D1125065	6.5	63	101
D1125041	4.1	43	75	D1125066	6.6	63	101
D1125042	4.2	43	75	D1125067	6.7	63	101
D1125043	4.3	47	80	D1125068	6.8	69	109
D1125044	4.4	47	80	D1125069	6.9	69	109

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

YG STRAIGHT SHANK DRILLS

D1125 SERIES

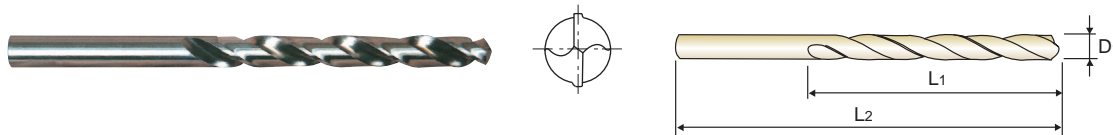
HSS, STRAIGHT SHANK TWIST DRILLS HSS, SPIRALBOHRER mit ZYLINDERSCHAFT

JOBBER

KURZ

► **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, Sphärguß, Sintereisen, Graphite.



DIN 338 **HSS** **N 20~30°** **h8** **118°** **P.188**

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
D1125070	7.0	69	109	D1125095	9.5	81	125
D1125071	7.1	69	109	D1125096	9.6	87	133
D1125072	7.2	69	109	D1125097	9.7	87	133
D1125073	7.3	69	109	D1125098	9.8	87	133
D1125074	7.4	69	109	D1125099	9.9	87	133
D1125075	7.5	69	109	D1125100	10.0	87	133
D1125076	7.6	75	117	D1125101	10.1	87	133
D1125077	7.7	75	117	D1125102	10.2	87	133
D1125078	7.8	75	117	D1125103	10.3	87	133
D1125079	7.9	75	117	D1125104	10.4	87	133
D1125080	8.0	75	117	D1125105	10.5	87	133
D1125081	8.1	75	117	D1125106	10.6	87	133
D1125082	8.2	75	117	D1125107	10.7	94	142
D1125083	8.3	75	117	D1125108	10.8	94	142
D1125084	8.4	75	117	D1125109	10.9	94	142
D1125085	8.5	75	117	D1125110	11.0	94	142
D1125086	8.6	81	125	D1125111	11.1	94	142
D1125087	8.7	81	125	D1125112	11.2	94	142
D1125088	8.8	81	125	D1125113	11.3	94	142
D1125089	8.9	81	125	D1125114	11.4	94	142
D1125090	9.0	81	125	D1125115	11.5	94	142
D1125091	9.1	81	125	D1125116	11.6	94	142
D1125092	9.2	81	125	D1125117	11.7	94	142
D1125093	9.3	81	125	D1125118	11.8	94	142
D1125094	9.4	81	125	D1125119	11.9	101	151

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



STRAIGHT SHANK DRILLS

D1125 SERIES

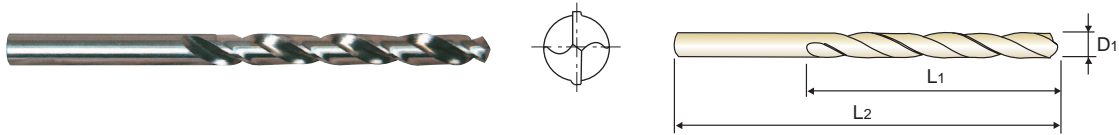
HSS, STRAIGHT SHANK TWIST DRILLS HSS, SPIRALBOHRER mit ZYLINDERSCHAFT

JOBBER

KURZ

► **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, Sinter Eisen, Graphite.



DIN 338
HSS
N 20~30°
h8
118°
P.188

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
D1125120	12.0	101	151	D1125140	14.0	108	160
D1125121	12.1	101	151	D1125145	14.5	114	169
D1125122	12.2	101	151	D1125150	15.0	114	169
D1125123	12.3	101	151	D1125155	15.5	120	178
D1125124	12.4	101	151	D1125160	16.0	120	178
D1125125	12.5	101	151	D1125165	16.5	125	184
D1125126	12.6	101	151	D1125170	17.0	125	184
D1125127	12.7	101	151	D1125175	17.5	130	191
D1125128	12.8	101	151	D1125180	18.0	130	191
D1125129	12.9	101	151	D1125185	18.5	135	198
D1125130	13.0	101	151	D1125190	19.0	135	198
D1125132	13.2	101	151	D1125195	19.5	140	205
D1125133	13.3	108	160	D1125200	20.0	140	205
D1125135	13.5	108	160				

◎ : Excellent ○ : Good

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		Cast Iron	Aluminum	Stainless Steels	Titanium	Mild Steels	Copper	Bronze
~HB225	HB225~325	HRC30~45	HRC45~55	HRC55~							
◎	◎				○	○	○	○	○		

CARBIDE

HSS

i-DREAM DRILLS

DREAM DRILLS -GENERAL

DREAM DRILLS -INOX

DREAM DRILLS -MQL TYPE

DREAM DRILLS for HARDENED STEELS

GENERAL CARBIDE DRILLS

NC-SPOTTING DRILLS

MULTI-1 DRILLS

HPD DRILLS

GOLD-P DRILLS

WORM PATTERN DRILLS

STRAIGHT SHANK DRILLS

TAPER SHANK DRILLS

NC-SPOTTING DRILLS

CENTER DRILLS

SPADE DRILLS

TECHNICAL DATA

Y/G STRAIGHT SHANK DRILLS

D2104 SERIES

HSSCo8, STRAIGHT SHANK TWIST DRILLS

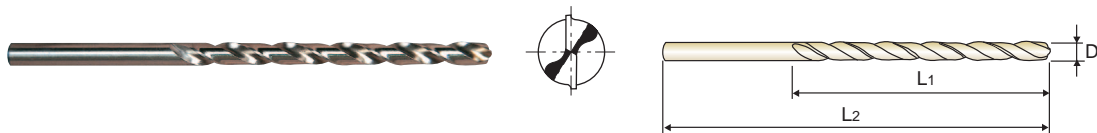
LONG

HSSCo8, SPIRALBOHRER mit ZYLINDERSCHAFT

LANG

- ▶ **Surface treatment** : Coloring(Gold color)
- ▶ **Application** : Drilling deep holes in stainless steels and difficult - to - cut materials such as titanium and inconel.

- ▶ **Oberflächenbehandlung** : Coloring(Goldfarbe)
- ▶ **Verwendung** : Für Bohrarbeiten mit Bohrungen oder an tief liegenden Stellen. Zum Bohren von rostfreien und austenitischen Stählen, schwerzerspanbaren Werkstoffen wie Titan und Inconel.



DIN 340
HSS Co8
N 33°
h8
135°
P.188

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
D2104020	2.0	56	85	D2104047	14.7	82	126
D2104021	2.1	56	85	D2104048	4.8	87	132
D2104022	2.2	59	90	D2104049	4.9	87	132
D2104023	2.3	59	90	D2104050	5.0	87	132
D2104024	2.4	62	95	D2104051	5.1	87	132
D2104025	2.5	62	95	D2104052	5.2	87	132
D2104026	2.6	62	95	D2104053	5.3	87	132
D2104027	2.7	66	100	D2104054	5.4	91	139
D2104028	2.8	66	100	D2104055	5.5	91	139
D2104029	2.9	66	100	D2104056	5.6	91	139
D2104030	3.0	66	100	D2104057	5.7	91	139
D2104031	3.1	69	106	D2104058	5.8	91	139
D2104032	3.2	69	106	D2104059	5.9	91	139
D2104033	3.3	69	106	D2104060	6.0	91	139
D2104034	3.4	73	112	D2104061	6.1	97	148
D2104035	3.5	73	112	D2104062	6.2	97	148
D2104036	3.6	73	112	D2104063	6.3	97	148
D2104037	3.7	73	112	D2104064	6.4	97	148
D2104038	3.8	78	119	D2104065	6.5	97	148
D2104039	3.9	78	119	D2104066	6.6	97	148
D2104040	4.0	78	119	D2104067	6.7	97	148
D2104041	4.1	78	119	D2104068	6.8	102	156
D2104042	4.2	78	119	D2104069	6.9	102	156
D2104043	4.3	82	126	D2104070	7.0	102	156
D2104044	4.4	82	126	D2104071	7.1	102	156
D2104045	4.5	82	126	D2104072	7.2	102	156
D2104046	4.6	82	126	D2104073	7.3	102	156

- ▶ HSS-E(DL104) is available on your request.
- ▶ TiN(D4104), TiCN(D7104) and TiAlN(DQ104) are available on your request.

◎ : Excellent ○ : Good

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



STRAIGHT SHANK DRILLS

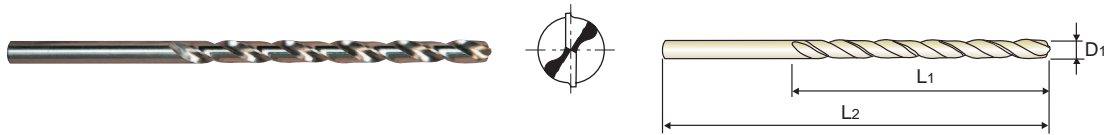
D2104 SERIES

HSSCo8, STRAIGHT SHANK TWIST DRILLS HSSCo8, SPIRALBOHRER mit ZYLINDERSCHAFT

LONG
LANG

► **Surface treatment** : Coloring(Gold color)
 ► **Application** : Drilling deep holes in stainless steels and difficult - to - cut materials such as titanium and inconel.

► **Oberflächenbehandlung** : Coloring(Goldfarbe)
 ► **Verwendung** : Für Bohrarbeiten mit Bohrbuchsen oder an tief liegenden Stellen. 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
D2104074	7.4	102	156	D2104092	9.2	115	175
D2104075	7.5	102	156	D2104093	9.3	115	175
D2104076	7.6	109	165	D2104094	9.4	115	175
D2104077	7.7	109	165	D2104095	9.5	115	175
D2104078	7.8	109	165	D2104096	9.6	121	184
D2104079	7.9	109	165	D2104097	9.7	121	184
D2104080	8.0	109	165	D2104098	9.8	121	184
D2104081	8.1	109	165	D2104099	9.9	121	184
D2104082	8.2	109	165	D2104100	10.0	121	184
D2104083	8.3	109	165	D2104102	10.2	121	184
D2104084	8.4	109	165	D2104105	10.5	121	184
D2104085	8.5	109	165	D2104108	10.8	128	195
D2104086	8.6	115	175	D2104110	11.0	128	195
D2104087	8.7	115	175	D2104112	11.2	128	195
D2104088	8.8	115	175	D2104115	11.5	128	195
D2104089	8.9	115	175	D2104118	11.8	128	195
D2104090	9.0	115	175	D2104120	12.0	134	205
D2104091	9.1	115	175				

► HSS-E(DL104) is available on your request.
 ► TiN(D4104), TiCN(D7104) and TiAlN(DQ104) are available on your request.

◎ : Excellent ○ : Good

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

CARBIDE

HSS

i-DREAM DRILLS

DREAM DRILLS -GENERAL

DREAM DRILLS -INOX

DREAM DRILLS -MQL TYPE

DREAM DRILLS for HARDENED STEELS

GENERAL CARBIDE DRILLS

NC-SPOTTING DRILLS

MULTI-1 DRILLS

HPD DRILLS

GOLD-P DRILLS

WORM PATTERN DRILLS

STRAIGHT SHANK DRILLS

TAPER SHANK DRILLS

NC-SPOTTING DRILLS

CENTER DRILLS

SPADE DRILLS

TECHNICAL DATA

YG STRAIGHT SHANK DRILLS

D1121 SERIES

HSS, STRAIGHT SHANK TWIST DRILLS HSS, SPIRALBOHRER mit ZYLINDERSCHAFT

EXTRA LONG
ÜBERLANG

► **Surface treatment** : Steam Tempered(Black Oxide Finish)
 ► **Application** : Designed for drilling deep holes or deeply located holes
 Drilling steels, cast steels alloyed and non-alloyed, grey cast iron, malleable cast iron and graphite.

► **Oberflächenbehandlung** : Steam Homo(Schwarzoxidation)
 ► **Verwendung** : Standardbohrer zum Bohren extrem tiefer Löcher, zum Bohren von Stahl und Stahlguß, Grauguß, Temperguß, Sphäroguß, Sintereisen, Graphit.



Unit : mm

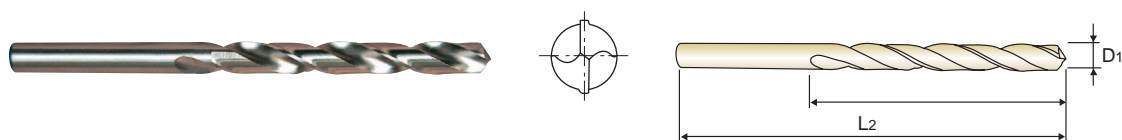
EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
D1121020	2.0	85	125	D1121070	7.0	155	225
D1121922	2.25	90	135	D1121972	7.25	155	225
D1121025	2.5	95	140	D1121075	7.5	155	225
D1121927	2.75	100	150	D1121977	7.75	165	240
D1121030	3.0	100	150	D1121080	8.0	165	240
D1121932	3.25	105	155	D1121982	8.25	165	240
D1121035	3.5	115	165	D1121085	8.5	165	240
D1121937	3.75	115	165	D1121987	8.75	175	250
D1121040	4.0	120	175	D1121090	9.0	175	250
D1121942	4.25	120	175	D1121992	9.25	175	250
D1121045	4.5	125	185	D1121095	9.5	175	250
D1121947	4.75	125	185	D1121997	9.75	185	265
D1121050	5.0	135	195	D1121100	10.0	185	265
D1121952	5.25	135	195	D1121105	10.5	185	265
D1121055	5.5	140	205	D1121110	11.0	195	280
D1121957	5.75	140	205	D1121115	11.5	195	280
D1121060	6.0	140	205	D1121120	12.0	205	295
D1121962	6.25	150	215	D1121125	12.5	205	295
D1121065	6.5	150	215	D1121130	13.0	205	295
D1121967	6.75	155	225				

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

HSS-E, STRAIGHT SHANK TWIST DRILLS for HEAVY DUTY JOBBER HSS-E, SPIRALBOHRER für HOHE LEISTUNGEN mit ZYLINDERSCHAFT KURZ

► **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, Graphit.



DIN 338
HSS-E
N 20~30°
h8
118°
P.188

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1				L1		
DL109015	1.5	18	40	DL109967	6.75	69	109
DL109917	1.75	22	46	DL109070	7.0	69	109
DL109020	2.0	24	49	DL109972	7.25	69	109
DL109922	2.25	27	53	DL109075	7.5	69	109
DL109025	2.5	30	57	DL109977	7.75	75	117
DL109927	2.75	33	61	DL109080	8.0	75	117
DL109030	3.0	33	61	DL109982	8.25	75	117
DL109932	3.25	36	65	DL109085	8.5	75	117
DL109035	3.5	39	70	DL109987	8.75	81	125
DL109937	3.75	39	70	DL109090	9.0	81	125
DL109040	4.0	43	75	DL109992	9.25	81	125
DL109942	4.25	43	75	DL109095	9.5	81	125
DL109045	4.5	47	80	DL109997	9.75	87	133
DL109947	4.75	47	80	DL109100	10.0	87	133
DL109050	5.0	52	86	DL109105	10.5	87	133
DL109952	5.25	52	86	DL109110	11.0	94	142
DL109055	5.5	57	93	DL109115	11.5	94	142
DL109957	5.75	57	93	DL109120	12.0	101	151
DL109060	6.0	57	93	DL109125	12.5	101	151
DL109962	6.25	63	101	DL109130	13.0	101	151
DL109065	6.5	63	101				

► TiN(DN109), TiCN(DX109) and TiAlN(DT109) are available on your request.

◎ : Excellent ○ : Good

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

YG STRAIGHT SHANK DRILLS

D1100 SERIES

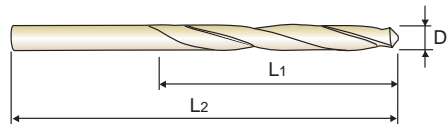
HSS, STRAIGHT SHANK TWIST DRILLS for BRASS

JOBBER

HSS, SPIRALBOHRER für HOHE LEISTUNGEN mit ZYLINDERSCHAFT KURZ

► **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°
P.189

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
D1100015	1.5	18	40	D1100043	4.3	47	80
D1100016	1.6	20	43	D1100044	4.4	47	80
D1100017	1.7	20	43	D1100045	4.5	47	80
D1100018	1.8	22	46	D1100046	4.6	47	80
D1100019	1.9	22	46	D1100047	4.7	47	80
D1100020	2.0	24	49	D1100048	4.8	52	86
D1100021	2.1	24	49	D1100049	4.9	52	86
D1100022	2.2	27	53	D1100050	5.0	52	86
D1100023	2.3	27	53	D1100051	5.1	52	86
D1100024	2.4	30	57	D1100052	5.2	52	86
D1100025	2.5	30	57	D1100053	5.3	52	86
D1100026	2.6	30	57	D1100054	5.4	57	93
D1100027	2.7	33	61	D1100055	5.5	57	93
D1100028	2.8	33	61	D1100056	5.6	57	93
D1100029	2.9	33	61	D1100057	5.7	57	93
D1100030	3.0	33	61	D1100058	5.8	57	93
D1100031	3.1	36	65	D1100059	5.9	57	93
D1100032	3.2	36	65	D1100060	6.0	57	93
D1100033	3.3	36	65	D1100061	6.1	63	101
D1100034	3.4	39	70	D1100062	6.2	63	101
D1100035	3.5	39	70	D1100063	6.3	63	101
D1100036	3.6	39	70	D1100064	6.4	63	101
D1100037	3.7	39	70	D1100065	6.5	63	101
D1100038	3.8	43	75	D1100066	6.6	63	101
D1100039	3.9	43	75	D1100067	6.7	63	101
D1100040	4.0	43	75	D1100068	6.8	69	109
D1100041	4.1	43	75	D1100069	6.9	69	109
D1100042	4.2	43	75	D1100070	7.0	69	109

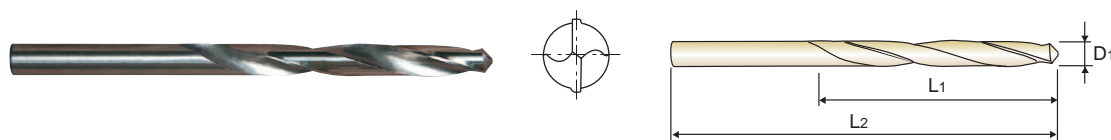
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		Cast Iron	Aluminum	Stainless Steels	Titanium	Mild Steels	Copper	Bronze
~HB225	HB225~325	HRc30~45	HRc45~55	HRc55~							
											◎

◎ : Excellent ○ : Good

HSS, STRAIGHT SHANK TWIST DRILLS for BRASS JOBBER HSS, SPIRALBOHRER für HOHE LEISTUNGEN mit ZYLINDERSCHAFT KURZ

► **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°
P.189

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
D1100071	7.1	69	109	D1100089	8.9	81	125
D1100072	7.2	69	109	D1100090	9.0	81	125
D1100073	7.3	69	109	D1100091	9.1	81	125
D1100074	7.4	69	109	D1100092	9.2	81	125
D1100075	7.5	69	109	D1100093	9.3	81	125
D1100076	7.6	75	117	D1100094	9.4	81	125
D1100077	7.7	75	117	D1100095	9.5	81	125
D1100078	7.8	75	117	D1100096	9.6	87	133
D1100079	7.9	75	117	D1100097	9.7	87	133
D1100080	8.0	75	117	D1100098	9.8	87	133
D1100081	8.1	75	117	D1100099	9.9	87	133
D1100082	8.2	75	117	D1100100	10.0	87	133
D1100083	8.3	75	117	D1100105	10.5	87	133
D1100084	8.4	75	117	D1100110	11.0	94	142
D1100085	8.5	75	117	D1100115	11.5	94	142
D1100086	8.6	81	125	D1100120	12.0	101	151
D1100087	8.7	81	125	D1100125	12.5	101	151
D1100088	8.8	81	125	D1100130	13.0	101	151

◎ : Excellent ○ : Good

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		Cast Iron	Aluminum	Stainless Steels	Titanium	Mild Steels	Copper	Bronze
~HB225	HB225~325	HRC30~45	HRC45~55	HRC55~							
											◎

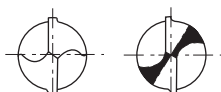
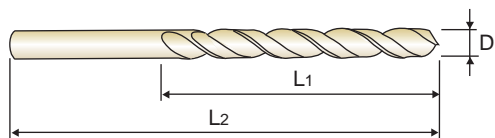
YG STRAIGHT SHANK DRILLS

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 and magnesium alloys.

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



up to 1.5mm over 1.5mm

DIN 338
HSS
W 38°
h8
135°
P.189

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
~HB225	HB225~325	HRc30~45	HRc45~55	HRc55~							
						◎					○



STRAIGHT SHANK DRILLS

D1106 SERIES

HSS, STRAIGHT SHANK TWIST DRILLS for ALUMINUM

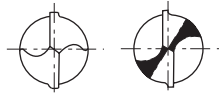
JOBBER

HSS, SPIRALBOHRER für ALUMINIUM mit ZYLINDERSCHAFT

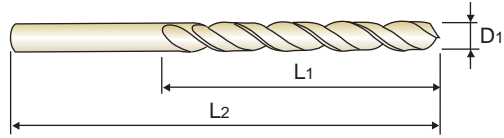
KURZ

► **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.



up to 1.5mm over 1.5mm

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

P.189

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

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		Cast Iron	Aluminum	Stainless Steels	Titanium	Mild Steels	Copper	Bronze
~HB225	HB225~325	HRC30~45	HRC45~55	HRC55~							
						◎					○

CARBIDE

HSS

I-DREAM DRILLS

DREAM DRILLS -GENERAL

DREAM DRILLS -INOX

DREAM DRILLS -MQL TYPE

DREAM DRILLS for HARDENED STEELS

GENERAL CARBIDE DRILLS

NC-SPOTTING DRILLS

MULTI-1 DRILLS

HPD DRILLS

GOLD-P DRILLS

WORM PATTERN DRILLS

STRAIGHT SHANK DRILLS

TAPER SHANK DRILLS

NC-SPOTTING DRILLS

CENTER DRILLS

SPADE DRILLS

TECHNICAL DATA



STRAIGHT SHANK DRILLS

RECOMMENDED CUTTING CONDITIONS
EMPFOHLENE SCHNEIDKONDITIONEN

HSS & HSS 8% COBALT DRILLS, DIN1897, DIN338, DIN340, DIN1869 HSS & HSSCo8 SPIRALBOHRER, DIN 1897, DIN 338, DIN 340, DIN 1869

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

Unit : mm

WORK MATERIAL	CARBON STEELS		CARBON STEELS		CARBON STEELS		ALLOY STEELS		ALLOY STEELS		STAINLESS STEELS		TITANIUM ALLOYS	
	HARDNESS		~ HRc23		~ HRc23 ~ 28		HRc23 ~ 34		HRc34 ~ 38		HRc23			
STRENGTH	~ 570 N/mm ²		~ 830 N/mm ²		830 ~ 950 N/mm ²		830 ~ 1110 N/mm ²		1110 ~ 1260 N/mm ²		830 N/mm ²		410 N/mm ²	
DIAMETER	N	S	N	S	N	S	N	S	N	S	N	S	N	S
2.5	3380	0.025	2550	0.025	1900	0.015	2380	0.020	1400	0.015	2550	0.025	1400	0.020
3	2700	0.050	2000	0.050	1500	0.025	1880	0.050	1100	0.020	2000	0.050	1100	0.025
5	1700	0.063	1280	0.063	960	0.038	1190	0.063	700	0.025	1280	0.063	700	0.038
8	1050	0.130	780	0.130	590	0.076	730	0.130	430	0.038	780	0.130	430	0.076
11	750	0.150	560	0.150	425	0.076	520	0.180	310	0.050	560	0.150	430	0.076
19	440	0.230	330	0.230	255	0.130	300	0.230	180	0.050	330	0.230	180	0.130
31	260	0.280	195	0.280	145	0.180	180	0.180	107	0.076	195	0.280	107	0.180

WORK MATERIAL	TOOL STEELS		CAST IRON		ALUMINUM ALLOYS		MAGNESIUM ALLOYS		ZINC ALLOYS		PLASTICS	
	HARDNESS		~ HRc21									
STRENGTH	~ 270 N/mm ²		~ 800 N/mm ²									
DIAMETER	N	S	N	S	N	S	N	S	N	S	N	S
2.5	3180	0.042	2250	0.025	6400	0.038	8600	0.038	6400	0.038	3380	0.025
3	2500	0.050	2000	0.050	5000	0.063	6800	0.063	5000	0.063	2700	0.050
5	1590	0.063	1280	0.063	3200	0.076	4300	0.076	3200	0.076	1700	0.063
8	970	0.130	780	0.130	2000	0.180	2600	0.180	2000	0.180	1050	0.130
11	700	0.180	560	0.150	1400	0.200	1900	0.200	1400	0.200	750	0.150
19	440	0.230	330	0.230	820	0.300	1100	0.300	820	0.300	440	0.230
31	240	0.300	195	0.280	490	0.380	660	0.380	490	0.380	260	0.280

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

HSS-E, TWIST DRILLS for HEAVY DUTY, DIN338 HSS-E, SPIRALBOHRER für HOHELEISTUNGEN, DIN 338

DL109 SERIES

Unit : mm

WORK MATERIAL	CARBON STEELS		CARBON STEELS		CARBON STEELS		ALLOY STEELS		ALLOY STEELS		STAINLESS STEELS		CAST IRON	
	HARDNESS		~ HRc23		~ HRc23 ~ 28		HRc23 ~ 34		HRc34 ~ 38		HRc23		HRc21	
STRENGTH	~ 570 N/mm ²		~ 830 N/mm ²		830 ~ 950 N/mm ²		830 ~ 1110 N/mm ²		1110 ~ 1260 N/mm ²		830 N/mm ²		800 N/mm ²	
DIAMETER	N	S	N	S	N	S	N	S	N	S	N	S	N	S
2	5000	0.03	3750	0.03	2850	0.02	3500	0.02	2070	0.02	5000	0.03	5000	0.03
3	3750	0.04	2810	0.04	2150	0.02	2625	0.04	1560	0.02	3750	0.04	3750	0.04
4	2500	0.06	1870	0.06	1450	0.03	1750	0.06	1050	0.02	2500	0.06	2500	0.06
5	2085	0.07	1560	0.07	1205	0.04	1460	0.07	870	0.03	2085	0.07	2085	0.07
6	1670	0.08	1250	0.08	960	0.05	1170	0.09	690	0.03	1670	0.08	1670	0.08
7	1460	0.10	1095	0.10	840	0.06	1025	0.11	605	0.03	1460	0.10	1460	0.10
8	1250	0.13	940	0.13	720	0.08	880	0.13	520	0.04	1250	0.13	1250	0.13
9	1125	0.14	845	0.14	645	0.08	790	0.15	465	0.04	1125	0.14	1125	0.14
10	1000	0.14	750	0.14	570	0.08	700	0.16	410	0.05	1000	0.14	1000	0.14
11	925	0.15	685	0.15	525	0.08	640	0.18	380	0.05	925	0.15	925	0.15
12	850	0.16	620	0.16	480	0.08	580	0.19	350	0.05	850	0.16	850	0.16
13	785	0.17	575	0.17	445	0.09	540	0.20	325	0.05	785	0.17	785	0.17

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

HSS, TWIST DRILLS for BRASS, DIN 338
HSS, SPIRALBOHRER für MESSING, DIN338
D1100 SERIES

Unit : mm

WORK MATERIAL	BRASS	
	N	S
DIAMETER		
2	8750	0.08
3	5850	0.10
4	4400	0.12
5	3500	0.14
6	2900	0.16
7	2500	0.18
8	2200	0.20
9	1950	0.22
10	1750	0.25
11	1600	0.27
12	1450	0.29
13	1350	0.32

N = R.P.M

S = Feed per Revolution (mm/rev.)

HSS, TWIST DRILLS for ALUMINUM, DIN338
HSS, SPIRALBOHRER für ALUMINIUM, DIN338
D1106 SERIES

Unit : mm

WORK MATERIAL	LONG CHIP ALUMINUM ALLOYS		SHORT CHIP ALUMINUM ALLOYS	
	N	S	N	S
DIAMETER				
2	7950	0.08	5550	0.06
3	5300	0.10	3700	0.07
4	4000	0.12	2800	0.08
5	3200	0.14	2230	0.09
6	2650	0.16	1850	0.10
7	2250	0.18	1600	0.11
8	2000	0.20	1400	0.12
9	1750	0.22	1250	0.14
10	1600	0.25	1100	0.16
11	1450	0.28	1000	0.18
12	1330	0.32	930	0.20
13	1220	0.35	860	0.22

N = R.P.M

S = Feed per Revolution (mm/rev.)