STRAIGHT SHANK DRILLS

D1105 SERIES

HSS, STRAIGHT SHANK TWIST DRILLS

JOBBER

HSS, SPIRALBOHRER mit ZYLINDERSCHAFT — *KURZ*

Forets HSS, queue cylindrique, série courte — *COURTE*

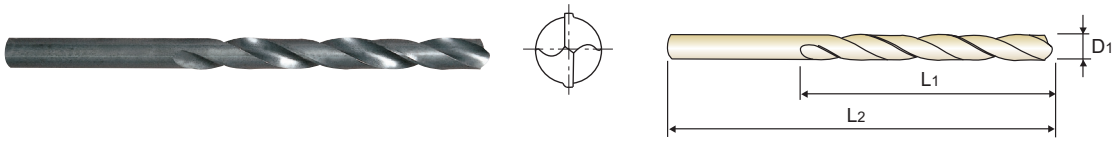
PUNTE ELICOIDALI, GAMBO CILINDRICO, HSS — *CORTA*

▶**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(Scwarzoxidation)
Helle Beschaffenheit unter 2mm

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



DIN 338 | HSS | N 20~30° | h8 | 118° | Vap

p.A262

Recommended ToolHolder — Plain Shank — ER COLLET CHUCK

Unit : mm

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length 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
D1105910	1.05	12	34
D1105011	1.1	14	36
D1105911	1.15	14	36
D1105012	1.2	16	38
D1105912	1.25	16	38
D1105013	1.3	16	38
D1105913	1.35	18	40
D1105014	1.4	18	40
D1105914	1.45	18	40
D1105015	1.5	18	40
D1105915	1.55	20	43
D1105016	1.6	20	43
D1105916	1.65	20	43
D1105017	1.7	20	43
D1105917	1.75	22	46
D1105018	1.8	22	46
D1105918	1.85	22	46
D1105019	1.9	22	46

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2
D1105919	1.95	24	49
D1105020	2.0	24	49
D1105920	2.05	24	49
D1105021	2.1	24	49
D1105921	2.15	27	53
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

▶ 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	○	○	○						○							○					

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PUNTE ELICOIDALI, GAMBO CILINDRICO, HSS — *CORTA*

▶**Surface treatment** : Steam Tempered(Black Oxide Finish)
Bright Finish under 2mm

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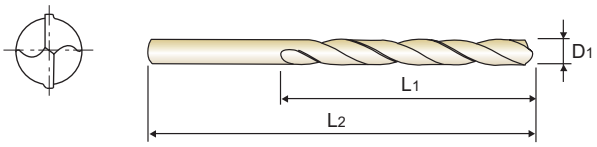
▶**Oberflächenbehandlung** : Steam Homo(Scwarzoxidation)
Helle Beschaffenheit unter 2mm

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





DIN 338 | HSS | N 20~30° | h8 | 118° | Vap | p.A262

Recommended ToolHolder — Plain Shank / ER COLLET CHUCK

Unit : mm

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2
D1105932	3.25	36	65
D1105033	3.3	36	65
D1105933	3.35	36	65
D1105034	3.4	39	70
D1105934	3.45	39	70
D1105035	3.5	39	70
D1105935	3.55	39	70
D1105036	3.6	39	70
D1105936	3.65	39	70
D1105037	3.7	39	70
D1105937	3.75	39	70
D1105038	3.8	43	75
D1105938	3.85	43	75
D1105039	3.9	43	75
D1105939	3.95	43	75
D1105040	4.0	43	75
D1105940	4.05	43	75
D1105041	4.1	43	75
D1105941	4.15	43	75
D1105042	4.2	43	75
D1105942	4.25	43	75
D1105043	4.3	47	80
D1105943	4.35	47	80
D1105044	4.4	47	80
D1105944	4.45	47	80
D1105045	4.5	47	80

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2
D1105945	4.55	47	80
D1105046	4.6	47	80
D1105946	4.65	47	80
D1105047	4.7	47	80
D1105947	4.75	47	80
D1105048	4.8	52	86
D1105948	4.85	52	86
D1105049	4.9	52	86
D1105949	4.95	52	86
D1105050	5.0	52	86
D1105950	5.05	52	86
D1105051	5.1	52	86
D1105951	5.15	52	86
D1105052	5.2	52	86
D1105952	5.25	52	86
D1105053	5.3	52	86
D1105953	5.35	57	93
D1105054	5.4	57	93
D1105954	5.45	57	93
D1105055	5.5	57	93
D1105955	5.55	57	93
D1105056	5.6	57	93
D1105956	5.65	57	93
D1105057	5.7	57	93
D1105957	5.75	57	93
D1105058	5.8	57	93

▶ 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	○	○	○						○							○					

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JOBBER

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Forets HSS, queue cylindrique, série courte — *COURTE*

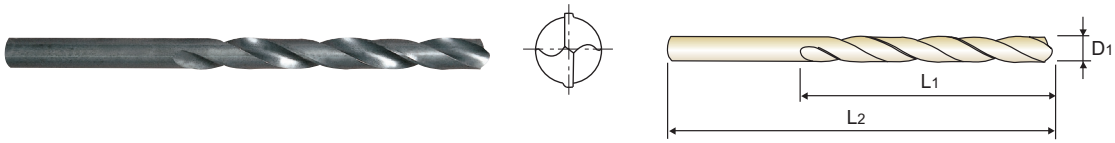
PUNTE ELICOIDALI, GAMBO CILINDRICO, HSS — *CORTA*

▶**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(Scwarzoxidation)
Helle Beschaffenheit unter 2mm

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



DIN 338 | HSS | N 20~30° | h8 | 118° | Vap | p.A262

Recommended ToolHolder — Plain Shank — ER COLLET CHUCK

Unit : mm

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2
D1105958	5.85	57	93
D1105059	5.9	57	93
D1105959	5.95	57	93
D1105060	6.0	57	93
D1105960	6.05	63	101
D1105061	6.1	63	101
D1105961	6.15	63	101
D1105062	6.2	63	101
D1105962	6.25	63	101
D1105063	6.3	63	101
D1105963	6.35	63	101
D1105064	6.4	63	101
D1105964	6.45	63	101
D1105065	6.5	63	101
D1105965	6.55	63	101
D1105066	6.6	63	101
D1105966	6.65	63	101
D1105067	6.7	63	101
D1105967	6.75	69	109
D1105068	6.8	69	109
D1105968	6.85	69	109
D1105069	6.9	69	109
D1105969	6.95	69	109
D1105070	7.0	69	109
D1105970	7.05	69	109
D1105071	7.1	69	109

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2
D1105971	7.15	69	109
D1105072	7.2	69	109
D1105972	7.25	69	109
D1105073	7.3	69	109
D1105973	7.35	69	109
D1105074	7.4	69	109
D1105974	7.45	69	109
D1105075	7.5	69	109
D1105975	7.55	75	117
D1105076	7.6	75	117
D1105976	7.65	75	117
D1105077	7.7	75	117
D1105977	7.75	75	117
D1105078	7.8	75	117
D1105978	7.85	75	117
D1105079	7.9	75	117
D1105979	7.95	75	117
D1105080	8.0	75	117
D1105081	8.1	75	117
D1105082	8.2	75	117
D1105982	8.25	75	117
D1105083	8.3	75	117
D1105084	8.4	75	117
D1105085	8.5	75	117
D1105086	8.6	81	125
D1105087	8.7	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	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	○	○	○						○							○					

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Forets HSS, queue cylindrique, série courte — *COURTE*
PUNTE ELICOIDALI, GAMBO CILINDRICO, HSS — *CORTA*

▶**Surface treatment** : Steam Tempered(Black Oxide Finish)
Bright Finish under 2mm

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Helle Beschaffenheit unter 2mm

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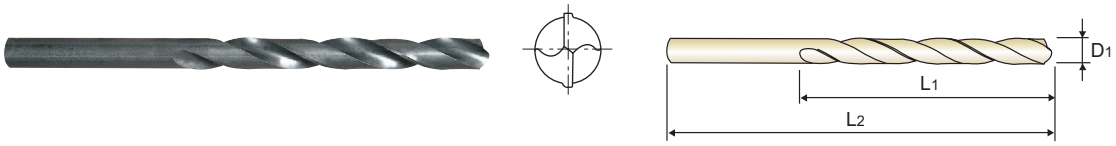

DIN 338 | HSS | N 20~30° | h8 | 118° | Vap

p.A262

Recommended ToolHolder — Plain Shank — ER COLLET CHUCK

Unit : mm

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2
D1105987	8.75	81	125
D1105088	8.8	81	125
D1105089	8.9	81	125
D1105090	9.0	81	125
D1105091	9.1	81	125
D1105092	9.2	81	125
D1105992	9.25	81	125
D1105093	9.3	81	125
D1105094	9.4	81	125
D1105095	9.5	81	125
D1105096	9.6	87	133
D1105097	9.7	87	133
D1105997	9.75	87	133
D1105098	9.8	87	133
D1105099	9.9	87	133
D1105100	10.0	87	133
D1105101	10.1	87	133
D1105102	10.2	87	133
D1105802	10.25	87	133
D1105103	10.3	87	133
D1105104	10.4	87	133
D1105105	10.5	87	133
D1105106	10.6	87	133
D1105107	10.7	94	142
D1105807	10.75	94	142
D1105108	10.8	94	142

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2
D1105109	10.9	94	142
D1105110	11.0	94	142
D1105111	11.1	94	142
D1105112	11.2	94	142
D1105812	11.25	94	142
D1105113	11.3	94	142
D1105114	11.4	94	142
D1105115	11.5	94	142
D1105116	11.6	94	142
D1105117	11.7	94	142
D1105817	11.75	94	142
D1105118	11.8	94	142
D1105119	11.9	101	151
D1105120	12.0	101	151
D1105121	12.1	101	151
D1105122	12.2	101	151
D1105822	12.25	101	151
D1105123	12.3	101	151
D1105124	12.4	101	151
D1105125	12.5	101	151
D1105126	12.6	101	151
D1105127	12.7	101	151
D1105827	12.75	101	151
D1105128	12.8	101	151
D1105129	12.9	101	151
D1105130	13.0	101	151

▶ 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	○	○	○						○							○					

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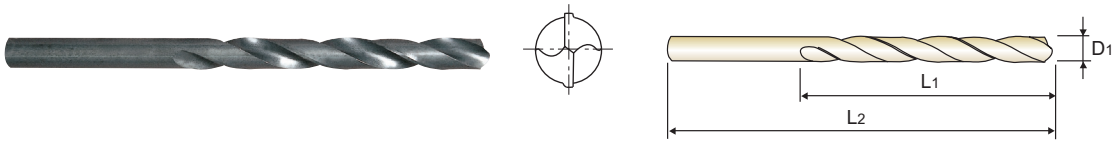
PUNTE ELICOIDALI, GAMBO CILINDRICO, HSS — *CORTA*

▶**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(Scwarzoxidation) Helle Beschaffenheit unter 2mm
▶**Verwendung** : Zum Bohren von Stahl und Stahlguß, Grauguß, Temperguß, Sphäroguß, Sintereisen, Graphite.



DIN 338 | HSS | N 20~30° | h8 | 118° | Vap

p.A262

Recommended ToolHolder — Plain Shank — ER COLLET CHUCK

Unit : mm

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2
D1105832	13.25	108	160
D1105135	13.5	108	160
D1105837	13.75	108	160
D1105140	14.0	108	160
D1105842	14.25	114	169
D1105145	14.5	114	169
D1105847	14.75	114	169
D1105150	15.0	114	169
D1105852	15.25	120	178
D1105155	15.5	120	178
D1105857	15.75	120	178
D1105160	16.0	120	178
D1105862	16.25	125	184
D1105165	16.5	125	184

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2
D1105867	16.75	125	184
D1105170	17.0	125	184
D1105872	17.25	130	191
D1105175	17.5	130	191
D1105877	17.75	130	191
D1105180	18.0	130	191
D1105882	18.25	135	198
D1105185	18.5	135	198
D1105887	18.75	135	198
D1105190	19.0	135	198
D1105892	19.25	140	205
D1105195	19.5	140	205
D1105897	19.75	140	205
D1105200	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		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	○	○	○						○							○					