SUPER-GP DRILLS

DSH105 SERIES

SUPER HSS, SUPER-GP DRILLS (DIN 338)

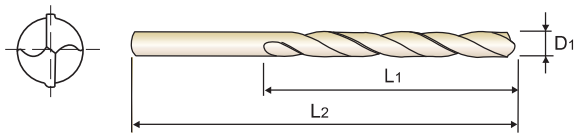
JOBBER

- SUPER HSS, SUPER-GP DRILLS (DIN 338) — **KURZ**
- Forets SUPER-GP Super HSS, queue cylindrique (DIN 338) — **COURTE**
- PUNTA SUPER-GP DRILL, IN SUPER-HSS, GAMBO CILINDRICO (DIN 338) — **CORTA**

▶Surface treatment: Steam Tempered (Black Oxide Finish)
▶Applications: Excellent tool performance in steels, cast iron, alloy steels and malleable cast iron.
▶Special HSS improves toughness, wear resistance as well as extends dramatically the tool life.
▶All applications regardless of machine condition: Good or Poor.

▶Oberflächenbehandlung: Dampfgehärtet (Schwarze Oxydschicht)
▶Anwendungen: Ausgezeichnete Leistung bei Stählen, Gusseisen, legierten Stählen und Temperguss.
▶Spezial-HSS verbessert Zähigkeit, Verschleissfestigkeit und verlängert drastisch die Standzeit.
▶Alle Anwendungen unabhängig vom Maschinenzustand: Gut oder schlecht.





DIN 338 | SUPER HSS | 30° | h8 | 118° | Vap

p.A214

Recommended ToolHolder: Plain Shank, ER COLLET CHUCK

Unit : mm

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2
* DSH105020	2.0	24	49
* DSH105021	2.1	24	49
* DSH105022	2.2	27	53
* DSH105023	2.3	27	53
* DSH105024	2.4	30	57
* DSH105025	2.5	30	57
* DSH105026	2.6	30	57
* DSH105027	2.7	33	61
* DSH105028	2.8	33	61
* DSH105029	2.9	33	61
* DSH105030	3.0	33	61
* DSH105031	3.1	36	65
* DSH105032	3.2	36	65
* DSH105033	3.3	36	65
* DSH105034	3.4	39	70
* DSH105035	3.5	39	70
* DSH105036	3.6	39	70
* DSH105037	3.7	39	70
* DSH105038	3.8	43	75
* DSH105039	3.9	43	75
* DSH105040	4.0	43	75
* DSH105041	4.1	43	75
* DSH105042	4.2	43	75
* DSH105043	4.3	47	80

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2
* DSH105044	4.4	47	80
* DSH105045	4.5	47	80
* DSH105046	4.6	47	80
* DSH105047	4.7	47	80
* DSH105048	4.8	52	86
* DSH105049	4.9	52	86
* DSH105050	5.0	52	86
* DSH105051	5.1	52	86
* DSH105052	5.2	52	86
* DSH105053	5.3	52	86
* DSH105054	5.4	57	93
* DSH105055	5.5	57	93
* DSH105056	5.6	57	93
* DSH105057	5.7	57	93
* DSH105058	5.8	57	93
* DSH105059	5.9	57	93
* DSH105060	6.0	57	93
* DSH105061	6.1	63	101
* DSH105062	6.2	63	101
* DSH105063	6.3	63	101
* DSH105064	6.4	63	101
* DSH105065	6.5	63	101
* DSH105066	6.6	63	101
* DSH105067	6.7	63	101

* 10pcs per package
** 5pcs per package

▶ 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	○	○	○						○							○					

SUPER-GP DRILLS

DSH105 SERIES

SUPER HSS, SUPER-GP DRILLS (DIN 338)

JOBBER

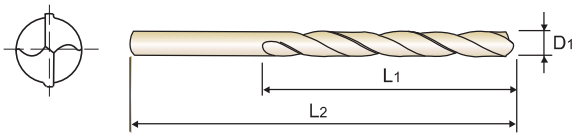
SUPER HSS, SUPER-GP DRILLS (DIN 338)
Forets SUPER-GP Super HSS, queue cylindrique (DIN 338)
PUNTA SUPER-GP DRILL, IN SUPER-HSS, GAMBO CILINDRICO (DIN 338)

KURZ
COURTE
CORTA

▶Surface treatment: Steam Tempered (Black Oxide Finish)
▶Applications: Excellent tool performance in steels, cast iron, alloy steels and malleable cast iron.
▶Special HSS improves toughness, wear resistance as well as extends dramatically the tool life.
▶All applications regardless of machine condition: Good or Poor.

▶Oberflächenbehandlung: Dampfgehärtet (Schwarze Oxydschicht)
▶Anwendungen: Ausgezeichnete Leistung bei Stählen, Gusseisen, legierten Stählen und Temperguss.
▶Spezial-HSS verbessert Zähigkeit, Verschleissfestigkeit und verlängert drastisch die Standzeit.
▶Alle Anwendungen unabhängig vom Maschinenzustand: Gut oder schlecht.





DIN 338 | SUPER HSS | 30° | h8 | 118° | Vap

p.A214

Recommended ToolHolder: Plain Shank, ER COLLET CHUCK

Unit : mm

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2
* DSH105068	6.8	69	109
* DSH105069	6.9	69	109
* DSH105070	7.0	69	109
* DSH105071	7.1	69	109
* DSH105072	7.2	69	109
* DSH105073	7.3	69	109
* DSH105074	7.4	69	109
* DSH105075	7.5	69	109
* DSH105076	7.6	75	117
* DSH105077	7.7	75	117
* DSH105078	7.8	75	117
* DSH105079	7.9	75	117
* DSH105080	8.0	75	117
* DSH105081	8.1	75	117
* DSH105082	8.2	75	117
* DSH105083	8.3	75	117
** DSH105084	8.4	75	117
** DSH105085	8.5	75	117
** DSH105086	8.6	81	125
** DSH105087	8.7	81	125
** DSH105088	8.8	81	125
** DSH105089	8.9	81	125
** DSH105090	9.0	81	125
** DSH105091	9.1	81	125

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2
** DSH105092	9.2	81	125
** DSH105093	9.3	81	125
** DSH105094	9.4	81	125
** DSH105095	9.5	81	125
** DSH105096	9.6	87	133
** DSH105097	9.7	87	133
** DSH105098	9.8	87	133
** DSH105099	9.9	87	133
** DSH105100	10.0	87	133
** DSH105101	10.1	87	133
** DSH105102	10.2	87	133
** DSH105103	10.3	87	133
** DSH105104	10.4	87	133
** DSH105105	10.5	87	133
** DSH105106	10.6	87	133
** DSH105107	10.7	94	142
** DSH105108	10.8	94	142
** DSH105109	10.9	94	142
** DSH105110	11.0	94	142
** DSH105111	11.1	94	142
** DSH105112	11.2	94	142
** DSH105113	11.3	94	142
** DSH105114	11.4	94	142
** DSH105115	11.5	94	142

▶ NEXT PAGE

* 10pcs per package
** 5pcs per package

◎ : 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	○	○	○						○							○					

SUPER-GP DRILLS

DSH105 SERIES

SUPER HSS, SUPER-GP DRILLS (DIN 338)

JOBBER

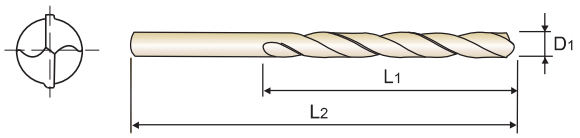
SUPER HSS, SUPER-GP DRILLS (DIN 338)
Forets SUPER-GP Super HSS, queue cylindrique (DIN 338)
PUNTA SUPER-GP DRILL, IN SUPER-HSS, GAMBO CILINDRICO (DIN 338)

KURZ
COURTE
CORTA

▶Surface treatment: Steam Tempered (Black Oxide Finish)
▶Applications: Excellent tool performance in steels, cast iron, alloy steels and malleable cast iron.
▶Special HSS improves toughness, wear resistance as well as extends dramatically the tool life.
▶All applications regardless of machine condition: Good or Poor.

▶Oberflächenbehandlung: Dampfgehärtet (Schwarze Oxydschicht)
▶Anwendungen: Ausgezeichnete Leistung bei Stählen, Gusseisen, legierten Stählen und Temperguss.
▶Spezial-HSS verbessert Zähigkeit, Verschleissfestigkeit und verlängert drastisch die Standzeit.
▶Alle Anwendungen unabhängig vom Maschinenzustand: Gut oder schlecht.





DIN 338 | SUPER HSS | 30° | h8 | 118° | Vap

p.A214

Recommended ToolHolder: Plain Shank, ER COLLET CHUCK

Unit : mm

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2
** DSH105116	11.6	94	142
** DSH105117	11.7	94	142
** DSH105118	11.8	94	142
** DSH105119	11.9	101	151
** DSH105120	12.0	101	151
** DSH105121	12.1	101	151
** DSH105122	12.2	101	151
** DSH105123	12.3	101	151

EDP No.	Drill Diameter D1	Flute Length L1	Overall Length L2
** DSH105124	12.4	101	151
** DSH105125	12.5	101	151
** DSH105126	12.6	101	151
** DSH105127	12.7	101	151
** DSH105128	12.8	101	151
** DSH105129	12.9	101	151
** DSH105130	13.0	101	151

* 10pcs per package
** 5pcs per package

◎ : 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	○	○	○						○							○					