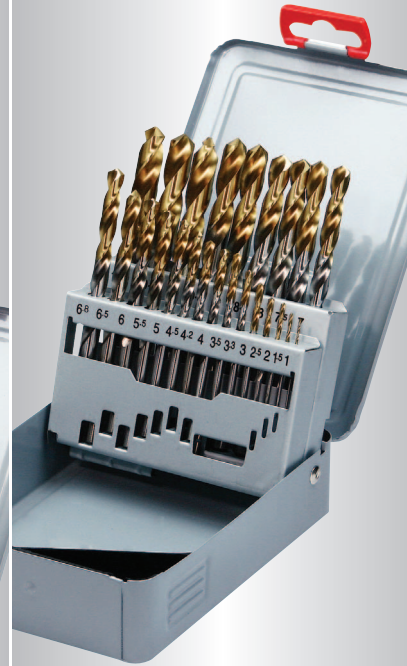
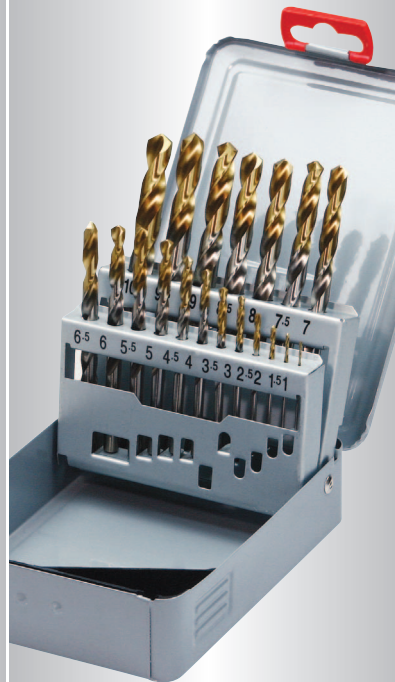


# HSS



Being the best through innovation



# GOLD-P DRILLS

## GOLD-P BOHRER

- GOLD-P COATING, HSS & HSS-E
- TiN-teilbeschichtete Bohrer, HSS und HSS-E

# SELECTION GUIDE

## GOLD-P DRILLS (GOLD-P COATED)

Competitive price and same performance as full TiN coating

ITEM	MODEL	DESCRIPTION	SIZE		PAGE	
			MIN	MAX		
<b>D1GP125</b>		HSS STRAIGHT SHANK DRILLS, GOLD-P COATED HSS SPIRALBOHRER, GOLD-P BESCHICHTET	<i>JOBBER</i> <i>KURZ</i>	D1.0	D13.0	<b>128</b>
<b>D1GP165</b>		HSS STRAIGHT SHANK DRILLS, GOLD-P COATED HSS SPIRALBOHRER, GOLD-P BESCHICHTET	<i>JOBBER</i> <i>KURZ</i>	D1.6	D13.0	<b>130</b>
<b>DLGP195</b>		HSS-E STRAIGHT SHANK DRILLS, GOLD-P COATED HSS-E SPIRALBOHRER, GOLD-P BESCHICHTET	<i>JOBBER</i> <i>KURZ</i>	D1.0	D13.0	<b>132</b>
<b>DLGP506</b>		HSS-E DH100 STRAIGHT SHANK DRILLS for DEEP HOLES, GOLD-P COATED HSS-E DH100 SPIRALBOHRER, für TIEFLOCH mit ZYLINDERSCHAFT, GOLD-P BESCHICHTET	<i>JOBBER</i> <i>KURZ</i>	D2.0	D13.0	<b>134</b>
<b>GOLD-P DRILL SETS</b>	1.0mm ~ 10.0mm × 0.5mm STEP SET1(19PCS) 	1.0mm ~ 13.0mm × 0.5mm STEP SET2(25PCS) 	1.0mm ~ 10.5mm × 0.5mm STEP +3.3 +4.2 +6.8 +10.2 SET3(24PCS) 			<b>136</b>
	RECOMMENDED CUTTING CONDITIONS EMPFOHLENE SCHNEIDKONDITIONEN					<b>137</b>

# HSS GOLD-P 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~							
◎	◎					○	○	○	○		
◎	◎					○	○	○	○		
◎	◎					○	○	○	○		
◎	◎				○	○			○		



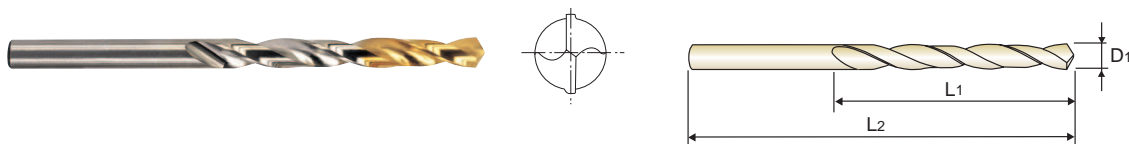
**HSS STRAIGHT SHANK DRILLS, GOLD-P COATED**  
**HSS SPIRALBOHRER, GOLD-P BESCHICHTET**

**JOBBER**

**KURZ**

- ▶ **Flute Geometry** : Right hand helix
- ▶ **Point Angle** : 118°, Normal point
- ▶ **Surface treatment**: Bright body, TiN coating on working area
- ▶ **Application** : Drilling steels, cast steels alloyed and Non-alloyed, grey cast iron, graphite, malleable cast iron

- ▶ **Nutenform** : Rechtsspirale
- ▶ **Spitzenwinkel** : 118° Normalanschliff
- ▶ **Oberfläche** : Blank mit TiN-Beschichtung im Arbeitsbereich
- ▶ **Anwendung** : Stahl, legierter und unlegierter Stahlguss, Grauguss, Graphit, Temperguss



P.137

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
D1GP125010	1.0	12	34	D1GP125041	4.1	43	75
D1GP125011	1.1	14	36	D1GP125042	4.2	43	75
D1GP125012	1.2	16	38	D1GP125043	4.3	47	80
D1GP125013	1.3	16	38	D1GP125044	4.4	47	80
D1GP125014	1.4	18	40	D1GP125045	4.5	47	80
D1GP125015	1.5	18	40	D1GP125046	4.6	47	80
D1GP125016	1.6	20	43	D1GP125047	4.7	47	80
D1GP125017	1.7	20	43	D1GP125048	4.8	52	86
D1GP125018	1.8	22	46	D1GP125049	4.9	52	86
D1GP125019	1.9	22	46	D1GP125050	5.0	52	86
D1GP125020	2.0	24	49	D1GP125051	5.1	52	86
D1GP125021	2.1	24	49	D1GP125052	5.2	52	86
D1GP125022	2.2	27	53	D1GP125053	5.3	52	86
D1GP125023	2.3	27	53	D1GP125054	5.4	57	93
D1GP125024	2.4	30	57	D1GP125055	5.5	57	93
D1GP125025	2.5	30	57	D1GP125056	5.6	57	93
D1GP125026	2.6	30	57	D1GP125057	5.7	57	93
D1GP125027	2.7	33	61	D1GP125058	5.8	57	93
D1GP125028	2.8	33	61	D1GP125059	5.9	57	93
D1GP125029	2.9	33	61	D1GP125060	6.0	57	93
D1GP125030	3.0	33	61	D1GP125061	6.1	63	101
D1GP125031	3.1	36	65	D1GP125062	6.2	63	101
D1GP125032	3.2	36	65	D1GP125063	6.3	63	101
D1GP125033	3.3	36	65	D1GP125064	6.4	63	101
D1GP125034	3.4	39	70	D1GP125065	6.5	63	101
D1GP125035	3.5	39	70	D1GP125066	6.6	63	101
D1GP125036	3.6	39	70	D1GP125067	6.7	63	101
D1GP125037	3.7	39	70	D1GP125068	6.8	69	109
D1GP125038	3.8	43	75	D1GP125069	6.9	69	109
D1GP125039	3.9	43	75	D1GP125070	7.0	69	109
D1GP125040	4.0	43	75	D1GP125071	7.1	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~							
◎	◎					○	○	○	○		



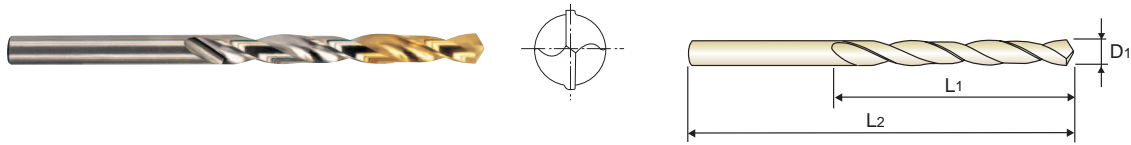
### HSS STRAIGHT SHANK DRILLS, GOLD-P COATED HSS SPIRALBOHRER, GOLD-P BESCHICHTET

JOBBER

KURZ

- ▶ **Flute Geometry** : Right hand helix
- ▶ **Point Angle** : 118°, Normal point
- ▶ **Surface treatment**: Bright body, TiN coating on working area
- ▶ **Application** : Drilling steels, cast steels alloyed and Non-alloyed, grey cast iron, graphite, malleable cast iron

- ▶ **Nutenform** : Rechtsspirale
- ▶ **Spitzenwinkel** : 118° Normalanschliff
- ▶ **Oberfläche** : Blank mit TiN-Beschichtung im Arbeitsbereich
- ▶ **Anwendung** : Stahl, legierter und unlegierter Stahlguss, Grauguss, Graphit, Temperguss



Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
D1GP125072	7.2	69	109	D1GP125102	10.2	87	133
D1GP125073	7.3	69	109	D1GP125103	10.3	87	133
D1GP125074	7.4	69	109	D1GP125104	10.4	87	133
D1GP125075	7.5	69	109	D1GP125105	10.5	87	133
D1GP125076	7.6	75	117	D1GP125106	10.6	87	133
D1GP125077	7.7	75	117	D1GP125107	10.7	94	142
D1GP125078	7.8	75	117	D1GP125108	10.8	94	142
D1GP125079	7.9	75	117	D1GP125109	10.9	94	142
D1GP125080	8.0	75	117	D1GP125110	11.0	94	142
D1GP125081	8.1	75	117	D1GP125111	11.1	94	142
D1GP125082	8.2	75	117	D1GP125112	11.2	94	142
D1GP125083	8.3	75	117	D1GP125113	11.3	94	142
D1GP125084	8.4	75	117	D1GP125114	11.4	94	142
D1GP125085	8.5	75	117	D1GP125115	11.5	94	142
D1GP125086	8.6	81	125	D1GP125116	11.6	94	142
D1GP125087	8.7	81	125	D1GP125117	11.7	94	142
D1GP125088	8.8	81	125	D1GP125118	11.8	94	142
D1GP125089	8.9	81	125	D1GP125119	11.9	101	151
D1GP125090	9.0	81	125	D1GP125120	12.0	101	151
D1GP125091	9.1	81	125	D1GP125121	12.1	101	151
D1GP125092	9.2	81	125	D1GP125122	12.2	101	151
D1GP125093	9.3	81	125	D1GP125123	12.3	101	151
D1GP125094	9.4	81	125	D1GP125124	12.4	101	151
D1GP125095	9.5	81	125	D1GP125125	12.5	101	151
D1GP125096	9.6	87	133	D1GP125126	12.6	101	151
D1GP125097	9.7	87	133	D1GP125127	12.7	101	151
D1GP125098	9.8	87	133	D1GP125128	12.8	101	151
D1GP125099	9.9	87	133	D1GP125129	12.9	101	151
D1GP125100	10.0	87	133	D1GP125130	13.0	101	151
D1GP125101	10.1	87	133				

◎ : 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~							
◎	◎					○	○	○	○		



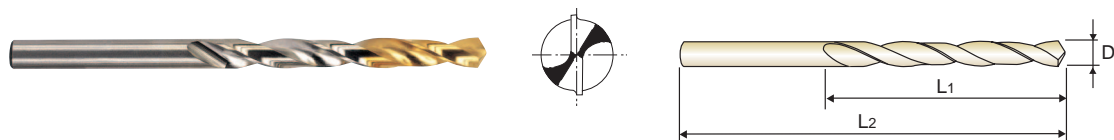
**HSS STRAIGHT SHANK DRILLS, GOLD-P COATED**  
**HSS SPIRALBOHRER, GOLD-P BESCHICHTET**

**JOBBER**

**KURZ**

- ▶ **Flute Geometry** : Right hand helix
- ▶ **Point Angle** : 118°, Split point
- ▶ **Surface treatment** : Bright body, TiN coating on working area
- ▶ **Application** : Drilling steels, cast steels alloyed and Non-alloyed, grey cast iron, graphite, malleable cast iron

- ▶ **Nutenform** : Rechtsspirale
- ▶ **Spitzenwinkel** : 118° Kreuzanschliff
- ▶ **Oberfläche** : Blank mit TiN-Beschichtung im Arbeitsbereich
- ▶ **Anwendung** : Stahl, legierter und unlegierter Stahlguss, Grauguss, Graphit, Temperguss



DIN 338
HSS
N 30°
h8
118°
P.137

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
D1GP165016	1.6	20	43	D1GP165046	4.6	47	80
D1GP165017	1.7	20	43	D1GP165047	4.7	47	80
D1GP165018	1.8	22	46	D1GP165048	4.8	52	86
D1GP165019	1.9	22	46	D1GP165049	4.9	52	86
D1GP165020	2.0	24	49	D1GP165050	5.0	52	86
D1GP165021	2.1	24	49	D1GP165051	5.1	52	86
D1GP165022	2.2	27	53	D1GP165052	5.2	52	86
D1GP165023	2.3	27	53	D1GP165053	5.3	52	86
D1GP165024	2.4	30	57	D1GP165054	5.4	57	93
D1GP165025	2.5	30	57	D1GP165055	5.5	57	93
D1GP165026	2.6	30	57	D1GP165056	5.6	57	93
D1GP165027	2.7	33	61	D1GP165057	5.7	57	93
D1GP165028	2.8	33	61	D1GP165058	5.8	57	93
D1GP165029	2.9	33	61	D1GP165059	5.9	57	93
D1GP165030	3.0	33	61	D1GP165060	6.0	57	93
D1GP165031	3.1	36	65	D1GP165061	6.1	63	101
D1GP165032	3.2	36	65	D1GP165062	6.2	63	101
D1GP165033	3.3	36	65	D1GP165063	6.3	63	101
D1GP165034	3.4	39	70	D1GP165064	6.4	63	101
D1GP165035	3.5	39	70	D1GP165065	6.5	63	101
D1GP165036	3.6	39	70	D1GP165066	6.6	63	101
D1GP165037	3.7	39	70	D1GP165067	6.7	63	101
D1GP165038	3.8	43	75	D1GP165068	6.8	69	109
D1GP165039	3.9	43	75	D1GP165069	6.9	69	109
D1GP165040	4.0	43	75	D1GP165070	7.0	69	109
D1GP165041	4.1	43	75	D1GP165071	7.1	69	109
D1GP165042	4.2	43	75	D1GP165072	7.2	69	109
D1GP165043	4.3	47	80	D1GP165073	7.3	69	109
D1GP165044	4.4	47	80	D1GP165074	7.4	69	109
D1GP165045	4.5	47	80	D1GP165075	7.5	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~							
◎	◎					○	○	○	○		



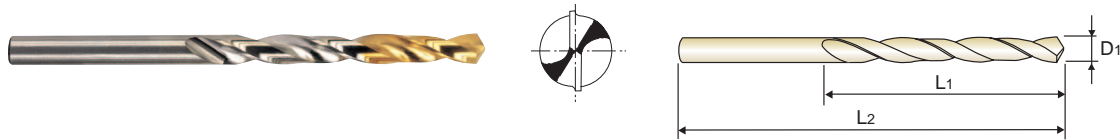
### HSS STRAIGHT SHANK DRILLS, GOLD-P COATED HSS SPIRALBOHRER, GOLD-P BESCHICHTET

JOBBER

KURZ

- ▶ **Flute Geometry** : Right hand helix
- ▶ **Point Angle** : 118°, Split point
- ▶ **Surface treatment** : Bright body, TiN coating on working area
- ▶ **Application** : Drilling steels, cast steels alloyed and Non-alloyed, grey cast iron, graphite, malleable cast iron

- ▶ **Nutenform** : Rechtsspirale
- ▶ **Spitzenwinkel** : 118° Kreuzanschliff
- ▶ **Oberfläche** : Blank mit TiN-Beschichtung im Arbeitsbereich
- ▶ **Anwendung** : Stahl, legierter und unlegierter Stahlguss, Grauguss, Graphit, Temperguss



DIN 338
HSS
N 30°
h8
118°
P.137

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1				L1		
D1GP165076	7.6	75	117	D1GP165104	10.4	87	133
D1GP165077	7.7	75	117	D1GP165105	10.5	87	133
D1GP165078	7.8	75	117	D1GP165106	10.6	87	133
D1GP165079	7.9	75	117	D1GP165107	10.7	94	142
D1GP165080	8.0	75	117	D1GP165108	10.8	94	142
D1GP165081	8.1	75	117	D1GP165109	10.9	94	142
D1GP165082	8.2	75	117	D1GP165110	11.0	94	142
D1GP165083	8.3	75	117	D1GP165111	11.1	94	142
D1GP165084	8.4	75	117	D1GP165112	11.2	94	142
D1GP165085	8.5	75	117	D1GP165113	11.3	94	142
D1GP165086	8.6	81	125	D1GP165114	11.4	94	142
D1GP165087	8.7	81	125	D1GP165115	11.5	94	142
D1GP165088	8.8	81	125	D1GP165116	11.6	94	142
D1GP165089	8.9	81	125	D1GP165117	11.7	94	142
D1GP165090	9.0	81	125	D1GP165118	11.8	94	142
D1GP165091	9.1	81	125	D1GP165119	11.9	101	151
D1GP165092	9.2	81	125	D1GP165120	12.0	101	151
D1GP165093	9.3	81	125	D1GP165121	12.1	101	151
D1GP165094	9.4	81	125	D1GP165122	12.2	101	151
D1GP165095	9.5	81	125	D1GP165123	12.3	101	151
D1GP165096	9.6	87	133	D1GP165124	12.4	101	151
D1GP165097	9.7	87	133	D1GP165125	12.5	101	151
D1GP165098	9.8	87	133	D1GP165126	12.6	101	151
D1GP165099	9.9	87	133	D1GP165127	12.7	101	151
D1GP165100	10.0	87	133	D1GP165128	12.8	101	151
D1GP165101	10.1	87	133	D1GP165129	12.9	101	151
D1GP165102	10.2	87	133	D1GP165130	13.0	101	151
D1GP165103	10.3	87	133				

◎ : Excellent ○ : Good

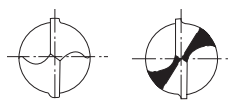
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		Cast Iron	Aluminum	Stainless Steels	Titanium	Mild Steels	Copper	Bronze
~HB225	HB225~325	HRC30~45	HRc45~55	HRc55~							
◎	◎					○	○	○	○		

**HSS-E STRAIGHT SHANK DRILLS, GOLD-P COATED**  
**HSS-E SPIRALBOHRER, GOLD-P BESCHICHTET**

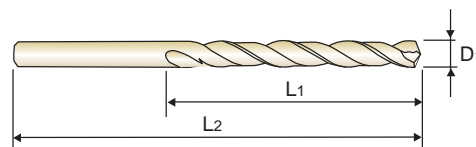
**JOBBER**  
**KURZ**

- ▶ **Flute Geometry** : Right hand helix
- ▶ **Point Angle** : 135°, up to 1.5mm : Normal point  
 over 1.5mm : Split point
- ▶ **Surface treatment**: Bright body, TiN coating on working area
- ▶ **Application** : Drilling stainless steels, difficult to cut materials such as titanium alloys and inconel.

- ▶ **Nutenform** : Rechtsspirale
- ▶ **Spitzenwinkel** : 135°, bis 1.5 mm : Normalanschliff  
 über 1.5 mm : Kreuzanschliff
- ▶ **Oberfläche** : Blank mit TiN-Beschichtung im Arbeitsbereich
- ▶ **Anwendung** : Tiefe Bohrungen in unlegierten und legierten Stählen, Grauguss, Temperguss, Aluminium- und Magnesiumlegierungen



up to 1.5mm    over 1.5mm



DIN 338
HSS-E
N 33°
h8
135°
P.137

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
DLGP195010	1.0	12	34	DLGP195041	4.1	43	75
DLGP195011	1.1	14	36	DLGP195042	4.2	43	75
DLGP195012	1.2	16	38	DLGP195043	4.3	47	80
DLGP195013	1.3	16	38	DLGP195044	4.4	47	80
DLGP195014	1.4	18	40	DLGP195045	4.5	47	80
DLGP195015	1.5	18	40	DLGP195046	4.6	47	80
DLGP195016	1.6	20	43	DLGP195047	4.7	47	80
DLGP195017	1.7	20	43	DLGP195048	4.8	52	86
DLGP195018	1.8	22	46	DLGP195049	4.9	52	86
DLGP195019	1.9	22	46	DLGP195050	5.0	52	86
DLGP195020	2.0	24	49	DLGP195051	5.1	52	86
DLGP195021	2.1	24	49	DLGP195052	5.2	52	86
DLGP195022	2.2	27	53	DLGP195053	5.3	52	86
DLGP195023	2.3	27	53	DLGP195054	5.4	57	93
DLGP195024	2.4	30	57	DLGP195055	5.5	57	93
DLGP195025	2.5	30	57	DLGP195056	5.6	57	93
DLGP195026	2.6	30	57	DLGP195057	5.7	57	93
DLGP195027	2.7	33	61	DLGP195058	5.8	57	93
DLGP195028	2.8	33	61	DLGP195059	5.9	57	93
DLGP195029	2.9	33	61	DLGP195060	6.0	57	93
DLGP195030	3.0	33	61	DLGP195061	6.1	63	101
DLGP195031	3.1	36	65	DLGP195062	6.2	63	101
DLGP195032	3.2	36	65	DLGP195063	6.3	63	101
DLGP195033	3.3	36	65	DLGP195064	6.4	63	101
DLGP195034	3.4	39	70	DLGP195065	6.5	63	101
DLGP195035	3.5	39	70	DLGP195066	6.6	63	101
DLGP195036	3.6	39	70	DLGP195067	6.7	63	101
DLGP195037	3.7	39	70	DLGP195068	6.8	69	109
DLGP195038	3.8	43	75	DLGP195069	6.9	69	109
DLGP195039	3.9	43	75	DLGP195070	7.0	69	109
DLGP195040	4.0	43	75	DLGP195071	7.1	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~							
◎	◎					○	○	○	○		





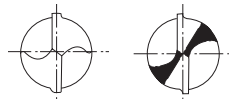
### HSS-E STRAIGHT SHANK DRILLS, GOLD-P COATED HSS-E SPIRALBOHRER, GOLD-P BESCHICHTET

JOBBER

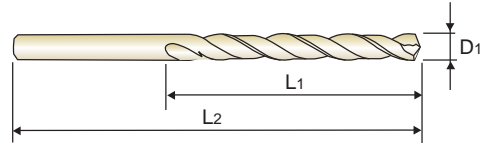
KURZ

- ▶ **Flute Geometry** : Right hand helix
- ▶ **Point Angle** : 135°, up to 1.5mm : Normal point  
over 1.5mm : Split point
- ▶ **Surface treatment**: Bright body, TiN coating on working area
- ▶ **Application** : Drilling stainless steels, difficult to cut materials such as titanium alloys and inconel.

- ▶ **Nutenform** : Rechtsspirale
- ▶ **Spitzenwinkel** : 135°, bis 1.5 mm : Normalanschliff  
über 1.5 mm : Kreuzanschliff
- ▶ **Oberfläche** : Blank mit TiN-Beschichtung im Arbeitsbereich
- ▶ **Anwendung** : Tiefe Bohrungen in unlegierten und legierten Stählen, Grauguss, Temperguss, Aluminium- und Magnesiumlegierungen



up to 1.5mm      over 1.5mm



P.137

Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
DLGP195072	7.2	69	109	DLGP195102	10.2	87	133
DLGP195073	7.3	69	109	DLGP195103	10.3	87	133
DLGP195074	7.4	69	109	DLGP195104	10.4	87	133
DLGP195075	7.5	69	109	DLGP195105	10.5	87	133
DLGP195076	7.6	75	117	DLGP195106	10.6	87	133
DLGP195077	7.7	75	117	DLGP195107	10.7	94	142
DLGP195078	7.8	75	117	DLGP195108	10.8	94	142
DLGP195079	7.9	75	117	DLGP195109	10.9	94	142
DLGP195080	8.0	75	117	DLGP195110	11.0	94	142
DLGP195081	8.1	75	117	DLGP195111	11.1	94	142
DLGP195082	8.2	75	117	DLGP195112	11.2	94	142
DLGP195083	8.3	75	117	DLGP195113	11.3	94	142
DLGP195084	8.4	75	117	DLGP195114	11.4	94	142
DLGP195085	8.5	75	117	DLGP195115	11.5	94	142
DLGP195086	8.6	81	125	DLGP195116	11.6	94	142
DLGP195087	8.7	81	125	DLGP195117	11.7	94	142
DLGP195088	8.8	81	125	DLGP195118	11.8	94	142
DLGP195089	8.9	81	125	DLGP195119	11.9	101	151
DLGP195090	9.0	81	125	DLGP195120	12.0	101	151
DLGP195091	9.1	81	125	DLGP195121	12.1	101	151
DLGP195092	9.2	81	125	DLGP195122	12.2	101	151
DLGP195093	9.3	81	125	DLGP195123	12.3	101	151
DLGP195094	9.4	81	125	DLGP195124	12.4	101	151
DLGP195095	9.5	81	125	DLGP195125	12.5	101	151
DLGP195096	9.6	87	133	DLGP195126	12.6	101	151
DLGP195097	9.7	87	133	DLGP195127	12.7	101	151
DLGP195098	9.8	87	133	DLGP195128	12.8	101	151
DLGP195099	9.9	87	133	DLGP195129	12.9	101	151
DLGP195100	10.0	87	133	DLGP195130	13.0	101	151
DLGP195101	10.1	87	133				

◎ : 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~							
◎	◎					○	○	○	○		



**HSS-E DH100 STRAIGHT SHANK DRILLS for DEEP HOLES, GOLD-P COATED**

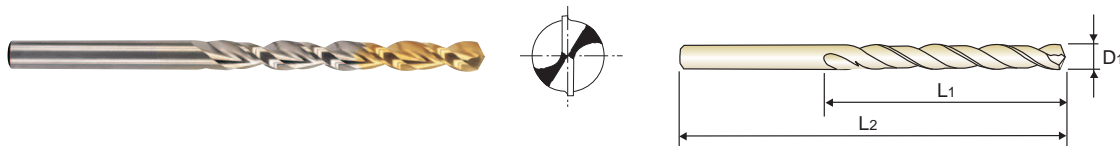
**JOBBER**

**HSS-E DH100 SPIRALBOHRER, für TIEFLOCH mit ZYLINDERSCHAFT, GOLD-P BESCHICHTET**

**KURZ**

- ▶ **Flute Geometry** : Right hand, 38° helix, DH100 worm pattern type.
- ▶ **Point Angle** : 130°, Split point giving higher chip removal.
- ▶ **Surface treatment** : Bright body, TiN coating on working area.
- ▶ **Application** : Drilling deep holes in non alloy steels, alloy steels, grey cast iron, malleable cast iron, Special aluminum or magnesium alloys.

- ▶ **Nutenform** : 38° Rechtsspirale, DH 100 Flachnut
- ▶ **Spitzenwinkel** : Durch 130° Kreuzanschliff Gute Spanabfuhr
- ▶ **Oberfläche** : Blank mit TiN-Beschichtung im Arbeitsbereich
- ▶ **Anwendung** : Tiefe Bohrungen in unlegierten und legierten Stählen, Grauguss, Temperguss, Aluminium- und Magnesiumlegierungen



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	
DLGP506020	2.0	24	49	49	DLGP506049	4.9	52	86	86
DLGP506021	2.1	24	49	49	DLGP506050	5.0	52	86	86
DLGP506022	2.2	27	53	53	DLGP506051	5.1	52	86	86
DLGP506023	2.3	27	53	53	DLGP506052	5.2	52	86	86
DLGP506024	2.4	30	57	57	DLGP506053	5.3	52	86	86
DLGP506025	2.5	30	57	57	DLGP506054	5.4	57	93	93
DLGP506026	2.6	30	57	57	DLGP506055	5.5	57	93	93
DLGP506027	2.7	33	61	61	DLGP506056	5.6	57	93	93
DLGP506028	2.8	33	61	61	DLGP506057	5.7	57	93	93
DLGP506029	2.9	33	61	61	DLGP506058	5.8	57	93	93
DLGP506030	3.0	33	61	61	DLGP506059	5.9	57	93	93
DLGP506031	3.1	36	65	65	DLGP506060	6.0	57	93	93
DLGP506032	3.2	36	65	65	DLGP506061	6.1	63	101	101
DLGP506033	3.3	36	65	65	DLGP506062	6.2	63	101	101
DLGP506034	3.4	39	70	70	DLGP506063	6.3	63	101	101
DLGP506035	3.5	39	70	70	DLGP506064	6.4	63	101	101
DLGP506036	3.6	39	70	70	DLGP506065	6.5	63	101	101
DLGP506037	3.7	39	70	70	DLGP506066	6.6	63	101	101
DLGP506038	3.8	43	75	75	DLGP506067	6.7	63	101	101
DLGP506039	3.9	43	75	75	DLGP506068	6.8	69	109	109
DLGP506040	4.0	43	75	75	DLGP506069	6.9	69	109	109
DLGP506041	4.1	43	75	75	DLGP506070	7.0	69	109	109
DLGP506042	4.2	43	75	75	DLGP506071	7.1	69	109	109
DLGP506043	4.3	47	80	80	DLGP506072	7.2	69	109	109
DLGP506044	4.4	47	80	80	DLGP506073	7.3	69	109	109
DLGP506045	4.5	47	80	80	DLGP506074	7.4	69	109	109
DLGP506046	4.6	47	80	80	DLGP506075	7.5	69	109	109
DLGP506047	4.7	47	80	80	DLGP506076	7.6	75	117	117
DLGP506048	4.8	52	86	86	DLGP506077	7.7	75	117	117

◎ : 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~							
◎	◎				○	○			○		



### HSS-E DH100 STRAIGHT SHANK DRILLS for DEEP HOLES, GOLD-P COATED

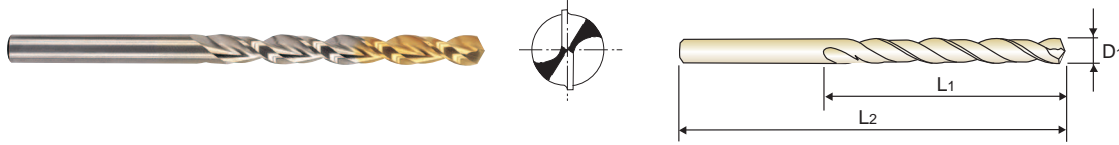
**JOBBER**

### HSS-E DH100 SPIRALBOHRER, für TIEFLOCH mit ZYLINDERSCHAFT, GOLD-P BESCHICHTET

**KURZ**

- ▶ **Flute Geometry** : Right hand, 38° helix, DH100 worm pattern type.
- ▶ **Point Angle** : 130°, Split point giving higher chip removal.
- ▶ **Surface treatment** : Bright body, TiN coating on working area.
- ▶ **Application** : Drilling deep holes in non alloy steels, alloy steels, grey cast iron, malleable cast iron, Special aluminum or magnesium alloys.

- ▶ **Nutenform** : 38° Rechtsspirale, DH 100 Flachnut
- ▶ **Spitzenwinkel** : Durch 130° Kreuzanschliff Gute Spanabfuhr
- ▶ **Oberfläche** : Blank mit TiN-Beschichtung im Arbeitsbereich
- ▶ **Anwendung** : Tiefe Bohrungen in unlegierten und legierten Stählen, Grauguss, Temperguss, Aluminium- und Magnesiumlegierungen



Unit : mm

EDP No.	Drill Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter	Flute Length	Overall Length
	D1	L1	L2		D1	L1	L2
DLGP506078	7.8	75	117	DLGP506105	10.5	87	133
DLGP506079	7.9	75	117	DLGP506106	10.6	87	133
DLGP506080	8.0	75	117	DLGP506107	10.7	94	142
DLGP506081	8.1	75	117	DLGP506108	10.8	94	142
DLGP506082	8.2	75	117	DLGP506109	10.9	94	142
DLGP506083	8.3	75	117	DLGP506110	11.0	94	142
DLGP506084	8.4	75	117	DLGP506111	11.1	94	142
DLGP506085	8.5	75	117	DLGP506112	11.2	94	142
DLGP506086	8.6	81	125	DLGP506113	11.3	94	142
DLGP506087	8.7	81	125	DLGP506114	11.4	94	142
DLGP506088	8.8	81	125	DLGP506115	11.5	94	142
DLGP506089	8.9	81	125	DLGP506116	11.6	94	142
DLGP506090	9.0	81	125	DLGP506117	11.7	94	142
DLGP506091	9.1	81	125	DLGP506118	11.8	94	142
DLGP506092	9.2	81	125	DLGP506119	11.9	101	151
DLGP506093	9.3	81	125	DLGP506120	12.0	101	151
DLGP506094	9.4	81	125	DLGP506121	12.1	101	151
DLGP506095	9.5	81	125	DLGP506122	12.2	101	151
DLGP506096	9.6	87	133	DLGP506123	12.3	101	151
DLGP506097	9.7	87	133	DLGP506124	12.4	101	151
DLGP506098	9.8	87	133	DLGP506125	12.5	101	151
DLGP506099	9.9	87	133	DLGP506126	12.6	101	151
DLGP506100	10.0	87	133	DLGP506127	12.7	101	151
DLGP506101	10.1	87	133	DLGP506128	12.8	101	151
DLGP506102	10.2	87	133	DLGP506129	12.9	101	151
DLGP506103	10.3	87	133	DLGP506130	13.0	101	151
DLGP506104	10.4	87	133				

◎ : 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~							
◎	◎				○	○			○		



## GOLD-P COATED DRILL SETS GOLD-P BESCHICHTET BOHRER SATS



### DIN338 DRILL SETS JOBBER LENGTH Gold-P coated Drills

SET NO.	DESCRIPTON	SIZE	Q'TY
<b>D1GP165SET1</b>	HSS Straight Shank, Split Point (∅1.0 & ∅1.5 : NORMAL point)	1.0-10.0x0.5mm step	19 pcs
<b>D1GP165SET2</b>	HSS Straight Shank, Split Point (∅1.0 & ∅1.5 : NORMAL point)	1.0-13.0x0.5mm step	25 pcs
<b>D1GP165SET3</b>	HSS Straight Shank, Split Point (∅1.0 & ∅1.5 : NORMAL point)	1.0-10.5x0.5mm step +3.3 +4.2 +6.8 +10.2	24 pcs
<b>DLGP195SET1</b>	HSS-E Straight Shank, Split Point (∅1.0 & ∅1.5 : NORMAL point)	1.0-10.0x0.5mm step	19 pcs
<b>DLGP195SET2</b>	HSS-E Straight Shank, Split Point (∅1.0 & ∅1.5 : NORMAL point)	1.0-13.0x0.5mm step	25 pcs
<b>DLGP195SET3</b>	HSS-E Straight Shank, Split Point (∅1.0 & ∅1.5 : NORMAL point)	1.0-10.5x0.5mm step +3.3 +4.2 +6.8 +10.2	24 pcs

**GOLD-P COATED DRILLS**  
**GOLD-P BESCHICHTET BOHRER**
**D1GP125, D1GP165, DLGP195 SERIES**

Unit : mm

WORK MATERIAL	CARBON STEELS		CARBON STEELS		ALLOY STEELS		STAINLESS STEELS		TITANIUM ALLOYS		ALUMINUM ALLOYS, ZINC ALLOYS		MAGNESIUM ALLOYS	
	N	S	N	S	N	S	N	S	N	S	N	S	N	S
<b>HARDNESS</b>			~ HRC23		~ HRC23 ~ 34		HRC23							
<b>STRENGTH</b>	~ 570 N/mm <sup>2</sup>		~ 830 N/mm <sup>2</sup>		810 ~ 1110 N/mm <sup>2</sup>		~ 830 N/mm <sup>2</sup>		~ 410 N/mm <sup>2</sup>					
<b>DIAMETER</b>	N	S	N	S	N	S	N	S	N	S	N	S	N	S
1	14000	0.02	12500	0.02	7700	0.02	7000	0.02	8050	0.02	30000	0.02	11500	0.03
2	7000	0.06	6100	0.06	3850	0.06	3500	0.06	4050	0.06	15000	0.06	5800	0.09
3	4650	0.10	4100	0.08	2550	0.08	2350	0.08	2700	0.08	9900	0.10	3850	0.13
4	3500	0.11	3050	0.11	1950	0.10	1750	0.10	2000	0.09	7450	0.11	2900	0.15
5	2800	0.12	2450	0.11	1550	0.10	1400	0.10	1600	0.10	5950	0.12	2300	0.17
6	2350	0.14	2050	0.13	1300	0.12	1150	0.12	1350	0.12	4950	0.14	1950	0.19
7	2000	0.16	1750	0.15	1100	0.14	1000	0.14	1150	0.14	4250	0.16	1650	0.22
8	1750	0.18	1550	0.18	960	0.15	875	0.15	1000	0.15	3700	0.18	1450	0.24
9	1550	0.20	1350	0.22	855	0.18	780	0.18	895	0.17	3300	0.20	1280	0.27
10	1400	0.21	1250	0.22	770	0.18	700	0.18	805	0.18	3000	0.23	1150	0.29
11	1250	0.22	1100	0.22	700	0.18	650	0.18	730	0.18	2700	0.23	1050	0.30
12	1150	0.23	1000	0.22	650	0.20	585	0.20	670	0.20	2480	0.23	960	0.31
13	1050	0.23	950	0.22	595	0.20	540	0.20	620	0.20	2300	0.23	890	0.31

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

**GOLD-P COATED DRILLS for DEEP HOLES**  
**GOLD-P BESCHICHTET BOHRER für TIEFLOCH MIT ZYLINDERSCHAFT**
**DLGP506 SERIES**

Unit : mm

WORK MATERIAL	CARBON STEELS ALLOY STEELS		TOOL STEELS HARDENED STEELS		SOFT GREY CAST IRON		HARD GREY CAST IRON	
	N	S	N	S	N	S	N	S
<b>HARDNESS</b>	HRC15 ~ 30		HRC20 ~ 40					
<b>STRENGTH</b>	700 ~ 1000 N/mm <sup>2</sup>		800 ~ 1200 N/mm <sup>2</sup>					
<b>DIAMETER</b>	N	S	N	S	N	S	N	S
1	8750	0.02	6300	0.02	16000	0.02	9800	0.02
2	4400	0.06	3150	0.06	7900	0.07	4900	0.07
3	2900	0.08	2100	0.08	5250	0.11	3250	0.11
4	2200	0.09	1600	0.09	3950	0.14	2450	0.14
5	1750	0.10	1250	0.10	3150	0.14	1950	0.14
6	1450	0.12	1050	0.12	2650	0.18	1650	0.18
7	1250	0.14	900	0.14	2250	0.20	1400	0.20
8	1100	0.15	790	0.15	1950	0.22	1250	0.22
9	975	0.17	700	0.17	1750	0.24	1100	0.24
10	875	0.18	630	0.18	1600	0.28	980	0.28
11	800	0.20	575	0.20	1450	0.28	890	0.28
12	730	0.20	525	0.20	1300	0.28	815	0.28
13	675	0.20	485	0.20	1200	0.28	755	0.28

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