

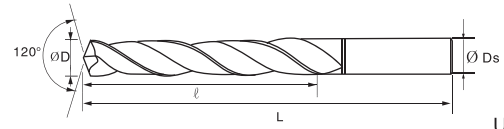
# Full Grinding Straight Shank Twist Drill



## GS100 Series

### Full Grinding Straight Shank Twist Drill

Material	HSS	Helix angle	30°	Point angle	120°
Suitable for processing	Ordinary steel, alloy steel, cast iron, cast steel, by cutting the material hardness within HRC30.				



Unit (mm)

Model No.	Cutting Diameter	Cutting Length	Shank Diameter	Total Length	List USD
	D	ℓ	Ds	L	
GS100071	7.1	75	7.1	108	\$4.27
GS100072	7.2	75	7.2	108	\$4.27
GS100073	7.3	75	7.3	108	\$4.27
GS100074	7.4	78	7.4	111	\$4.27
GS100075	7.5	78	7.5	111	\$4.27
GS100076	7.6	78	7.6	111	\$5.43
GS100077	7.7	81	7.7	114	\$5.43
GS100078	7.8	81	7.8	114	\$5.43
GS100079	7.9	81	7.9	114	\$5.43
GS100080	8.0	81	8.0	114	\$5.43
GS100081	8.1	84	8.1	117	\$6.46
GS100082	8.2	84	8.2	117	\$6.46
GS100083	8.3	84	8.3	117	\$6.46
GS100084	8.4	87	8.4	121	\$6.46
GS100085	8.5	87	8.5	121	\$6.46
GS100086	8.6	87	8.6	121	\$7.27
GS100087	8.7	87	8.7	121	\$7.27
GS100088	8.8	89	8.8	124	\$7.27
GS100089	8.9	89	8.9	124	\$7.27
GS100090	9.0	89	9.0	124	\$7.27
GS100091	9.1	89	9.1	124	\$8.02
GS100092	9.2	92	9.2	127	\$8.02
GS100093	9.3	92	9.3	127	\$8.02
GS100094	9.4	92	9.4	127	\$8.02
GS100095	9.5	92	9.5	127	\$8.02
GS100096	9.6	95	9.6	130	\$8.89
GS100097	9.7	95	9.7	130	\$8.89
GS100098	9.8	95	9.8	130	\$8.89
GS100099	9.9	95	9.9	130	\$8.89
GS100100	10.0	95	10.0	130	\$8.89
GS100101	10.1	98	10.1	133	\$9.87
GS100102	10.2	98	10.2	133	\$9.87
GS100103	10.3	98	10.3	133	\$9.87
GS100104	10.4	98	10.4	133	\$9.87
GS100105	10.5	100	10.5	137	\$9.87
GS100106	10.6	100	10.6	137	\$10.85
GS100107	10.7	100	10.7	137	\$10.85
GS100108	10.8	103	10.8	140	\$10.85
GS100109	10.9	103	10.9	140	\$10.85
GS100110	11.0	103	11.0	140	\$10.85
GS100111	11.1	103	11.1	140	\$11.89
GS100112	11.2	106	11.2	143	\$11.89
GS100113	11.3	106	11.3	143	\$11.89
GS100114	11.4	106	11.4	143	\$11.89
GS100115	11.5	106	11.5	143	\$11.89
GS100116	11.6	109	11.6	146	\$13.28
GS100117	11.7	109	11.7	146	\$13.28
GS100118	11.8	109	11.8	146	\$13.28
GS100119	11.9	109	11.9	146	\$13.28
GS100120	12.0	111	12.0	149	\$13.28
GS100121	12.1	111	12.1	149	\$15.01
GS100122	12.2	111	12.2	149	\$15.01
GS100123	12.3	111	12.3	149	\$15.01
GS100124	12.4	114	12.4	152	\$15.01
GS100125	12.5	114	12.5	152	\$15.01
GS100126	12.6	114	12.6	152	\$16.16
GS100127	12.7	114	12.7	152	\$16.16
GS100128	12.8	114	12.8	152	\$16.16
GS100129	12.9	114	12.9	152	\$16.16
GS100130	13.0	114	13.0	152	\$16.16

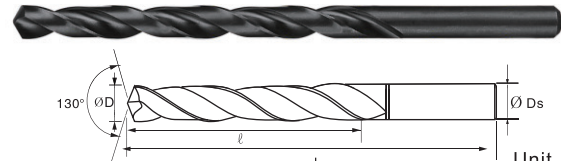
# HSS Drills with High-performance and Multi-purpose Series



## SD101 Series

### Cobalt Straight Shank Twist Drill

Material	HSS-E	Helix angle	38°	Point angle	130°
Suitable for processing	Stainless steel, titanium alloy, Quenched and tempered steel.				



Unit (mm)

Model No.	Cutting Diameter	Cutting Length	Shank Diameter	Total Length	List USD
	D	l	Ds	L	
SD101010	1.0	12	1.0	34	\$1.27
SD101011	1.1	14	1.1	36	\$1.27
SD101012	1.2	16	1.2	38	\$1.27
SD101013	1.3	16	1.3	38	\$1.27
SD101014	1.4	18	1.4	40	\$1.27
SD101015	1.5	18	1.5	40	\$1.27
SD101016	1.6	20	1.6	43	\$1.27
SD101017	1.7	20	1.7	43	\$1.27
SD101018	1.8	22	1.8	46	\$1.27
SD101019	1.9	22	1.9	46	\$1.27
SD101020	2.0	24	2.0	49	\$1.27
SD101021	2.1	24	2.1	49	\$1.62
SD101022	2.2	27	2.2	53	\$1.62
SD101023	2.3	27	2.3	53	\$1.62
SD101024	2.4	30	2.4	57	\$1.62
SD101025	2.5	30	2.5	57	\$1.62
SD101026	2.6	30	2.6	57	\$1.79
SD101027	2.7	33	2.7	61	\$1.79
SD101028	2.8	33	2.8	61	\$1.79
SD101029	2.9	33	2.9	61	\$1.79
SD101030	3.0	33	3.0	61	\$1.79
SD101031	3.1	36	3.1	65	\$2.19
SD101032	3.2	36	3.2	65	\$2.19
SD101033	3.3	36	3.3	65	\$2.19
SD101034	3.4	39	3.4	70	\$2.19
SD101035	3.5	39	3.5	70	\$2.19
SD101036	3.6	39	3.6	70	\$2.54
SD101037	3.7	39	3.7	70	\$2.54
SD101038	3.8	43	3.8	75	\$2.54
SD101039	3.9	43	3.9	75	\$2.54
SD101040	4.0	43	4.0	75	\$2.54
SD101041	4.1	43	4.1	75	\$3.06
SD101042	4.2	43	4.2	75	\$3.06
SD101043	4.3	47	4.3	80	\$3.06
SD101044	4.4	47	4.4	80	\$3.06
SD101045	4.5	47	4.5	80	\$3.06
SD101046	4.6	47	4.6	80	\$3.64
SD101047	4.7	47	4.7	80	\$3.64
SD101048	4.8	52	4.8	86	\$3.64
SD101049	4.9	52	4.9	86	\$3.64
SD101050	5.0	52	5.0	86	\$3.64
SD101051	5.1	52	5.1	86	\$4.21
SD101052	5.2	52	5.2	86	\$4.21
SD101053	5.3	52	5.3	86	\$4.21
SD101054	5.4	57	5.4	93	\$4.21
SD101055	5.5	57	5.5	93	\$4.21
SD101056	5.6	57	5.6	93	\$5.48
SD101057	5.7	57	5.7	93	\$5.48
SD101058	5.8	57	5.8	93	\$5.48
SD101059	5.9	57	5.9	93	\$5.48
SD101060	6.0	57	6.0	93	\$5.48
SD101061	6.1	63	6.1	101	\$6.64
SD101062	6.2	63	6.2	101	\$6.64
SD101063	6.3	63	6.3	101	\$6.64
SD101064	6.4	63	6.4	101	\$6.64
SD101065	6.5	63	6.5	101	\$6.64
SD101066	6.6	63	6.6	101	\$7.39
SD101067	6.7	63	6.7	101	\$7.39
SD101068	6.8	69	6.8	109	\$7.39
SD101069	6.9	69	6.9	109	\$7.39
SD101070	7.0	69	7.0	109	\$7.39

Carbide Drills

Hss Drills

U Drills

Head Exchangeable Drills

Deep Hole Drills

CDR 45 Chamfer Cutter

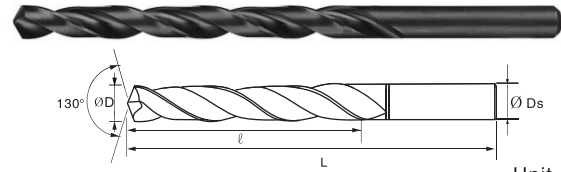
Non-standard Drill made

# HSS Drills with High-performance and Multi-purpose Series



## SD101 Series

Cobalt Straight Shank Twist Drill					
Material	HSS-E	Helix angle	38°	Point angle	130°
Suitable for processing	Stainless steel, titanium alloy, Quenched and tempered steel.				



Unit (mm)

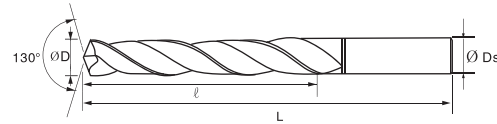
Model No.	Cutting Diameter	Cutting Length	Shank Diameter	Total Length	List USD
	D	l	Ds	L	
SD101071	7.1	69	7.1	109	\$8.77
SD101072	7.2	69	7.2	109	\$8.77
SD101073	7.3	69	7.3	109	\$8.77
SD101074	7.4	69	7.4	109	\$8.77
SD101075	7.5	69	7.5	109	\$8.77
SD101076	7.6	75	7.6	117	\$10.97
SD101077	7.7	75	7.7	117	\$10.97
SD101078	7.8	75	7.8	117	\$10.97
SD101079	7.9	75	7.9	117	\$10.97
SD101080	8.0	75	8.0	117	\$10.97
SD101081	8.1	75	8.1	117	\$12.12
SD101082	8.2	75	8.2	117	\$12.12
SD101083	8.3	75	8.3	117	\$12.12
SD101084	8.4	75	8.4	117	\$12.12
SD101085	8.5	75	8.5	117	\$12.12
SD101086	8.6	81	8.6	125	\$13.28
SD101087	8.7	81	8.7	125	\$13.28
SD101088	8.8	81	8.8	125	\$13.28
SD101089	8.9	81	8.9	125	\$13.28
SD101090	9.0	81	9.0	125	\$13.28
SD101091	9.1	81	9.1	125	\$14.43
SD101092	9.2	81	9.2	125	\$14.43
SD101093	9.3	81	9.3	125	\$14.43
SD101094	9.4	81	9.4	125	\$14.43
SD101095	9.5	81	9.5	125	\$14.43
SD101096	9.6	87	9.6	133	\$17.32
SD101097	9.7	87	9.7	133	\$17.32
SD101098	9.8	87	9.8	133	\$17.32
SD101099	9.9	87	9.9	133	\$17.32
SD101100	10.0	87	10.0	133	\$17.32
SD101101	10.1	87	10.1	133	\$19.05
SD101102	10.2	87	10.2	133	\$19.05
SD101103	10.3	87	10.3	133	\$19.05
SD101104	10.4	87	10.4	133	\$19.05
SD101105	10.5	87	10.5	133	\$19.05
SD101106	10.6	87	10.6	133	\$20.78
SD101107	10.7	94	10.7	142	\$20.78
SD101108	10.8	94	10.8	142	\$20.78
SD101109	10.9	94	10.9	142	\$20.78
SD101110	11.0	94	11.0	142	\$20.78
SD101111	11.1	94	11.1	142	\$22.51
SD101112	11.2	94	11.2	142	\$22.51
SD101113	11.3	94	11.3	142	\$22.51
SD101114	11.4	94	11.4	142	\$22.51
SD101115	11.5	94	11.5	142	\$22.51
SD101116	11.6	94	11.6	142	\$24.82
SD101117	11.7	94	11.7	142	\$24.82
SD101118	11.8	94	11.8	142	\$24.82
SD101119	11.9	101	11.9	151	\$24.82
SD101120	12.0	101	12.0	151	\$24.82
SD101121	12.1	101	12.1	151	\$26.55
SD101122	12.2	101	12.2	151	\$26.55
SD101123	12.3	101	12.3	151	\$26.55
SD101124	12.4	101	12.4	151	\$26.55
SD101125	12.5	101	12.5	151	\$26.55
SD101126	12.6	101	12.6	151	\$29.44
SD101127	12.7	101	12.7	151	\$29.44
SD101128	12.8	101	12.8	151	\$29.44
SD101129	12.9	101	12.9	151	\$29.44
SD101130	13.0	101	13.0	151	\$29.44

Carbide Drills  
Hss Drills  
U Drills  
Head Exchangable Drills  
Deep Hole Drills  
CDR 45° Chamfer Cutter  
Non-standard Drill made

**DT100 Series**

Grinding Titanium Coating Straight Shank Drill

Material	HSS-TIN	Helix angle	38°	Point angle	130°
Suitable for processing	Ordinary steel, alloy steel, cast iron, cast steel, by cutting the material hardness within HRC30.				



Unit (mm)

Model No.	Cutting Diameter	Cutting Length	Shank Diameter	Total Length	List USD
	D	l	Ds	L	
DT100030	3.0	33	3.0	61	\$1.90
DT100031	3.1	36	3.1	65	\$1.90
DT100032	3.2	36	3.2	65	\$1.90
DT100033	3.3	36	3.3	65	\$1.90
DT100034	3.4	39	3.4	70	\$1.90
DT100035	3.5	39	3.5	70	\$1.90
DT100036	3.6	39	3.6	70	\$2.02
DT100037	3.7	39	3.7	70	\$2.02
DT100038	3.8	43	3.8	75	\$2.02
DT100039	3.9	43	3.9	75	\$2.02
DT100040	4.0	43	4.0	75	\$2.02
DT100041	4.1	43	4.1	75	\$2.77
DT100042	4.2	43	4.2	75	\$2.77
DT100043	4.3	47	4.3	80	\$2.77
DT100044	4.4	47	4.4	80	\$2.77
DT100045	4.5	47	4.5	80	\$2.77
DT100046	4.6	47	4.6	80	\$2.94
DT100047	4.7	47	4.7	80	\$2.94
DT100048	4.8	52	4.8	86	\$2.94
DT100049	4.9	52	4.9	86	\$2.94
DT100050	5.0	52	5.0	86	\$2.94
DT100051	5.1	52	5.1	86	\$3.58
DT100052	5.2	52	5.2	86	\$3.58
DT100053	5.3	52	5.3	86	\$3.58
DT100054	5.4	57	5.4	93	\$3.58
DT100055	5.5	57	5.5	93	\$3.58
DT100056	5.6	57	5.6	93	\$3.75
DT100057	5.7	57	5.7	93	\$3.75
DT100058	5.8	57	5.8	93	\$3.75
DT100059	5.9	57	5.9	93	\$3.75
DT100060	6.0	57	6.0	93	\$3.75
DT100061	6.1	63	6.1	101	\$4.39
DT100062	6.2	63	6.2	101	\$4.39
DT100063	6.3	63	6.3	101	\$4.39
DT100064	6.4	63	6.4	101	\$4.39
DT100065	6.5	63	6.5	101	\$4.39
DT100066	6.6	63	6.6	101	\$4.62
DT100067	6.7	63	6.7	101	\$4.62
DT100068	6.8	69	6.8	109	\$4.62
DT100069	6.9	69	6.9	109	\$4.62
DT100070	7.0	69	7.0	109	\$4.62
DT100071	7.1	69	7.1	109	\$5.89
DT100072	7.2	69	7.2	109	\$5.89
DT100073	7.3	69	7.3	109	\$5.89
DT100074	7.4	69	7.4	109	\$5.89
DT100075	7.5	69	7.5	109	\$5.89
DT100076	7.6	75	7.6	109	\$7.04
DT100077	7.7	75	7.7	109	\$7.04
DT100078	7.8	75	7.8	109	\$7.04
DT100079	7.9	75	7.9	109	\$7.04
DT100080	8.0	75	8.0	109	\$7.04

Carbide Drills

Hss Drills

U Drills

Head Exchangeable Drills

Deep Hole Drills

CDR 45 Chamfer Cutter

Non-standard Drill made

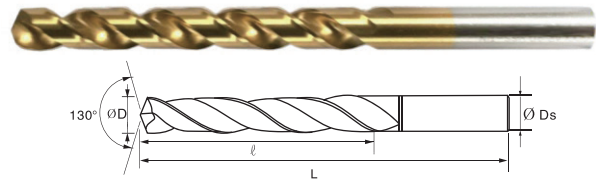
# HSS Drills with High-performance and Multi-purpose Series



## DT100 Series

Grinding Titanium Coating Straight Shank Drill

Material	HSS-TIN	Helix angle	38°	Point angle	130°
Suitable for processing	Ordinary steel, alloy steel, cast iron, cast steel, by cutting the material hardness within HRC30.				



Unit (mm)

Model No.	Cutting Diameter	Cutting Length	Shank Diameter	Total Length	List USD
	D	ℓ	Ds	L	
DT100081	8.1	75	8.1	109	\$9.24
DT100082	8.2	75	8.2	109	\$9.24
DT100083	8.3	75	8.3	109	\$9.24
DT100084	8.4	75	8.4	109	\$9.24
DT100085	8.5	75	8.5	109	\$9.24
DT100086	8.6	81	8.6	109	\$9.81
DT100087	8.7	81	8.7	109	\$9.81
DT100088	8.8	81	8.8	109	\$9.81
DT100089	8.9	81	8.9	109	\$9.81
DT100090	9.0	81	9.0	109	\$9.81
DT100091	9.1	81	9.1	125	\$11.54
DT100092	9.2	81	9.2	125	\$11.54
DT100093	9.3	81	9.3	125	\$11.54
DT100094	9.4	81	9.4	125	\$11.54
DT100095	9.5	81	9.5	125	\$11.54
DT100096	9.6	87	9.6	133	\$12.12
DT100097	9.7	87	9.7	133	\$12.12
DT100098	9.8	87	9.8	133	\$12.12
DT100099	9.9	87	9.9	133	\$12.12
DT100100	10.0	87	10.0	133	\$12.12
DT100101	10.1	87	10.1	133	\$13.28
DT100102	10.2	87	10.2	133	\$13.28
DT100103	10.3	87	10.3	133	\$13.28
DT100104	10.4	87	10.4	133	\$13.28
DT100105	10.5	87	10.5	133	\$13.28
DT100106	10.6	87	10.6	133	\$13.85
DT100107	10.7	94	10.7	142	\$13.85
DT100108	10.8	94	10.8	142	\$13.85
DT100109	10.9	94	10.9	142	\$13.85
DT100110	11.0	94	11.0	142	\$13.85
DT100111	11.1	94	11.1	142	\$15.01
DT100112	11.2	94	11.2	142	\$15.01
DT100113	11.3	94	11.3	142	\$15.01
DT100114	11.4	94	11.4	142	\$15.01
DT100115	11.5	94	11.5	142	\$15.01
DT100116	11.6	94	11.6	142	\$15.58
DT100117	11.7	94	11.7	142	\$15.58
DT100118	11.8	94	11.8	142	\$15.58
DT100119	11.9	101	11.9	151	\$15.58
DT100120	12.0	101	12.0	151	\$15.58
DT100121	12.1	101	12.1	151	\$17.31
DT100122	12.2	101	12.2	151	\$17.31
DT100123	12.3	101	12.3	151	\$17.31
DT100124	12.4	101	12.4	151	\$17.31
DT100125	12.5	101	12.5	151	\$17.31
DT100126	12.6	101	12.6	151	\$20.78
DT100127	12.7	101	12.7	151	\$20.78
DT100128	12.8	101	12.8	151	\$20.78
DT100129	12.9	101	12.9	151	\$20.78
DT100130	13.0	101	13.0	151	\$20.78

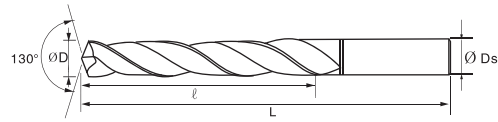
# HSS Drills with High-performance and Multi-purpose Series



## STD101 Series

Cobalt Titanium Coating Straight Shank Twist Drill

Material	HSS-E-TIN	Spiral angle	38°	Point angle	130°
Suitable for processing	Stainless steel, titanium alloy, Quenched and tempered steel.				



Unit (mm)

Model No.	Cutting Diameter	Cutting Length	Shank Diameter	Total Length	List USD
	D	l	Ds	L	
STD101020	2.0	24	2.0	49	\$2.02
STD101021	2.1	24	2.1	49	\$2.42
STD101022	2.2	27	2.2	53	\$2.42
STD101023	2.3	27	2.3	53	\$2.42
STD101024	2.4	30	2.4	57	\$2.42
STD101025	2.5	30	2.5	57	\$2.42
STD101026	2.6	30	2.6	57	\$2.71
STD101027	2.7	33	2.7	61	\$2.71
STD101028	2.8	33	2.8	61	\$2.71
STD101029	2.9	33	2.9	61	\$2.71
STD101030	3.0	33	3.0	61	\$2.71
STD101031	3.1	36	3.1	65	\$3.17
STD101032	3.2	36	3.2	65	\$3.17
STD101033	3.3	36	3.3	65	\$3.17
STD101034	3.4	39	3.4	70	\$3.17
STD101035	3.5	39	3.5	70	\$3.17
STD101036	3.6	39	3.6	70	\$3.81
STD101037	3.7	39	3.7	70	\$3.81
STD101038	3.8	43	3.8	75	\$3.81
STD101039	3.9	43	3.9	75	\$3.81
STD101040	4.0	43	4.0	75	\$3.81
STD101041	4.1	43	4.1	75	\$4.44
STD101042	4.2	43	4.2	75	\$4.44
STD101043	4.3	47	4.3	80	\$4.44
STD101044	4.4	47	4.4	80	\$4.44
STD101045	4.5	47	4.5	80	\$4.44
STD101046	4.6	47	4.6	80	\$5.19
STD101047	4.7	47	4.7	80	\$5.19
STD101048	4.8	52	4.8	86	\$5.19
STD101049	4.9	52	4.9	86	\$5.19
STD101050	5.0	52	5.0	86	\$5.19
STD101051	5.1	52	5.1	86	\$5.77
STD101052	5.2	52	5.2	86	\$5.77
STD101053	5.3	52	5.3	86	\$5.77
STD101054	5.4	57	5.4	93	\$5.77
STD101055	5.5	57	5.5	93	\$5.77
STD101056	5.6	57	5.6	93	\$7.50
STD101057	5.7	57	5.7	93	\$7.50
STD101058	5.8	57	5.8	93	\$7.50
STD101059	5.9	57	5.9	93	\$7.50
STD101060	6.0	57	6.0	93	\$7.50
STD101061	6.1	63	6.1	101	\$8.66
STD101062	6.2	63	6.2	101	\$8.66
STD101063	6.3	63	6.3	101	\$8.66
STD101064	6.4	63	6.4	101	\$8.66
STD101065	6.5	63	6.5	101	\$8.66
STD101066	6.6	63	6.6	101	\$9.81
STD101067	6.7	63	6.7	101	\$9.81
STD101068	6.8	69	6.8	109	\$9.81
STD101069	6.9	69	6.9	109	\$9.81
STD101070	7.0	69	7.0	109	\$9.81
STD101071	7.1	69	7.1	109	\$11.54
STD101072	7.2	69	7.2	109	\$11.54
STD101073	7.3	69	7.3	109	\$11.54
STD101074	7.4	69	7.4	109	\$11.54
STD101075	7.5	69	7.5	109	\$11.54

Carbide Drills

Hss Drills

U Drills

Head Exchangable Drills

Deep Hole Drills

CDR 45 Chamfer Cutter

Non-standard Drill made

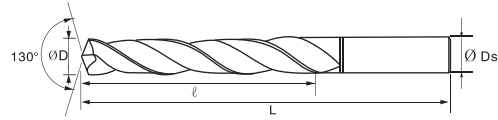
# HSS Drills with High-performance and Multi-purpose Series



## STD101 Series

Cobalt Titanium Coating Straight Shank Twist Drill

Material	HSS-E-TIN	Spiral angle	38°	Point angle	130°
Suitable for processing	Stainless steel, titanium alloy, Quenched and tempered steel.				



Unit (mm)

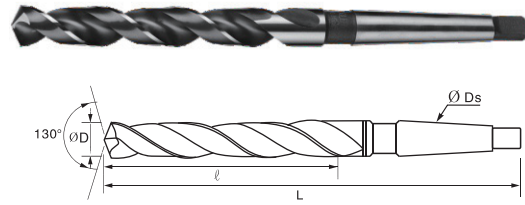
Model No.	Cutting Diameter	Cutting Length	Shank Diameter	Total Length	List USD
	D	l	Ds	L	
STD101076	7.6	75	7.6	109	\$13.85
STD101077	7.7	75	7.7	109	\$13.85
STD101078	7.8	75	7.8	109	\$13.85
STD101079	7.9	75	7.9	109	\$13.85
STD101080	8.0	75	8.0	109	\$13.85
STD101081	8.1	75	8.1	109	\$14.43
STD101082	8.2	75	8.2	109	\$14.43
STD101083	8.3	75	8.3	109	\$14.43
STD101084	8.4	75	8.4	109	\$14.43
STD101085	8.5	75	8.5	109	\$14.43
STD101086	8.6	81	8.6	109	\$16.16
STD101087	8.7	81	8.7	109	\$16.16
STD101088	8.8	81	8.8	109	\$16.16
STD101089	8.9	81	8.9	109	\$16.16
STD101090	9.0	81	9.0	109	\$16.16
STD101091	9.1	81	9.1	125	\$17.89
STD101092	9.2	81	9.2	125	\$17.89
STD101093	9.3	81	9.3	125	\$17.89
STD101094	9.4	81	9.4	125	\$17.89
STD101095	9.5	81	9.5	125	\$17.89
STD101096	9.6	87	9.6	133	\$20.20
STD101097	9.7	87	9.7	133	\$20.20
STD101098	9.8	87	9.8	133	\$20.20
STD101099	9.9	87	9.9	133	\$20.20
STD101100	10.0	87	10.0	133	\$20.20
STD101101	10.1	87	10.1	133	\$22.51
STD101102	10.2	87	10.2	133	\$22.51
STD101103	10.3	87	10.3	133	\$22.51
STD101104	10.4	87	10.4	133	\$22.51
STD101105	10.5	87	10.5	133	\$22.51
STD101106	10.6	87	10.6	133	\$24.82
STD101107	10.7	94	10.7	142	\$24.82
STD101108	10.8	94	10.8	142	\$24.82
STD101109	10.9	94	10.9	142	\$24.82
STD101110	11.0	94	11.0	142	\$24.82
STD101111	11.1	94	11.1	142	\$26.55
STD101112	11.2	94	11.2	142	\$26.55
STD101113	11.3	94	11.3	142	\$26.55
STD101114	11.4	94	11.4	142	\$26.55
STD101115	11.5	94	11.5	142	\$26.55
STD101116	11.6	94	11.6	142	\$30.59
STD101117	11.7	94	11.7	142	\$30.59
STD101118	11.8	94	11.8	142	\$30.59
STD101119	11.9	101	11.9	151	\$30.59
STD101120	12.0	101	12.0	151	\$30.59
STD101121	12.1	101	12.1	151	\$31.75
STD101122	12.2	101	12.2	151	\$31.75
STD101123	12.3	101	12.3	151	\$31.75
STD101124	12.4	101	12.4	151	\$31.75
STD101125	12.5	101	12.5	151	\$31.75
STD101126	12.6	101	12.6	151	\$35.21
STD101127	12.7	101	12.7	151	\$35.21
STD101128	12.8	101	12.8	151	\$35.21
STD101129	12.9	101	12.9	151	\$35.21
STD101130	13.0	101	13.0	151	\$35.21

# Cobalt Taper Shank Twist Drill



## SU103 Series

Cobalt Taper Shank Twist Drill					
Material	HSS-E	Spiral angle	38°	Point angle	130°
Suitable for processing	Stainless steel, titanium alloy, Quenched and tempered steel.				



Unit (mm)

Model No.	Cutting Diameter	Cutting Length	Shank Diameter	Total Length	List USD
	D	l	Ds	L	
SU103100	10.0	87	Mt1	168	\$27.30
SU103105	10.5	87	Mt1	168	\$28.89
SU103110	11.0	94	Mt1	175	\$29.84
SU103115	11.5	94	Mt1	175	\$31.43
SU103120	12.0	101	Mt1	182	\$32.70
SU103125	12.5	101	Mt1	182	\$34.29
SU103130	13.0	101	Mt1	182	\$36.51
SU103135	13.5	108	Mt1	189	\$39.68
SU103140	14.0	108	Mt1	189	\$42.54
SU103142	14.2	114	Mt1	212	\$46.67
SU103145	14.5	114	Mt2	212	\$46.67
SU103150	15.0	114	Mt2	212	\$50.48
SU103155	15.5	120	Mt2	218	\$54.29
SU103160	16.0	120	Mt2	218	\$57.46
SU103162	16.2	125	Mt2	223	\$61.27
SU103165	16.5	125	Mt2	223	\$61.27
SU103170	17.0	125	Mt2	223	\$67.94
SU103180	18.0	130	Mt2	228	\$74.92
SU103185	18.5	135	Mt2	233	\$80.32
SU103190	19.0	135	Mt2	233	\$89.52
SU103195	19.5	140	Mt2	238	\$92.38
SU103200	20.0	140	Mt2	238	\$97.78
SU103205	20.5	145	Mt2	243	\$102.22
SU103210	21.0	145	Mt2	243	\$108.57
SU103215	21.5	150	Mt2	248	\$115.56
SU103220	22.0	150	Mt2	248	\$122.22
SU103230	23.0	155	Mt2	253	\$133.65
SU103240	24.0	160	Mt3	281	\$146.67
SU103250	25.0	160	Mt3	281	\$160.32
SU103260	26.0	165	Mt3	286	\$187.30
SU103270	27.0	170	Mt3	291	\$230.79
SU103280	28.0	170	Mt3	296	\$268.57
SU103290	29.0	170	Mt3	296	\$305.08
SU103300	30.0	170	Mt3	296	\$341.90

Carbide Drills

Hss Drills

U Drills

Head Exchangeable Drills

Deep Hole Drills

CDR 45° Chamfer Cutter

Non-standard Drill made



## CUTTING CONDITIONS

### GS100 Series / DT100 Series

	<b>P</b>												
Material	Low carbon steel (C < 0.3)												
Cutting speed: Vc (m/min)	32-40m/min												
Diameter(mm)	1	2	3	4	5	6	7	8	9	10	11	12	13
Feed: f (mm/rev)	0.02-0.05	0.06-0.09	0.10-0.13	0.11-0.15	0.12-0.18	0.13-0.19	0.15-0.21	0.17-0.24	0.20-0.28	0.20-0.28	0.22-0.30	0.24-0.34	0.25-0.36

### SD101 Series / STD101 Series

	<b>M</b>												
Material	Stainless steel												
Cutting speed: Vc (m/min)	13-18m/min												
Diameter(mm)	1	2	3	4	5	6	7	8	9	10	11	12	13
Feed: f (mm/rev)	0.02-0.04	0.05-0.07	0.05-0.09	0.08-0.12	0.10-0.15	0.12-0.18	0.14-0.20	0.16-0.24	0.18-0.26	0.20-0.28	0.22-0.30	0.24-0.34	0.26-0.36

	<b>P</b>												
Material	Prehardened steel (= 300HB)												
Cutting speed: Vc (m/min)	21-26m/min												
Diameter(mm)	1	2	3	4	5	6	7	8	9	10	11	12	13
Feed: f (mm/rev)	0.02-0.05	0.06-0.09	0.10-0.13	0.11-0.15	0.12-0.18	0.13-0.19	0.15-0.21	0.17-0.24	0.20-0.28	0.20-0.28	0.22-0.30	0.24-0.34	0.25-0.36

### SU103 Series

	<b>M</b>																													
Material	Stainless steel																													
Cutting speed: Vc (m/min)	13-17m/min																													
Diameter(mm)	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30									
Feed: f (mm/rev)	0.20-0.28	0.22-0.30	0.24-0.34	0.26-0.36	0.28-0.39	0.29-0.40	0.30-0.43	0.31-0.45	0.32-0.47	0.33-0.48	0.34-0.50	0.35-0.52	0.26-0.36	0.37-0.55	0.38-0.57	0.39-0.58	0.40-0.60	0.40-0.62	0.41-0.63	0.41-0.64	0.42-0.66									

	<b>P</b>																													
Material	Prehardened steel (≤ 300HB)																													
Cutting speed: Vc (m/min)	21-26m/min																													
Diameter(mm)	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30									
Feed: f (mm/rev)	0.20-0.28	0.22-0.30	0.24-0.34	0.26-0.36	0.28-0.39	0.29-0.42	0.30-0.43	0.31-0.45	0.32-0.49	0.33-0.51	0.34-0.52	0.35-0.52	0.37-0.57	0.38-0.59	0.39-0.61	0.40-0.63	0.41-0.66	0.42-0.68	0.43-0.71	0.44-0.74	0.45-0.75									