OSG ASIA LOGISTICS CENTRE

VOL. 6.0



Empowered By
OSG Asia Logistics Centre

Guide of (Tool Specification) Icons

1 Tool Materials

- CARBIDE — Tungsten Carbide
- HSSE — HSS with 3% Vanadium
- PM — Powder Metallurgy HSS
- HSS — HSS
- HSS-Co — HSS with 8% Cobalt

2 Surface Treatment

- FX — FX Coating
- TiN — TiN Coating
- TiAlN — TiAlN Coating
- CrN — CrN Coating
- V — V Coating
- OX — Steam Oxide
- EgiAs — EgiAs Coating
- GOLD OXIDE — Gold Oxide
- HR — HR Coating
- BLUE FINISH — Blue Finish
- WXL — WXL Coating
- WXS — WXS Coating
- DURONEY — Durorey
- FPC — FPC Coating
- PURPLE COATING — Purple Coating
- RADIA — Radia Coating

3 Tolerance for diameter

- Tolerance
- Tolerance for milling diameter

4 Chamfer

- Chamfer length

5 Thread Depth & Hole Type

- Through Hole
- Blind Hole

6 Shank

- SHANK h6 — Tolerance for shank diameter
- SHANK FIT — Suitable for the shrink holder system

7 Helix Angle

- Display helix angle of flute for drills and taps

8 Corner Form

- Corner Sharp — Indicates that the end mill has a sharp corner edge

9 Tolerance of Ball-End Radius

- R ±0.01 — Identifies the tolerance of the radius for ball-end mills

Stock Item List

TAPS

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CARBIDE DRILLS

pg 45 to 59

CARBIDE END MILLS

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CARBIDE REAMERS

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HY-PRO HSS END MILLS

pg 88 to 92

SOMTA TOOLS

pg 96 to 110

INFORMATION

- Stocks of OSG catalogue EDP No. Items are not included in this catalogue. Please refer to OSG Japan Catalogues (Drilling Threading Tools & Milling Tools).
- Tool specification is subject to change without prior notice . Depending on the situation, some products maybe sold out or get discontinued.



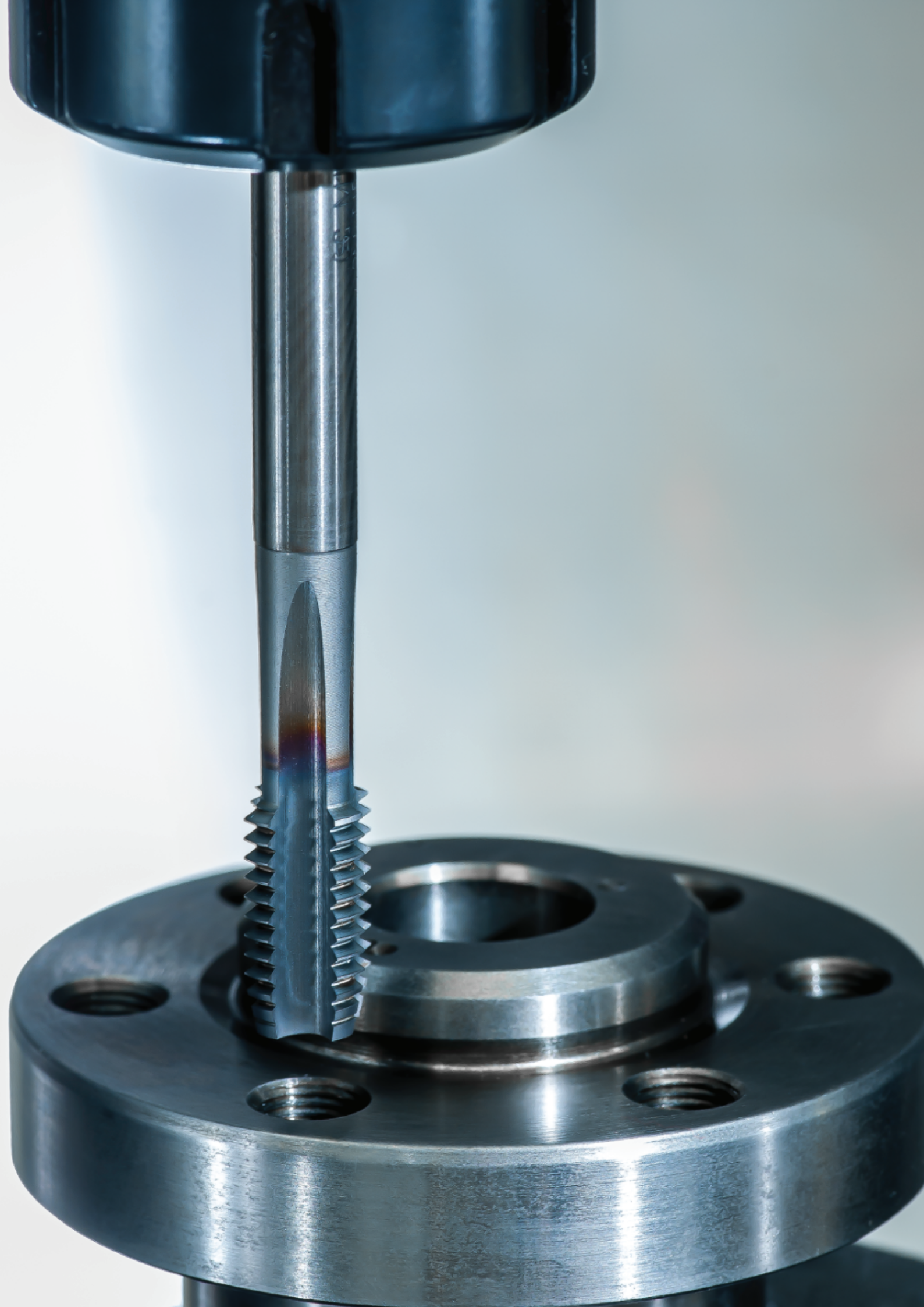
TAPS

TAPS
CONTENTS

Page	Symbol	DIN type	Surface Treatment	Stocked Size
6	A-POT	METRIC DIN 371	V	M3～M10
		METRIC DIN 376	V	M12～M24
		METRIC DIN 374	V	M6～M24
7		UNC DIN 2184-1	V	4-40 UNC～1-8 UNC
		UNF DIN 2184-1	V	6-40 UNF～1-12 UNF
8	A-SFT	METRIC DIN 371	V	M3～M10
		METRIC DIN 376	V	M12～M24
		METRIC DIN 374	V	M6～M24
9		UNC DIN 2184-1	V	4-40 UNC～1-8 UNC
		UNF DIN 2184-1	V	10-32 UNF～1-12 UNF
10		UNC DIN 2184-1	V	1/4-20～2-8 UNC
		Rc DIN 5156	V	Rc 1/6～Rc 1
11	A-SFT (FORM E)	METRIC DIN 371	V	M3～M10
		METRIC DIN 376	V	M12～M16
		METRIC DIN 374	V	M8～M12
12	VA-POT	METRIC DIN 371	OX	M2～M10
		METRIC FINE DIN 374	OX	M3～M24
13		METRIC DIN 376	OX	M12～M36
		METRIC DIN 371	OX	M2～M10
		METRIC DIN 376	OX	M12～M16
14		UNC DIN 2184-1	OX	4-40 UNC～3/8-16 UNC
		UNC DIN 2184-1	OX	7/16-14 UNC～1-8 UNC
		UNF DIN 2184-1	OX	6-40 UNF～3/8-24 UNF
		UNF DIN 2184-1	OX	7/16-20 UNF～1-12 UNF
15		UN(J)C DIN 2184-1	OX	4-40 UNJC～8-32 UNJC
		UNJ(F) DIN 2184-1	OX	10-32 UNJF～3/8-24 UNJF
		UNJ(F) DIN 2184-1	OX	7/16-20 UNJF～1/2-20 UNJF
16	VA-SFT	METRIC DIN 371	OX	M2～M10
		METRIC FINE DIN 374	OX	M3～M24
17		METRIC DIN 376	OX	M12～M36
		METRIC DIN 371	OX	M2～M10
		METRIC DIN 376	OX	M12～M16
18		UNC DIN 2184-1	OX	4-40 UNC～3/8-16 UNC
		UNC DIN 2184-1	OX	7/16-14 UNC～1-8 UNC
		UNF DIN 2184-1	OX	6-40 UNF～3/8-24 UNF
		UNF DIN 2184-1	OX	7/16-20 UNF～1-12 UNF
19		UN(J)C DIN 2184-1	OX	4-40 UNJC～8-32 UNJC
		UNJ(F) DIN 2184-1	OX	10-32 UNJF～3/8-24 UNJF
		UNJ(F) DIN 2184-1	OX	7/16-20 UNJF～1/2-20 UNJF
		G Thread DIN 5156	OX	G1/8-28～G1-11
20	VA-SFT (FORM E)	METRIC DIN 371	OX	M3～M10
		METRIC DIN 376	OX	M12～M16
21	POT	METRIC DIN 371	-	M3～M10
		METRIC DIN 376	-	M12～M24
	SFT	METRIC DIN 371	-	M3～M10
		METRIC DIN 376	-	M12～M24
22	CC-SFT	METRIC DIN 371	CrN	M2～M10
		METRIC DIN 376	CrN	M12～M24
		UN(J)C DIN 2184-1	CrN	8-32 UNJC～3/8-16 UNJC
23		UN(J)C DIN 2184-1	CrN	7/16-14 UNJC～1-8 UNJC
		UN(J)F DIN 2184-1	CrN	10-32 UNJF～3/8-24 UNJF
		UN(J)F DIN 2184-1	CrN	7/16-20 UNJF～1/2-20 UNJF
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TAPS
CONTENTS

Page	Symbol	DIN type	Surface Treatment	Stocked Size
24	CC-HL-SFT	UN(J)F DIN 2184-1	CrN	10-32 UNJF～3/8-24 UNJF
	WHR-NI-SFT	UNJ(F) DIN 2184-1	HR	10-32 UNJF～1/2-20 UNJF
25	AW-SFT	METRIC DIN 371	-	M5～M10
		METRIC DIN 376	-	M12～M16
		METRIC DIN 374	-	M10～M20
26	V-AW-SFT	METRIC DIN 371	V	M5～M10
		METRIC DIN 376	V	M12～M16
		METRIC DIN 374	V	M10～M20
27	V-TI-SFT	METRIC DIN 371	V	M3～M10
		METRIC DIN 376	V	M12
		UN(J)C DIN 2184-1	V	4-40 UNJC～8-32 UNJC
		UN(J)F DIN 2181-1	V	10-32 UNJF～3/8-24 UNJF
28	VPO-LW-SFT	METRIC DIN 371	V	M6～M10
		METRIC DIN 376	V	M12～M16
		METRIC FINE DIN 374	V	M9～M16
29	WXL-CPM-RFT	METRIC DIN 371	WXL	M6～M10
		METRIC DIN 376	WXL	M11～M18
		METRIC FINE DIN 374	WXL	M8～M18
30	VXL-SFT	UNC /UN	OX	1-8 UNC～2-8 UN
	HXL-SFT	UNC /UN	OX	1-8 UNC～2-8 UN
31	V-XPM-HT	METRIC DIN 371	V	M3～M10
		METRIC DIN 376	V	M12
	VPO-MT	METRIC DIN 371	V	M6～M8
		METRIC DIN 376	V	M14～M16
		METRIC DIN 374	V	M10～M16
32	TPT (NPT)	DIN 2181	-	NPT 1/16-27～NPT 1-11.5
33	V-DC-MT	METRIC DIN 371	V	M5～M10
		METRIC DIN 376	V	M12～M24
		METRIC FINE DIN 374	V	M10~M18
34		UNC DIN 2184-1	V	4-40 UNC～3/8-16 UNC
		UNC DIN 2184-1	V	7/16-14 UNC～1-8 UNC
		UNF DIN 2184-1	V	6-40 UNF～3/8-24 UNF
		UNF DIN 2184-1	V	7/16-20 UNF～1-12 UNF
35	OIL-V-DC-MT	METRIC DIN 371	V	M5～M10
		METRIC DIN 376	V	M12～M18
		METRIC FINE DIN 374	V	M10～M24
36	V-DC-MT (FORM E)	METRIC DIN 371	V	M6～M10
		METRIC DIN 376	V	M12
		METRIC FINE DIN 374	V	M8～M12
37	S-XPF	METRIC DIN 2174	V	M6～M10
		METRIC DIN 2174	V	M12～M16
		METRIC DIN 2174	V	M8～M20
38	OIL-S-XPF	METRIC DIN 2174	V	M6～M10
		METRIC DIN 2174	V	M12～M18
		METRIC DIN 2174	V	M8～M18
39	V-NRT-B	METRIC DIN 2174	V	M1～M5
	R-XPF	JIS FORM	V	M3～M6
		METRIC DIN 2174	V	M3～M6
40	HT SKS	METRIC JIS 3	-	M1～10



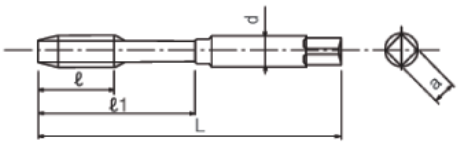
DIN HIGH PERFORMANCE TAP

A-POT

The A Brand

Powder metal spiral-point cutting tap for through holes.
High speed tapping in general steels, aluminium, stainless steels.





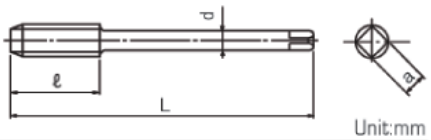
PM V B/4

METRIC DIN 371

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ	ℓ1	d	a	Z	List Price (USD)
48145138	M3 x 0.5	6HX	56	11	18	3.5	2.7	3	28.82
48145144	M4 x 0.7	6HX	63	13	21	4.5	3.4	3	29.59
48145149	M5 x 0.8	6HX	70	16	25	6	4.9	3	30.47
48145155	M6 x 1	6HX	80	19	30	6	4.9	3	30.75
48145161	M8 x 1.25	6HX	90	22	35	8	6.2	3	36.89
48145169	M10 x 1.5	6HX	100	24	39	10	8	3	44.97



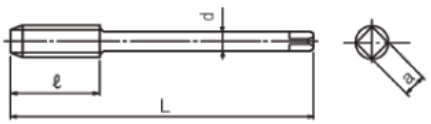


METRIC DIN 376

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ	ℓ1	d	a	Z	List Price (USD)
48145179	M12 x 1.75	6HX	110	28	-	9	7	3	56.65
48145191	M14 x 2	6HX	110	30	-	11	9	3	67.55
48145202	M16 x 2	6HX	110	32	-	12	9	3	79.37
48145214	M18 x 2.5	6HX	125	34	-	14	11	3	107.32
48145228	M20 x 2.5	6HX	140	34	-	16	12	3	127.12
48145238	M22 x 2.5	6HX	140	34	-	18	14.5	3	150.00
48145247	M24 x 3	6HX	160	38	-	18	14.5	3	163.58





METRIC DIN 374

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ	ℓ1	d	a	Z	List Price (USD)
48145156	M6 x 0.75	6HX	80	14	-	4.5	3.4	3	33.82
48145162	M8 x 1	6HX	90	22	-	6	4.9	3	40.53
48145171	M10 x 1	6HX	90	20	-	7	5.5	3	58.50
48145170	M10 x 1.25	6HX	100	24	-	7	5.5	3	49.50
48145182	M12 x 1	6HX	100	22	-	9	7	3	73.64
48145181	M12 x 1.25	6HX	100	22	-	9	7	3	67.99
48145180	M12 x 1.5	6HX	100	22	-	9	7	3	62.30
48145192	M14 x 1.5	6HX	100	22	-	11	9	4	74.32
48145203	M16 x 1.5	6HX	100	22	-	12	9	4	87.31
48145216	M18 x 1.5	6HX	110	25	-	14	11	4	118.02
48145230	M20 x 1.5	6HX	125	25	-	16	12	4	139.82
48145240	M22 x 1.5	6HX	125	25	-	18	14.5	4	145.41
48145250	M24 x 1.5	6HX	140	28	-	18	14.5	4	179.97

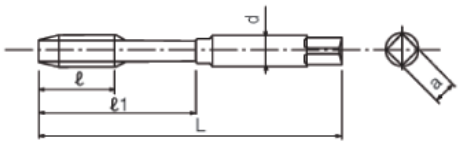
Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels				Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Bronze	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting	Titanium Alloy	Nickel Alloy	Thermo Setting Plastic	Thermo Plastic
	C ~0.25%	C0.25% ~0.45%	C 0.45%~	SCM	25~35 HRC	35~45 HRC	45~50 HRC	50~60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	PB	AL	AC,ADC	MC	ZDC				
A-POT	◎	◎	◎	◎	◎	○			◎	○	◎		◎	○	○	○	○	○	○	○	○	○			

Powder metal spiral-point cutting tap for through holes.
High speed tapping in general steels, aluminium, stainless steels.

The A Brand

DIN HIGH PERFORMANCE TAP

A-POT





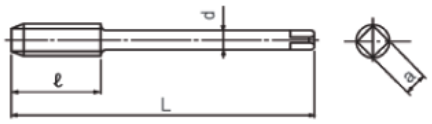


PM V B/4

Unit:mm

UNC DIN 2184-1

EDP NO.	Thread Size	TAP Limit	L	ℓ	ℓ1	d	a	Z	List Price (USD)
48145457	4-40 UNC	2BX	56	11	18	3.5	2.7	2	33.23
48145459	5-40 UNC	2BX	56	11	18	3.5	2.7	3	33.23
48145461	6-32 UNC	2BX	56	12	20	4	3	3	31.53
48145464	8-32 UNC	2BX	63	13	21	4.5	3.4	3	31.53
48145466	10-24 UNC	2BX	70	16	25	6	4.9	3	33.23
48145471	1/4-20 UNC	2BX	80	19	30	7	5.5	3	35.43
48145474	5/16-18 UNC	2BX	90	22	35	8	6.2	3	39.87
48145479	3/8-16 UNC	2BX	100	24	39	10	8	3	44.63



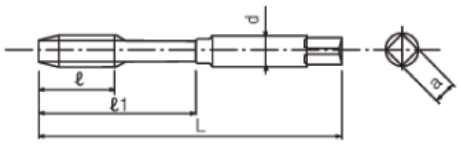




Unit:mm

UNC DIN 2184-1

EDP NO.	Thread Size	TAP Limit	L	ℓ	ℓ1	d	a	Z	List Price (USD)
48145484	7/16-14 UNC	2BX	100	24	-	8	6.2	3	54.26
48145489	1/2-13 UNC	2BX	110	28	-	9	7	3	59.43
48145494	9/16-12 UNC	2BX	110	30	-	11	9	3	66.43
48145501	5/8-11 UNC	2BX	110	32	-	12	9	3	73.06
48145515	3/4-10 UNC	2BX	125	34	-	14	11	3	98.75
48145526	7/8-9 UNC	2BX	140	34	-	18	14.5	3	119.77
48145538	1-8 UNC	2BX	160	38	-	18	14.5	3	156.75



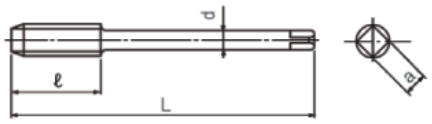




Unit:mm

UNF DIN 2184-1

EDP NO.	Thread Size	TAP Limit	L	ℓ	ℓ1	d	a	Z	List Price (USD)
48145462	6-40 UNF	2BX	56	12	20	4	3	3	44.01
48145467	10-32 UNF	2BX	70	16	25	6	4.9	3	44.77
48145472	1/4-28 UNF	2BX	80	19	30	7	5.5	3	48.68
48145476	5/16-24 UNF	2BX	90	22	35	8	6.2	3	52.03
48145481	3/8-24 UNF	2BX	90	20	35	10	8	3	56.30







Unit:mm

UNF DIN 2184-1

EDP NO.	Thread Size	TAP Limit	L	ℓ	ℓ1	d	a	Z	List Price (USD)
48145486	7/16-20 UNF	2BX	100	24	-	8	6.2	3	71.01
48145491	1/2-20 UNF	2BX	100	22	-	9	7	3	67.37
48145496	9/16-18 UNF	2BX	100	22	-	11	9	3	79.66
48145504	5/8-18 UNF	2BX	100	22	-	12	9	3	92.14
48145517	3/4-16 UNF	2BX	110	25	-	14	11	3	118.50
48145528	7/8-14 UNF	2BX	125	25	-	18	14.5	3	149.90
48145539	1-12 UNF	2BX	140	28	-	18	14.5	3	198.80

Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels				Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Bronze	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting	Titanium Alloy	Nickel Alloy	Thermo Setting Plastic	Thermo Plastic
	C ~0.25%	C0.25% ~0.45%	C 0.45%~	SCM	25~35 HRC	35~45 HRC	45~50 HRC	50~60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	PB	AL	AC,ADC	MC	ZDC				
A-POT	◎	◎	◎	◎	◎	○			◎	○	◎		◎	○	○	○	○	○	○	○	○	○			

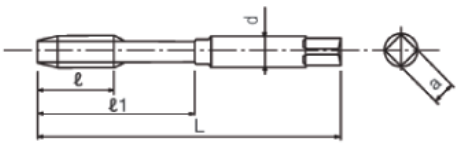
DIN HIGH PERFORMANCE TAP

A-SFT

The A Brand

Powder metal spiral-point cutting tap for blind holes.
High speed tapping in general steels, aluminium, stainless steels.





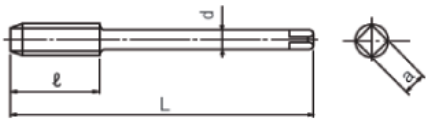
PM V 45° C/2.5

METRIC DIN 371

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ	ℓ1	d	a	Z	List Price (USD)
48139138	M3 x 0.5	6HX	56	4	18	3.5	2.7	3	29.69
48139144	M4 x 0.7	6HX	63	5.6	21	4.5	3.4	3	30.52
48139149	M5 x 0.8	6HX	70	6.4	25	6	4.9	3	31.40
48139155	M6 x 1	6HX	80	8	30	6	4.9	3	31.74
48139161	M8 x 1.25	6HX	90	10	35	8	6.2	3	38.01
48139169	M10 x 1.5	6HX	100	12	39	10	8	3	46.38



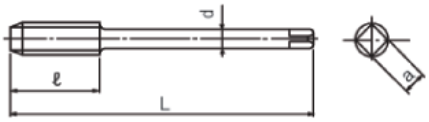


METRIC DIN 376

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ	ℓ1	d	a	Z	List Price (USD)
48139179	M12 x 1.75	6HX	110	14	-	9	7	3	58.40
48139191	M14 x 2	6HX	110	16	-	11	9	3	69.65
48139202	M16 x 2	6HX	110	16	-	12	9	3	81.82
48139214	M18 x 2.5	6HX	125	25	-	14	11	4	110.62
48139228	M20 x 2.5	6HX	140	25	-	16	12	4	131.06
48139238	M22 x 2.5	6HX	140	25	-	18	14.5	4	154.62
48139247	M24 x 3	6HX	160	30	-	18	14.5	4	168.64





METRIC DIN 374

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ	ℓ1	d	a	Z	List Price (USD)
48139156	M6 x 0.75	6HX	80	8	-	4.5	3.4	3	34.90
48139162	M8 x 1	6HX	90	10	-	6	4.9	3	41.81
48139171	M10 x 1	6HX	90	10	-	7	5.5	3	51.02
48139170	M10 x 1.25	6HX	100	12	-	7	5.5	3	60.30
48139182	M12 x 1	6HX	100	12	-	9	7	3	64.24
48139181	M12 x 1.25	6HX	100	12	-	9	7	3	70.08
48139180	M12 x 1.5	6HX	100	14	-	9	7	3	75.93
48139192	M14 x 1.5	6HX	100	16	-	11	9	3	76.60
48139203	M16 x 1.5	6HX	100	16	-	12	9	3	90.00
48139216	M18 x 1.5	6HX	110	16	-	14	11	4	121.68
48139230	M20 x 1.5	6HX	125	16	-	16	12	4	144.17
48139240	M22 x 1.5	6HX	125	16	-	18	14.5	4	149.90
48139250	M24 x 1.5	6HX	140	16	-	18	14.5	4	185.52

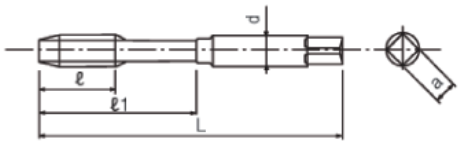
Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels				Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Bronze	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting	Titanium Alloy	Nickel Alloy	Thermo Setting Plastic	Thermo Plastic
	C ~0.25%	C0.25% ~0.45%	C 0.45%~	SCM	25~35 HRC	35~45 HRC	45~50 HRC	50~60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	PB	AL	AC,ADC	MC	ZDC				
A-SFT	○	◎	◎	○	◎				○	○	○		○	○	○	○	○	○	◎	○	○				

Powder metal spiral-point cutting tap for blind holes.
High speed tapping in general steels, aluminium, stainless steels.

The A Brand

DIN HIGH PERFORMANCE TAP

A-SFT





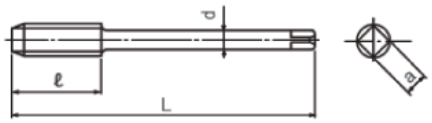


PM V 45° C/2.5

Unit:mm

UNC DIN 2184-1

EDP NO.	Thread Size	TAP Limit	L	ℓ	ℓ1	d	a	Z	List Price (USD)
48139457	4-40 UNC	2BX	56	5.1	18	3.5	2.7	2	40.45
48139461	6-32 UNC	2BX	56	6.4	20	4	3	2	38.25
48139464	8-32 UNC	2BX	63	6.4	21	4.5	3.4	2	38.20
48139466	10-24 UNC	2BX	70	8.5	25	6	4.9	2	40.45
48139471	1/4-20 UNC	2BX	80	10.2	30	7	5.5	2	44.77
48139474	5/16-18 UNC	2BX	90	11.3	35	8	6.2	3	46.78
48139479	3/8-16 UNC	2BX	100	12.7	39	10	8	3	51.92



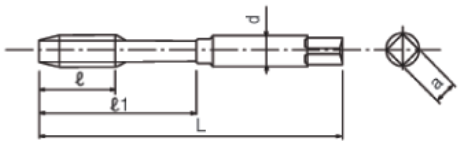




Unit:mm

UNC DIN 2184-1

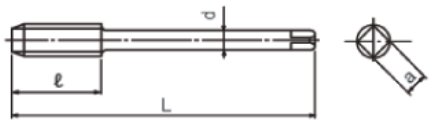
EDP NO.	Thread Size	TAP Limit	L	ℓ	ℓ1	d	a	Z	List Price (USD)
48139484	7/16-14 UNC	2BX	100	14.5	-	8	6.2	3	68.19
48139489	1/2-13 UNC	2BX	110	15.6	-	9	7	3	70.96
48139501	5/8-11 UNC	2BX	110	18.5	-	12	9	3	94.71
48139515	3/4-10 UNC	2BX	125	25.4	-	14	11	4	117.44
48139526	7/8-9 UNC	2BX	140	28.2	-	18	14.5	4	149.31
48139538	1-8 UNC	2BX	160	31.8	-	18	14.5	4	197.79



Unit:mm

UNF DIN 2184-1

EDP NO.	Thread Size	TAP Limit	L	ℓ	ℓ1	d	a	Z	List Price (USD)
48139467	10-32 UNF	2BX	70	8.5	25	6	4.9	2	56.07
48139472	1/4-28 UNF	2BX	80	10.2	30	7	5.5	2	63.42
48139476	5/16-24 UNF	2BX	90	11.3	35	8	6.2	3	66.68
48139481	3/8-24 UNF	2BX	90	12.7	35	10	8	3	68.04



Unit:mm

UNF DIN 2184-1

EDP NO.	Thread Size	TAP Limit	L	ℓ	ℓ1	d	a	Z	List Price (USD)
48139486	7/16-20 UNF	2BX	100	14.5	-	8	6.2	3	73.50
48139491	1/2-20 UNF	2BX	100	15.6	-	9	7	3	72.57
48139496	9/16-18 UNF	2BX	100	16.9	-	11	9	3	84.74
48139504	5/8-18 UNF	2BX	100	18.5	-	12	9	3	96.89
48139517	3/4-16 UNF	2BX	110	25.4	-	14	11	4	125.03
48139528	7/8-14 UNF	2BX	125	28.2	-	18	14.5	4	153.54
48139539	1-12 UNF	2BX	140	31.8	-	18	14.5	4	213.90

Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels				Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Bronze	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting	Titanium Alloy	Nickel Alloy	Thermo Setting Plastic	Thermo Plastic
	C ~0.25%	C0.25% ~0.45%	C 0.45%~	SCM	25~35 HRC	35~45 HRC	45~50 HRC	50~60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	PB	AL	AC,ADC	MC	ZDC				
A-SFT	○	◎	◎	○	◎				○	○	○		○	○	○	○	○	○	◎	○	○				

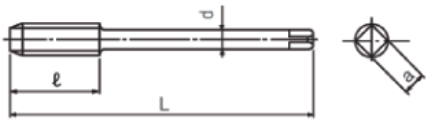
DIN HIGH PERFORMANCE TAP
(FOR OIL & GAS INDUSTRY)

A-SFT

The A Brand

HSSE spiral-point cutting tap for blind holes.
High speed tapping in general steels, aluminium, stainless steels.





HSSE V C/2.5

UNC DIN 2184-1

Unit:mm

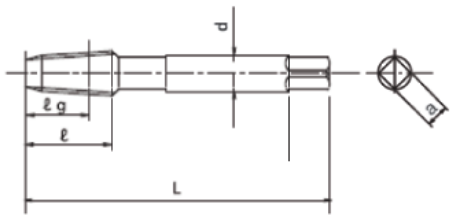
EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
T1403785	1/4 - 20 UNC	2B	80	10.2	4.5	3.4	2	44.68
T1403786	5/16 - 18 UNC	2B	90	11.3	6	4.9	3	46.73
T1403787	3/8 - 16 UNC	2B	100	12.7	7	5.5	3	51.79
T1403788	7/16 - 14 UNC	2B	100	14.5	8	6.2	3	68.00
T1403789	1/2 - 13 UNC	2B	110	15.6	9	7	3	70.76
T1403790	9/16 - 12 UNC	2B	110	16.9	11	9	3	85.17
T1403791	5/8 - 11 UNC	2B	110	18.5	12	9	3	94.42
T1403792	3/4 - 10 UNC	2B	125	25.4	14	11	4	117.19
T1403793	7/8 - 9 UNC	2B	140	28.2	18	14.5	4	163.53
T1404146	1 - 8 UNC	2B	160	31.8	18	14.5	4	197.25
T1403650	1 1/8 - 8 UNC	2B	180	38.1	22	18	4	357.70
T1403651	1 1/4 - 8 UNC	2B	180	38.1	22	18	4	432.71
T1403652	1 3/8 - 8 UNC	2B	200	38.1	28	22	4	484.63
T1403653	1 1/2 - 8 UNC	2B	200	38.1	28	22	4	623.14
T1403794	1 5/8 - 8 UNC	2B	200	38.1	32	24	4	951.94
T1403654	1 3/4 - 8 UNC	2B	200	38.1	36	29	4	1,136.58
T1403795	1 7/8 - 8 UNC	2B	225	38.1	36	29	4	1,333.29
T1403655	2 - 8 UNC	2B	225	38.1	40	32	4	1,615.47

Work Material / Abbreviation	Aluminum		Cast Iron	Low Carbon Steel	Med. Carbon Steel	High Carbon Steel	Alloy Steels	Die Steels	Titanium	High Nickel Alloy	Stainless Steels			Hardened Steels		
	6061 7075	Casting		1010 1018	1035 1045	1065	4140 4340	20 HRC	6Al4V (30HRC)	20 HRC	300	400	17-4PH	~35 HRC	35~45 HRC	45~50 HRC
A-SFT	○	○	○	◎	◎	◎	◎	○			◎	◎	○	○		

DIN HIGH PERFORMANCE TAP

A-SFT Rc (ISO)





PM V 45 C/2.5

DIN 5156

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓg	ℓ	d	a	Z	List Price (USD)
48302374	Rc 1/6-28	-	90	10.1	14	6	4.9	3	106.73
48302384	Rc 1/8-28	-	90	10.1	15	7	5.5	3	85.46
48302394	Rc 1/4-19	-	100	15	19	11	9	3	126.63
48302404	Rc 3/8-19	-	110	15.4	21	12	9	4	198.18
48302414	Rc 1/2-14	-	125	20.5	26	16	12	4	300.92
48302434	Rc 3/4-14	-	140	21.8	28	20	16	4	502.50
48302454	Rc 1-11	-	160	26	33	25	23	4	956.71

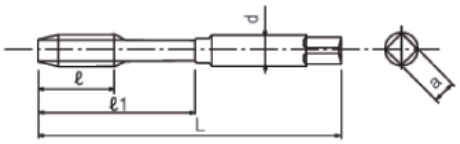
Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels				Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Bronze	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting	Titanium Alloy	Nickel Alloy	Thermo Setting Plastic	Thermo Plastic
	C ~0.25%	C0.25% ~0.45%	C 0.45%~	SCM	25~35 HRC	35~45 HRC	45~50 HRC	50~60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	PB	AL	AC,ADC	MC	ZDC				
A-SFT	○	◎	◎	○	◎				○	○	○		○	○	○	○	○	○	◎	○	○				

Powder metal spiral-fluted cutting tap for blind holes (Form E chamfer)
High speed tapping in general steels, aluminium, stainless steels

The A Brand

DIN HIGH PERFORMANCE TAP

A-SFT (FORM E)





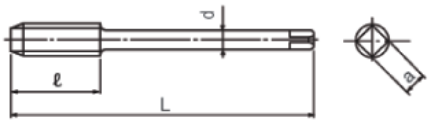




Unit:mm

METRIC DIN 371

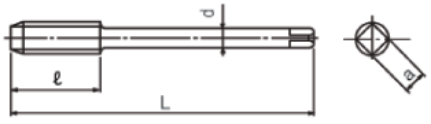
EDP NO.	Thread Size	TAP Limit	L	ℓ	ℓ1	d	a	Z	List Price (USD)
48203138	M3x0.5	6HX	56	4	18	3.5	2.7	3	29.68
48203144	M4x0.7	6HX	63	5.6	21	4.5	3.4	3	30.52
48203149	M5x0.8	6HX	70	6.4	25	6	4.9	3	31.40
48203155	M6x1	6HX	80	8	30	6	4.9	3	31.73
48203161	M8x1.25	6HX	90	10	35	8	6.2	3	38.00
48203169	M10x1.5	6HX	100	12	39	10	8	3	46.39



Unit:mm

METRIC DIN 376

EDP NO.	Thread Size	TAP Limit	L	ℓ	ℓ1	d	a	Z	List Price (USD)
48203179	M12x1.75	6HX	110	14	-	9	7	3	58.40
48203191	M14x2	6HX	110	16	-	11	9	3	69.65
48203202	M16x2	6HX	110	16	-	12	9	3	81.81







Unit:mm

METRIC DIN 374

EDP NO.	Thread Size	TAP Limit	L	ℓ	ℓ1	d	a	Z	List Price (USD)
48203162	M8x1	6HX	90	10	-	6	4.9	3	41.80
48203171	M10x1	6HX	90	10	-	7	5.5	3	60.30
48203170	M10x1.25	6HX	100	12	-	7	5.5	3	51.00
48203181	M12x1.25	6HX	100	14	-	9	7	3	70.08
48203180	M12x1.5	6HX	100	14	-	9	7	3	64.24

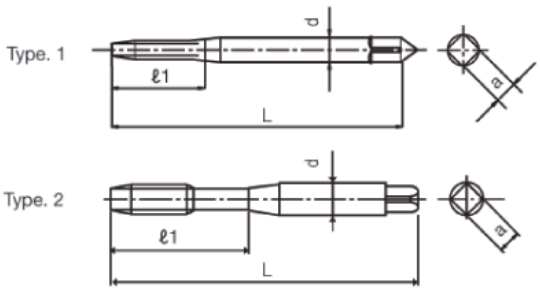
Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels				Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Bronze	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting	Titanium Alloy	Nickel Alloy	Thermo Setting Plastic	Thermo Plastic
	C ~0.25%	C0.25% ~0.45%	C 0.45%~	SCM	25~35 HRC	35~45 HRC	45~50 HRC	50~60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	PB	AL	AC,ADC	MC	ZDC				
A-SFT (FORM E)	○	◎	◎	○	◎				○	○	○		○	○	○	○	○	○	◎	○	○				

DIN GENERAL & SUS APPLICATION

VA-POT

HSSE spiral -point cutting tap for through holes.
General purpose tapping in steels and stainless steels.



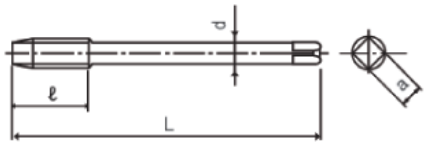


HSSE OX B/4

METRIC DIN 371

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	Type	List Price (USD)
63812560	M2 x 0.4	6H	45	8	2.8	2.1	2	1	22.10
63812860	M2.2 x 0.45	6H	45	9	2.8	2.1	2	1	21.82
63813360	M2.5 x 0.45	6H	50	9	2.8	2.1	2	1	21.66
63813860	M3 x 0.5	6H	56	18	3.5	2.7	3	2	19.13
63814060	M3.5 x 0.6	6H	56	20	4	3	3	2	20.10
63814460	M4 x 0.7	6H	63	21	4.5	3.4	3	2	19.51
63814960	M5 x 0.8	6H	70	25	6	4.9	3	2	20.24
63815560	M6 x 1	6H	80	30	6	4.9	3	2	20.44
63816160	M8 x 1.25	6H	90	35	8	6.2	3	2	23.56
63816960	M10 x 1.5	6H	100	39	10	8	3	2	29.64



HSSE OX B/4

METRIC FINE DIN 374

Unit:mm

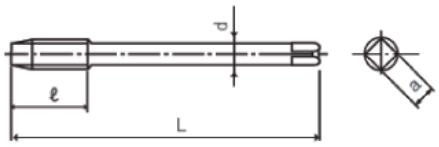
EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
63713960	M3 x 0.35	6H	56	9	2.2	-	3	28.53
63714560	M4 x 0.5	6H	63	10	2.8	2.1	3	28.53
63715160	M5 x 0.5	6H	70	12	3.5	2.7	3	29.64
63715760	M6 x 0.5	6H	80	14	4.5	3.4	3	28.91
63715660	M6 x 0.75	6H	80	14	4.5	3.4	3	30.61
63716360	M8 x 0.75	6H	80	18	6	4.9	3	30.47
63716260	M8 x 1	6H	90	22	6	4.9	3	32.94
63717160	M10 x 1	6H	90	20	7	5.5	3	46.35
63717060	M10 x 1.25	6H	100	24	7	5.5	3	40.50
63718260	M12 x 1	6H	100	22	9	7	3	38.89
63718160	M12 x 1.25	6H	100	22	9	7	3	39.07
63718060	M12 x 1.5	6H	100	22	9	7	3	38.89
63719260	M14 x 1.5	6H	100	22	11	9	3	58.02
63720360	M16 x 1.5	6H	100	22	12	9	3	67.07
63721660	M18 x 1.5	6H	110	25	14	11	3	83.80
63723060	M20 x 1.5	6H	125	25	16	12	3	85.71
63724060	M22 x 1.5	6H	125	25	18	14.5	3	107.32
63725060	M24 x 1.5	6H	140	28	18	14.5	3	114.47

Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels			Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Bronze	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting
	C ~ 0.25%	C0.25% ~ 0.45%	C 0.45% ~	SCM	25 ~ 45 HRC	45 ~ 55 HRC	50 ~ 60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	PB	AL	AC,ADC	MC	ZDC
VA-POT	◎	◎	◎	○				◎	○	○		○	○							

HSSE spiral -point cutting tap for through holes.
General purpose tapping in steels and stainless steels.

DIN GENERAL & SUS APPLICATION

VA-POT





HSSE OX B/4

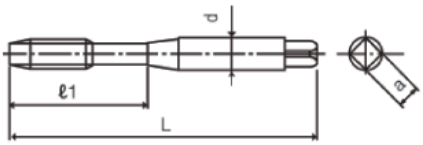
METRIC DIN 376

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
63917960	M12 x 1.75	6H	110	28	9	7	3	36.45
63919160	M14 x 2	6H	110	30	11	9	3	45.32
63920260	M16 x 2	6H	110	32	12	9	3	53.30
63921460	M18 x 2.5	6H	125	34	14	11	3	71.99
63922860	M20 x 2.5	6H	140	34	16	12	3	85.21
63923860	M22 x 2.5	6H	140	34	18	14.5	3	93.44
63924760	M24 x 3	6H	160	38	18	14.5	3	114.47
63926260	M27 x 3	6H	160	38	20	16	4	148.63
63927160	M30 x 3.5	6H	180	45	22	18	4	177.83
63928160	M33 x 3.5	6H	180	50	25	20	4	204.99
63929460	M36 x 4	6H	200	56	28	22	4	238.52



Type. 1



Type. 2



Type. 1



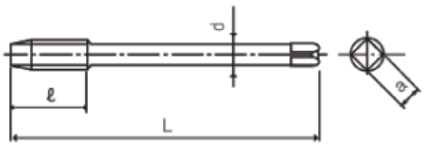
Type. 2

HSSE OX B/4

METRIC DIN 371

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	Type	List Price (USD)
63812599	M2 x 0.4	6G	45	8	2.8	2.1	2	1	25.46
63813399	M2.5 x 0.45	6G	50	9	2.8	2.1	2	1	24.97
63813899	M3 x 0.5	6G	56	18	3.5	2.7	3	2	22.05
63814499	M4 x 0.7	6G	63	21	4.5	3.4	3	2	22.40
63814999	M5 x 0.8	6G	70	25	6	4.9	3	2	23.31
63815599	M6 x 1	6G	80	30	6	4.9	3	2	23.56
63816199	M8 x 1.25	6G	90	35	8	6.2	3	2	27.15
63816999	M10 x 1.5	6G	100	39	10	8	3	2	34.02





HSSE OX B/4

METRIC DIN 376

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
63917999	M12 x 1.75	6G	110	28	9	7	3	42.05
63919199	M14 x 2	6G	110	30	11	9	3	52.22
63920299	M16 x 2	6G	110	32	12	9	3	61.27

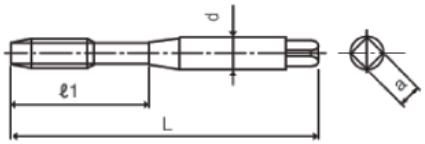
Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels			Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Bronze	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting
	C ~ 0.25%	C0.25% ~ 0.45%	C 0.45% ~	SCM	25 ~ 45 HRC	45 ~ 55 HRC	50 ~ 60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	PB	AL	AC,ADC	MC	ZDC
VA-POT	◎	◎	◎	○				◎	○	○		○	○							

DIN GENERAL & SUS APPLICATION

VA-POT

HSSE spiral -point cutting tap for through holes.
General purpose tapping in steels and stainless steels.





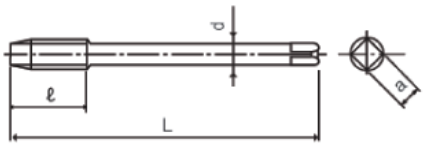
HSSE OX B/4

UNC DIN 2184-1

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	List Price (USD)
74845720	4-40 UNC	2B	56	18	3.5	2.7	2	23.59
74845920	5-40 UNC	2B	56	18	3.5	2.7	3	23.59
74846130	6-32 UNC	2B	56	20	4	3	3	22.48
74846430	8-32 UNC	2B	63	21	4.5	3.4	3	22.48
74846630	10-24 UNC	2B	70	25	6	4.9	3	23.59
74847150	1/4-20 UNC	2B	80	30	7	5.5	3	25.40
74847450	5/16-18 UNC	2B	90	35	8	6.2	3	28.77
74847950	3/8-16 UNC	2B	90	35	9	7	3	31.88

(Formerly was DIN 2182. No change of specifications)



HSSE OX B/4

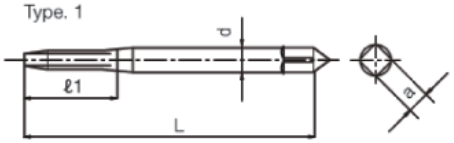
UNC DIN 2184-1

Unit:mm

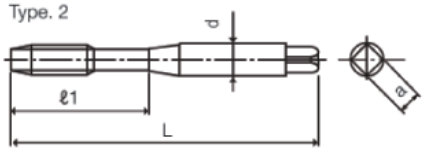
EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
75148450	7/16-14 UNC	2B	100	24	8	6.2	3	39.07
75148950	1/2-13 UNC	2B	110	29	9	7	3	42.87
75149450	9/16-12 UNC	2B	110	30	11	9	3	47.89
75150150	5/8-11 UNC	2B	110	32	12	9	3	52.95
75151550	3/4-10 UNC	2B	125	34	14	11	3	71.99
75152660	7/8-9 UNC	2B	140	34	18	14.5	3	86.96
75153860	1-8 UNC	2B	160	38	18	14.5	3	114.12

(Formerly was DIN 2183. No change of specifications)

Type. 1



Type. 2



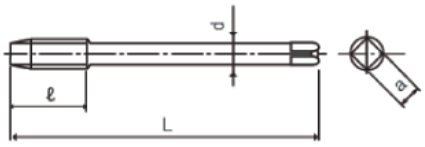
HSSE OX B/4

UNF DIN 2184-1

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	Type	List Price (USD)
75146220	6-40 UNF	2B	56	13	4	3	3	1	31.40
75146730	10-32 UNF	2B	70	25	6	4.9	3	2	32.28
75147240	1/4-28 UNF	2B	80	30	7	5.5	3	2	35.09
75147640	5/16-24 UNF	2B	90	35	8	6.2	3	2	37.66
75148140	3/8-24 UNF	2B	90	35	9	7	3	2	40.79

(Formerly was DIN 2182. No change of specifications)



HSSE OX B/4

UNF DIN 2184-1

Unit:mm

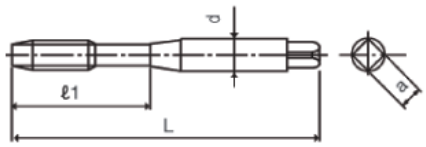
EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
75148650	7/16-20 UNF	2B	100	20	8	6.2	3	51.54
75149150	1/2-20 UNF	2B	100	22	9	7	3	48.81
75149650	9/16-18 UNF	2B	100	22	11	9	3	57.81
75150450	5/8-18 UNF	2B	100	22	12	9	3	66.68
75151750	3/4-16 UNF	2B	110	25	14	11	3	86.06
75152860	7/8-14 UNF	2B	125	25	18	14.5	3	109.31
75153960	1-12 UNF	2B	125	25	18	14.5	3	145.04

(Formerly was DIN 2183. No change of specifications)

HSSE spiral -point cutting tap for through holes.
General purpose tapping in steels and stainless steels.

DIN GENERAL & SUS APPLICATION

VA-POT





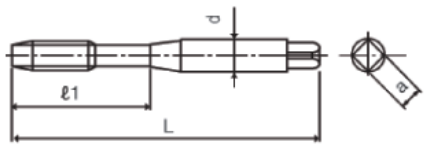
HSSE OX B/4

UNJC DIN 2184-1

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	List Price (USD)
48002457	4-40 UN(J)C	3B	56	18	3.5	2.7	2	28.28
48002461	6-32 UN(J)C	3B	56	20	4	3	3	26.96
48002464	8-32 UN(J)C	3B	63	21	4.5	3.4	3	26.96

(Formerly was DIN 2182. No change of specifications)



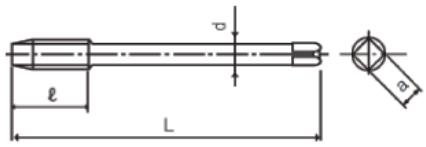
HSSE OX B/4

UNJF DIN 2184-1

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	List Price (USD)
48002467	10-32 UN(J)F	3B	70	25	6	4.9	3	38.59
48002472	1/4-28 UN(J)F	3B	80	30	7	5.5	3	42.09
48002476	5/16-24 UN(J)F	3B	90	35	8	6.2	3	45.12
48002481	3/8-24 UN(J)F	3B	90	35	9	7	3	48.80

(Formerly was DIN 2182. No change of specifications)



HSSE OX B/4

UNJF DIN 2184-1

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
48002486	7/16-20 UN(J)F	3B	100	20	8	6.2	3	61.80
48002491	1/2-20 UN(J)F	3B	100	22	9	7	3	58.55

(Formerly was DIN 2183. No change of specifications)

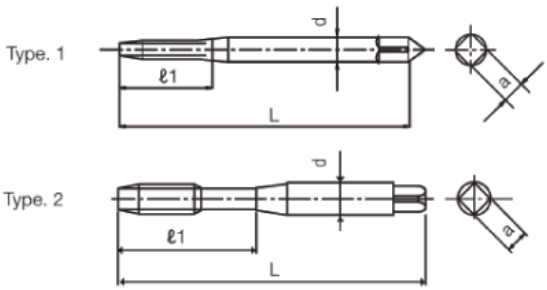
Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels			Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Bronze	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting
	C ~ 0.25%	C0.25% ~ 0.45%	C 0.45% ~	SCM	25 ~ 45 HRC	45 ~ 55 HRC	50 ~ 60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	PB	AL	AC,ADC	MC	ZDC
VA-POT	◎	◎	◎	○				◎	○	○		○	○							

DIN GENERAL & SUS APPLICATION

VA-SFT

HSSE spiral -point cutting tap for blind holes.
General purpose tapping in steels and stainless steels.



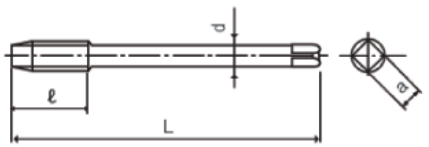


HSSE OX 40° C/2.5

METRIC DIN 371

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	Type	List Price (USD)
65312560	M2 x 0.4	6H	45	8	2.8	2.1	2	1	22.25
65312860	M2.2 x 0.45	6H	45	9	2.8	2.1	2	1	23.80
65313360	M2.5 x 0.45	6H	50	9	2.8	2.1	2	1	23.71
65313860	M3 x 0.5	6H	58	18	3.5	2.7	3	2	20.64
65314060	M3.5 x 0.6	6H	56	20	4	3	3	2	21.53
65314460	M4 x 0.7	6H	63	21	4.5	3.4	3	2	21.02
65314960	M5 x 0.8	6H	70	25	6	4.9	3	2	21.82
65315560	M6 x 1	6H	80	30	6	4.9	3	2	22.00
65316160	M8 x 1.25	6H	90	35	8	6.2	3	2	25.35
65316960	M10 x 1.5	6H	100	39	10	8	3	2	31.83



HSSE OX 40° C/2.5

METRIC FINE DIN 374

Unit:mm

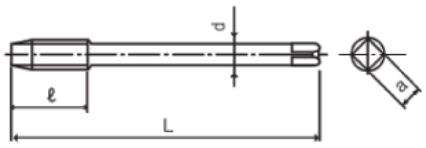
EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
65513960	M3 x 0.35	6H	56	4	2.2	-	3	30.90
65514560	M4 x 0.5	6H	63	6	2.8	2.1	3	30.90
65515160	M5 x 0.5	6H	70	7	3.5	2.7	3	31.83
65515760	M6 x 0.5	6H	80	8	4.5	3.4	3	31.05
65515660	M6 x 0.75	6H	80	8	4.5	3.4	3	31.83
65516360	M8 x 0.75	6H	80	10	6	4.9	3	32.94
65516260	M8 x 1	6H	90	10	6	4.9	3	32.80
65517160	M10 x 1	6H	90	12	7	5.5	4	35.68
65517060	M10 x 1.25	6H	100	12	7	5.5	4	35.68
65518260	M12 x 1	6H	100	14	9	7	4	41.91
65518160	M12 x 1.25	6H	100	14	9	7	4	42.11
65518060	M12 x 1.5	6H	100	14	9	7	4	41.91
65519260	M14 x 1.5	6H	100	16	11	9	4	53.97
65520360	M16 x 1.5	6H	100	16	12	9	5	62.54
65521660	M18 x 1.5	6H	110	20	14	11	5	72.07
65523060	M20 x 1.5	6H	125	20	16	12	5	90.33
65524060	M22 x 1.5	6H	125	20	18	14.5	5	97.68
65525060	M24 x 1.5	6H	140	24	18	14.5	5	122.41

Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels			Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Bronze	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting
	C ~ 0.25%	C0.25% ~ 0.45%	C 0.45% ~	SCM	25 ~ 45 HRC	45 ~ 55 HRC	50 ~ 60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	PB	AL	AC,ADC	MC	ZDC
VA-SFT	◎	◎	◎	○				◎	○	○			○	○						

HSSE spiral -point cutting tap for blind holes.
General purpose tapping in steels and stainless steels.

DIN GENERAL & SUS APPLICATION

VA-SFT

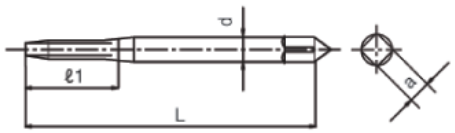


HSSE OX 40° C/2.5

Unit:mm

METRIC DIN 376

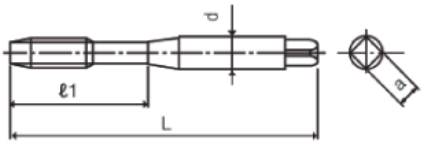
EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
65417960	M12 x 1.75	6H	110	18	9	7	4	39.23
65419160	M14 x 2	6H	110	20	11	9	4	48.81
65420260	M16 x 2	6H	110	20	12	9	4	57.29
65421460	M18 x 2.5	6H	125	25	14	11	4	77.44
65422860	M20 x 2.5	6H	140	25	16	12	4	91.74
65423860	M22 x 2.5	6H	140	25	18	14.5	4	100.01
65424760	M24 x 3	6H	160	30	18	14.5	4	122.85
65426260	M27 x 3	6H	160	30	20	16	5	159.97
65427160	M30 x 3.5	6H	180	35	22	18	5	192.38
65428160	M33 x 3.5	6H	180	35	25	20	5	219.93
65429460	M36 x 4	6H	200	40	28	22	5	257.20



Type. 1







Type. 2



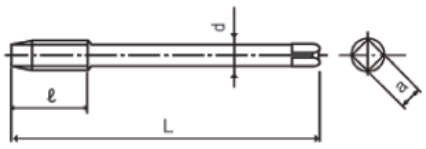


HSSE OX 40° C/2.5

Unit:mm

METRIC DIN 371

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	Type	List Price (USD)
65312599	M2 x 0.4	6G	45	8	2.8	2.1	2	1	25.46
65313399	M2.5 x 0.45	6G	50	9	2.8	2.1	2	1	27.31
65313899	M3 x 0.5	6G	56	18	3.5	2.7	3	2	23.71
65314499	M4 x 0.7	6G	63	21	4.5	3.4	3	2	24.15
65314999	M5 x 0.8	6G	70	25	6	4.9	3	2	25.17
65315599	M6 x 1	6G	80	30	8	4.9	3	2	25.35
65316199	M8 x 1.25	6G	90	35	8	6.2	3	2	29.15
65316999	M10 x 1.5	6G	100	39	10	8	3	2	36.55



HSSE OX 40° C/2.5

Unit:mm

METRIC DIN 376

EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
65417999	M12 x 1.75	6G	110	18	9	7	4	45.20
65419199	M14 x 2	6G	110	20	11	9	4	56.12
65420299	M16 x 2	6G	110	20	12	9	4	65.99

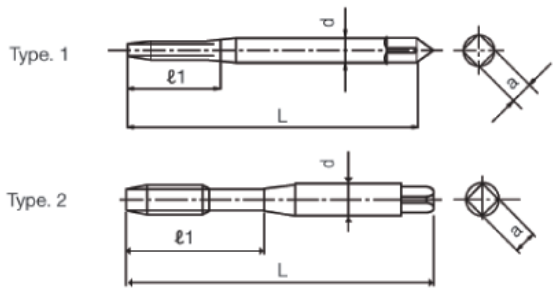
Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels			Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Bronze	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting
	C ~ 0.25%	C0.25% ~ 0.45%	C 0.45% ~	SCM	25 ~ 45 HRC	45 ~ 55 HRC	50 ~ 60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	PB	AL	AC,ADC	MC	ZDC
VA-SFT	◎	◎	◎	○				◎	○	○			○	○						

DIN GENERAL & SUS APPLICATION

VA-SFT

HSSE spiral -point cutting tap for blind holes.
General purpose tapping in steels and stainless steels.





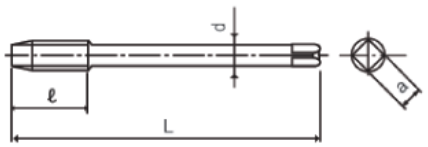
HSSE OX 40° C/2.5

UNC DIN 2184-1

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	Type	List Price (USD)
74945730	4-40 UNC	2B	56	11	3.5	2.7	2	1	29.64
74945930	5-40 UNC	2B	56	18	3.5	2.7	3	2	29.64
74946130	6-32 UNC	2B	56	20	4	3	3	2	27.98
74946430	8-32 UNC	2B	63	21	4.5	3.4	3	2	27.98
74946630	10-24 UNC	2B	70	25	6	4.9	3	2	29.64
74947150	1/4-20 UNC	2B	80	30	7	5.5	3	2	32.80
74947450	5/16-18 UNC	2B	90	35	8	6.2	3	2	34.26
74947950	3/8-16 UNC	2B	90	35	9	7	3	2	38.01

(Formerly was DIN 2182. No change of specifications)



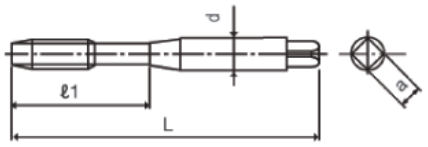
HSSE OX 40° C/2.5

UNC DIN 2184-1

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
75248450	7/16-14 UNC	2B	100	19	8	6.2	4	49.99
75248950	1/2-13 UNC	2B	110	20	9	7	4	51.98
75249450	9/16-12 UNC	2B	110	22	11	9	4	60.65
75250150	5/8-11 UNC	2B	110	24	12	9	4	69.35
75251550	3/4-10 UNC	2B	125	26	14	11	4	86.06
75252660	7/8-9 UNC	2B	140	29	18	14.5	4	109.31
75253860	1-8 UNC	2B	160	32	18	14.5	5	145.04

(Formerly was DIN 2183. No change of specifications)



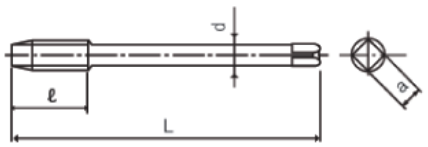
HSSE OX 40° C/2.5

UNF DIN 2184-1

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	List Price (USD)
75246220	6-40 UNF	2B	56	20	4	3	3	33.10
75246730	10-32 UNF	2B	70	25	6	4.9	3	34.26
75247240	1/4-28 UNF	2B	80	30	7	5.5	3	38.84
75247640	5/16-24 UNF	2B	90	35	8	6.2	3	40.79
75248140	3/8-24 UNF	2B	90	35	9	7	3	41.71

(Formerly was DIN 2182. No change of specifications)



HSSE OX 40° C/2.5

UNF DIN 2184-1

Unit:mm

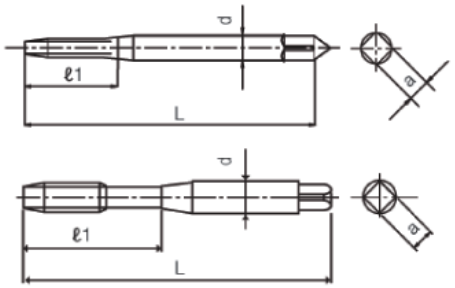
EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
75248650	7/16-20 UNF	2B	100	15	8	6.2	3	53.88
75249150	1/2-20 UNF	2B	100	16	9	7	3	53.20
75249650	9/16-18 UNF	2B	100	17	11	9	3	62.06
75250450	5/8-18 UNF	2B	100	18	12	9	3	70.96
75251750	3/4-16 UNF	2B	110	21	14	11	3	91.63
75252860	7/8-14 UNF	2B	125	23	18	14.5	3	112.48
75253960	1-12 UNF	2B	125	25	18	14.5	3	156.57

(Formerly was DIN 2183. No change of specifications)

HSSE spiral -point cutting tap for blind holes.
General purpose tapping in steels and stainless steels.

DIN GENERAL & SUS APPLICATION

VA-SFT





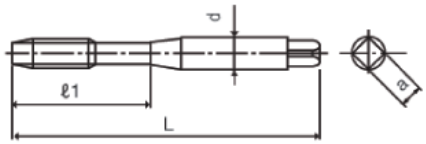
HSSE OX 40° C/2.5

Unit:mm

UNJC DIN 2184-1

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	Type	List Price (USD)
48001457	4-40 UN(J)C	3B	56	11	3.5	2.7	2	1	35.53
48001461	6-32 UN(J)C	3B	56	20	4	3	3	2	33.67
48001464	8-32 UN(J)C	3B	63	21	4.5	3.4	3	2	33.67

(Formerly was DIN 2182. No change of specifications)



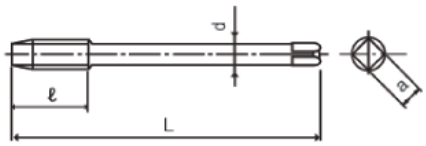
HSSE OX 40° C/2.5

Unit:mm

UNJF DIN 2184-1

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	List Price (USD)
48001467	10-32 UN(J)F	3B	70	25	6	4.9	3	41.13
48001472	1/4-28 UN(J)F	3B	80	30	7	5.5	3	46.39
48001476	5/16-24 UN(J)F	3B	90	35	8	6.2	3	48.80
48001481	3/8-24 UN(J)F	3B	90	35	9	7	3	49.83

(Formerly was DIN 2182. No change of specifications)



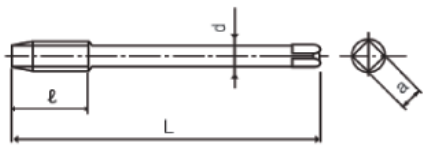
HSSE OX 40° C/2.5

Unit:mm

UNJF DIN 2184-1

EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
48001486	7/16-20 UN(J)F	3B	100	15	8	6.2	4	64.63
48001491	1/2-20 UN(J)F	3B	100	16	9	7	4	63.70

(Formerly was DIN 2183. No change of specifications)



HSSE OX 40° C/2.5

Unit:mm

G THREAD DIN 5156

EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
65881909	G1/8-28	-	90	11	7	5.5	4	53.49
65882009	G1/4-19	-	100	16	11	9	4	72.18
65882109	G3/8-19	-	100	16	12	9	5	90.57
65882209	G1/2-14	-	125	22	16	12	5	126.29
65882309	G5/8-14	-	125	22	18	14.5	5	155.21
65882409	G3/4-14	-	140	22	20	16	5	206.07
65882509	G7/8-14	-	150	22	22	18	5	261.35
65882609	G1-11	-	160	28	25	20	5	292.53

Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels			Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Bronze	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting
	C ~ 0.25%	C0.25% ~ 0.45%	C 0.45% ~	SCM	25 ~ 45 HRC	45 ~ 55 HRC	50 ~ 60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	PB	AL	AC,ADC	MC	ZDC
VA-SFT	◎	◎	◎	○				◎	○	○			○	○						

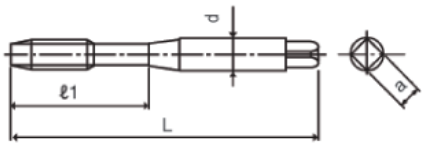
DIN GENERAL & SUS APPLICATION

VA-SFT (FORM E)

(Formerly was VA-SC-SFT)

HSSE spiral -point cutting tap for blind holes.
General purpose tapping in steels and stainless steels.
Form E Chamfer



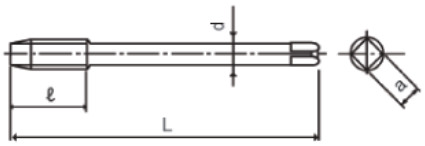


HSSE OX 40° E/1.5

METRIC DIN 371

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	List Price (USD)
48036138	M3 x 0.5	6H	56	18	3.5	2.7	3	21.41
48036144	M4 x 0.7	6H	63	21	4.5	3.4	3	21.82
48036149	M5 x 0.8	6H	70	25	6	4.9	3	22.59
48036155	M6 x 1	6H	80	30	6	4.9	3	22.77
48036161	M8 x 1.25	6H	90	35	8	6.2	3	26.28
48036169	M10 x 1.5	6H	100	39	10	8	3	33.05



HSSE OX 40° E/1.5

METRIC DIN 376

Unit:mm

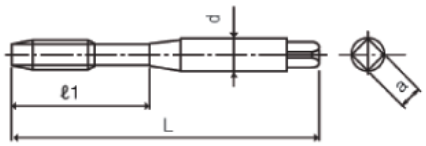
EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
48036179	M12 x 1.75	6H	110	18	9	7	3	40.74
48036191	M14 x 2	6H	110	20	11	9	3	50.67
48036202	M16 x 2	6H	110	20	12	9	3	59.48

Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels			Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Bronze	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting
	C ~ 0.25%	C0.25% ~ 0.45%	C 0.45% ~	SCM	25 ~ 45 HRC	45 ~ 55 HRC	50 ~ 60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	PB	AL	AC,ADC	MC	ZDC
VA-SFT (FORM E)	◎	◎	◎	○				◎	○	○		○	○							

HSSE spiral-point cutting tap for through holes.
For general purpose applications.

DIN GENERAL TAP

POT



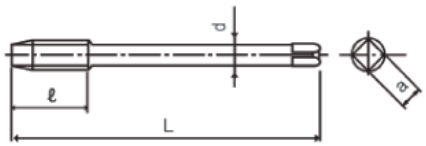


HSSE B/4

Unit:mm

METRIC DIN 371

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	List Price (USD)
48092138	M3 x 0.5	6H	56	18	3.5	2.7	3	14.26
48092144	M4 x 0.7	6H	63	21	4.5	3.4	3	13.59
48092149	M5 x 0.8	6H	70	25	6	4.9	3	14.02
48092155	M6 x 1	6H	80	30	6	4.9	3	14.84
48092161	M8 x 1.25	6H	90	35	8	6.2	3	21.85
48092169	M10 x 1.5	6H	100	39	10	8	3	27.84



HSSE B/4

Unit:mm

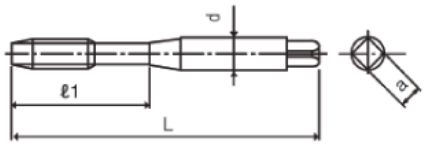
METRIC DIN 376

EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
48092179	M12 x 1.75	6H	110	28	9	7	3	36.45
48092191	M14 x 2	6H	110	30	11	9	3	45.32
48092202	M16 x 2	6H	110	32	12	9	3	53.30
48092214	M18 x 2.5	6H	125	34	14	11	3	71.99
48092228	M20 x 2.5	6H	140	34	16	12	3	85.21
48092238	M22 x 2.5	6H	140	34	18	14.5	3	93.44
48092247	M24 x 3	6H	160	38	18	14.5	3	114.47

HSSE spiral-fluted cutting tap for blind holes.
For general purpose applications.

DIN GENERAL TAP

SFT



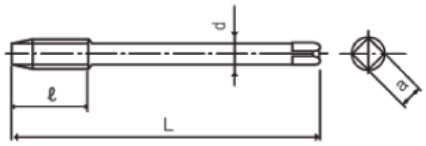


HSSE 40° C/2.5

Unit:mm

METRIC DIN 371

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	List Price (USD)
48091138	M3 x 0.5	6H	56	18	3.5	2.7	3	14.70
48091144	M4 x 0.7	6H	63	21	4.5	3.4	3	14.07
48091149	M5 x 0.8	6H	70	25	6	4.9	3	14.51
48091155	M6 x 1	6H	80	30	6	4.9	3	15.42
48091161	M8 x 1.25	6H	90	35	8	6.2	3	22.72
48091169	M10 x 1.5	6H	100	39	10	8	3	28.56



HSSE 40° C/2.5

Unit:mm

METRIC DIN 376

EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
48091179	M12 x 1.75	6H	110	18	9	7	3	39.23
48091191	M14 x 2	6H	110	20	11	9	3	48.81
48091202	M16 x 2	6H	110	20	12	9	3	57.29
48091214	M18 x 2.5	6H	125	25	14	11	3	77.44
48091228	M20 x 2.5	6H	140	25	16	12	3	91.74
48091238	M22 x 2.5	6H	140	25	18	14.5	3	100.01
48091247	M24 x 3	6H	160	30	18	14.5	3	122.85

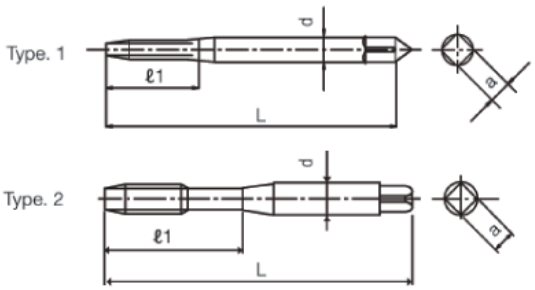
Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels			Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Bronze	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting
	C ~ 0.25%	C0.25% ~ 0.45%	C 0.45% ~	SCM	25 ~ 45 HRC	45 ~ 55 HRC	50 ~ 60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	PB	AL	AC,ADC	MC	ZDC
POT	○	○	○	○						○		○	○	○	○	○	◎	○	○	◎
SFT	○	○	○	○						○		○	○	○	○	○	○	○	○	○

DIN CHIP CONTROL TAP

CC-SFT

HSSE spiral-fluted cutting tap for blind holes.
For general steels, stainless steels and aluminium.
Developed for rigid tapping on CNC machines.





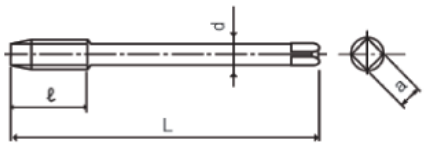
HSSE CrN 45° C/2.5

METRIC DIN 371

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	Type	List Price (USD)
48032125	M2 x 0.4	6HX	45	8	2.8	2.1	2	1	34.37
48032133	M2.5 x 0.45	6HX	50	10	2.8	2.1	2	1	33.97
48032138	M3 x 0.5	6HX	56	12	3.5	2.7	3	1	29.69
48032144	M4 x 0.7	6HX	63	16	4.5	3.4	3	1	30.52
48032149	M5 x 0.8	6HX	70	20	6	4.9	3	1	31.40
48032155	M6 x 1	6HX	80	24	6	4.9	3	1	31.74
48032161	M8 x 1.25	6HX	90	35	8	6.2	3	2	38.01
48032169	M10 x 1.5	6HX	100	39	10	8	4	2	46.38



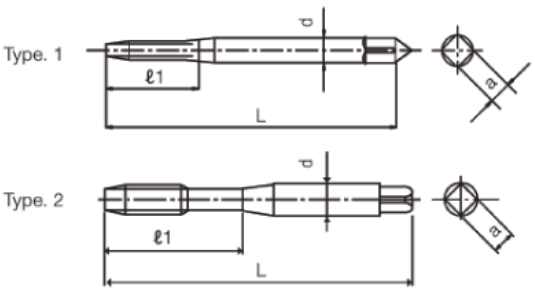


HSSE CrN 45° C/2.5

METRIC DIN 376

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
48032179	M12 x 1.75	6HX	110	16	9	7	4	58.40
48032191	M14 x 2	6HX	110	18	11	9	4	69.65
48032202	M16 x 2	6HX	110	18	12	9	4	81.82
48032214	M18 x 2.5	6HX	125	23	14	11	4	110.62
48032228	M20 x 2.5	6HX	140	23	16	12	4	131.06
48032247	M24 x 3	6HX	160	27	18	14.5	4	168.64



HSSE CrN 45° C/2.5

UNJC DIN 2184-1

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	Type	List Price (USD)
48032464	8-32 UN(J)C	3B	63	16.7	4.5	3.4	3	1	38.12
48032466	10-24 UN(J)C	3B	70	19.3	6	4.9	3	1	40.39
48032471	1/4-20 UN(J)C	3B	80	25.4	7	5.5	3	1	44.68
48032474	5/16-18 UN(J)C	3B	90	13	8	6.2	3	2	46.73
48032479	3/8-16 UN(J)C	3B	100	15	9	7	3	2	51.79

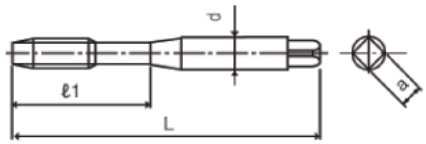
(Formerly was DIN 2182. No change of specifications)

Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels			Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Bronze	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting
	C ~ 0.25%	C0.25% ~ 0.45%	C 0.45% ~	SCM	25 ~ 45 HRC	45 ~ 55 HRC	50 ~ 60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	PB	AL	AC,ADC	MC	ZDC
CC-SFT	◎	◎	◎	○				◎					○				◎			

HSSE spiral-fluted cutting tap for blind holes.
For general steels, stainless steels and aluminium.
Developed for rigid tapping on CNC machines.

DIN CHIP CONTROL TAP

CC-SFT





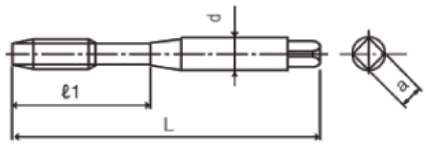
HSSE CrN 45° C/2.5

Unit:mm

UN(J)C DIN 2184-1

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	List Price (USD)
48032484	7/16-14 UN(J)C	3B	100	17	8	6.2	4	67.99
48032489	1/2-13 UN(J)C	3B	110	18	9	7	4	70.76
48032501	5/8-11 UN(J)C	3B	110	21	12	9	4	94.42
48032515	3/4-10 UN(J)C	3B	125	23	14	11	4	117.19
48032526	7/8-9 UN(J)C	3B	140	26	18	14.5	4	163.53
48032538	1-8 UN(J)C	3B	160	29	18	14.5	4	197.25

(Formerly was DIN 2183. No change of specifications)



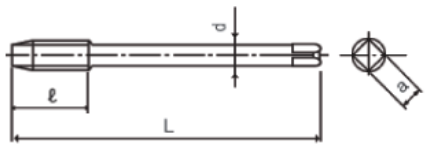
HSSE CrN 45° C/2.5

Unit:mm

UN(J)F DIN 2184-1

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	List Price (USD)
48032467	10-32 UN(J)F	3B	70	19.3	6	4.9	3	55.92
48032472	1/4-28 UN(J)F	3B	80	25.4	7	5.5	3	63.28
48032476	5/16-24 UN(J)F	3B	90	11	8	6.2	3	66.49
48032481	3/8-24 UN(J)F	3B	90	12	9	7	3	67.84

(Formerly was DIN 2182. No change of specifications)



HSSE CrN 45° C/2.5

Unit:mm

UN(J)F DIN 2184-1

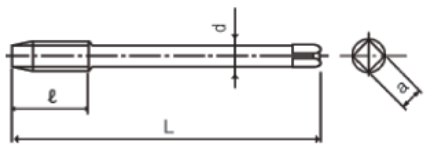
EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
48032486	7/16-20 UN(J)F	3B	100	14	8	6.2	4	73.34
48032491	1/2-20 UN(J)F	3B	100	15	9	7	4	72.33

(Formerly was DIN 2182. No change of specifications)

HSSE spiral-fluted cutting tap for blind holes.
For general steels, stainless steels and aluminium.
Developed for rigid tapping on CNC machines.

DIN CHIP CONTROL TAP

CC-SFT-SPT



HSSE CrN 45° C/2.5

Unit:mm

G SERIES DIN 5156

EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
48034838	G 1/8-28	-	90	10	7	5.5	3	55.83
48034839	G 1/4-19	-	100	15	11	9.0	4	76.71
48034840	G 3/8-19	-	100	15	12	9	4	93.01
48034841	G 1 /2-14	-	125	20	16	12	4	130.47

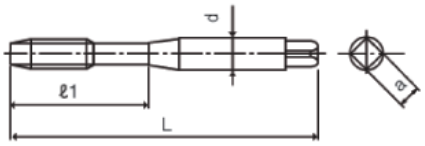
Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels			Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Bronze	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting
	C ~ 0.25%	C0.25% ~ 0.45%	C 0.45% ~	SCM	25 ~ 45 HRC	45 ~ 55 HRC	50 ~ 60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	PB	AL	AC,ADC	MC	ZDC
CC-SFT	◎	◎	◎	○				◎					○				◎			
CC-SFT-SPT	◎	◎	◎	○				◎					○				◎			

DIN CHIP CONTROL TAP

CC-HL-SFT

HSSE spiral-fluted cutting tap for blind holes.
For general steels, stainless steels and aluminium.
Developed for rigid tapping on CNC machines; for thread insert.





HSSE CrN 45° C/2.5

UNJF DIN 2184-1

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	List Price (USD)
48033467	10-32 UN(J)F	3B	80	25.4	7	5.5	3	46.23
48033472	1/4-28 UN(J)F	3B	90	11	8	6.2	3	50.27
48033476	5/16-24 UN(J)F	3B	90	12	9	7.0	3	51.45
48033481	3/8-24 UN(J)F	3B	100	14	11	9	3	81.62

(Formerly was DIN 2182. No change of specifications)

Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels			Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Bronze	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting
	C ~ 0.25%	C0.25% ~ 0.45%	C 0.45% ~	SCM	25 ~ 45 HRC	45 ~ 55 HRC	50 ~ 60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	PB	AL	AC,ADC	MC	ZDC
CC-HL-SFT	◎	◎	◎	○				◎					○				◎			

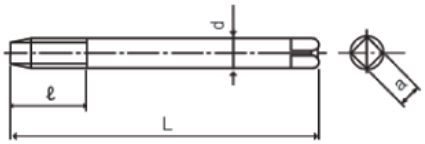
DIN FOR NICKEL ALLOY STEELS (AEROSPACE)

WHR-NI-SFT

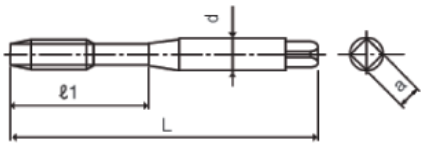
Powder metal low spiral-fluted cutting tap for blind holes.
For Nickel-based alloys including incolnel 718.



Type. 1



Type. 2

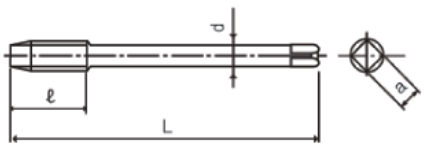


PM HR 11° C/2.5

UNJF DIN 2184-1

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ	ℓ1	d	a	Z	Type	List Price (USD)
48078467	10-32 UN(J)F	3B	70	18	-	6	4.9	3	1	56.65
48078472	1/4-28 UN(J)F	3B	80	21	-	7	5.5	3	1	61.41
48078476	5/16-24 UN(J)F	3B	90	-	35	8	6.2	3	2	61.41
48078481	3/8-24 UN(J)F	3B	90	-	35	10	8	3	2	64.49



PM HR 11° C/2.5

UNJF DIN 2184-1

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	Type	List Price (USD)
48078486	7/16-20 UN(J)F	3B	100	15	9	6.2	3	2	81.22
48078491	1/2-20 UN(J)F	3B	100	16	10	7	3	2	82.83

Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels			Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Bronze	Nickel Alloy	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting
	C ~ 0.25%	C0.25% ~ 0.45%	C 0.45% ~	SCM	25 ~ 45 HRC	45 ~ 55 HRC	50 ~ 60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	PB		AL	AC,ADC	MC	ZDC
WHR-NI-SFT																	◎				

HSSE low spiral-fluted cutting tap for blind holes.
For Forged steel, FCD & ADC.

DIN CAST IRON, ADC & STEEL APPLICATIONS

AW-SFT





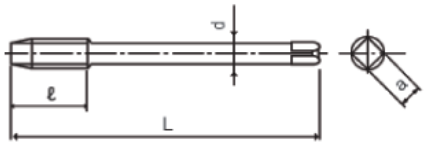


Unit:mm

METRIC DIN 371

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	List Price (USD)
48063149	M5x0.8	6H	70	30	6	4.9	3	21.90
48063155	M6x1	6H	80	40	6	4.9	3	22.10
48063161	M8x1.25	6H	90	36	8	6.2	3	25.46
48063169	M10x1.5	6H	100	44	10	8	3	32.04

(Formerly was DIN 2182. No change of specifications)



Unit:mm

METRIC DIN 376

EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
48063179	M12x1.75	6H	110	18	9	7	3	41.45
48063191	M14x2	6H	110	20	11	9	3	51.51
48063202	M16x2	6H	110	20	12	9	3	60.50

Unit:mm

METRIC DIN 374

EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	a	List Price (USD)
48063171	M10x1	6H	90	12	7	5.5	3	35.86
48063170	M10x1.25	6H	100	12	7	5.5	3	35.86
48063181	M12x1.25	6H	100	14	9	7	3	42.11
48063180	M12x1.5	6H	100	14	9	7	3	42.11
48063192	M14x1.5	6H	100	16	11	9	3	54.26
48063203	M16x1.5	6H	100	16	12	9	3	62.94
48063216	M18x1.5	6H	110	20	14	11	4	72.47
48063230	M20x1.5	6H	125	20	16	12	4	90.87

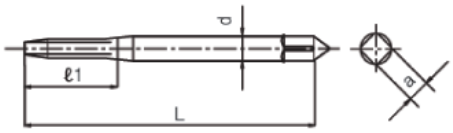
Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels			Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Bronze	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting
	C ~ 0.25%	C0.25% ~ 0.45%	C 0.45% ~	SCM	25 ~ 45 HRC	45 ~ 55 HRC	50 ~ 60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	PB	AL	AC,ADC	MC	ZDC
AW-SFT	◎	◎										○	◎					○		

DIN CAST IRON, ADC & STEEL APPLICATIONS

V-AW-SFT

V-coated HSSE low spiral-fluted cutting tap for blind holes
For Forged steel, FCD & ADC



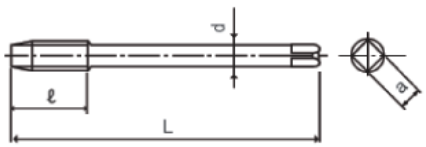


HSSE V 15° C/2.5

METRIC DIN 371

Unit:mm

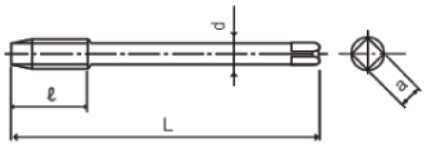
EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	List Price (USD)
T1503379	M5x0.8	6H	70	30	6	4.9	3	26.76
T1503380	M6x1	6H	80	40	6	4.9	3	26.96
T1503381	M8x1.25	6H	90	36	8	6.2	3	30.32
T1503382	M10x1.5	6H	100	44	10	8	3	39.32



METRIC DIN 376

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
T1503383	M12x1.75	6H	110	18	9	7	3	49.21
T1503383	M14x2	6H	110	20	11	9	3	49.21
T1503385	M16x2	6H	110	20	12	9	3	67.36



METRIC DIN 374

Unit:mm

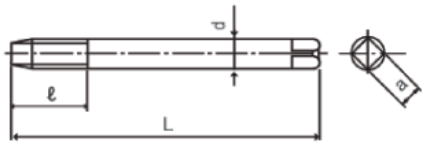
EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	a	List Price (USD)
T1503386	M10x1	6H	90	12	7	5.5	3	39.32
T1503387	M10x1.25	6H	100	12	7	5.5	3	39.32
T1503388	M12x1.25	6H	100	14	9	7	3	49.21
T1503389	M12x1.5	6H	100	14	9	7	3	49.21
T1503390	M14x1.5	6H	100	16	11	9	3	58.79
T1503391	M16x1.5	6H	100	16	12	9	3	67.36
T1503392	M18x1.5	6H	110	20	14	11	4	87.07
T1503393	M20x1.5	6H	125	20	16	12	4	105.46

Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels			Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Bronze	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting
	C ~ 0.25%	C0.25% ~ 0.45%	C 0.45% ~	SCM	25 ~ 45 HRC	45 ~ 55 HRC	50 ~ 60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	PB	AL	AC,ADC	MC	ZDC
V-AW-SFT	◎	◎						○				◎	◎					◎		

Power metal low-spiral fluted cutting taps for blind holes.
For Titanium Alloys.

DIN ALLOY STEEL (AEROSPACE)

V-TI-SFT



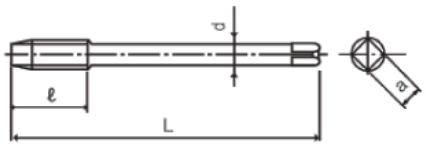




Unit:mm

METRIC DIN 371

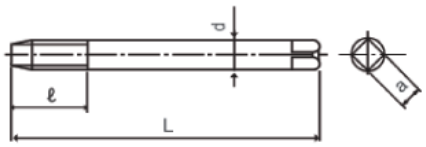
EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
48011138	M3x0.5	6H	56	11	3.5	2.7	3	52.95
48011144	M4x0.7	6H	63	14	4.5	3.4	3	55.92
48011149	M5x0.8	6H	70	17	6	4.9	3	56.74
48011155	M6x1.0	6H	80	21	6	4.9	3	57.42
48011161	M8x1.25	6H	90	28	8	6.2	3	66.97
48011169	M10x1.5	6H	100	35	10	8	3	78.30



Unit:mm

METRIC DIN 376

EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
48011179	M12x1.75	6H	110	18	10	8	3	102.25

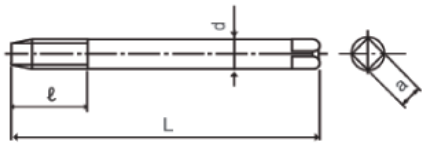


Unit:mm

UNJC DIN 2184-1

EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
48013457	4-40 UN(J)C	3B	56	10	3.5	2.7	3	70.33
48013461	6-32 UN(J)C	3B	56	13	4	3	3	65.31
48013464	8-32 UN(J)C	3B	63	15	4.5	3.4	3	70.92

(Formerly was DIN 2182. No change of specifications)



Unit:mm

UNJF DIN 2184-1

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	List Price (USD)
48013467	10-32 UN(J)F	3B	70	25	6	4.9	3	75.54
48013472	1/4-28 UN(J)F	3B	80	30	7	5.5	3	82.79
48013476	5/16-24 UN(J)F	3B	90	35	8	6.2	3	87.01
48013481	3/8-24 UN(J)F	3B	90	35	10	8	3	92.86

(Formerly was DIN 2182. No change of specifications)

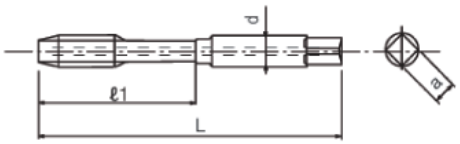
Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels			Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Titanium	Bronze	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting
	C ~ 0.25%	C0.25% ~ 0.45%	C 0.45% ~	SCM	25 ~ 45 HRC	45 ~ 55 HRC	50 ~ 60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	Ti	PB	AL	AC,ADC	MC	ZDC
V-TI-SFT																◎					

DIN CRANKSHAFT

VPO-LW-SFT

V-coated HSSE low spiral-fluted cutting tap for blind holes.
For steel & cast iron shafts, connecting rods and tie rods centre through coolant.



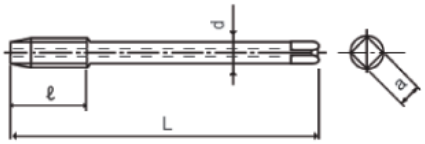


HSSE V 15° C/2.5

METRIC DIN 371 Oil Hole

Unit:mm

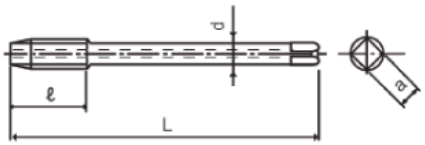
EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	List Price (USD)
T1503078	M6x1	6HX	80	40	6	4.9	3	48.33
T1503079	M8x1.25	6HX	90	30	8	6.2	3	54.12
T1503080	M10x1.5	6HX	100	44	10	8	3	62.74



METRIC DIN 376 Oil Hole

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
T1506978	M12x1.75	6HX	110	18	9	7	3	76.46
T1503370	M14x2	6HX	110	20	11	9	3	82.59
T1503371	M16x2	6HX	110	20	12	9	3	97.72



METRIC DIN 374 Oil Hole

Unit:mm

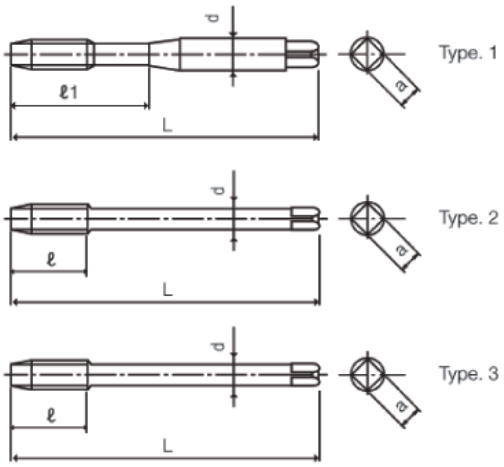
EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	a	List Price (USD)
T1503372	M9x1	6HX	90	10	7	5.5	3	58.26
T1503373	M10x1	6HX	90	10	7	5.5	3	62.74
T1503374	M10x1.25	6HX	100	13	7	5.5	3	62.74
T1503413	M11x1.25	6HX	100	13	8	6.2	3	67.94
T1503375	M12x1.25	6HX	100	13	9	7	3	76.46
T1503376	M12x1.5	6HX	100	15	9	7	3	76.46
T1503377	M14x1.5	6HX	100	15	11	9	3	82.59
T1503378	M16x1.5	6HX	100	15	12	9	3	97.72

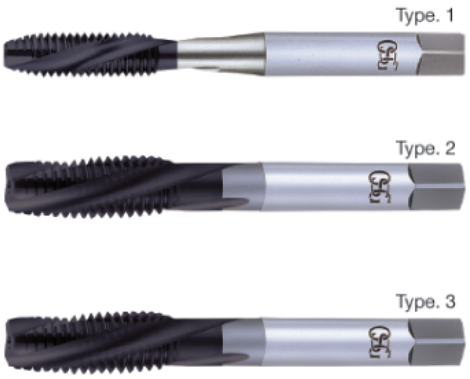
Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels			Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Bronze	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting
	C ~ 0.25%	C0.25% ~ 0.45%	C 0.45% ~	SCM	25 ~ 45 HRC	45 ~ 55 HRC	50 ~ 60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	PB	AL	AC,ADC	MC	ZDC
VPO-LW-SFT		○	◎	○							◎	◎		○	○	○		○		○

Power metal low-spiral fluted cutting taps for through holes.
For connection rods and wheel hubs with tapping speed up to 40m/min.
For Forged steel automotive parts.

DIN AUTOMOBILE STEEL COMPONENT

WXL-CPM-RFT





PM WXL B/5

Unit:mm

METRIC DIN 371

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	Type	List Price (USD)
48043155	M6x1	6HX	80	30	6	4.9	3	1	49.44
48043158	M7x1	6HX	80	30	7	5.5	4	1	53.97
48043161	M8x1.25	6HX	90	35	8	6.2	4	1	53.97
48043165	M9x1.25	6HX	90	35	9	7	4	1	61.91
48043169	M10x1.5	6HX	100	39	10	8	4	1	61.91

Unit:mm

METRIC DIN 376

EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	Type	List Price (USD)
48013174	M11x1.5	6HX	100	24	8	6.2	5	2	51.10
48043179	M12x1.75	6HX	110	29	9	7	5	2	51.10
48043191	M14x2	6HX	110	30	11	9	5	2	87.70
48043202	M16x2	6HX	110	32	12	9	5	2	101.97
48043214	M18x2.5	6HX	125	34	14	11	5	2	131.61

Unit:mm

METRIC FINE DIN 374

EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	Type	List Price (USD)
48043162	M8x1	6HX	90	22	6	4.9	4	3	53.97
48043166	M9x1	6HX	90	22	7	5.5	5	3	61.91
48043171	M10x1	6HX	90	20	7	5.5	5	3	67.45
48043170	M10x1.25	6HX	100	24	7	5.5	5	3	64.77
48043175	M11x1.25	6HX	100	24	8	6.2	5	3	76.07
48043181	M12x1.25	6HX	100	22	9	7	5	3	51.10
48043180	M12x1.5	6HX	100	22	9	7	5	3	51.10
48043192	M14x1.5	6HX	100	22	11	9	5	3	87.70
48043203	M16x1.5	6HX	100	22	12	9	5	3	101.97
48043216	M18x1.5	6HX	110	25	14	11	5	3	131.61

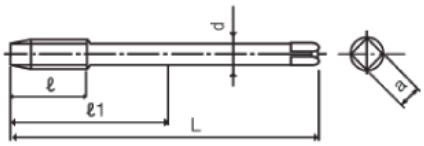
Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels			Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Titanium	Bronze	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting
	C ~ 0.25%	C0.25% ~ 0.45%	C 0.45% ~	SCM	25 ~ 45 HRC	45 ~ 55 HRC	50 ~ 60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	Ti	PB	AL	AC,ADC	MC	ZDC
WXL-CPM-RFT		○	◎	○	◎			○	◎	○	○	○									

DIN PETROCHEMICAL AND POWER INDUSTRY

VXL-SFT

HSSE high spiral fluted cutting tap for blind holes.
For general steels.
For vertical applications in the oil and heavy industries.





HSSE OX 45° C/2.5

UNC/UN

Unit:mm

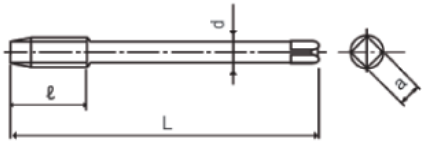
EDP NO.	Thread Size	TAP Limit	L	ℓ	ℓ1	d	a	Z	List Price (USD)
48051538	1-8 UNC	2B	160	25.4	90	18	14.5	5	253.85
48051552	1 1/8-8 UN	2B	180	25.4	100	22	18	5	357.70
48051565	1 1/4-8 UN	2B	180	25.4	100	22	18	5	432.69
48051578	1 3/8-8 UN	2B	200	25.4	115	28	22	5	484.64
48051592	1 1/2-8 UN	2B	200	25.4	115	32	24	5	623.14
48051618	1 3/4- 8UN	2B	200	25.4	110	36	29	6	1,136.58
48051639	2-8 UN	2B	225	25.4	125	40	32	6	1,615.47

DIN PETROCHEMICAL AND POWER INDUSTRY

HXL-SFT

HSSE low- spiral fluted cutting tap for blind holes.
For steels and cast iron.
For horizontal applications in the oil and heavy industries.





HSSE OX 45° C/2.5

UNC/UN

Unit:mm

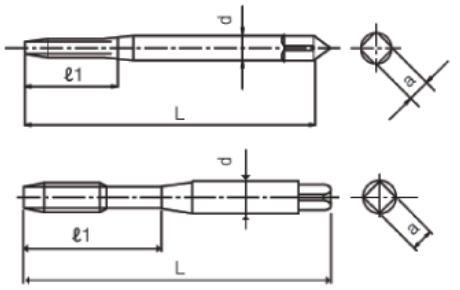
EDP NO.	Thread Size	TAP Limit	L	ℓ	ℓ1	d	a	Z	List Price (USD)
48050538	1-8 UNC	2B	160	25.4	90	18	14.5	5	253.85
48050552	1 1/8-8 UN	2B	180	25.4	100	22	18	5	357.70
48050565	1 1/4-8 UN	2B	180	25.4	100	22	18	5	432.69
48050578	1 3/8-8 UN	2B	200	25.4	115	28	22	5	484.64
48050592	1 1/2 UN	2B	200	25.4	115	32	24	5	623.14
48050618	1 3/4 UN	2B	200	25.4	101	36	29	5	1,136.58
48050639	2-8 UN	2B	225	25.4	125	40	32	5	1,615.47

Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels			Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Bronze	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting
	C ~ 0.25%	C0.25% ~ 0.45%	C 0.45% ~	SCM	25 ~ 45 HRC	45 ~ 55 HRC	50 ~ 60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	PB	AL	AC,ADC	MC	ZDC
VXL-SFT	○	○	◎	◎	○			○	○	○										
HXL-SFT	○	○	◎	◎	○			○	○	○	◎	◎								

Powder metal straight flute tap for through and blind holes.
For hardened steels up to 55HRC.
Highly wear resistant XPM tool substrate.

DIN HARDENED STEEL

V-XPM-HT





XPM V C/2.5

Unit:mm

METRIC DIN 371

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	Type	List Price (USD)
89913868	M3x0.5	6HX	46	19	3.5	2.7	4	1	61.32
89914468	M4x0.7	6HX	52	21	4.5	3.4	4	1	56.22
89914968	M5x0.8	6HX	60	24	6	4.9	4	1	57.76
89915568	M6x1.0	6HX	62	29	6	4.9	5	1	63.89
89916168	M8x1.25	6HX	70	22	6	4.9	5	2	74.61
89916968	M10x1.5	6HX	75	24	7	5.5	5	2	89.93

Unit:mm

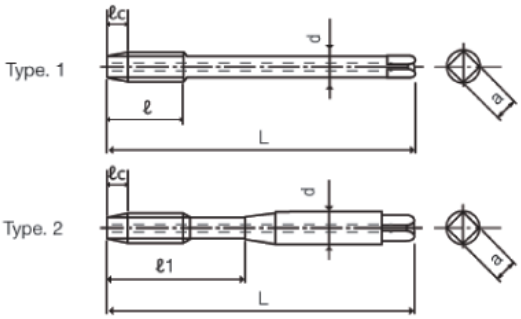
METRIC DIN 376

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	Type	List Price (USD)
89917968	M12x1.75	6HX	82	29	9	7	5	2	119.08

High grade powder metallurgy straight flute cutting tap.
For automobile steel components such as crank shaft centre through coolant

DIN AUTOMOBILE STEEL COMPONENT

VPO-MT





XPM V C/5 C/2.5

Unit:mm

Oil Hole **METRIC DIN 371**

EDP NO.	Thread Size	TAP Limit	ℓc	L	ℓ1	d	a	Z	Type	List Price (USD)
T1102171	M6x1	6HX	2.5P	80	30	6	4.9	3	2	53.69
T1102176	M8x1.25	6HX	2.5P	90	35	8	6.2	4	2	60.11

Unit:mm

Oil Hole **METRIC DIN 374**

EDP NO.	Thread Size	TAP Limit	ℓc	L	ℓ	d	a	Z	Type	List Price (USD)
T0803919	M10 x 1	6HX	5P	90	18	7	5.5	4	1	69.69
T0803920	M10 x 1.25	6HX	5P	100	18	7	5.5	4	1	69.69
T0803921	M12 x 1.25	6HX	2.5P	100	21	9	7	4	1	84.93
T0803922	M12 x 1.5	6HX	2.5P	100	21	9	7	4	1	84.93
T0803924	M14 x 1.5	6HX	2.5P	100	24	11	9	4	1	91.79
T0803926	M16 x 1.5	6HX	2.5P	100	24	12	9	4	1	108.58

Unit:mm

Oil Hole **METRIC DIN 376**

EDP NO.	Thread Size	TAP Limit	ℓc	L	ℓ	d	a	Z	Type	List Price (USD)
T0803923	M14 x 2	6HX	5P	110	24	11	9	4	1	91.79
T0803925	M16 x 2	6HX	5P	110	24	12	9	4	1	108.58

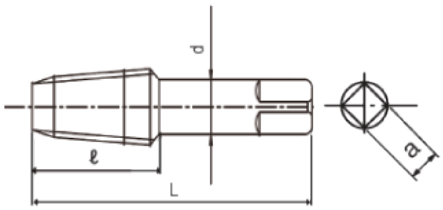
Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels			Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Titanium	Bronze	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting
	C ~ 0.25%	C0.25% ~ 0.45%	C 0.45% ~	SCM	25 ~ 45 HRC	45 ~ 55 HRC	50 ~ 60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	Ti	PB	AL	AC,ADC	MC	ZDC
V-XPM-HT						◎															
VPO-MT					◎						○	○									

DIN PETROCHEMICAL AND POWER INDUSTRY

TPT (NPT)

HSSE straight flute cutting tap fr through & blind holes.
For steel steels,aluminium and cast iron.
Tapered 1:16





HSSE C/2.5

NPT DIN 2181

Unit: mm

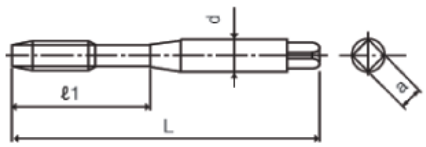
EDP NO.	Thread Size	L	ℓ	d	a	Z	List Price (USD)
60087500	1/16-27	56	14	6	4.9	4	53.06
60087600	1/8-27	63	15	7	5.5	4	70.23
60087700	1/4-18	63	21	11	9	4	80.45
60087800	3/8-18	70	21	12	9	4	95.83
60087900	1/2-14	80	27	16	12	4	114.67
60088000	3/4-14	100	27	20	16	5	230.01
60088100	1-11.5	100	32	25	20	5	290.06

Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels			Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Bronze	Thermo Plastic	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting
	C ~ 0.25%	C0.25% ~ 0.45%	C 0.45% ~	SCM	25 ~ 45 HRC	45 ~ 55 HRC	50 ~ 60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	PB		AL	AC,ADC	MC	ZDC
TPT (NPT)	○	○								○	○	○	○	○	○	○	○	○	○	○	○

HSSE straight flute cutting tap.
For aluminum alloy casting and cast iron
synchro taps at cutting speeds >30m/min.

DIN ZERO TAP

V-DC-MT



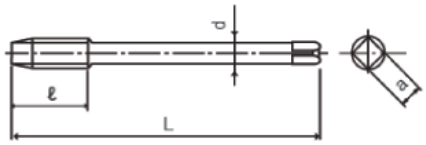




Unit:mm

METRIC DIN 371

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	List Price (USD)
48039149	M5 x 0.8	6HX	70	25	6	4.9	3	25.61
48039155	M6 x 1.0	6HX	80	30	6	4.9	3	25.80
48039161	M8 x 1.25	6HX	90	35	8	6.2	4	29.99
48039169	M10 x 1.5	6HX	100	39	10	8	4	34.95



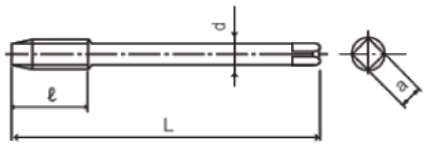




Unit:mm

METRIC DIN 376

EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
48039179	M12 x 1.75	6HX	110	21	9	7	4	52.66
48039191	M14 x 2	6HX	110	24	11	9	4	54.84
48039202	M16 x 2	6HX	110	24	12	9	4	65.22
48039214	M18 x 2.5	6HX	125	30	14	11	4	115.49
48039228	M20 x 2.5	6HX	140	30	16	12	4	132.63
48039238	M22 x 2.5	6HX	140	30	18	14.5	5	144.69
48039247	M24 x 3	6HX	160	36	18	14.5	5	178.12





Unit:mm

METRIC DIN 374

EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
48039170	M10 x 1.25	6HX	100	18	7	5.5	4	38.46
48039181	M12 x 1.25	6HX	100	21	9	7	4	50.52
48039180	M12 x 1.5	6HX	100	21	9	7	4	59.62
48039192	M14 x 1.5	6HX	100	24	11	9	4	64.77
48039203	M16 x 1.5	6HX	100	24	12	9	4	75.73
48039216	M18 x 1.5	6HX	110	30	14	11	4	115.49

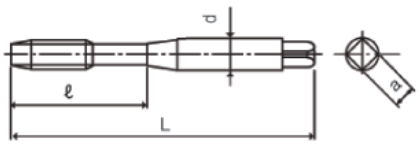
Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels			Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Bronze	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting
	C ~ 0.25%	C0.25% ~ 0.45%	C 0.45% ~	SCM	25 ~ 45 HRC	45 ~ 55 HRC	50 ~ 60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	PB	AL	AC,ADC	MC	ZDC
V-DC-MT											◎	○						◎		

DIN ZERO TAP

V-DC-MT

HSSE straight flute cutting tap.
For aluminum alloy casting and cast iron synchro taps at cutting speeds >30m/min.





HSSE V C/2.5

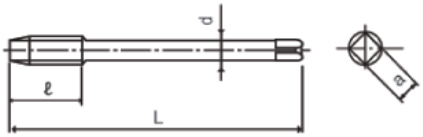
UNC DIN 2184-1

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	List Price (USD)
48039457	4-40 UNC	2B	56	18	3.5	2.7	3	41.67
48039459	5-40 UNC	2B	56	18	3.5	2.7	3	41.67
48039461	6-32 UNC	2B	56	20	4	3	3	39.52
48039464	8-32 UNC	2B	63	21	4.5	3.4	3	39.52
48039466	10-24 UNC	2B	70	25	6	4.9	3	41.67
48039471	1/4-20 UNC	2B	80	30	7	5.5	3	46.05
48039474	5/16-18 UNC	2B	90	35	8	6.2	4	48.24
48039479	3/8-16 UNC	2B	100	35	10	8	4	53.14

(Formerly was DIN 2182. No change of specifications)





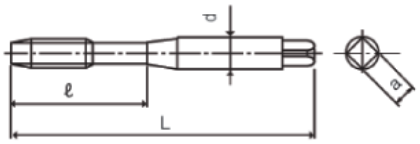
HSSE V C/2.5

UNC DIN 2184-1

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
48039484	7/16-14 UNC	2B	100	22	8	6.2	4	69.59
48039489	1/2-13 UNC	2B	110	24	9	7	4	72.37
48039494	9/16-12 UNC	2B	110	26	11	9	4	83.86
48039501	5/8-11 UNC	2B	110	28	12	9	4	95.34
48039515	3/4-10 UNC	2B	125	31	14	11	4	118.41
48039526	7/8-9 UNC	2B	140	34	18	14.5	5	150.14
48039538	1-8 UNC	2B	160	38	18	14.5	5	199.49

(Formerly was DIN 2183. No change of specifications)



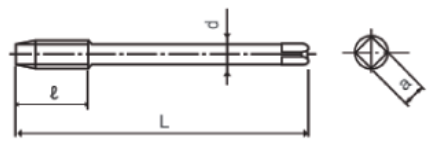
HSSE V C/2.5

UNF DIN 2184-1

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	List Price (USD)
48039462	6-40 UNF	2B	56	18	4	3	3	46.58
48039467	10-32 UNF	2B	70	25	6	4.9	3	47.69
48039472	1/4-28 UNF	2B	80	30	7	5.5	3	54.22
48039476	5/16-24 UNF	2B	90	35	8	6.2	4	57.53
48039481	3/8-24 UNF	2B	90	35	9	7	4	58.64

(Formerly was DIN 2182. No change of specifications)



HSSE V C/2.5

UNF DIN 2184-1

Unit:mm

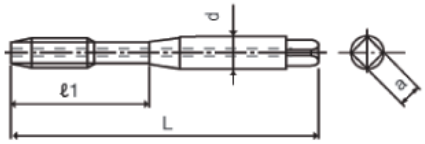
EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
48039486	7/16-20 UNF	2B	100	22	8	6.2	4	75.04
48039491	1/2-20 UNF	2B	100	24	9	7	4	73.97
48039496	9/16-18 UNF	2B	100	26	11	9	4	85.55
48039504	5/8-18 UNF	2B	100	28	12	9	4	97.04
48039517	3/4-16 UNF	2B	110	31	14	11	4	125.51
48039528	7/8-14 UNF	2B	125	23	18	14.5	5	154.57
48039539	1-12 UNF	2B	125	25	18	14.5	5	215.42

(Formerly was DIN 2183. No change of specifications)

HSSE straight flute cutting tap.
For aluminum alloy casting and cast iron
synchro taps at cutting speeds >30m/min, with centre through coolant.

DIN ZERO TAP WITH OIL HOLE

OIL-V-DC-MT



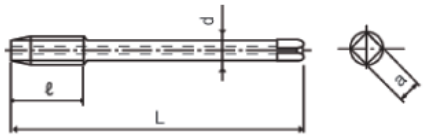




Unit:mm

Oil Hole METRIC DIN 371

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	List Price (USD)
48040149	M5 x 0.8	6HX	70	25	6	4.9	3	47.84
48040155	M6 x 1.0	6HX	80	30	6	4.9	3	48.18
48040161	M8 x 1.25	6HX	90	35	8	6.2	4	52.42
48040169	M10 x 1.5	6HX	100	39	10	8	4	54.84

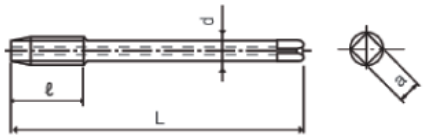




Unit:mm

Oil Hole METRIC DIN 376

EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
48040179	M12 x 1.75	6HX	110	21	9	7	4	72.47
48040191	M14 x 2	6HX	110	24	11	9	4	77.96
48040202	M16 x 2	6HX	110	24	12	9	4	88.28
48040214	M18 x 2.5	6HX	125	30	14	11	4	118.90





Unit:mm

Oil Hole METRIC FINE DIN 374

EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
48040170	M10 x 1.25	6HX	100	18	7	5.5	4	60.25
48040181	M12 x 1.25	6HX	100	21	9	7	4	70.58
48040180	M12 x 1.5	6HX	100	21	9	7	4	73.79
48040192	M14 x 1.5	6HX	100	24	11	9	4	87.99
48040203	M16 x 1.5	6HX	100	24	12	9	4	98.90
48040216	M18 x 1.5	6HX	110	30	14	11	4	118.90
48040240	M22 x 1.5	6HX	125	20	18	14.5	5	230.60
48040250	M24 x 1.5	6HX	140	24	18	14.5	5	251.76

Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels			Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Bronze	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting
	C ~ 0.25%	C0.25% ~ 0.45%	C 0.45% ~	SCM	25 ~ 45 HRC	45 ~ 55 HRC	50 ~ 60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	PB	AL	AC,ADC	MC	ZDC
OIL-V-DC-MT											◎	○						◎		

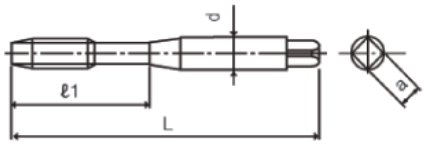
DIN ZERO TAP

V-DC-MT (FORM E)

(Formerly was V-SC-DC-MT)

HSSE straight flute cutting tap.
For aluminum alloy casting and cast iron
synchro taps at cutting speeds >30m/min, chamfer form E.



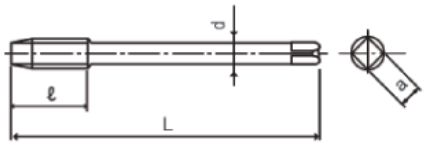


HSSE V E/1.5

METRIC DIN 371

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	List Price (USD)
48096155	M6 x 1	6HX	80	30	6	4.9	3	34.17
48096161	M8 x 1.25	6HX	90	35	8	6.2	4	39.66
48096169	M10 x 1.5	6HX	100	39	10	8	4	46.28

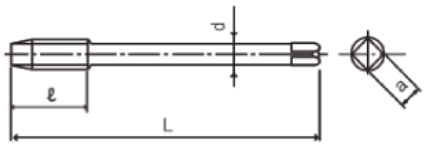


HSSE V E/1.5

METRIC DIN 376

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
48096179	M12 x 1.75	6HX	110	21	9	7	4	69.55



HSSE V E/1.5

METRIC DIN 374

Unit:mm

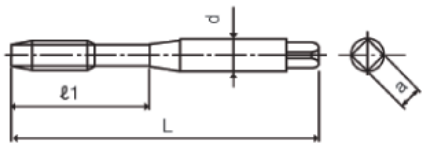
EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
48096162	M8 x 1	6HX	90	15	6	4.9	4	39.66
48096170	M10 x 1.25	6HX	100	18	7	5.5	4	46.28
48096171	M10 x 1	6HX	90	18	7	5.5	4	46.28
48096180	M12 x 1.5	6HX	100	21	9	7	4	69.55
48096181	M12 x 1.25	6HX	100	21	9	7	4	69.55

HSSE Forming tap.
For general steels, stainless steels, aluminium.

The A Brand

DIN S-XPF TAP

S-XPF





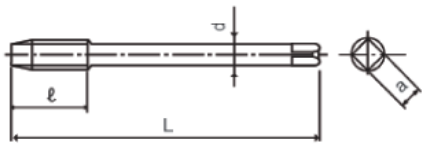
HSSE V C/2.5

Unit:mm

METRIC DIN 2174

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	List Price (USD)
48030155	M6 x 1	6HX	80	30	6	4.9	5	45.27
48030161	M8 x 1.25	6HX	90	35	8	6.2	5	60.35
48030169	M10 x 1.5	6HX	100	39	10	8	8	78.20

(Formerly was DIN 371. No change of specifications)





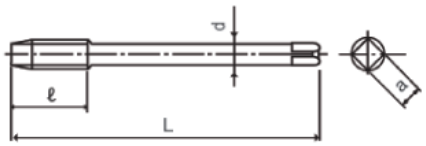
HSSE V C/2.5

Unit:mm

METRIC DIN 2174

EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
48030179	M12 x 1.75	6HX	110	17	9	47	8	84.04
48030191	M14 x 2	6HX	110	20	11	9	8	112.42
48030202	M16 x 2	6HX	110	20	12	9	8	124.20

(Formerly was DIN 371. No change of specifications)



HSSE V C/2.5

Unit:mm

METRIC DIN 2174

EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
48030162	M8 x 1	6HX	90	10	6	4.9	5	65.27
48030171	M10 x 1	6HX	90	12	7	5.5	8	78.20
48030170	M10 x 1.25	6HX	100	12	7	5.5	8	78.20
48030182	M12 x 1	6HX	100	15	9	7	8	84.04
48030181	M12 x 1.25	6HX	100	15	9	7	8	84.04
48030180	M12 x 1.5	6HX	100	15	9	7	8	84.04
48030192	M14 x 1.5	6HX	100	15	11	9	8	112.42
48030203	M16 x 1.5	6HX	100	15	12	9	8	182.61
48030216	M18 x 1.5	6HX	110	15	14	11	8	224.85
48030230	M20 x 1.5	6HX	125	15	16	12	8	236.44

(Formerly was DIN 374. No change of specifications)

Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels			Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Bronze	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting
	C ~ 0.25%	C0.25% ~ 0.45%	C 0.45% ~	SCM	25 ~ 45 HRC	45 ~ 55 HRC	50 ~ 60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	PB	AL	AC,ADC	MC	ZDC
S-XPF	◎	◎	◎	◎	◎			◎		○			◎	◎	◎		◎	◎		◎

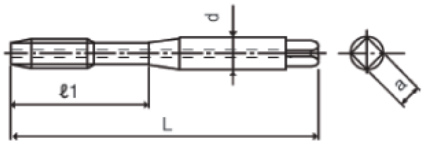
DIN ZERO TAP WITH OIL HOLE

The A Brand

HSSE Forming tap
For general steels, stainless steels, aluminium
Centre through coolant

OIL-S-XPF





HSSE V C/2.5

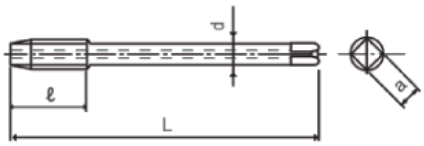
METRIC DIN 2174 Oil Hole

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	Z	List Price (USD)
48042155	M6 x 1	6HX	80	30	6	4.9	5	85.50
48042161	M8 x 1.25	6HX	90	35	8	6.2	5	90.57
48042169	M10 x 1.5	6HX	100	39	10	8	8	98.93

(Formerly was DIN 371. No change of specifications)





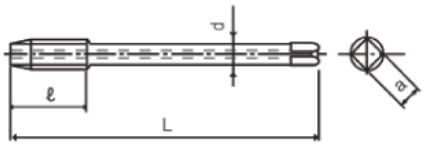
HSSE V C/2.5

METRIC DIN 2174 Oil Hole

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
48042179	M12 x 1.75	6HX	110	17	9	7	8	111.78
48042191	M14 x 2	6HX	110	20	11	9	8	131.90
48042202	M16 x 2	6HX	110	20	12	9	8	165.48
48071214	M18 x 2.5	6HX	125	20	14	11	8	179.54

(Formerly was DIN 376. No change of specifications)



HSSE V C/2.5

METRIC DIN 2174 Oil Hole

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ	d	a	Z	List Price (USD)
48042162	M8 x 1	6HX	90	10	6	4.9	5	90.57
48042171	M10 x 1	6HX	90	12	7	5.5	8	110.15
48042170	M10 x 1.25	6HX	100	12	7	5.5	8	105.06
48042181	M12 x 1.25	6HX	100	15	9	7	8	111.78
48042180	M12 x 1.5	6HX	100	15	9	7	8	111.78
48042192	M14 x 1.5	6HX	100	15	11	9	8	131.90
48042203	M16 x 1.5	6HX	100	15	12	9	8	165.48
48042216	M18 x 1.5	6HX	110	20	14	11	8	182.21

(Formerly was DIN 374. No change of specifications)

Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels			Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Bronze	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting
	C ~ 0.25%	C0.25% ~ 0.45%	C 0.45% ~	SCM	25 ~ 45 HRC	45 ~ 55 HRC	50 ~ 60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	PB	AL	AC,ADC	MC	ZDC
OIL-S-XPF	◎	◎	◎	◎	◎			◎		○			◎	◎	◎		◎	◎		◎

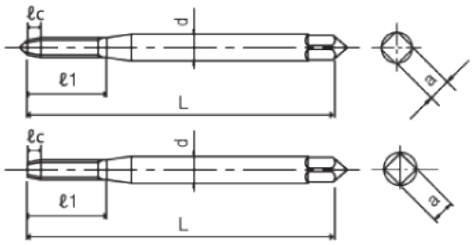
HSSE Forming tap
For general steels, stainless steels, aluminium

Discontinued Series While stocks last

DIN R-XPF TAP

R-XPF





Type. 1

Type. 2



Unit:mm

JIS FORM

EDP NO.	Thread Size	TAP Limit	ℓc	L	ℓ1	d	a	Type	List Price (USD)
48121138	M3 x 0.5	RH5	4P	46	18	4	2.5	1	22.69
48122138	M3 x 0.5	RH5	2.5P	46	18	4	2.5	2	22.69
48123138	M3 x 0.5	RH6	4P	46	18	4	2.5	1	22.69
48124138	M3 x 0.5	RH6	2.5P	46	18	4	2.5	2	22.69
48121144	M4 x 0.7	RH6	4P	52	20	5	3.15	1	23.94
48122144	M4 x 0.7	RH6	2.5P	52	20	5	3.15	2	23.94
48123144	M4 x 0.7	RH7	4P	52	20	5	3.15	1	23.94
48124144	M4 x 0.7	RH7	2.5P	52	20	5	3.15	2	23.94
48121149	M5 x 0.8	RH6	4P	60	22	5.5	4	1	25.40
48122149	M5 x 0.8	RH6	2.5P	60	22	5.5	4	2	25.40
48123149	M5 x 0.8	RH8	4P	60	22	5.5	4	1	25.40
48124149	M5 x 0.8	RH8	2.5P	60	22	5.5	4	2	25.40
48121155	M6 x 1	RH7	4P	62	24	6	5	1	27.21
48122155	M6 x 1	RH7	2.5P	62	24	6	5	2	27.21
48123155	M6 x 1	RH9	4P	62	24	6	5	1	27.21
48124155	M6 x 1	RH9	2.5P	62	24	6	5	2	27.21

METRIC DIN 2174

Unit:mm

EDP NO.	Thread Size	TAP Limit	ℓc	L	ℓ1	d	a	Type	List Price (USD)
48116138	M3 x 0.5	6HX	2.5P	56	18	3.5	2.3	2	24.97
48118138	M3 x 0.5	6GX	2.5P	56	18	3.5	2.3	2	24.97
48116144	M4 x 0.7	6HX	2.5P	63	21	4.5	3.4	2	26.32
48118144	M4 x 0.7	6GX	2.5P	63	21	4.5	3.4	2	26.32
48116149	M5 x 0.8	6HX	2.5P	70	25	6	4.9	2	27.93
48118149	M5 x 0.8	6GX	2.5P	70	25	6	4.9	2	27.93
48116155	M6 x 1	6HX	2.5P	80	30	6	4.9	2	29.94
48118155	M6 x 1	6GX	2.5P	80	30	6	4.9	2	29.94

(Formerly was DIN 376. No change of specifications)

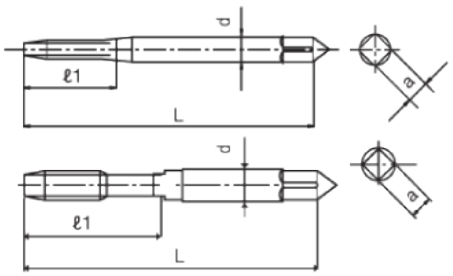
HSS-Co Forming tap
High cutting speed for general steels, stainless steels, aluminium

DIN V NU-ROLL TAP

V-NRT-B







Type. 1

Type. 2



Unit:mm

METRIC DIN 2174

EDP NO.	Thread Size	TAP Limit	L	ℓ1	d	a	z	Type	List Price (USD)
48003111	M1x0.25	6HX	40	5.5	2.5	2.1	0	1	64.10
48003113	M1.2x0.25	6HX	40	5.5	2.5	2.1	0	1	61.71
66711568	M1.4x0.3	6HX	40	7	2.5	2.1	0	1	60.73
66711868	M1.6x0.35	6HX	40	8	2.5	2.1	0	1	59.57
66712568	M2x0.4	6HX	45	8	2.8	2.1	0	1	46.28
66712868	M2.2x0.45	6HX	45	9	2.8	2.1	0	1	49.40
66713368	M2.5x0.45	6HX	50	9	2.8	2.1	0	1	45.27
66713868	M3X0.5	6HX	56	18	3.5	2.7	2	2	43.61
66714068	M3.5x0.6	6HX	56	20	4	3	2	2	45.02
66714468	M4x0.7	6HX	63	21	4.5	3.4	2	2	44.14
66714968	M5x0.8	6HX	70	25	6	4.9	2	2	44.48

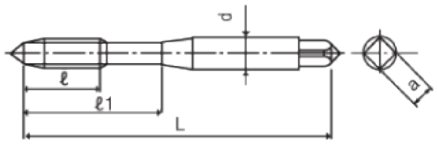
Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels			Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Bronze	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting
	C ~ 0.25%	C0.25% ~ 0.45%	C 0.45% ~	SCM	25 ~ 45 HRC	45 ~ 55 HRC	50 ~ 60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	PB	AL	AC,ADC	MC	ZDC
R-XPF	◎	◎	○	○				◎		○			◎	◎	◎		◎	◎		◎
V-NRT-B	◎	◎	○	○				◎					◎	◎	◎		◎	◎		◎

SKS HAND TAP

General Application

HT





SKS C/5

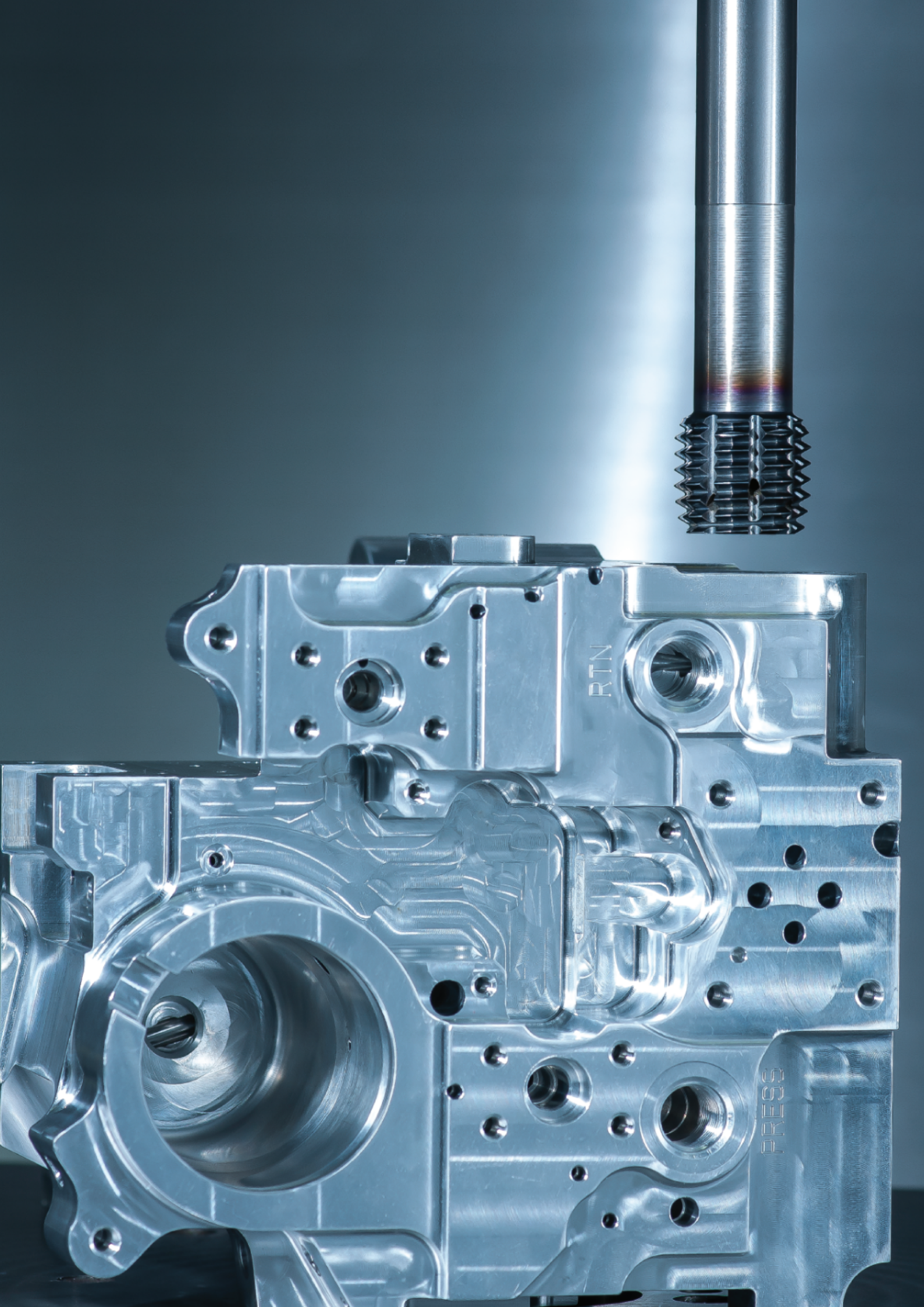
JIS METRIC

Unit:mm

EDP NO.	Thread Size	TAP Limit	L	ℓ	ℓ1	d	a	List Price (USD)
25013	M1x0.25	JIS 3	30	5.5		3	2.5	8.64
25014	M1x0.25 SET	JIS 3	30	5.5		3	2.5	28.49
25033	M1.2x0.25	JIS 3	32	5.5		3	2.5	7.77
25034	M1.2x0.25 SET	JIS 4	32	5.5		3	2.5	25.67
25053	M1.4x0.3	JIS 3	34	7		3	2.5	6.59
25054	M1.4x0.3 SET	JIS 3	34	7		3	2.5	21.78
25093	M1.7x0.35	JIS 3	36	8		3	2.5	5.52
25094	M1.7x0.35 SET	JIS 3	36	8		3	2.5	18.36
25123	M2x0.4	JIS 3	40	8		3	2.5	5.01
25124	M2x0.4 SET	JIS 3	40	8		3	2.5	16.60
25163	M2.3x0.4	JIS 3	42	9.5		3	2.5	5.74
25164	M2.3x0.4 SET	JIS 3	42	9.5		3	2.5	18.95
25173	M2.5x0.45	JIS 3	44	9.5		3	2.5	#N/A
25174	M2.5x0.45 SET	JIS 3	44	9.5		3	2.5	#N/A
25193	M2.6x0.45	JIS 3	44	9.5		3	2.5	4.75
25194	M2.6x0.45 SET	JIS 3	44	9.5		3	2.5	15.78
25213	M3x0.5	JIS 3	46	11	19	4	3.2	4.10
25214	M3x0.5 SET	JIS 3	46	11	19	4	3.2	13.54
25263	M4x0.7	JIS 3	52	13	21	5	4	4.10
25264	M4x0.7 SET	JIS 3	52	13	21	5	4	13.54
25313	M5x0.8	JIS 3	60	16	24	5.5	4.5	4.53
25314	M5x0.8 SET	JIS 3	60	16	24	5.5	4.5	14.96
25343	M6x1.0	JIS 3	62	19	29	6	4.5	4.84
25344	M6x1.0 SET	JIS 3	62	19	29	6	4.5	16.02
25383	M8x1.25	JIS 3	70	22	37	6.2	5	8.36
25384	M8x1.25 SET	JIS 3	70	22	37	6.2	5	27.67
25413	M10x1.5	JIS 3	75	24	41	7	5.5	12.60
25414	M10x1.5 SET	JIS 3	75	24	41	7	5.5	41.45

~A set consists of 9P, 5P and 1.5P chamfer length.

Work Material / Abbreviation	Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels			Stainless Steels	Tool Steels	Cast Steels	Cast Iron	Ductile Cast Iron	Copper	Brass	Brass Casting	Bronze	Aluminum Rolled	Aluminum Alloy Casting	Magnesium Alloy Casting	Zinc Alloy Casting
	C ~ 0.25%	C0.25% ~ 0.45%	C 0.45% ~	SCM	25 ~ 45 HRC	45 ~ 55 HRC	50 ~ 60 HRC	SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	PB	AL	AC,ADC	MC	ZDC
HT (SKS)		○										○		○	○	○	○	○	○	○


RTN
PRESS



CARBIDE DRILLS

CARBIDE DRILLS CONTENTS

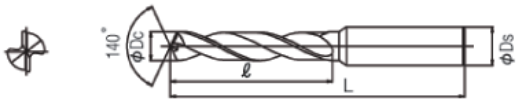
Page	Abbreviation	Specification	Surface Treatment	Flute	Stocked Size
44-45	HYP-HP-GDS-3D	DRILL	EgiAS	2	1~20
46-47	HYP-HP-GDN-5D	DRILL	EgiAS	2	1~20
48-49	HYP-HPO-GDS-3D	DRILL(INTERNAL COOLANT)	EgiAS	2	3~20
50-51	HYP-HPO-GDN-5D	DRILL(INTERNAL COOLANT)	EgiAS	2	3~20
52	HYP-HPO-GDL-8D	DRILL(INTERNAL COOLANT)	EgiAS	2	3~12
54-55	HYP-MG-GDR	DRILL	–	2	0.7~12
56-57	HYP-ALD-GDS-3D	DRILL NEW	-	2	1~12.70
58-59	HYP-ALD-HO-GDN-5D	DRILL NEW	-	2	3~12.70

HY-PRO CARBIDE DRILL
3D HIGH PERFORMANCE TYPE

HYP-HP-GDS-3D

Carbide Drill with EgiAs coating.
Up to 3xD.
General Purpose.





CARBIDE EgiAs 30° m7

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
310301001	1	7	35	3	24.27
310301101	1.1	7	35	3	24.27
310301191	1.19 (3/64)	7	35	3	24.27
310301201	1.2	8	35	3	24.27
310301301	1.3	8	35	3	24.27
310301401	1.4	9	35	3	24.27
310301501	1.5	9	40	3	24.27
310301591	1.59 (1/16)	9	40	3	24.27
310301601	1.6	10	40	3	23.11
310301701	1.7	10	40	3	23.11
310301801	1.8	11	40	3	23.11
310301901	1.9	11	40	3	23.11
310301981	1.98 (5/64)	11	40	3	23.11
310302001	2	13	45	3	23.11
310302101	2.1	13	45	3	22.73
310302201	2.2	13	45	3	22.73
310302301	2.3	13	45	3	22.73
310302381	2.38 (3/32)	13	45	3	22.73
310302401	2.4	15	45	3	22.73
310302501	2.5	15	50	3	22.73
310302601	2.6	15	50	3	22.73
310302701	2.7	17	50	3	22.73
310302781	2.78 (7/64)	17	50	3	22.73
310302801	2.8	17	50	3	22.73
310302901	2.9	17	50	3	22.73
310303001	3	20	62	6	33.39
310303101	3.1	20	62	6	33.39
310303171	3.18 (1/8)	20	62	6	33.39
310303201	3.2	20	62	6	33.39
310303301	3.3	20	62	6	33.39
310303401	3.4	20	62	6	33.39
310303501	3.5	20	62	6	33.39
310303571	3.57 (9/64)	20	62	6	33.39
310303601	3.6	20	62	6	33.39
310303701	3.7	20	62	6	33.39
310303801	3.8	24	66	6	33.39
310303901	3.9	24	66	6	33.39
310303971	3.97 (5/32)	24	66	6	33.39
310304001	4	24	66	6	33.39
310304101	4.1	24	66	6	33.39
310304201	4.2	24	66	6	33.39
310304301	4.3	24	66	6	33.39

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
310304371	4.37 (11/64)	24	66	6	33.39
310304401	4.4	24	66	6	33.39
310304501	4.5	24	66	6	33.39
310304601	4.6	24	66	6	33.39
310304701	4.7	24	66	6	33.39
310304761	4.76 (3/16)	28	66	6	33.39
310304801	4.8	28	66	6	33.39
310304901	4.9	28	66	6	33.39
310305001	5	28	66	6	33.39
310305101	5.1	28	66	6	33.39
310305161	5.16 (13/64)	28	66	6	33.39
310305201	5.2	28	66	6	33.39
310305301	5.3	28	66	6	33.39
310305401	5.4	28	66	6	33.39
310305501	5.5	28	66	6	33.39
310305561	5.56 (7/32)	28	66	6	33.39
310305601	5.6	28	66	6	33.39
310305701	5.7	28	66	6	33.39
310305801	5.8	28	66	6	33.39
310305901	5.9	28	66	6	33.39
310305951	5.95 (15/64)	28	66	6	33.39
310306001	6	28	66	6	33.39
310306101	6.1	34	79	8	50.76
310306201	6.2	34	79	8	50.76
310306301	6.3	34	79	8	50.76
310306351	6.35 (1/4)	34	79	8	50.77
310306401	6.4	34	79	8	50.76
310306501	6.5	34	79	8	50.76
310306601	6.6	34	79	8	50.76
310306701	6.7	34	79	8	50.76
310306751	6.75 (17/64)	34	79	8	50.77
310306801	6.8	34	79	8	50.76
310306901	6.9	34	79	8	50.76
310307001	7	34	79	8	50.76
310307101	7.1	41	79	8	50.76
310307141	7.14 (9/32)	41	79	8	50.77
310307201	7.2	41	79	8	50.76
310307301	7.3	41	79	8	50.76
310307401	7.4	41	79	8	50.76
310307501	7.5	41	79	8	50.76
310307541	7.54 (19/64)	41	79	8	50.77
310307601	7.6	41	79	8	50.76

Carbide Drill with EgiAs coating.
Up to 3xD.
General Purpose.

HY-PRO CARBIDE DRILL
3D HIGH PERFORMANCE TYPE

HYP-HP-GDS-3D

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
310307701	7.7	41	79	8	50.76
310307801	7.8	41	79	8	50.76
310307901	7.9	41	79	8	50.76
310307941	7.94 (5/16)	41	79	8	50.77
310308001	8	41	79	8	50.76
310308101	8.1	47	89	10	71.22
310308201	8.2	47	89	10	71.22
310308301	8.3	47	89	10	71.22
310308331	8.33 (21/64)	47	89	10	71.22
310308401	8.4	47	89	10	71.22
310308501	8.5	47	89	10	71.22
310308601	8.6	47	89	10	71.22
310308701	8.7	47	89	10	71.22
310308731	8.73 (11/32)	47	89	10	71.22
310308801	8.8	47	89	10	71.22
310308901	8.9	47	89	10	71.22
310309001	9	47	89	10	71.22
310309101	9.1	47	89	10	71.22
310309131	9.13 (23/64)	47	89	10	71.22
310309201	9.2	47	89	10	71.22
310309301	9.3	47	89	10	71.22
310309401	9.4	47	89	10	71.22
310309501	9.5	47	89	10	71.22
310309521	9.52 (3/8)	47	89	10	71.22
310309601	9.6	47	89	10	71.22
310309701	9.7	47	89	10	71.22
310309801	9.8	47	89	10	71.22
310309901	9.9	47	89	10	71.22
310309921	9.92 (25/64)	47	89	10	71.22
310310001	10	47	89	10	71.22
310310101	10.1	55	102	12	90.05
310310201	10.2	55	102	12	90.05
310310301	10.3	55	102	12	90.05
310310321	10.32 (13/32)	55	102	12	90.06
310310401	10.4	55	102	12	90.05
310310501	10.5	55	102	12	90.05
310310601	10.6	55	102	12	90.05
310310701	10.7	55	102	12	90.05
310310721	10.72 (27/64)	55	102	12	90.06
310310801	10.8	55	102	12	90.05
310310901	10.9	55	102	12	90.05
310311001	11	55	102	12	90.05

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
310311101	11.1	55	102	12	90.05
310311111	11.11 (7/16)	55	102	12	90.06
310311201	11.2	55	102	12	90.05
310311301	11.3	55	102	12	90.05
310311401	11.4	55	102	12	90.05
310311501	11.5	55	102	12	90.05
310311511	11.51 (29/64)	55	102	12	90.06
310311601	11.6	55	102	12	90.05
310311701	11.7	55	102	12	90.05
310311801	11.8	55	102	12	90.05
310311901	11.9	55	102	12	90.05
310311911	11.91 (15/32)	55	102	12	90.06
310312001	12	55	102	12	90.05
310312101	12.1	60	107	14	132.55
310312201	12.2	60	107	14	132.55
310312301	12.30 (31/64)	60	107	14	132.55
310312501	12.5	60	107	14	132.55
310312701	12.70 (1/2)	60	107	14	132.55
310313001	13	60	107	14	132.55
310313501	13.5	60	107	14	132.55
310313801	13.8	60	107	14	132.55
310314001	14	60	107	14	132.55
310314291	14.29 (9/16)	65	115	16	171.15
310314501	14.5	65	115	16	171.15
310314801	14.8	65	115	16	171.15
310315001	15	65	115	16	171.15
310315501	15.5	65	115	16	171.15
310315801	15.8	65	115	16	171.15
310315871	15.87 (5/8)	65	115	16	
310316001	16	65	115	16	171.15
310316501	16.5	73	123	18	271.26
310316801	16.8	73	123	18	271.26
310317001	17	73	123	18	271.26
310317501	17.5	73	123	18	271.26
310317801	17.8	73	123	18	271.26
310318001	18	73	123	18	271.26
310318501	18.5	79	131	20	323.61
310319001	19	79	131	20	323.61
310319051	19.05 (3/4)	79	131	20	323.61
310319501	19.5	79	131	20	323.61
310319801	19.8	79	131	20	323.61
310320001	20	79	131	20	323.61

Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels		Quenched and Tempered Steels			Stainless Steels	Tool Steels	Cast Iron	Ductile Cast Iron	Copper Alloys	Aluminum	Aluminum Alloy Casting	Titanium	Titanium Alloys	Inconel®	Magnesium Alloy	Metal Matrix Composites
C ~ 0.25%	C0.25 ~ 0.45%	C0.45% ~	SCM	~ 35 HRC	35 ~ 45 HRC	45 ~ 50 HRC	50 ~ 62 HRC	62 ~ 70 HRC	SUS	SKD SKS	FC	FCD	Cu	AL	AC	TI			AZ91D	
◎	◎	◎	◎	◎	○	○				◎	◎	◎	○	○	○		○		○	

HY-PRO CARBIDE DRILL
5D HIGH PERFORMANCE TYPE

HYP-HP-GDN-5D

Carbide Drill with EgiAs coating.
Up to 5xD.
General Purpose.





CARBIDE EgiAs 30° m7 SHRINK FIT

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
310501001	1	9	38	3	25.81
310501101	1.1	9	38	3	25.81
310501191	1.19 (3/64)	9	38	3	25.81
310501201	1.2	11	38	3	25.81
310501301	1.3	11	38	3	25.81
310501401	1.4	12	38	3	25.81
310501501	1.5	12	45	3	25.81
310501591	1.59 (1/16)	12	45	3	25.81
310501601	1.6	14	45	3	25.04
310501701	1.7	14	45	3	25.04
310501801	1.8	16	45	3	25.04
310501901	1.9	16	45	3	25.04
310501981	1.98 (5/64)	16	45	3	25.04
310502001	2	18	52	3	25.04
310502101	2.1	18	52	3	24.46
310502201	2.2	20	52	3	24.46
310502301	2.3	20	52	3	24.46
310502381	2.38 (3/32)	20	52	3	24.46
310502401	2.4	22	52	3	24.46
310502501	2.5	22	56	3	24.46
310502601	2.6	22	56	3	24.46
310502701	2.7	23	56	3	24.46
310502781	2.78 (7/64)	23	56	3	24.46
310502801	2.8	23	56	3	24.46
310502901	2.9	23	56	3	24.46
310503001	3	28	66	6	42.33
310503101	3.1	28	66	6	42.33
310503171	3.17 (1/8)	28	66	6	42.33
310503201	3.2	28	66	6	42.33
310503301	3.3	28	66	6	42.33
310503401	3.4	28	66	6	42.33
310503501	3.5	28	66	6	42.33
310503571	3.57 (9/64)	28	66	6	33.39
310503601	3.6	28	66	6	42.33
310503701	3.7	28	66	6	42.33
310503801	3.8	36	74	6	46.03
310503901	3.9	36	74	6	46.03
310503971	3.97 (5/32)	36	74	6	46.03
310504001	4	36	74	6	46.03
310504101	4.1	36	74	6	46.03
310504201	4.2	36	74	6	46.03
310504301	4.3	36	74	6	46.03

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
310504371	4.37 (11/64)	36	74	6	46.03
310504401	4.4	36	74	6	46.03
310504501	4.5	36	74	6	46.03
310504601	4.6	36	74	6	46.03
310504701	4.7	36	74	6	46.03
310504761	4.76 (3/16)	44	82	6	46.03
310504801	4.8	44	82	6	46.03
310504901	4.9	44	82	6	46.03
310505001	5	44	82	6	46.03
310505101	5.1	44	82	6	46.03
310505161	5.16 (13/64)	44	82	6	46.03
310505201	5.2	44	82	6	46.03
310505301	5.3	44	82	6	46.03
310505401	5.4	44	82	6	46.03
310505501	5.5	44	82	6	46.03
310505561	5.56 (7/32)	44	82	6	46.03
310505601	5.6	44	82	6	46.03
310505701	5.7	44	82	6	46.03
310505801	5.8	44	82	6	46.03
310505901	5.9	44	82	6	46.03
310505951	5.95 (15/64)	44	82	6	46.03
310506001	6	44	82	6	46.03
310506101	6.1	53	91	8	65.68
310506201	6.2	53	91	8	65.68
310506301	6.3	53	91	8	65.68
310506351	6.35 (1/4)	53	91	8	65.68
310506401	6.4	53	91	8	65.68
310506501	6.5	53	91	8	65.68
310506601	6.6	53	91	8	65.68
310506701	6.7	53	91	8	65.68
310506751	6.75 (17/64)	53	91	8	65.68
310506801	6.8	53	91	8	65.68
310506901	6.9	53	91	8	65.68
310507001	7	53	91	8	65.68
310507101	7.1	53	91	8	65.68
310507141	7.14 (9/32)	53	91	8	65.68
310507201	7.2	53	91	8	65.68
310507301	7.3	53	91	8	65.68
310507401	7.4	53	91	8	65.68
310507501	7.5	53	91	8	65.68
310507541	7.54 (19/64)	53	91	8	65.68
310507601	7.6	53	91	8	65.68

Carbide Drill with EgiAs coating.
Up to 5xD.
General Purpose.

HY-PRO CARBIDE DRILL
5D HIGH PERFORMANCE TYPE

HYP-HP-GDN-5D

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
310507701	7.7	53	91	8	65.68
310507801	7.8	53	91	8	65.68
310507901	7.9	53	91	8	65.68
310507941	7.94 (5/16)	53	91	8	65.68
310508001	8	53	91	8	65.68
310508101	8.1	61	103	10	82.05
310508201	8.2	61	103	10	82.05
310508301	8.3	61	103	10	82.05
310508331	8.33 (21/64)	61	103	10	82.05
310508401	8.4	61	103	10	82.05
310508501	8.5	61	103	10	82.05
310508601	8.6	61	103	10	82.05
310508701	8.7	61	103	10	82.05
310508731	8.73 (11/32)	61	103	10	82.05
310508801	8.8	61	103	10	82.05
310508901	8.9	61	103	10	82.05
310509001	9	61	103	10	82.05
310509101	9.1	61	103	10	82.05
310509131	9.13 (23/64)	61	103	10	82.05
310509201	9.2	61	103	10	82.05
310509301	9.3	61	103	10	82.05
310509401	9.4	61	103	10	82.05
310509501	9.5	61	103	10	82.05
310509521	9.52 (3/8)	61	103	10	82.05
310509601	9.6	61	103	10	82.05
310509701	9.7	61	103	10	82.05
310509801	9.8	61	103	10	82.05
310509901	9.9	61	103	10	82.05
310509921	9.92 (25/64)	61	103	10	82.05
310510001	10	61	103	10	82.05
310510101	10.1	71	118	12	136.24
310510201	10.2	71	118	12	136.24
310510301	10.3	71	118	12	136.24
310510321	10.32 (13/32)	71	118	12	136.24
310510401	10.4	71	118	12	136.24
310510501	10.5	71	118	12	136.24
310510601	10.6	71	118	12	136.24
310510701	10.7	71	118	12	136.24
310510721	10.72 (27/64)	71	118	12	136.24
310510801	10.8	71	118	12	136.24
310510901	10.9	71	118	12	136.24
310511001	11	71	118	12	136.24

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
310511101	11.1	71	118	12	136.24
310511111	11.11 (7/16)	71	118	12	136.24
310511201	11.2	71	118	12	136.24
310511301	11.3	71	118	12	136.24
310511401	11.4	71	118	12	136.24
310511501	11.5	71	118	12	136.24
310511511	11.51 (29/64)	71	118	12	136.24
310511601	11.6	71	118	12	136.24
310511701	11.7	71	118	12	136.24
310511801	11.8	71	118	12	136.24
310511901	11.9	71	118	12	136.24
310511911	11.91 (15/32)	71	118	12	136.24
310512001	12	71	118	12	136.24
310512301	12.30 (31/64)	77	124	14	155
310512501	12.5	77	124	14	155
310512701	12.70 (1/2)	77	124	14	155
310512801	12.8	77	124	14	155
310513001	13	77	124	14	155
310513501	13.5	77	124	14	155
310513801	13.8	77	124	14	155
310514001	14	77	124	14	155
310514291	14.29 (9/16)	83	133	16	223.84
310514501	14.5	83	133	16	223.84
310514801	14.8	83	133	16	223.84
310515001	15	83	133	16	223.84
310515501	15.5	83	133	16	223.84
310515801	15.8	83	133	16	223.84
310515871	15.87 (5/8)	83	133	16	223.84
310516001	16	83	133	16	223.84
310516501	16.5	93	143	18	323.84
310516801	16.8	93	143	18	323.84
310517001	17	93	143	18	323.84
310517501	17.5	93	143	18	323.84
310517801	17.8	93	143	18	323.84
310518001	18	93	143	18	323.84
310518501	18.5	101	153	20	386.01
310519001	19	101	153	20	386.01
310519051	19.05 (3/4)	101	153	20	386.01
310519501	19.5	101	153	20	386.01
310519801	19.8	101	153	20	386.01
310520001	20	101	153	20	386.01

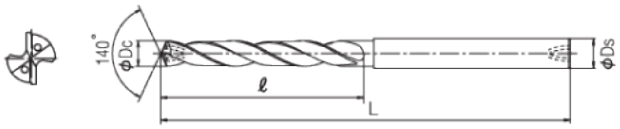
Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels		Quenched and Tempered Steels			Stainless Steels	Tool Steels	Cast Iron	Ductile Cast Iron	Copper Alloys	Aluminum	Aluminum Alloy Casting	Titanium	Titanium Alloys	Inconel®	Magnesium Alloy	Metal Matrix Composites
C ~ 0.25%	C0.25 ~ 0.45%	C0.45% ~	SCM	~ 35 HRC	35 ~ 45 HRC	45 ~ 50 HRC	50 ~ 62 HRC	62 ~ 70 HRC	SUS	SKD SKS	FC	FCD	Cu	AL	AC	TI			AZ91D	
◎	◎	◎	◎	◎	○	○				◎	◎	◎	○	○	○		○		○	

HY-PRO CARBIDE DRILL
3D HIGH PERFORMANCE TYPE WITH INTERNAL COOLANT

HYP-HPO-GDS-3D

Carbide Drill with internal coolant, EgiAs coating.
Up to 3xD.
General Purpose.





CARBIDE | EgiAs | 30° | m7 | SHRINK FIT

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
311303001	3	20	62	6	47.53
311303101	3.1	20	62	6	47.53
311303171	3.17 (1/8)	20	62	6	47.53
311303181	3.18 (1/8)	20	62	6	47.53
311303201	3.2	20	62	6	47.53
311303301	3.3	20	62	6	47.53
311303401	3.4	20	62	6	47.53
311303501	3.5	20	62	6	47.53
311303571	3.57 (9/64)	20	62	6	47.53
311303601	3.6	20	62	6	47.53
311303701	3.7	20	62	6	47.53
311303801	3.8	24	66	6	47.53
311303901	3.9	24	66	6	47.53
311303971	3.97 (5/32)	24	66	6	47.53
311304001	4	24	66	6	47.53
311304101	4.1	24	66	6	47.53
311304201	4.2	24	66	6	47.53
311304301	4.3	24	66	6	47.53
311304401	4.4	24	66	6	47.53
311304371	4.37 (11/64)	24	66	6	47.53
311304501	4.5	24	66	6	47.53
311304601	4.6	24	66	6	47.53
311304651	4.65	24	66	6	47.53
311304701	4.7	24	66	6	47.53
311304761	4.76 (3/16)	24	66	6	47.53
311304801	4.8	28	66	6	47.53
311304901	4.9	28	66	6	47.53
311305001	5	28	66	6	47.53
311305101	5.1	28	66	6	47.53
311305161	5.16 (13/64)	28	66	6	47.53
311305201	5.2	28	66	6	47.53
311305301	5.3	28	66	6	47.53
311305401	5.4	28	66	6	47.53
311305501	5.5	28	66	6	47.53
311305561	5.56 (7/32)	28	66	6	47.53
311305601	5.6	28	66	6	47.53
311305701	5.7	28	66	6	47.53
311305801	5.8	28	66	6	47.53
311305901	5.9	28	66	6	47.53
311305951	5.95 (15/64)	28	66	6	47.53
311306001	6	28	66	6	47.53
311306101	6.1	34	79	8	66.45

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
311306201	6.2	34	79	8	66.45
311306301	6.3	34	79	8	66.45
311306351	6.35 (1/4)	34	79	8	66.45
311306401	6.4	34	79	8	66.45
311306501	6.5	34	79	8	66.45
311306601	6.6	34	79	8	66.45
311306701	6.7	34	79	8	66.45
311306751	6.75 (17/64)	34	79	8	66.45
311306801	6.8	34	79	8	66.45
311306901	6.9	34	79	8	66.45
311307001	7	34	79	8	66.45
311307101	7.1	41	79	8	72.46
311307141	7.14 (9/32)	41	79	8	72.46
311307201	7.2	41	79	8	72.46
311307301	7.3	41	79	8	72.46
311307401	7.4	41	79	8	72.46
311307501	7.5	41	79	8	72.46
311307541	7.54 (19/64)	41	79	8	72.46
311307601	7.6	41	79	8	72.46
311307701	7.7	41	79	8	72.46
311307801	7.8	41	79	8	72.46
311307901	7.9	41	79	8	72.46
311307941	7.94 (5/16)	41	79	8	72.46
311308001	8	41	79	8	72.46
311308101	8.1	47	89	10	96.11
311308201	8.2	47	89	10	96.11
311308301	8.3	47	89	10	96.11
311308331	8.33 (21/64)	47	89	10	96.11
311308401	8.4	47	89	10	96.11
311308501	8.5	47	89	10	96.11
311308601	8.6	47	89	10	96.11
311308701	8.7	47	89	10	96.11
311308731	8.73 (11/32)	47	89	10	96.11
311308801	8.8	47	89	10	96.11
311308901	8.9	47	89	10	96.11
311309001	9	47	89	10	96.11
311309101	9.1	47	89	10	99.96
311309131	9.13 (23/64)	47	89	10	99.96
311309201	9.2	47	89	10	99.96
311309301	9.3	47	89	10	99.96
311309401	9.4	47	89	10	99.96
311309501	9.5	47	89	10	99.96

Carbide Drill with internal coolant, EgiAs coating.
Up to 3xD.
General Purpose.

HY-PRO CARBIDE DRILL
3D HIGH PERFORMANCE TYPE WITH INTERNAL COOLANT

HYP-HPO-GDS-3D

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
311309521	9.52 (3/8)	47	89	10	99.96
311309601	9.6	47	89	10	99.96
311309701	9.7	47	89	10	99.96
311309801	9.8	47	89	10	99.96
311309901	9.9	47	89	10	99.96
311309921	9.92 (25/64)	47	89	10	99.96
311310001	10	47	89	10	99.96
311310101	10.1	55	102	12	141.59
311310201	10.2	55	102	12	141.59
311310301	10.3	55	102	12	141.59
311310321	10.32 (13/32)	55	102	12	141.6
311310401	10.4	55	102	12	141.59
311310501	10.5	55	102	12	141.59
311310601	10.6	55	102	12	141.59
311310701	10.7	55	102	12	141.59
311310721	10.72 (27/64)	55	102	12	141.6
311310801	10.8	55	102	12	141.59
311310901	10.9	55	102	12	141.59
311311001	11	55	102	12	141.59
311311101	11.1	55	102	12	144.42
311311111	11.11 (7/16)	55	102	12	144.41
311311201	11.2	55	102	12	144.42
311311301	11.3	55	102	12	144.42
311311401	11.4	55	102	12	144.42
311311501	11.5	55	102	12	144.42
311311511	11.51 (29/64)	55	102	12	144.41
311311601	11.6	55	102	12	144.42
311311701	11.7	55	102	12	144.42

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
311311801	11.8	55	102	12	144.42
311311901	11.9	55	102	12	144.42
311311911	11.91 (15/32)	55	102	12	144.41
311312001	12	55	102	12	144.42
311312301	12.30 (31/64)	60	107	14	144.41
311312501	12.5	60	107	14	176.73
311312701	12.70 (1/2)	60	107	14	176.73
311313001	13	60	107	14	178.85
311313501	13.5	60	107	14	181.81
311313701	13.7	60	107	14	181.81
311314001	14	60	107	14	181.81
311314291	14.29 (9/16)	65	115	16	235.89
311314501	14.5	65	115	16	235.89
311314701	14.7	65	115	16	235.89
311315001	15	65	115	16	235.89
311315501	15.5	65	115	16	241.06
311315701	15.7	65	115	16	241.06
311315871	15.87 (5/8)	65	115	16	241.06
311316001	16	65	115	16	241.06
311316501	16.5	73	123	18	308.74
311317001	17	73	123	18	349.76
311317501	17.5	73	123	18	349.76
311318001	18	73	123	18	349.76
311318501	18.5	79	131	20	387.97
311319001	19	79	131	20	387.97
311319051	19.05 (3/4)	79	131	20	387.97
311319501	19.5	79	131	20	412.74
311320001	20	79	131	20	425.96

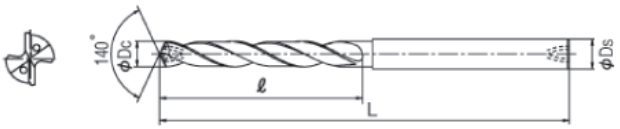
Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels		Quenched and Tempered Steels			Stainless Steels	Tool Steels	Cast Iron	Ductile Cast Iron	Copper Alloys	Aluminum	Aluminum Alloy Casting	Titanium	Titanium Alloys	Inconel®	Magnesium Alloy	Metal Matrix Composites
C ~ 0.25%	C0.25 ~ 0.45%	C0.45% ~	SCM	~ 35 HRC	35 ~ 45 HRC	45 ~ 50 HRC	50 ~ 62 HRC	62 ~ 70 HRC	SUS	SKD SKS	FC	FCD	Cu	AL	AC	TI			AZ91D	
◎	◎	◎	◎	◎	○	○			◎	◎	◎	◎	○	○	○		○		○	

HY-PRO CARBIDE DRILL
5D HIGH PERFORMANCE TYPE WITH INTERNAL COOLANT

HYP-HPO-GDN-5D

Carbide Drill with internal coolant, EgiAs coating.
Up to 5xD.
General Purpose.





CARBIDE | EgiAs | 30° | m7 | SHRINK FIT

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
311503001	3	28	66	6	59.4
311503101	3.1	28	66	6	59.4
311503171	3.17 (1/8)	28	66	6	59.4
311503181	3.18 (1/8)	28	66	6	59.4
311503201	3.2	28	66	6	59.4
311503301	3.3	28	66	6	59.4
311503401	3.4	28	66	6	59.4
311503501	3.5	28	66	6	59.4
311503571	3.57 (9/64)	28	66	6	59.78
311503601	3.6	28	66	6	59.78
311503701	3.7	28	66	6	59.78
311503801	3.8	36	74	6	59.78
311503901	3.9	36	74	6	59.78
311503971	3.97 (5/32)	36	74	6	59.78
311504001	4	36	74	6	59.78
311504101	4.1	36	74	6	59.78
311504201	4.2	36	74	6	59.78
311504301	4.3	36	74	6	59.78
311504371	4.37 (11/64)	36	74	6	59.78
311504401	4.4	36	74	6	59.78
311504501	4.5	36	74	6	61.16
311504601	4.6	36	74	6	61.16
311504701	4.7	36	74	6	61.16
311504761	4.76 (3/16)	44	82	6	61.17
311504801	4.8	44	82	6	61.16
311504901	4.9	44	82	6	61.16
311505001	5	44	82	6	61.16
311505101	5.1	44	82	6	61.16
311505161	5.16 (13/64)	44	82	6	61.17
311505201	5.2	44	82	6	61.16
311505301	5.3	44	82	6	61.16
311505401	5.4	44	82	6	61.16
311505501	5.5	44	82	6	61.16
311505561	5.56 (7/32)	44	82	6	61.17
311505601	5.6	44	82	6	61.16
311505701	5.7	44	82	6	61.16
311505801	5.8	44	82	6	61.16
311505901	5.9	44	82	6	61.16
311505951	5.95 (15/64)	44	82	6	61.17
311506001	6	44	82	6	61.16
311506101	6.1	53	91	8	79.77
311506201	6.2	53	91	8	79.77

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
311506301	6.3	53	91	8	79.77
311506351	6.35 (1/4)	53	91	8	79.78
311506401	6.4	53	91	8	79.77
311506501	6.5	53	91	8	79.77
311506601	6.6	53	91	8	79.77
311506701	6.7	53	91	8	79.77
311506751	6.75 (17/64)	53	91	8	79.78
311506801	6.8	53	91	8	79.77
311506901	6.9	53	91	8	79.77
311507001	7	53	91	8	79.77
311507101	7.1	53	91	8	84.74
311507141	7.14 (9/32)	53	91	8	84.74
311507201	7.2	53	91	8	84.74
311507301	7.3	53	91	8	84.74
311507401	7.4	53	91	8	84.74
311507501	7.5	53	91	8	84.74
311507541	7.54 (19/64)	53	91	8	84.74
311507601	7.6	53	91	8	84.74
311507701	7.7	53	91	8	84.74
311507801	7.8	53	91	8	84.74
311507901	7.9	53	91	8	84.74
311507941	7.94 (5/16)	53	91	8	84.74
311508001	8	53	91	8	84.74
311508101	8.1	61	103	10	105.31
311508201	8.2	61	103	10	105.31
311508301	8.3	61	103	10	105.31
311508331	8.33 (21/64)	61	103	10	105.31
311508401	8.4	61	103	10	105.31
311508501	8.5	61	103	10	105.31
311508601	8.6	61	103	10	105.31
311508701	8.7	61	103	10	105.31
311508731	8.73 (11/32)	61	103	10	105.31
311508801	8.8	61	103	10	105.31
311508901	8.9	61	103	10	105.31
311509001	9	61	103	10	105.31
311509101	9.1	61	103	10	112.33
311509131	9.13 (23/64)	61	103	10	112.33
311509201	9.2	61	103	10	112.33
311509301	9.3	61	103	10	112.33
311509401	9.4	61	103	10	112.33
311509501	9.5	61	103	10	112.33
311509521	9.52 (3/8)	61	103	10	112.33

Carbide Drill with internal coolant, EgiAs coating.
Up to 5xD.
General Purpose.

HY-PRO CARBIDE DRILL
5D HIGH PERFORMANCE TYPE WITH INTERNAL COOLANT

HYP-HPO-GDN-5D

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
311509601	9.6	61	103	10	112.33
311509701	9.7	61	103	10	112.33
311509801	9.8	61	103	10	112.33
311509901	9.9	61	103	10	112.33
311509921	9.92 (25/64)	61	103	10	112.33
311510001	10	61	103	10	112.33
311510101	10.1	71	118	12	164.06
311510201	10.2	71	118	12	164.06
311510301	10.3	71	118	12	164.06
311510321	10.32 (13/32)	71	118	12	164.05
311510401	10.4	71	118	12	164.06
311510501	10.5	71	118	12	164.06
311510601	10.6	71	118	12	164.06
311510701	10.7	71	118	12	164.06
311510721	10.72 (27/64)	71	118	12	164.05
311510801	10.8	71	118	12	164.06
311510901	10.9	71	118	12	164.06
311511001	11	71	118	12	164.06
311511101	11.1	71	118	12	164.06
311511111	11.11 (7/16)	71	118	12	164.05
311511201	11.2	71	118	12	164.06
311511301	11.3	71	118	12	164.06
311511401	11.4	71	118	12	164.06
311511501	11.5	71	118	12	164.06
311511511	11.51 (29/64)	71	118	12	164.05

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
311511601	11.6	71	118	12	164.06
311511701	11.7	71	118	12	164.06
311511801	11.8	71	118	12	164.06
311511901	11.9	71	118	12	164.06
311511911	11.91 (15/32)	71	118	12	164.05
311512001	12	71	118	12	164.06
311512301	12.30 (31/64)	77	124	14	213.86
311512501	12.5	77	124	14	213.86
311512701	12.70 (1/2)	77	124	14	213.86
311513001	13	77	124	14	213.86
311513501	13.5	77	124	14	217.1
311513701	13.7	77	124	14	217.1
311514001	14	77	124	14	217.1
311514501	14.5	83	133	16	217.1
311514701	14.7	83	133	16	269.25
311515001	15	83	133	16	269.25
311516001	16	83	133	16	279.31
311516501	16.5	93	143	18	279.31
311517001	17	93	143	18	347.49
311517501	17.5	93	143	18	380.7
311518001	18	93	143	18	413.2
311518501	18.5	101	153	20	449.57
311519001	19	101	153	20	455.73
311519501	19.5	101	153	20	493.56
311520001	20	101	153	20	493.56

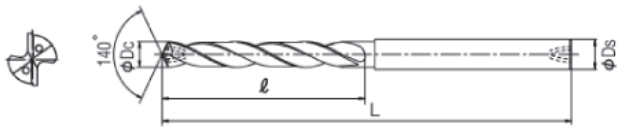
Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels		Quenched and Tempered Steels			Stainless Steels	Tool Steels	Cast Iron	Ductile Cast Iron	Copper Alloys	Aluminum	Aluminum Alloy Casting	Titanium	Titanium Alloys	Inconel®	Magnesium Alloy	Metal Matrix Composites
C ~ 0.25%	C0.25 ~ 0.45%	C0.45% ~	SCM	~ 35 HRC	35 ~ 45 HRC	45 ~ 50 HRC	50 ~ 62 HRC	62 ~ 70 HRC	SUS	SKD SKS	FC	FCD	Cu	AL	AC	TI			AZ91D	
◎	◎	◎	◎	◎	○	○			◎	◎	◎	◎	○	○	○		○		○	

HY-PRO CARBIDE DRILL
8D HIGH PERFORMANCE TYPE WITH INTERNAL COOLANT

HYP-HPO-GDL-8D

Carbide Drill with internal coolant, EgiAs coating.
Up to 8xD.
General Purpose.





CARBIDE | EgiAs | 30° | m7 | SHRINK FIT

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
311803001	3	34	72	4	86.94
311803101	3.1	43	81	4	86.94
311803201	3.2	43	81	4	86.94
311803301	3.3	43	81	4	86.94
311803401	3.4	43	81	4	86.94
311803501	3.5	43	81	4	89.71
311803571	3.57	43	81	4	89.71
311803601	3.6	43	81	4	89.71
311803701	3.7	43	81	4	89.71
311803801	3.8	43	81	4	89.71
311803901	3.9	43	81	4	89.71
311804001	4	43	81	4	89.71
311804101	4.1	50	90	6	91.49
311804201	4.2	50	90	6	91.49
311804301	4.3	50	90	6	91.49
311804401	4.4	50	90	6	91.49
311804501	4.5	50	90	6	91.49
311804601	4.6	50	90	6	91.49
311804701	4.7	50	90	6	91.49
311804801	4.8	50	90	6	91.49
311804901	4.9	50	90	6	91.49
311805001	5	50	90	6	91.49
311805101	5.1	57	97	6	96.23
311805201	5.2	57	97	6	96.23
311805301	5.3	57	97	6	96.23
311805401	5.4	57	97	6	96.23
311805501	5.5	57	97	6	96.23
311805601	5.6	57	97	6	96.23
311805701	5.7	57	97	6	96.23
311805801	5.8	57	97	6	96.23
311805901	5.9	57	97	6	96.23
311806001	6	57	97	6	96.23
311806101	6.1	66	106	8	113.37
311806201	6.2	66	106	8	113.37
311806301	6.3	66	106	8	113.37
311806401	6.4	66	106	8	113.37
311806501	6.5	66	106	8	113.37
311806601	6.6	66	106	8	113.37
311806701	6.7	66	106	8	113.37
311806801	6.8	66	106	8	113.37
311806901	6.9	76	116	8	113.37
311807001	7	76	116	8	113.37
311807101	7.1	76	116	8	113.37
311807201	7.2	76	116	8	113.37
311807301	7.3	76	116	8	113.37
311807401	7.4	76	116	8	113.37
311807501	7.5	76	116	8	113.37

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
311807601	7.6	76	116	8	113.37
311807701	7.7	76	116	8	113.37
311807801	7.8	76	116	8	113.37
311807901	7.9	76	116	8	113.37
311808001	8	76	116	8	113.37
311808101	8.1	87	131	10	173.22
311808201	8.2	87	131	10	173.22
311808301	8.3	87	131	10	173.22
311808401	8.4	87	131	10	173.22
311808501	8.5	87	131	10	173.22
311808601	8.6	87	131	10	173.22
311808701	8.7	87	131	10	173.22
311808801	8.8	87	131	10	173.22
311808901	8.9	87	131	10	173.22
311809001	9	87	131	10	173.22
311809101	9.1	95	139	10	173.22
311809201	9.2	95	139	10	173.22
311809301	9.3	95	139	10	173.22
311809401	9.4	95	139	10	173.22
311809501	9.5	95	139	10	173.22
311809601	9.6	95	139	10	173.22
311809701	9.7	95	139	10	173.22
311809801	9.8	95	139	10	173.22
311809901	9.9	95	139	10	173.22
311810001	10	95	139	10	173.22
311810101	10.1	106	155	12	244.6
311810201	10.2	106	155	12	244.6
311810301	10.3	106	155	12	244.6
311810321	10.32	106	155	12	244.6
311810401	10.4	106	155	12	244.6
311810501	10.5	106	155	12	244.6
311810601	10.6	106	155	12	244.6
311810701	10.7	106	155	12	244.6
311810801	10.8	106	155	12	244.6
311810901	10.9	106	155	12	244.6
311811001	11	106	155	12	244.6
311811101	11.1	114	163	12	244.6
311811201	11.2	114	163	12	244.6
311811301	11.3	114	163	12	244.6
311811401	11.4	114	163	12	244.6
311811501	11.5	114	163	12	244.6
311811601	11.6	114	163	12	244.6
311811701	11.7	114	163	12	244.6
311811801	11.8	114	163	12	244.6
311811901	11.9	114	163	12	244.6
311812001	12	114	163	12	244.6

Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels		Quenched and Tempered Steels			Stainless Steels	Tool Steels	Cast Iron	Ductile Cast Iron	Copper Alloys	Aluminum	Aluminum Alloy Casting	Titanium	Titanium Alloys	Inconel®	Magnesium Alloy	Metal Matrix Composites
C ~ 0.25%	C0.25 ~ 0.45%	C0.45% ~	SCM	~ 35 HRC	35 ~ 45 HRC	45 ~ 50 HRC	50 ~ 62 HRC	62 ~ 70 HRC	SUS	SKD SKS	FC	FCD	Cu	AL	AC	TI			AZ91D	
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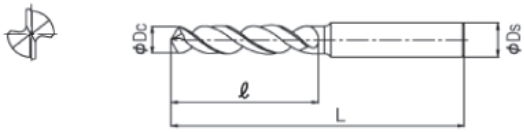


HY-PRO CARBIDE DRILL
REGULAR LENGTH

HYP-MG-GDR

Carbide Drill.
Up to 3xD.
General Purpose.





SHRINK FIT | m7 | 20° | CARBIDE

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
202100700	0.7	6.5	30	0.7	8.98
202100800	0.8	8.5	30	0.8	8.98
202100900	0.9	9.5	30	0.9	8.98
202101000	1	11	30	1	8.98
202101100	1.1	11	30	1.1	8.98
202101200	1.2	13	30	1.2	8.98
202101300	1.3	13	30	1.3	8.98
202101400	1.4	13	30	1.4	8.98
202101500	1.5	13	30	1.5	8.98
202101600	1.6	17.5	40	1.6	8.98
202101700	1.7	17.5	40	1.7	8.98
202101800	1.8	17.5	40	1.8	8.98
202101900	1.9	17.5	40	1.9	8.98
202102000	2	17.5	40	2	8.98
202102100	2.1	17.5	40	2.1	10.17
202102200	2.2	17.5	40	2.2	10.17
202102300	2.3	17.5	40	2.3	10.17
202102400	2.4	17.5	40	2.4	10.17
202102500	2.5	17.5	40	2.5	10.17
202102600	2.6	20	45	2.6	11.41
202102700	2.7	20	45	2.7	11.41
202102800	2.8	20	45	2.8	11.41
202102900	2.9	20	45	2.9	11.41
202203000	3	33	61	3	11.41
202203100	3.1	36	65	3.1	13.48
202203200	3.2	36	65	3.2	13.48
202203300	3.3	36	65	3.3	13.48
202203400	3.4	39	70	3.4	13.48
202203500	3.5	39	70	3.5	13.48
202203600	3.6	39	70	3.6	15.26
202203700	3.7	39	70	3.7	15.26
202203800	3.8	43	75	3.8	15.26
202203900	3.9	43	75	3.9	15.26
202204000	4	43	75	4	15.26
202204100	4.1	43	75	4.1	18.03
202204200	4.2	43	75	4.2	18.03
202204300	4.3	47	80	4.3	18.03
202204400	4.4	47	80	4.4	18.03
202204500	4.5	47	80	4.5	18.03
202204600	4.6	47	80	4.6	19.56
202204700	4.7	47	80	4.7	19.56
202204800	4.8	52	86	4.8	19.56
202204900	4.9	52	86	4.9	19.56

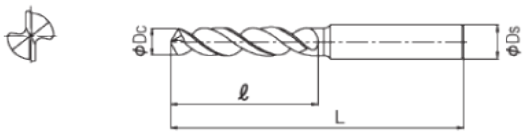
Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
202205000	5	52	86	5	19.56
202205100	5.1	52	86	5.1	22.19
202205200	5.2	52	86	5.2	22.19
202205300	5.3	52	86	5.3	22.19
202205400	5.4	57	93	5.4	22.19
202205500	5.5	57	93	5.5	22.19
202205600	5.6	57	93	5.6	25.08
202205700	5.7	57	93	5.7	25.08
202205800	5.8	57	93	5.8	25.08
202205900	5.9	57	93	5.9	25.08
202206000	6	57	93	6	25.08
202206100	6.1	63	101	6.1	28
202206200	6.2	63	101	6.2	28
202206300	6.3	63	101	6.3	28
202206400	6.4	63	101	6.4	28
202206500	6.5	63	101	6.5	28
202206600	6.6	63	101	6.6	32.78
202206700	6.7	63	101	6.7	32.78
202206800	6.8	69	109	6.8	32.78
202206900	6.9	69	109	6.9	32.78
202207000	7	69	109	7	32.78
202207100	7.1	69	109	7.1	35.97
202207200	7.2	69	109	7.2	35.97
202207300	7.3	69	109	7.3	35.97
202207400	7.4	69	109	7.4	35.97
202207500	7.5	69	109	7.5	35.97
202207600	7.6	75	117	7.6	40.68
202207700	7.7	75	117	7.7	40.68
202207800	7.8	75	117	7.8	40.68
202207900	7.9	75	117	7.9	40.68
202208000	8	75	117	8	40.68
202208100	8.1	75	117	8.1	44.61
202208200	8.2	75	117	8.2	44.61
202208300	8.3	75	117	8.3	44.61
202208400	8.4	75	117	8.4	44.61
202208500	8.5	75	117	8.5	44.61
202208600	8.6	81	125	8.6	51.62
202208700	8.7	81	125	8.7	51.62
202208800	8.8	81	125	8.8	51.62
202208900	8.9	81	125	8.9	51.62
202209000	9	81	125	9	51.62
202209100	9.1	81	125	9.1	58.12
202209200	9.2	81	125	9.2	58.12

Carbide Drill.
Up to 3xD.
General Purpose.

HY-PRO CARBIDE DRILL REGULAR LENGTH

HYP-MG-GDR





Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
202209300	9.3	81	125	9.3	58.12
202209400	9.4	81	125	9.4	58.12
202209500	9.5	81	125	9.5	58.12
202209600	9.6	87	133	9.6	67.87
202209700	9.7	87	133	9.7	67.87
202209800	9.8	87	133	9.8	67.87
202209900	9.9	87	133	9.9	67.87
202210000	10	87	133	10	67.87
202210100	10.1	87	133	10.1	72.92
202210200	10.2	87	133	10.2	72.92
202210300	10.3	87	133	10.3	72.92
202210400	10.4	87	133	10.4	72.92
202210500	10.5	87	133	10.5	72.92
202210600	10.6	87	133	10.6	84.17

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
202210700	10.7	94	142	10.7	84.17
202210800	10.8	94	142	10.8	84.17
202210900	10.9	94	142	10.9	84.17
202211000	11	94	142	11	84.17
202211100	11.1	94	142	11.1	91.49
202211200	11.2	94	142	11.2	91.49
202211300	11.3	94	142	11.3	91.49
202211400	11.4	94	142	11.4	91.49
202211500	11.5	94	142	11.5	91.49
202211600	11.6	94	142	11.6	94.61
202211700	11.7	94	142	11.7	94.61
202211800	11.8	94	142	11.8	94.61
202211900	11.9	101	151	11.9	94.61
202212000	12	101	151	12	94.61

Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels		Quenched and Tempered Steels			Stainless Steels	Tool Steels	Cast Iron	Ductile Cast Iron	Copper Alloys	Aluminum	Aluminum Alloy Casting	Titanium	Titanium Alloys	Inconel®	Magnesium Alloy	Metal Matrix Composites
C ~ 0.25%	C0.25 ~ 0.45%	C0.45% ~	SCM	~ 35 HRC	35 ~ 45 HRC	45 ~ 50 HRC	50 ~ 62 HRC	62 ~ 70 HRC	SUS	SKD SKS	FC	FCD	Cu	AL	AC	TI			AZ91D	
○	○	○	○							○	◎	○	○	◎	◎				◎	

HY-PRO CARBIDE DRILL
3D HIGH PERFORMANCE TYPE

NEW

HYP-ALD-GDS-3D

Carbide Drill
Up to 3xD.
mainly for non-ferrous metals





CARBIDE 30° m7 SHRINK FIT

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
110301000	1	7	35	3	23.13
110301100	1.1	7	35	3	23.13
110301190	1.19 (3/64)	8	35	3	23.13
110301200	1.2	8	35	3	23.13
110301300	1.3	8	35	3	23.13
110301400	1.4	9	35	3	23.13
110301500	1.5	9	40	3	23.13
110301590	1.59 (1/16)	10	40	3	23.13
110301600	1.6	10	40	3	23.13
110301700	1.7	10	40	3	23.13
110301800	1.8	11	40	3	23.13
110301900	1.9	11	40	3	23.13
110301980	1.98 (5/64)	13	45	3	23.13
110302000	2	13	45	3	25.03
110302100	2.1	13	45	3	25.03
110302200	2.2	13	45	3	25.03
110302300	2.3	13	45	3	25.03
110302380	2.38 (3/32)	15	45	3	25.03
110302400	2.4	15	45	3	25.03
110302500	2.5	15	50	3	25.03
110302600	2.6	15	50	3	25.03
110302700	2.7	17	50	3	25.03
110302780	2.78 (7/64)	17	50	3	25.03
110302800	2.8	17	50	3	25.03
110302900	2.9	17	50	3	25.03
110303000	3	20	62	6	28.5
110303100	3.1	20	62	6	28.5
110303170	3.17 (1/8)	20	62	6	28.5
110303200	3.2	20	62	6	28.5
110303300	3.3	20	62	6	28.5
110303400	3.4	20	62	6	28.5
110303500	3.5	20	62	6	28.5
110303570	3.57 (9/64)	20	62	6	28.5
110303600	3.6	20	62	6	28.5
110303700	3.7	20	62	6	28.5
110303800	3.8	24	66	6	28.5
110303900	3.9	24	66	6	28.5
110303970	3.97 (5/32)	24	66	6	28.5
110304000	4	24	66	6	28.5
110304090	4.09	24	66	6	28.5
110304100	4.1	24	66	6	28.5
110304200	4.2	24	66	6	28.5

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
110304300	4.3	24	66	6	28.5
110304370	4.37 (11/64)	24	66	6	28.5
110304400	4.4	24	66	6	28.5
110304500	4.5	24	66	6	28.5
110304600	4.6	24	66	6	28.5
110304650	4.65	24	66	6	28.5
110304700	4.7	24	66	6	28.5
110304760	4.76 (3/16)	28	66	6	28.5
110304800	4.8	28	66	6	28.5
110304900	4.9	28	66	6	28.5
110305000	5	28	66	6	28.5
110305100	5.1	28	66	6	28.5
110305160	5.16 (13/64)	28	66	6	28.5
110305200	5.2	28	66	6	28.5
110305300	5.3	28	66	6	28.5
110305400	5.4	28	66	6	28.5
110305410	5.41	28	66	6	28.5
110305500	5.5	28	66	6	28.5
110305560	5.56 (7/32)	28	66	6	28.5
110305600	5.6	28	66	6	28.5
110305700	5.7	28	66	6	28.5
110305800	5.8	28	66	6	28.5
110305900	5.9	28	66	6	28.5
110305950	5.95 (15/64)	28	66	6	28.5
110306000	6	28	66	6	28.5
110306100	6.1	34	79	8	46.41
110306200	6.2	34	79	8	46.41
110306300	6.3	34	79	8	46.41
110306350	6.35 (1/4)	34	79	8	42.23
110306400	6.4	34	79	8	46.41
110306500	6.5	34	79	8	46.41
110306530	6.53	34	79	8	42.23
110306600	6.6	34	79	8	42.23
110306700	6.7	34	79	8	42.23
110306750	6.75 (17/64)	34	79	8	42.23
110306800	6.8	34	79	8	42.23
110306900	6.9	34	79	8	42.23
110307000	7	34	79	8	42.23
110307100	7.1	41	79	8	46.4
110307140	7.14 (9/32)	41	79	8	46.4
110307200	7.2	41	79	8	46.4
110307300	7.3	41	79	8	46.4

Carbide Drill
Up to 3xD.
mainly for non-ferrous metals

NEW

HY-PRO CARBIDE DRILL 3D HIGH PERFORMANCE TYPE

HY-PRO

HYP-ALD-GDS-3D

CARBIDE 30° m7 SHRINK FIT

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
110307400	7.4	41	79	8	70.2
110307500	7.5	41	79	8	70.2
110307540	7.54 (19/64)	41	79	8	70.2
110307600	7.6	41	79	8	70.2
110307700	7.7	41	79	8	70.2
110307800	7.8	41	79	8	70.2
110307900	7.9	41	79	8	70.2
110307940	7.94 (5/16)	41	79	8	70.2
110308000	8	41	79	8	70.2
110308100	8.1	47	89	10	93.13
110308200	8.2	47	89	10	93.13
110308300	8.3	47	89	10	93.13
110308330	8.33 (21/64)	47	89	10	93.13
110308400	8.4	47	89	10	93.13
110308430	8.43	47	89	10	93.13
110308500	8.5	47	89	10	93.13
110308600	8.6	47	89	10	93.13
110308700	8.7	47	89	10	93.13
110308730	8.73 (11/32)	47	89	10	93.13
110308800	8.8	47	89	10	93.13
110308900	8.9	47	89	10	93.13
110309000	9	47	89	10	93.13
110309100	9.1	47	89	10	96.87
110309130	9.13 (23/64)	47	89	10	96.87
110309200	9.2	47	89	10	96.87
110309250	9.25	47	89	10	96.87
110309300	9.3	47	89	10	96.87
110309400	9.4	47	89	10	96.87
110309500	9.5	47	89	10	96.87
110309520	9.52 (3/8)	47	89	10	96.87
110309600	9.6	47	89	10	96.87
110309700	9.7	47	89	10	96.87
110309800	9.8	47	89	10	96.87
110309900	9.9	47	89	10	96.87

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
110309920	9.92 (25/64)	47	89	10	68.73
110310000	10	47	89	10	68.73
110310100	10.1	55	102	12	76.67
110310200	10.2	55	102	12	76.67
110310300	10.3	55	102	12	76.67
110310320	10.32 (13/32)	55	102	12	76.67
110310400	10.4	55	102	12	76.67
110310500	10.5	55	102	12	76.67
110310600	10.6	55	102	12	76.67
110310700	10.7	55	102	12	76.67
110310720	10.72 (27/64)	55	102	12	76.67
110310800	10.8	55	102	12	76.67
110310900	10.9	55	102	12	76.67
110311000	11	55	102	12	76.67
110311100	11.1	55	102	12	76.67
110311110	11.11 (7/16)	55	102	12	76.67
110311200	11.2	55	102	12	76.67
110311300	11.3	55	102	12	76.67
110311400	11.4	55	102	12	76.67
110311500	11.5	55	102	12	76.67
110311510	11.51 (29/64)	55	102	12	79.3
110311600	11.6	55	102	12	79.3
110311700	11.7	55	102	12	79.3
110311800	11.8	55	102	12	79.3
110311900	11.9	55	102	12	79.3
110311910	11.91 (15/32)	55	102	12	79.3
110312000	12	55	102	12	79.3
110312100	12.1	60	107	14	102.3
110312200	12.2	60	107	14	102.3
110312300	12.30 (31/64)	60	107	14	102.3
110312400	12.4	60	107	14	102.3
110312500	12.5	60	107	14	102.3
110312600	12.6	60	107	14	102.3
110312700	12.70 (1/2)	60	107	14	102.3

Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels		Quenched and Tempered Steels			Stainless Steels	Tool Steels	Cast Iron	Ductile Cast Iron	Copper Alloys	Aluminum	Aluminum Alloy Casting	Titanium	Titanium Alloys	Inconel®	Magnesium Alloy	Metal Matrix Composites
C ~ 0.25%	C0.25 ~ 0.45%	C0.45% ~	SCM	~ 35 HRC	35 ~ 45 HRC	45 ~ 50 HRC	50 ~ 62 HRC	62 ~ 70 HRC	SUS	SKD SKS	FC	FCD	Cu	AL	AC	TI			AZ91D	
○	○	○	○							○	◎	○	○	◎	◎				◎	

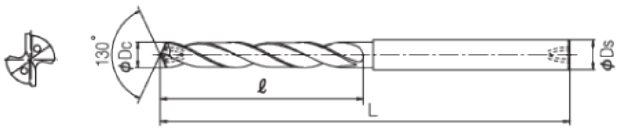
HY-PRO CARBIDE DRILL
5D HIGH PERFORMANCE TYPE WITH INTERNAL COOLANT

NEW

Carbide Drill with internal coolant hole mainly for non-ferrous metal

HYP-ALD-HO-GDN-5D





CARBIDE | 30° | m7 | SHRINK FIT

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
111503000	3	28	66	6	56.67
111503100	3.1	28	66	6	56.67
111503170	3.17 (1/8)	28	66	6	56.67
111503200	3.2	28	66	6	56.67
111503300	3.3	28	66	6	56.67
111503400	3.4	28	66	6	56.67
111503500	3.5	28	66	6	56.67
111503570	3.57 (9/64)	28	66	6	57.03
111503600	3.6	28	66	6	57.03
111503700	3.7	28	66	6	57.03
111503800	3.8	36	74	6	57.03
111503900	3.9	36	74	6	57.03
111503970	3.97 (5/32)	36	74	6	57.03
111504000	4	36	74	6	57.03
111504090	4.09	36	74	6	57.03
111504100	4.1	36	74	6	57.03
111504200	4.2	36	74	6	57.03
111504300	4.3	36	74	6	57.03
111504370	4.37 (11/64)	36	74	6	57.03
111504400	4.4	36	74	6	57.03
111504500	4.5	36	74	6	58.33
111504600	4.6	36	74	6	58.33
111504650	4.65	36	74	6	58.33
111504700	4.7	36	74	6	58.33
111504760	4.76 (3/16)	44	82	6	58.33
111504800	4.8	44	82	6	58.33
111504900	4.9	44	82	6	58.33
111505000	5	44	82	6	58.33
111505100	5.1	44	82	6	58.33
111505160	5.16 (13/64)	44	82	6	58.33
111505200	5.2	44	82	6	58.33
111505300	5.3	44	82	6	58.33
111505400	5.4	44	82	6	58.33
111505410	5.41	44	82	6	58.33
111505500	5.5	44	82	6	58.33
111505560	5.56 (7/32)	44	82	6	58.33
111505600	5.6	44	82	6	58.33
111505700	5.7	44	82	6	58.33
111505800	5.8	44	82	6	58.33
111505900	5.9	44	82	6	58.33
111505950	5.95 (15/64)	44	82	6	58.33
111506000	6	44	82	6	58.33
111506100	6.1	53	91	8	76.07
111506200	6.2	53	91	8	76.07

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
111506300	6.3	53	91	8	76.07
111506350	6.35 (1/4)	53	91	8	76.07
111506400	6.4	53	91	8	76.07
111506500	6.5	53	91	8	76.07
111506530	6.53	53	91	8	76.07
111506600	6.6	53	91	8	76.07
111506700	6.7	53	91	8	76.07
111506750	6.75 (17/64)	53	91	8	76.07
111506800	6.8	53	91	8	76.07
111506900	6.9	53	91	8	76.07
111507000	7	53	91	8	76.07
111507100	7.1	53	91	8	80.83
111507140	7.14 (9/32)	53	91	8	80.83
111507200	7.2	53	91	8	80.83
111507300	7.3	53	91	8	80.83
111507400	7.4	53	91	8	80.83
111507500	7.5	53	91	8	80.83
111507540	7.54 (19/64)	53	91	8	80.83
111507600	7.6	53	91	8	80.83
111507700	7.7	53	91	8	80.83
111507800	7.8	53	91	8	80.83
111507900	7.9	53	91	8	80.83
111507940	7.94 (5/16)	53	91	8	80.83
111508000	8	53	91	8	80.83
111508100	8.1	61	103	10	100.43
111508200	8.2	61	103	10	100.43
111508300	8.3	61	103	10	100.43
111508330	8.33 (21/64)	61	103	10	100.43
111508400	8.4	61	103	10	100.43
111508430	8.43	61	103	10	100.43
111508500	8.5	61	103	10	100.43
111508600	8.6	61	103	10	100.43
111508700	8.7	61	103	10	100.43
111508730	8.73 (11/32)	61	103	10	100.43
111508800	8.8	61	103	10	100.43
111508900	8.9	61	103	10	100.43
111509000	9	61	103	10	100.43
111509100	9.1	61	103	10	107.13
111509130	9.13 (23/64)	61	103	10	107.13
111509200	9.2	61	103	10	107.13
111509250	9.25	61	103	10	107.13
111509300	9.3	61	103	10	107.13
111509400	9.4	61	103	10	107.13
111509500	9.5	61	103	10	107.13

Low Carbon Steels	Medium Carbon Steels	High Carbon Steels	Alloy Steels	Hardened Steels		Quenched and Tempered Steels			Stainless Steels	Tool Steels	Cast Iron	Ductile Cast Iron	Copper Alloys	Aluminum	Aluminum Alloy Casting	Titanium	Titanium Alloys	Inconel®	Magnesium Alloy	Metal Matrix Composites
C ~ 0.25%	C0.25 ~ 0.45%	C0.45% ~	SCM	~ 35 HRC	35 ~ 45 HRC	45 ~ 50 HRC	50 ~ 62 HRC	62 ~ 70 HRC	SUS	SKD SKS	FC	FCD	Cu	AL	AC	TI			AZ91D	
○	○	○	○							○	◎	○	○	◎	◎				◎	

Carbide Drill with internal coolant hole
mainly for non-ferrous metal

NEW

HY-PRO CARBIDE DRILL
5D HIGH PERFORMANCE TYPE WITH INTERNAL COOLANT

HYP-ALD-HO-GDN-5D

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
111509520	9.52	61	103	10	107.13
111509600	9.6	61	103	10	107.13
111509700	9.7	61	103	10	107.13
111509800	9.8	61	103	10	107.13
111509900	9.9	61	103	10	107.13
111509920	9.92	61	103	10	107.13
111510000	10	61	103	10	110.38
111510100	10.1	71	118	12	135.4
111510200	10.2	71	118	12	135.4
111510300	10.3	71	118	12	135.4
111510320	10.32 (13/32)	71	118	12	135.4
111510400	10.4	71	118	12	135.4
111510500	10.5	71	118	12	135.4
111510600	10.6	71	118	12	135.4
111510700	10.7	71	118	12	135.4
111510720	10.72 (27/64)	71	118	12	135.4
111510800	10.8	71	118	12	135.4
111510900	10.9	71	118	12	135.4
111511000	11	71	118	12	135.4

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
111511100	11.1	71	118	12	135.4
111511110	11.11 (7/16)	71	118	12	135.4
111511200	11.2	71	118	12	135.4
111511300	11.3	71	118	12	135.4
111511400	11.4	71	118	12	135.4
111511500	11.5	71	118	12	135.4
111511501	11.51 (29/64)	71	118	12	135.4
111511600	11.6	71	118	12	135.4
111511700	11.7	71	118	12	135.4
111511800	11.8	71	118	12	135.4
111511900	11.9	71	118	12	135.4
111511910	11.91 (15/32)	71	118	12	135.4
111512000	12	71	118	12	135.4
111512100	12.1	77	124	14	157.39
111512200	12.2	77	124	14	157.39
111512300	12.30 (31/64)	77	124	14	157.39
111512500	12.5	77	124	14	166.6
111512700	12.70 (1/2)	77	124	14	166.6

CARBIDE END MILLS

Page	Abbreviation	Specification	Surface Treatment	Flute	Stocked Size
62	TA-SMG-EDS	Square	WXL	2	1~20
	TA-SMG-EHS	Square	WXL	3	3~12
63	TA-SMG-EMS	Square	WXL	4	1~20
	TA-CMG-VMS	Unequal Helix Square	WXL	4	1~25
64	TA-CMG-EMXL	Square	WXL	4	3~25
	TA-CMG-RESF	Square	WXL	4	3~25
65	SMG-EDS	Square	-	2	1~20
	SCA-ETS	Square	-	3	3~12
66	SMG-EMS	Square	-	4	1~20
67	TA-SMG-EBD	Ball Nose	WXL	2	1~20
	TA-CMG-EBD-S	Ball Nose	WXS	2	1~21
68	TA-CMG-EBDL-S	Ball Nose	WXS	2	1~12
	TA-CMG-EBM-S	Ball Nose	WXS	4	3~12
	SMG-EBD	Ball Nose	-	2	1~20
69	VG3SS	Square NEW	WXL	3	3~20
	VG3S	Square NEW	WXL	3	3~20
	VG5S	Square NEW	WXL	5	3~20
	VG7S	Square NEW	WXL	7	3~20
70	SP-CR-EDS	Corner Radius	RADIA	2	1~20
71	SP-CR-EMS	Corner Radius	RADIA	4	1~20
72-75	SP-LN-CR-EDS	Long neck Corner Radius	RADIA	2	0.4~20
76	SP-LN-CR-EMS	Long neck Corner Radius	RADIA	4	1~20
77	AL+MG-ET	Square	-	3	1~20
78	AL+MG-ED	Square	-	2	1~20
	AL+MG-REE	Roughing	-	3	6~20
79	DUR-PCBT-H	Long neck Ball Nose	DUROREY	3	2~4

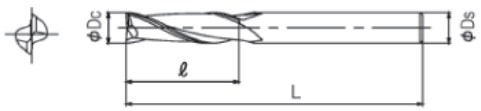
CARBIDE END MILLS CONTENTS

HY-PRO CARBIDE END MILL
2 FLUTE SHORT WITH COATING

TA-SMG-EDS

For Steel and Cast Iron.





CARBIDE WXL SHRINK FIT

Unit:mm

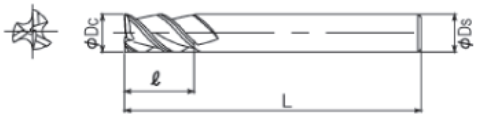
EDP NO.	Ds	L	ℓ	Ds	List Price (USD)
S620010	1.0	40	2.5	4	15.55
S620015	1.5	40	4	4	14.69
S620020	2.0	40	6	4	14.69
S620025	2.5	40	8	4	14.69
S620030	3.0	45	8	6	14.69
S620035	3.5	45	10	6	18.29
S620040	4.0	45	11	6	18.29
S620045	4.5	45	11	6	19.85
S620050	5.0	50	13	6	19.85
S620060	6.0	50	13	6	24.75
S620070	7.0	60	16	8	38
S620080	8.0	60	19	8	40.87
S620090	9.0	70	19	10	58.11
S620100	10.0	70	22	10	58.11
S620110	11.0	75	22	12	67.23
S620120	12.0	75	26	12	78.11
S620140	14.0	85	26	16	142.43
S620160	16.0	100	32	16	144.27
S620180	18.0	100	32	18	191.16
S620200	20.0	105	38	20	238.95

HY-PRO CARBIDE END MILL
3 FLUTE HIGH HELIX SHORT WITH COATING

TA-SMG-EHS

For Steel and Cast Iron.





CARBIDE WXL SHRINK FIT

Unit:mm

EDP NO.	Ds	L	ℓ	Ds	List Price (USD)
S650030	3.0	50	8	6	23.5
S650040	4.0	50	11	6	23.5
S650050	5.0	50	13	6	25.04
S650060	6.0	50	13	6	26.96
S650080	8.0	60	19	8	50.46
S650100	10.0	70	22	10	65.87
S650120	12.0	75	26	12	83.97

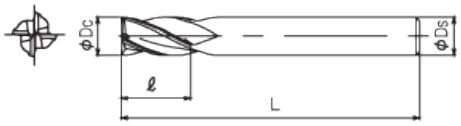
WORK MATERIAL / Abbreviation	CARBON STEELS, PREHARDENED STEELS, ALLOY STEELS, TOOL STEELS ~ 40HRC	PREHARDENED STEELS, HARDENED STEELS ~ 45HRC	~ 55HRC	~ 60HRC	~ 65HRC	STAINLESS STEELS ~ 35HRC	CAST IRON, DUCTILE CAST IRON ~ 350HB	COPPER ALLOYS	ALUMINUM ALLOYS	GRAPHITE	TITANIUM ALLOYS	HEAT RESISTANT ALLOYS	PLASTIC
TA-SMG-EDS	◎	◎	◎	○		○	◎	○	○		○	○	
TA-SMG-EHS	◎	◎	◎	○		○	◎	○	○		○	○	

HY-PRO CARBIDE END MILL 4 FLUTE SHORT WITH COATING

TA-SMG-EMS

For high speed milling in steels and cast iron.





CARBIDE WXL SHRINK FIT

Unit:mm

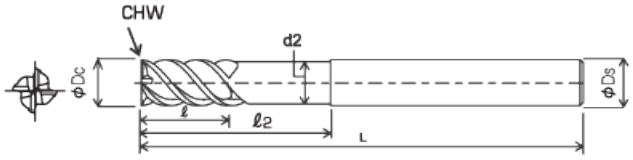
EDP NO.	Dc	L	ℓ	Ds	List Price (USD)
S640010	1.0	40	2.5	4	15.55
S640015	1.5	40	4	4	14.69
S640020	2.0	40	6	4	14.69
S640025	2.5	40	8	4	14.69
S640030	3.0	45	8	6	14.69
S640035	3.5	45	10	6	18.29
S640040	4.0	45	11	6	18.29
S640045	4.5	45	11	6	19.85
S640050	5.0	50	13	6	19.85
S640060	6.0	50	13	6	24.75
S640070	7.0	60	16	8	38
S640080	8.0	60	19	8	40.87
S640090	9.0	70	19	10	58.11
S640100	10.0	70	22	10	58.11
S640110	11.0	75	22	12	67.23
S640120	12.0	75	26	12	78.11
S640140	14.0	85	26	16	142.43
S640160	16.0	100	32	16	144.27
S640180	18.0	100	32	18	191.16
S640200	20.0	105	38	20	238.95

HYPRO CARBIDE ENDMILL 4 FLUTE UNEQUAL HELIX WITH COATING

TA-CMG-VMS

For high speed milling in steels and cast iron.





CARBIDE WXL SHRINK FIT

Unit:mm

EDP NO.	Dc x CHW	L	ℓ	D2	ℓ2	Ds	List Price (USD)
452039411	1 x C0.1	57	2.5	0.9	4	6	34.42
452078711	2 x C0.1	57	6	1.8	8	6	33.95
452118111	3 x C0.1	57	8	2.8	15	6	32.64
452157511	4 x C0.1	57	11	3.7	21	6	30.14
452196911	5 x C0.1	57	13	4.7	21	6	32.28
452236211	6 x C0.02	57	13	5.7	21	6	33.31
452315011	8 x C0.02	63	19	7.7	27	8	48.82
452393711	10 x C0.3	72	22	9.5	32	10	68.48
452472411	12 x C0.3	83	26	11.5	38	12	96.33
452551211	14 x C0.3	83	26	13.5	42	14	124.98
452629911	16 x C0.4	90	32	15.5	44	16	170.53
452787411	20 x C0.5	104	38	19.5	54	20	281.55
452984311	25 x C0.5	121	50	24.5	60	25	478.9

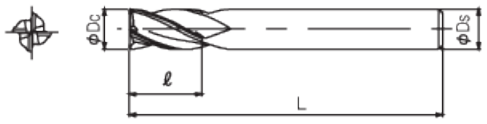
WORK MATERIAL / Abbreviation	CARBON STEELS PREHARDENED STEELS ALLOY STEELS TOOL STEELS	PREHARDENED STEELS HARDENED STEELS				STAINLESS STEELS	CAST IRON DUCTILE CAST IRON	COPPER ALLOYS	ALUMINUM ALLOYS	GRAPHITE	TITANIUM ALLOYS	HEAT RESISTANT ALLOYS	PLASTIC
	~ 40HRC	~ 45HRC	~ 55HRC	~ 60HRC	~ 65HRC	~ 35HRC	~ 350HB						
TA-SMG-EMS	◎	◎	◎	○		○	◎	○	○		○	○	
TA-CMG-VMS	◎	○				○	◎	○	○		○	○	

HYPRO CARBIDE ENDMILL
4 FLUTE EXTRA LONG WITH COATING

TA-CMG-EMXL

For high speed milling in steels and cast iron.





CARBIDE WXL SHRINK FIT

Unit:mm

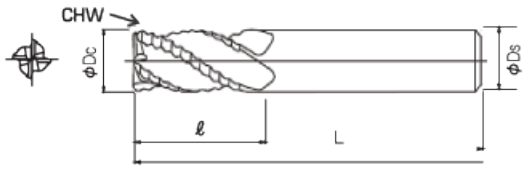
EDP NO.	Dc	L	ℓ	Ds	List Price (USD)
484118111	3	76	25	3	25.39
484157511	4	76	28	4	30.17
484196811	5	76	32	5	32.6
484236211	6	102	38	6	39.91
484315011	8	102	42	8	64.95
484393711	10	102	45	10	85.42
484472411	12	153	76	12	153.79
484551211	14	153	76	14	212.75
484629911	16	153	76	16	252.06
484708711	18	153	76	18	340.33
484787411	20	153	76	20	387.02
484984311	25	153	76	25	576.94

HYPRO CARBIDE ENDMILL
4 FLUTE ROUGHING WITH COATING

TA-CMG-RESF

For roughing in stainless steels and titanium alloys.





CARBIDE WXL SHRINK FIT

Unit:mm

EDP NO.	Dc	L	ℓ	Ds	List Price (USD)
483118111	3 x C0.1	64	10	6	28.68
483157511	4 x C0.1	64	14	6	29.67
483196811	5 x C0.1	64	15	6	29.67
483236211	6 x C0.2	64	19	6	29.67
483315011	8 x C0.2	64	21	8	43.73
483393711	10 x C0.3	70	22	10	60.42
483472411	12 x C0.3	76	25	12	83.03
483629911	16 x C0.4	89	32	16	143.59
483787411	20 x C0.5	102	38	20	226.98
483984311	25 x C0.5	102	38	25	381.53

WORK MATERIAL / Abbreviation	CARBON STEELS, PREHARDENED STEELS, ALLOY STEELS, TOOL STEELS ~ 40HRC	PREHARDENED STEELS, HARDENED STEELS ~ 45HRC	~ 55HRC	~ 60HRC	~ 65HRC	STAINLESS STEELS ~ 35HRC	CAST IRON, DUCTILE CAST IRON ~ 350HB	COPPER ALLOYS	ALUMINUM ALLOYS	GRAPHITE	TITANIUM ALLOYS	HEAT RESISTANT ALLOYS	PLASTIC
TA-CMG-EXML	◎	◎	◎	○		○	◎	○	○		○	○	
TA-CMG-RESF	○	◎				◎	○	○	○		◎	○	

HY-PRO CARBIDE END MILL
2 FLUTE SHORT

SMG-EDS

For copper and aluminum alloys.





CARBIDE SHRINK FIT

Unit:mm

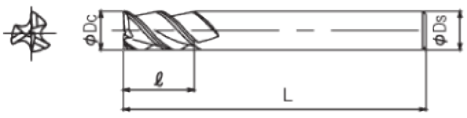
EDP NO.	Dc	L	ℓ	Ds	List Price (USD)
S520010	1.0	40	2.5	4	11.93
S520015	1.5	40	4	4	11.06
S520020	2.0	40	6	4	11.06
S520025	2.5	40	8	4	11.06
S520030	3.0	45	8	6	11.06
S520035	3.5	45	10	6	14.69
S520040	4.0	45	11	6	14.69
S520045	4.5	45	11	6	16.27
S520050	5.0	50	13	6	16.27
S520060	6.0	50	13	6	21.22
S520070	7.0	60	16	8	30.78
S520080	8.0	60	19	8	33.68
S520090	9.0	70	19	10	46.2
S520100	10.0	70	22	10	46.2
S520110	11.0	75	22	12	52.77
S520120	12.0	75	26	12	63.74
S520140	14.0	85	26	16	115.04
S520160	16.0	100	32	16	121.3
S520180	18.0	100	32	18	154.4
S520200	20.0	105	38	20	206.84

HY-PRO CARBIDE END MILL
3 FLUTE SHORT

SCA-ETS

For copper and aluminum alloys.





CARBIDE 0 −0.02 SHRINK FIT 40°

Unit:mm

EDP NO.	Dc	L	ℓ	Ds	List Price (USD)
S530030	3.0	50	8	6	20.69
S530040	4.0	50	11	6	13.73
S530050	5.0	50	13	6	15.2
S530060	6.0	50	13	6	19.83
S530080	8.0	60	19	8	31.48
S530100	10.0	70	22	10	43.17
S530120	12.0	75	26	12	59.57

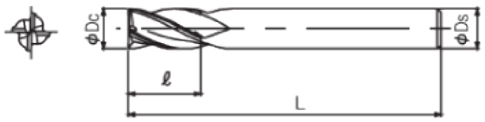
WORK MATERIAL / Abbreviation	CARBON STEELS, PREHARDENED STEELS, ALLOY STEELS, TOOL STEELS ~ 40HRC	PREHARDENED STEELS, HARDENED STEELS ~ 45HRC	~ 55HRC	~ 60HRC	~ 65HRC	STAINLESS STEELS ~ 35HRC	CAST IRON, DUCTILE CAST IRON ~ 350HB	COPPER ALLOYS	ALUMINUM ALLOYS	GRAPHITE	TITANIUM ALLOYS	HEAT RESISTANT ALLOYS	PLASTIC
SMG-EDS	○						○	◎	◎				○
SCA-ETS	○						○	◎	◎				○

HY-PRO CARBIDE END MILL
4 FLUTE SHORT

SMG-EMS

For copper and aluminum alloys.





CARBIDE SHRINK FIT

Unit:mm

EDP NO.	Dc	L	ℓ	Ds	List Price (USD)
S540010	1.0	40	2.5	4	11.93
S540015	1.5	40	4	4	11.06
S540020	2.0	40	6	4	11.06
S540025	2.5	40	8	4	11.06
S540030	3.0	45	8	6	11.06
S540035	3.5	45	10	6	14.69
S540040	4.0	45	11	6	14.69
S540045	4.5	45	11	6	16.27
S540050	5.0	50	13	6	16.27
S540060	6.0	50	13	6	21.22
S540070	7.0	60	16	8	30.78
S540080	8.0	60	19	8	33.68
S540090	9.0	70	19	10	46.2
S540100	10.0	70	22	10	46.2
S540110	11.0	75	22	12	52.77
S540120	12.0	75	26	12	63.74
S540140	14.0	85	26	16	115.04
S540160	16.0	100	32	16	121.3
S540180	18.0	100	32	18	154.4
S540200	20.0	105	38	20	206.84

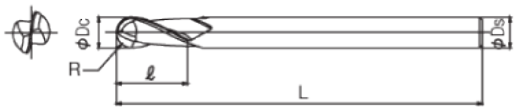
WORK MATERIAL / Abbreviation	CARBON STEELS, PREHARDENED STEELS, ALLOY STEELS, TOOL STEELS ~ 40HRC	PREHARDENED STEELS, HARDENED STEELS ~ 45HRC	~ 55HRC	~ 60HRC	~ 65HRC	STAINLESS STEELS ~ 35HRC	CAST IRON, DUCTILE CAST IRON ~ 350HB	COPPER ALLOYS	ALUMINUM ALLOYS	GRAPHITE	TITANIUM ALLOYS	HEAT RESISTANT ALLOYS	PLASTIC
SMG-EMS	○						○	◎	◎				○

HY-PRO CARBIDE END MILL
2 FLUTE BALL NOSE WITH COATING

TA-SMG-EBD

For steels and cast iron.





CARBIDE WXL SHRINK FIT

Unit:mm

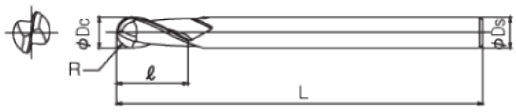
EDP NO.	Dc	L	ℓ	Ds	List Price (USD)
S610010	1.0	50	2.5	4	17.33
S610015	1.5	50	4	4	16.31
S610020	2.0	50	5	6	16.31
S610025	2.5	60	6	6	16.31
S610030	3.0	60	8	6	16.31
S610035	3.5	70	8	6	20.48
S610040	4.0	70	8	6	20.48
S610045	4.5	80	10	6	22.28
S610050	5.0	80	10	6	22.28
S610060	6.0	90	12	6	27.89
S610070	7.0	90	14	6	42.53
S610080	8.0	100	14	8	45.85
S610090	9.0	100	18	8	60.13
S610100	10.0	100	18	10	60.13
S610110	11.0	100	22	10	75.06
S610120	12.0	110	22	12	87.58
S610140	14.0	110	26	12	179.92
S610160	16.0	140	30	16	217.39
S610180	18.0	140	34	20	329.84
S610200	20.0	160	38	20	367.32

HYPRO CARBIDE ENDMILL
2 FLUTE BALL NOSE WITH COATING

TA-CMG-EBD-S

For hardened steels.





CARBIDE WXS SHRINK FIT

Unit:mm

EDP NO.	Dc	L	ℓ	Ds	List Price (USD)
451201017	1	39	1.5	3	19.44
451202017	2	39	3	3	19.44
451203017	3	39	4.5	3	19.44
451204017	4	51	6	4	25.57
451205017	5	51	7.5	5	29.61
451206017	6	64	9	6	34.96
451208017	8	64	12	8	55.18
451210017	10	70	15	10	72.26
451212017	12	76	18	12	96.37
451216017	16	89	24	16	154.01
451220017	20	102	30	20	258.05

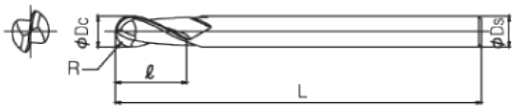
WORK MATERIAL / Abbreviation	CARBON STEELS, PREHARDENED STEELS, ALLOY STEELS, TOOL STEELS ~ 40HRC	PREHARDENED STEELS, HARDENED STEELS ~ 45HRC	~ 55HRC	~ 60HRC	~ 65HRC	STAINLESS STEELS ~ 35HRC	CAST IRON, DUCTILE CAST IRON ~ 350HB	COPPER ALLOYS	ALUMINUM ALLOYS	GRAPHITE	TITANIUM ALLOYS	HEAT RESISTANT ALLOYS	PLASTIC
TA-SMG-EBD	◎	○				○	◎	○	○		○	○	
TA-CMG-EBD-S	○	○	◎	◎	◎	○	○	○			○	○	

HYPRO CARBIDE ENDMILL
2 FLUTE LONG BALLNOSE WITH COATING

TA-CMG-EBDL-S

For hardened steels.





CARBIDE WXS SHRINK FIT

Unit:mm

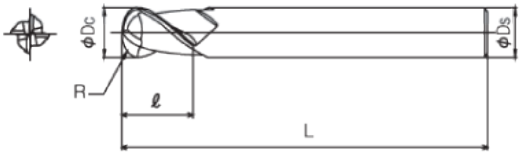
EDP NO.	Dc	L	ℓ	Ds	List Price (USD)
452201017	1	75	2.5	3	23.68
452202017	2	75	4	3	23.68
452203017	3	75	4.5	3	44.59
452204017	4	75	6	4	52.61
452205017	5	75	7.5	5	56.74
452206017	6	100	9	6	67.23
452208017	8	100	12	8	92.8
452210017	10	100	15	10	100.51
452212017	12	150	18	12	191.39

HYPRO CARBIDE ENDMILL
4 FLUTE BALL NOSE WITH COATING

TA-CMG-EBM-S

For hardened steels.





CARBIDE WXS SHRINK FIT

Unit:mm

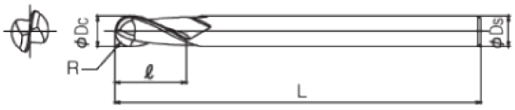
EDP NO.	Dc	L	ℓ	Ds	List Price (USD)
451403017	3	39	4.5	3	19.44
451404017	4	51	6	4	25.57
451406017	6	64	9	6	34.96
451408017	8	64	12	8	55.18
451410017	10	70	15	10	72.26
451412017	12	76	18	12	96.37

HY-PRO CARBIDE END MILL
2 FLUTE BALL NOSE

SMG-EBD

For copper and aluminium alloys.





CARBIDE SHRINK FIT

Unit:mm

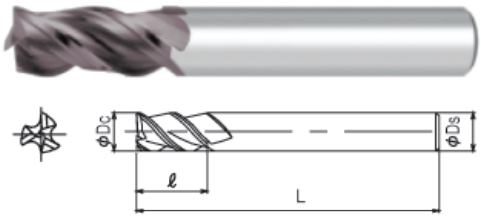
EDP NO.	Dc	L	ℓ	Ds	List Price (USD)
S510010	1.0	50	2.5	4	13.74
S510015	1.5	50	4	4	12.7
S510020	2.0	50	5	6	12.7
S510025	2.5	60	6	6	12.7
S510030	3.0	60	8	6	12.7
S510035	3.5	70	8	6	16.91
S510040	4.0	70	8	6	16.91
S510045	4.5	80	10	6	18.73
S510050	5.0	80	10	6	18.73
S510060	6.0	90	12	6	24.4
S510070	7.0	90	14	6	35.36
S510080	8.0	100	14	8	38.72
S510090	9.0	100	18	8	53.14
S510100	10.0	100	18	10	53.14
S510110	11.0	100	22	10	60.66
S510120	12.0	110	22	12	73.32
S510140	14.0	110	26	12	145.32
S510160	16.0	140	30	16	175.6
S510180	18.0	140	34	20	266.41
S510200	20.0	160	38	20	296.69

WORK MATERIAL / Abbreviation	CARBON STEELS, PREHARDENED STEELS, ALLOY STEELS, TOOL STEELS ~ 40HRC	PREHARDENED STEELS, HARDENED STEELS ~ 45HRC	~ 55HRC	~ 60HRC	~ 65HRC	STAINLESS STEELS ~ 35HRC	CAST IRON, DUCTILE CAST IRON ~ 350HB	COPPER ALLOYS	ALUMINUM ALLOYS	GRAPHITE	TITANIUM ALLOYS	HEAT RESISTANT ALLOYS	PLASTIC
TA-CMG-EBDL-S	○	○	◎	◎	◎	○	○	○			○	○	
TA-CMG-EBM-S	○	○	◎	◎	◎	○	○	○			○	○	
SMG-EBD	○						○	◎	◎				○

NEW HY-PRO CARBIDE ENDMILL 3 FLUTE WITH COATING

HY-PRO

VG3SS



CARBIDE WXL SHRINK FIT 45°

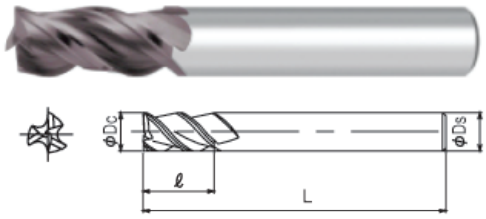
Unit:mm

EDP NO.	Dc	L	ℓ	Ds	List Price (USD)
403S118111	3	38	5	3	16.57
403S157511	4	38	6	4	21.97
403S236211	6	38	8	6	28.10
403S315011	8	48	10	8	45.37
403S393711	10	48	12	10	58.33
403S472411	12	50	14	12	72.00
403S629911	16	55	18	16	138.43
403S787411	20	60	22	20	251.40

NEW HY-PRO CARBIDE ENDMILL 3 FLUTE WITH COATING

HY-PRO

VG3S



CARBIDE WXL SHRINK FIT 45°

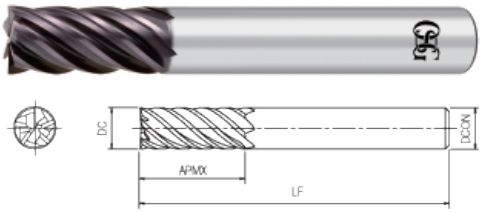
Unit:mm

EDP NO.	Dc	L	ℓ	Ds	List Price (USD)
403118111	3	39	10	3	16.57
403157511	4	51	14	4	21.97
403236211	6	64	19	6	28.10
403315011	8	64	21	8	45.37
403393711	10	70	25	10	58.33
403472411	12	76	25	12	72.00
403629911	16	89	32	16	138.43
403787411	20	102	38	20	251.40

NEW HY-PRO CARBIDE ENDMILL 5 FLUTE WITH COATING

HY-PRO

VG5S



CARBIDE WXL SHRINK FIT 45°

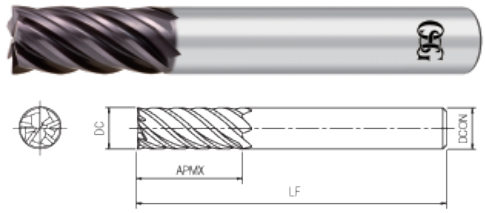
Unit:mm

EDP NO.	Dc	L	ℓ	Ds	List Price (USD)
405118111	3	39	10	3	18.23
405157511	4	51	14	4	24.17
405236211	6	64	19	6	30.90
405315011	8	64	21	8	49.90
405393711	10	70	25	10	64.17
405472411	12	76	25	12	79.20
405629911	16	89	32	16	152.27
405787411	20	102	38	20	276.53

NEW HY-PRO CARBIDE ENDMILL 7 FLUTE WITH COATING

HY-PRO

VG7S



CARBIDE WXL SHRINK FIT 45°

Unit:mm

EDP NO.	Dc	L	ℓ	Ds	List Price (USD)
407118111	3	39	10	3	20.70
407157511	4	51	14	4	27.47
407236211	6	64	19	6	35.13
407315011	8	64	21	8	56.70
407393711	10	70	25	10	72.93
407472411	12	76	25	12	90.00
407629911	16	89	32	16	173.03
407787411	20	102	38	20	314.27

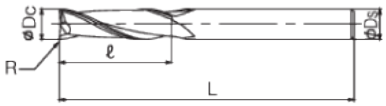
WORK MATERIAL / Abbreviation	CARBON STEELS / ALLOY STEELS / DIE STEEL	HARDENED STEELS				STAINLESS STEELS	CAST IRON / DUCTILE CAST IRON	COPPER ALLOYS	ALUMINUM ALLOYS / ALUMINIUM	GRAPHITE	TITANIUM	NICKEL ALLOY
	~ 35HRC	~ 45HRC	~ 55HRC	~ 60HRC	~ 65HRC	~ 35HRC	~ 350HB					
VG3SS									◎			
VG3S									◎			
VG5S	◎	○				◎	◎				◎	◎
VG7S	◎	○				◎	◎				◎	◎

KOSG STEEL-PRO 2 FLUTE WITH CORNER RADIUS

For steel and cast iron.

SP-CR-EDS





CARBIDE | RADIA | Dc ≤ 12 0 −0.02 | Dc > 12 0 −0.03 | SHRINK FIT | 30°

Unit:mm

EDP NO.	Dc	L	R	ℓ	Ds	List Price (USD)
SP2CX1XR0P05	1	50	0.05	2.5	6	25.50
SP2CX1XR0P1	1	50	0.1	2.5	6	25.50
SP2CX1XR0P3	1	50	0.3	2.5	6	25.50
SP2CX1XR0P2	1	50	0.2	2.5	6	25.50
SP2CX1P5XRP05	1.5	50	0.05	4	6	25.50
SP2CX1P5XR0P1	1.5	50	0.1	4	6	25.50
SP2CX1P5XR0P2	1.5	50	0.2	4	6	25.50
SP2CX1P5XR0P3	1.5	50	0.3	4	6	25.50
SP2CX1P5XR0P5	1.5	50	0.5	4	6	25.50
SP2CX2XR0P1	2	50	0.1	6	6	25.50
SP2CX2XR0P2	2	50	0.2	6	6	25.50
SP2CX2XR0P3	2	50	0.3	6	6	25.50
SP2CX2XR0P5	2	50	0.5	6	6	25.50
SP2CX2P5XR0P1	2.5	60	0.1	7	6	26.50
SP2CX2P5XR0P2	2.5	60	0.2	7	6	26.50
SP2CX2P5XR0P3	2.5	60	0.3	7	6	26.50
SP2CX2P5XR0P5	2.5	60	0.5	7	6	26.50
SP2CX3XR0P1	3	60	0.1	8	6	26.50
SP2CX3XR0P2	3	60	0.2	8	6	26.50
SP2CX3XR0P3	3	60	0.3	8	6	26.50
SP2CX3XR0P5	3	60	0.5	8	6	26.50
SP2CX3XR1	3	60	1	8	6	26.50
SP2CX3P5XR0P5	3.5	70	0.5	10	6	27.50
SP2CX4XR0P1	4	70	0.1	10	6	27.50
SP2CX4XR0P2	4	70	0.2	10	6	27.50
SP2CX4XR0P3	4	70	0.3	10	6	27.50
SP2CX4XR0P5	4	70	0.5	10	6	27.50
SP2CX4XR1	4	70	1	10	6	27.50
SP2CX5XR0P1	5	90	0.1	13	6	29.87
SP2CX5XR0P2	5	90	0.2	13	6	29.87
SP2CX5XR0P3	5	90	0.3	13	6	29.87
SP2CX5XR0P5	5	90	0.5	13	6	29.87
SP2CX5XR1	5	90	1	13	6	29.87
SP2CX6XR0P1	6	90	0.1	15	6	29.87
SP2CX6XR0P2	6	90	0.2	15	6	29.87
SP2CX6XR0P3S	6	60	0.3	15	6	26.50
SP2CX6XR0P3	6	90	0.3	15	6	29.87
SP2CX6XR0P5S	6	60	0.5	15	6	26.50
SP2CX6XR0P5	6	90	0.5	15	6	29.87
SP2CX6XR0P5L	6	110	0.5	15	6	35.60
SP2CX6XR1S	6	60	1	15	6	26.50
SP2CX6XR1	6	90	1	15	6	29.87
SP2CX6XR1L	6	110	1	15	6	35.60
SP2CX6XR1P5	6	90	1.5	15	6	29.87
SP2CX6XR2	6	90	2	15	6	29.87
SP2CX7XR0P2	7	90	0.2	16	8	42.90
SP2CX8XR0P1	8	100	0.1	20	8	45.17
SP2CX8XR0P2	8	100	0.2	20	8	45.17

Unit:mm

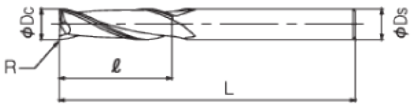
EDP NO.	Dc	L	R	ℓ	Ds	List Price (USD)
SP2CX8XR0P3S	8	70	0.3	20	8	42.00
SP2CX8XR0P3	8	100	0.3	20	8	45.17
SP2CX8XR0P5S	8	70	0.5	20	8	42.00
SP2CX8XR0P5	8	100	0.5	20	8	45.17
SP2CX8XR0P5L	8	120	0.5	20	8	56.87
SP2CX8XR1S	8	70	1	20	8	42.00
SP2CX8XR1	8	100	1	20	8	45.17
SP2CX8XR1L	8	120	1	20	8	56.87
SP2CX8XR1P5	8	100	1.5	20	8	45.17
SP2CX8XR2	8	100	2	20	8	45.17
SP2CX8XR2P5	8	100	2.5	20	8	45.17
SP2CX8XR3	8	100	3	20	8	45.17
SP2CX10XR0P1	10	100	0.1	25	10	61.70
SP2CX10XR0P2	10	100	0.2	25	10	61.70
SP2CX10XR0P3	10	100	0.3	25	10	61.70
SP2CX10XR0P5S	10	75	0.5	25	10	55.53
SP2CX10XR0P5	10	100	0.5	25	10	61.70
SP2CX10XR0P5L	10	130	0.5	25	10	73.43
SP2CX10XR1	10	100	1	25	10	61.70
SP2CX10XR1L	10	130	1	25	10	73.43
SP2CX10XR1P5	10	100	1.5	25	10	61.70
SP2CX10XR2	10	100	2	25	10	61.70
SP2CX10XR2P5	10	100	2.5	25	10	61.70
SP2CX10XR3	10	100	3	25	10	61.70
SP2CX10XR4	10	100	4	25	10	61.70
SP2CX12XR0P1	12	110	0.1	30	12	80.10
SP2CX12XR0P2	12	110	0.2	30	12	80.10
SP2CX12XR0P3	12	110	0.3	30	12	80.10
SP2CX12XR0P5	12	110	0.5	30	12	80.10
SP2CX12XR0P5L	12	130	0.5	30	12	91.83
SP2CX12XR1	12	110	1	30	12	80.10
SP2CX12XR1L	12	130	1	30	12	91.83
SP2CX12XR1P5	12	110	1.5	30	12	80.10
SP2CX12XR2	12	110	2	30	12	80.10
SP2CX12XR2P5	12	110	2.5	30	12	80.10
SP2CX12XR3	12	110	3	30	12	80.10
SP2CX12XR4	12	110	4	30	12	80.10
SP2CX12XR5	12	110	5	30	12	80.10
SP2CX14XR1	14	150	1	32	16	204.43
SP2CX16XR0P5	16	150	0.5	32	16	204.43
SP2CX16XR1	16	150	1	32	16	204.43
SP2CX16XR2	16	150	2	32	16	204.43
SP2CX16XR3	16	150	3	32	16	204.43
SP2CX20XR0P5	20	150	0.5	38	20	262.53
SP2CX20XR1	20	150	1	38	20	262.53
SP2CX20XR2	20	150	2	38	20	262.53
SP2CX20XR3	20	150	3	38	20	262.53

WORK MATERIAL / Abbreviation	CARBON STEEL, ALLOY STEEL, PREHARDENED STEEL, TOOL STEEL ~ 40HRC	~ 60HRC	~ 65HRC	STAINLESS STEELS ~ 35HRC	CAST IRON DUCTILE CAST IRON ~ 350HRB	COPPER ALLOYS	ALUMINUM ALLOYS	HEAT RESISTANT ALLOYS	PLASTIC
SP-CR-EDS	◎	○		○	◎	○	○	○	

For steel and cast iron.

KOSG STEEL-PRO 4 FLUTE WITH CORNER RADIUS

SP-CR-EMS





CARBIDE | RADIA | Dc ≤ 12 0 −0.02 | Dc > 12 0 −0.03 | SHRINK FIT | 30°

Unit:mm

EDP NO.	Dc	L	R	ℓ	Ds	List Price (USD)
SP4CX1XR0P05	1	50	R0.05	2.5	6	28.13
SP4CX1XR0P1	1	50	R0.1	2.5	6	28.13
SP4CX1XR0P2	1	50	R0.3	2.5	6	28.13
SP4CX1XR0P3	1	50	R02	2.5	6	28.13
SP4CX1P5XRP05	1.5	50	R0.05	4	6	28.13
SP4CX1P5XR0P1	1.5	50	R0.1	4	6	28.13
SP4CX1P5XR0P2	1.5	50	R0.2	4	6	28.13
SP4CX1P5XR0P3	1.5	50	R0.3	4	6	28.13
SP4CX1P5XR0P5	1.5	50	R0.5	4	6	28.13
SP4CX2XR0P1	2	50	R0.1	6	6	28.13
SP4CX2XR0P2	2	50	R0.2	6	6	28.13
SP4CX2XR0P3	2	50	R0.3	6	6	28.13
SP4CX2XR0P5	2	50	R0.5	6	6	28.13
SP4CX2P5XR0P1	2.5	60	R0.1	7	6	29.13
SP4CX2P5XR0P2	2.5	60	R0.2	7	6	29.13
SP4CX2P5XR0P3	2.5	60	R0.3	7	6	29.13
SP4CX2P5XR0P5	2.5	60	R0.5	7	6	29.13
SP4CX3XR0P1	3	60	R0.1	8	6	29.13
SP4CX3XR0P2	3	60	R0.2	8	6	29.13
SP4CX3XR0P3	3	60	R0.3	8	6	29.13
SP4CX3XR0P5	3	60	R0.5	8	6	29.13
SP4CX3XR1	3	60	R1	8	6	29.13
SP4CX3P5XR0P5	3.5	70	R0.5	10	6	30.23
SP4CX4XR0P1	4	70	R0.1	10	6	30.23
SP4CX4XR0P2	4	70	R0.2	10	6	30.23
SP4CX4XR0P3	4	70	R0.3	10	6	30.23
SP4CX4XR0P5	4	70	R0.5	10	6	30.23
SP4CX4XR1	4	70	R1	10	6	30.23
SP4CX5XR0P1	5	90	R0.1	13	6	32.87
SP4CX5XR0P2	5	90	R0.2	13	6	32.87
SP4CX5XR0P3	5	90	R0.3	13	6	32.87
SP4CX5XR0P5	5	90	R0.5	13	6	32.87
SP4CX5XR1	5	90	R1	13	6	32.87
SP4CX6XR0P1	6	90	R0.1	15	6	32.87
SP4CX6XR0P2	6	90	R0.2	15	6	32.87
SP4CX6XR0P3S	6	60	R0.3	15	6	29.13
SP4CX6XR0P3	6	90	R0.3	15	6	32.87
SP4CX6XR0P5S	6	60	R0.5	15	6	29.13
SP4CX6XR0P5	6	90	R0.5	15	6	32.87
SP4CX6XR0P5L	6	110	R0.5	15	6	39.20
SP4CX6XR1S	6	60	R1	15	6	29.13
SP4CX6XR1	6	90	R1	15	6	32.87
SP4CX6XR1L	6	110	R1	15	6	39.20
SP4CX6XR1P5	6	90	R1.5	15	6	32.87
SP4CX6XR2	6	90	R2	15	6	32.87
SP4CX7XR0P2	7	90	R0.2	16	8	50.10
SP4CX8XR0P1	8	100	R0.1	20	8	52.73

Unit:mm

EDP NO.	Dc	L	R	ℓ	Ds	List Price (USD)
SP4CX8XR0P2	8	100	R0.2	20	8	52.73
SP4CX8XR0P3S	8	70	R0.3	20	8	46.80
SP4CX8XR0P3	8	100	R0.3	20	8	52.73
SP4CX8XR0P5S	8	70	R0.5	20	8	46.80
SP4CX8XR0P5	8	100	R0.5	20	8	52.73
SP4CX8XR0P5L	8	120	R0.5	20	8	62.57
SP4CX8XR1S	8	70	R1	20	8	46.80
SP4CX8XR1	8	100	R1	20	8	52.73
SP4CX8XR1L	8	120	R1	20	8	62.57
SP4CX8X1P5	8	100	R1.5	20	8	52.73
SP4CX8XR2	8	100	R2	20	8	52.73
SP4CX8XR2P5	8	100	R2.5	20	8	52.73
SP4CX8XR3	8	100	R3	20	8	52.73
SP4CX10XR0P1	10	100	R0.1	25	10	67.93
SP4CX10XR0P2	10	100	R0.2	25	10	67.93
SP4CX10XR0P3	10	100	R0.3	25	10	67.93
SP4CX10XR0P5S	10	75	R0.5	25	10	61.13
SP4CX10XR0P5	10	100	R0.5	25	10	67.93
SP4CX10XR0P5L	10	130	R0.5	25	10	80.73
SP4CX10XR1	10	100	R1	25	10	67.93
SP4CX10XR1L	10	130	R1	25	10	80.73
SP4CX10XR1P5	10	100	R1.5	25	10	67.93
SP4CX10XR2	10	100	R2	25	10	67.93
SP4CX10XR2P5	10	100	R2.5	25	10	67.93
SP4CX10XR3	10	100	R3	25	10	67.93
SP4CX10XR4	10	100	R4	25	10	67.93
SP4CX12XR0P1	12	110	R0.1	30	12	93.43
SP4CX12XR0P2	12	110	R0.2	30	12	93.43
SP4CX12XR0P3	12	110	R0.3	30	12	93.43
SP4CX12XR0P5	12	110	R0.5	30	12	93.43
SP4CX12XR0P5L	12	130	R0.5	30	12	101.03
SP4CX12XR1	12	110	R1	30	12	93.43
SP4CX12XR1L	12	130	R1	30	12	101.03
SP4CX12XR1P5	12	110	R1.5	30	12	93.43
SP4CX12XR2	12	110	R2	30	12	93.43
SP4CX12XR2P5	12	110	R2.5	30	12	93.43
SP4CX12XR3	12	110	R3	30	12	93.43
SP4CX12XR4	12	110	R4	30	12	93.43
SP4CX12XR5	12	110	R5	30	12	93.43
SP4CX14XR1	14	150	R1	32	16	224.83
SP4CX16XR0P5	16	150	R0.5	32	16	224.83
SP4CX16XR1	16	150	R1	32	16	224.83
SP4CX16XR2	16	150	R2	32	16	224.83
SP4CX16XR3	16	150	R3	32	16	224.83
SP4CX20XR0P5	20	150	R0.5	38	20	288.80
SP4CX20XR1	20	150	R1	38	20	288.80
SP4CX20XR2	20	150	R2	38	20	288.80
SP4CX20XR3	20	150	R3	38	20	288.80

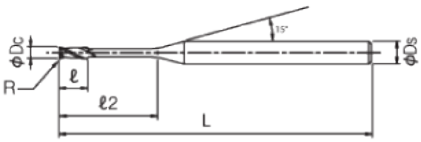
WORK MATERIAL / Abbreviation	CARBON STEEL, ALLOY STEEL, PREHARDENED STEEL, TOOL STEEL ~ 40HRC	~ 60HRC	~ 65HRC	STAINLESS STEELS ~ 35HRC	CAST IRON DUCTILE CAST IRON ~ 350HRB	COPPER ALLOYS	ALUMINUM ALLOYS	HEAT RESISTANT ALLOYS	PLASTIC
SP-CR-EMS	◎	○		○	◎	○	○	○	

KOSG STEEL-PRO 2 FLUTE LONG NECK WITH CORNER RADIUS

For steel and cast iron.

SP-LN-CR-EDS





CARBIDE | RADIA | 0 −0.015 | SHRINK FIT | 30°

Unit:mm

EDP NO.	Dc	L	ℓ2	R	ℓ	Ds	List Price (USD)
S2XP4X1XP05	0.4	45	1	0.05	0.6	4	31.80
S2XP4X1XOP1	0.4	45	1	0.1	0.6	4	31.80
S2XP4X1P5XP05	0.4	45	1.5	0.05	0.6	4	31.80
S2XP4X1P5XOP1	0.4	45	1.5	0.1	0.6	4	31.80
S2XP4X2XP05	0.4	45	2	0.05	0.6	4	31.80
S2XP4X2XOP1	0.4	45	2	0.1	0.6	4	31.80
S2XP4X2P5XP05	0.4	45	2.5	0.05	0.6	4	31.80
S2XP4X2P5XOP1	0.4	45	2.5	0.1	0.6	4	31.80
S2XP4X3XP05	0.4	45	3	0.05	0.6	4	31.80
S2XP4X3XOP1	0.4	45	3	0.1	0.6	4	31.80
S2XP4X4XP05	0.4	45	4	0.05	0.6	4	31.80
S2XP4X4XOP1	0.4	45	4	0.1	0.6	4	31.80
S2XP5X1XP05	0.5	45	1	0.05	0.7	4	28.23
S2XP5X1XOP1	0.5	45	1	0.1	0.7	4	28.23
S2XP5X1P5XP05	0.5	45	1.5	0.05	0.7	4	28.23
S2XP5X1P5XOP1	0.5	45	1.5	0.1	0.7	4	28.23
S2XP5X2XP05	0.5	45	2	0.05	0.7	4	28.23
S2XP5X2XOP1	0.5	45	2	0.1	0.7	4	28.23
S2XP5X2P5XP05	0.5	45	2.5	0.05	0.7	4	28.23
S2XP5X2P5XOP1	0.5	45	2.5	0.1	0.7	4	28.23
S2XP5X3XP05	0.5	45	3	0.05	0.7	4	28.23
S2XP5X3XOP1	0.5	45	3	0.1	0.7	4	28.23
S2XP5X4XP05	0.5	45	4	0.05	0.7	4	28.23
S2XP5X4XOP1	0.5	45	4	0.1	0.7	4	28.23
S2XP5X5XP05	0.5	45	5	0.05	0.7	4	28.23
S2XP5X5XOP1	0.5	45	5	0.1	0.7	4	28.23
S2XP5X6XP05	0.5	45	6	0.05	0.7	4	28.23
S2XP5X6XOP1	0.5	45	6	0.1	0.7	4	28.23
S2XP6X2XP05	0.6	45	2	0.05	0.9	4	28.23
S2XP6X2XOP1	0.6	45	2	0.1	0.9	4	28.23
S2XP6X2XOP2	0.6	45	2	0.2	0.9	4	28.23
S2XP6X3XP05	0.6	45	3	0.05	0.9	4	28.23
S2XP6X3XOP1	0.6	45	3	0.1	0.9	4	28.23
S2XP6X3XOP2	0.6	45	3	0.2	0.9	4	28.23
S2XP6X4XP05	0.6	45	4	0.05	0.9	4	28.23
S2XP6X4XOP1	0.6	45	4	0.1	0.9	4	28.23
S2XP6X4XOP2	0.6	45	4	0.2	0.9	4	28.23
S2XP6X6XP05	0.6	45	6	0.05	0.9	4	28.23
S2XP6X6XOP1	0.6	45	6	0.1	0.9	4	28.23
S2XP6X6XOP2	0.6	45	6	0.2	0.9	4	28.23
S2XP6X8XP05	0.6	45	8	0.05	0.9	4	28.23
S2XP6X8XOP1	0.6	45	8	0.1	0.9	4	28.23
S2XP6X8XOP2	0.6	45	8	0.2	0.9	4	28.23
S2XP6X10XP05	0.6	45	10	0.05	0.9	4	28.23
S2XP6X10XOP1	0.6	45	10	0.1	0.9	4	28.23
S2XP6X10XOP2	0.6	45	10	0.2	0.9	4	28.23

Unit:mm

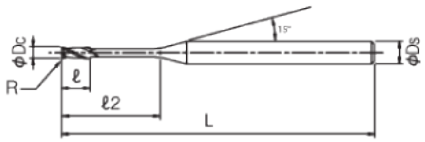
EDP NO.	Dc	L	ℓ2	R	ℓ	Ds	List Price (USD)
S2XP7X2XP05	0.7	45	2	0.05	1	4	28.03
S2XP7X2XOP1	0.7	45	2	0.1	1	4	28.03
S2XP7X2XOP2	0.7	45	2	0.2	1	4	28.03
S2XP7X4XP05	0.7	45	4	0.05	1	4	28.03
S2XP7X4XOP1	0.7	45	4	0.1	1	4	28.03
S2XP7X4XOP2	0.7	45	4	0.2	1	4	28.03
S2XP7X6XP05	0.7	45	6	0.05	1	4	28.03
S2XP7X6XOP1	0.7	45	6	0.1	1	4	28.03
S2XP7X6XOP2	0.7	45	6	0.2	1	4	28.03
S2XP7X8XP05	0.7	45	8	0.05	1	4	28.03
S2XP7X8XOP1	0.7	45	8	0.1	1	4	28.03
S2XP7X8XOP2	0.7	45	8	0.2	1	4	28.03
S2XP7X10XP05	0.7	45	10	0.05	1	4	28.03
S2XP7X10XOP1	0.7	45	10	0.1	1	4	28.03
S2XP7X10XOP2	0.7	45	10	0.2	1	4	28.03
S2XP8X2XP05	0.8	45	2	0.05	1.2	4	28.03
S2XP8X2XOP1	0.8	45	2	0.1	1.2	4	28.03
S2XP8X2XOP2	0.8	45	2	0.2	1.2	4	28.03
S2XP8X3XP05	0.8	45	3	0.05	1.2	4	28.03
S2XP8X3XOP1	0.8	45	3	0.1	1.2	4	28.03
S2XP8X3XOP2	0.8	45	3	0.2	1.2	4	28.03
S2XP8X4XP05	0.8	45	4	0.05	1.2	4	28.03
S2XP8X4XOP1	0.8	45	4	0.1	1.2	4	28.03
S2XP8X4XOP2	0.8	45	4	0.2	1.2	4	28.03
S2XP8X6XP05	0.8	45	6	0.05	1.2	4	28.03
S2XP8X6XOP1	0.8	45	6	0.1	1.2	4	28.03
S2XP8X6XOP2	0.8	45	6	0.2	1.2	4	28.03
S2XP8X8XP05	0.8	45	8	0.05	1.2	4	28.03
S2XP8X8XOP1	0.8	45	8	0.1	1.2	4	28.03
S2XP8X8XOP2	0.8	45	8	0.2	1.2	4	28.03
S2XP8X10XP05	0.8	45	10	0.05	1.2	4	28.03
S2XP8X10XOP1	0.8	45	10	0.1	1.2	4	28.03
S2XP8X10XOP2	0.8	45	10	0.2	1.2	4	28.03
S2X1X2XP05	1	45	3	0.05	1.5	4	24.17
S2X1X3XOP1	1	45	3	0.1	1.5	4	24.17
S2X1X3XOP2	1	45	3	0.2	1.5	4	24.17
S2X1X3XOP3	1	45	3	0.3	1.5	4	24.17
S2X1X4XP05	1	45	4	0.05	1.5	4	24.17
S2X1X4XOP1	1	45	4	0.1	1.5	4	24.17
S2X1X4XOP2	1	45	4	0.2	1.5	4	24.17
S2X1X4XOP3	1	45	4	0.3	1.5	4	24.17
S2X1X6XP05	1	45	6	0.05	1.5	4	24.17
S2X1X6XOP1	1	45	6	0.1	1.5	4	24.17
S2X1X6XOP2	1	45	6	0.2	1.5	4	24.17
S2X1X6XOP3	1	45	6	0.3	1.5	4	24.17
S2X1X8XP05	1	45	8	0.05	1.5	4	24.17

WORK MATERIAL / Abbreviation	CARBON STEEL / PREHARDENED STEEL / TOOL STEEL ~ 40HRC		~ 60HRC	~ 65HRC	STAINLESS STEELS ~ 35HRC	CAST IRON / DUCTILE CAST IRON ~ 350HRB	COPPER ALLOYS	ALUMINUM ALLOYS	HEAT RESISTANT ALLOYS	PLASTIC
SP-LN-CR-EDS	◎		○		○	◎	○	○	○	

For steel and cast iron.

KOSG STEEL-PRO 2 FLUTE LONG NECK WITH CORNER RADIUS

SP-LN-CR-EDS





CARBIDE RADIA 0 −0.015 SHRINK FIT 30°

Unit:mm

EDP NO.	Dc	L	ℓ2	R	ℓ	Ds	List Price (USD)
S2X1X8X0P1	1	45	8	0.1	1.5	4	24.17
S2X1X8X0P2	1	45	8	0.2	1.5	4	24.17
S2X1X8X0P3	1	45	8	0.345	1.5	4	24.17
S2X1X10XP05	1	45	10	0.05	1.5	4	24.17
S2X1X10X0P1	1	45	10	0.1	1.5	4	24.17
S2X1X10X0P2	1	45	10	0.2	1.5	4	24.17
S2X1X10X0P3	1	45	10	0.3	1.5	4	24.17
S2X1X12XP05	1	45	12	0.05	1.5	4	24.17
S2X1X12X0P1	1	45	12	0.145	1.5	4	24.17
S2X1X12X0P2	1	45	12	0.245	1.5	4	24.17
S2X1X12X0P3	1	45	12	0.345	1.5	4	24.17
S2X1X14XP05	1	50	14	0.05	1.5	4	25.20
S2X1X14X0P1	1	50	14	0.1	1.5	4	25.20
S2X1X14X0P2	1	50	14	0.2	1.5	4	25.20
S2X1X14X0P3	1	50	14	0.3	1.5	4	25.20
S2X1X16XP05	1	50	16	0.05	1.5	4	25.20
S2X1X16X0P1	1	50	16	0.1	1.5	4	25.20
S2X1X16X0P2	1	50	16	0.2	1.5	4	25.20
S2X1X16X0P3	1	50	16	0.3	1.5	4	25.20
S2X1X20XP05	1	50	20	0.05	1.5	4	25.20
S2X1X20X0P1	1	50	20	0.1	1.5	4	25.20
S2X1X20X0P2	1	50	20	0.2	1.5	4	25.20
S2X1X20X0P3	1	50	20	0.3	1.5	4	25.20
S2X1P2X4XP05	1.2	45	4	0.05	1.5	4	25.43
S2X1P2X4X0P1	1.2	45	4	0.1	1.5	4	25.43
S2X1P2X4X0P2	1.2	45	4	0.2	1.5	4	25.43
S2X1P2X4X0P3	1.2	45	4	0.3	1.5	4	25.43
S2X1P2X6XP05	1.2	45	6	0.05	1.5	4	25.43
S2X1P2X6X0P1	1.2	45	6	0.1	1.5	4	25.43
S2X1P2X6X0P2	1.2	45	6	0.2	1.5	4	25.43
S2X1P2X6X0P3	1.2	45	6	0.3	1.5	4	25.43
S2X1P2X8XP05	1.2	45	8	0.05	1.5	4	25.43
S2X1P2X8X0P1	1.2	45	8	0.1	1.5	4	25.43
S2X1P2X8X0P2	1.2	45	8	0.2	1.5	4	25.43
S2X1P2X8X0P3	1.2	45	8	0.3	1.5	4	25.43
S2X1P2X10XP05	1.2	45	10	0.05	1.5	4	25.43
S2X1P2X10X0P1	1.2	45	10	0.1	1.5	4	25.43
S2X1P2X10X0P2	1.2	45	10	0.2	1.5	4	25.43
S2X1P2X10X0P3	1.2	45	10	0.3	1.5	4	25.43
S2X1P2X12XP05	1.2	45	12	0.05	1.5	4	25.43
S2X1P2X12X0P1	1.2	45	12	0.1	1.5	4	25.43
S2X1P2X12X0P2	1.2	45	12	0.2	1.5	4	25.43
S2X1P2X12X0P3	1.2	45	12	0.3	1.5	4	25.43
S2X1P5X4XP05	1.5	45	4	0.05	2.3	4	24.73
S2X1P5X4X0P1	1.5	45	4	0.1	2.3	4	24.73
S2X1P5X4X0P2	1.5	45	4	0.2	2.3	4	24.73

Unit:mm

EDP NO.	Dc	L	ℓ2	R	ℓ	Ds	List Price (USD)
S2X1P5X4X0P3	1.5	45	4	0.3	2.3	4	24.73
S2X1P5X4X0P5	1.5	45	4	0.5	2.3	4	24.73
S2X1P5X6XP05	1.5	45	6	0.05	2.3	4	24.73
S2X1P5X6X0P1	1.5	45	6	0.1	2.3	4	24.73
S2X1P5X6X0P2	1.5	45	6	0.2	2.3	4	24.73
S2X1P5X6X0P3	1.5	45	6	0.3	2.3	4	24.73
S2X1P5X6X0P5	1.5	45	6	0.5	2.3	4	24.73
S2X1P5X8XP05	1.5	45	8	0.05	2.3	4	24.73
S2X1P5X8X0P1	1.5	45	8	0.1	2.3	4	24.73
S2X1P5X8X0P2	1.5	45	8	0.2	2.3	4	24.73
S2X1P5X8X0P3	1.5	45	8	0.3	2.3	4	24.73
S2X1P5X8X0P5	1.5	45	8	0.5	2.3	4	24.73
S2X1P5X10XP05	1.5	45	10	0.05	2.3	4	24.73
S2X1P5X10X0P1	1.5	45	10	0.1	2.3	4	24.73
S2X1P5X10X0P2	1.5	45	10	0.2	2.3	4	24.73
S2X1P5X10X0P3	1.5	45	10	0.3	2.3	4	24.73
S2X1P5X10X0P5	1.5	45	10	0.5	2.3	4	24.73
S2X1P5X12XP05	1.5	45	12	0.05	2.3	4	24.73
S2X1P5X12X0P1	1.5	45	12	0.1	2.3	4	24.73
S2X1P5X12X0P2	1.5	45	12	0.2	2.3	4	24.73
S2X1P5X12X0P3	1.5	45	12	0.3	2.3	4	24.73
S2X1P5X12X0P5	1.5	45	12	0.5	2.3	4	24.73
S2X1P5X14XP05	1.5	50	14	0.05	2.3	4	24.73
S2X1P5X14X0P1	1.5	50	14	0.1	2.3	4	24.73
S2X1P5X14X0P2	1.5	50	14	0.2	2.3	4	24.73
S2X1P5X14X0P3	1.5	50	14	0.3	2.3	4	24.73
S2X1P5X14X0P5	1.5	50	14	0.5	2.3	4	24.73
S2X1P5X16XP05	1.5	50	16	0.05	2.3	4	24.73
S2X1P5X16X0P1	1.5	50	16	0.1	2.3	4	24.73
S2X1P5X16X0P2	1.5	50	16	0.2	2.3	4	24.73
S2X1P5X16X0P3	1.5	50	16	0.3	2.3	4	24.73
S2X1P5X16X0P5	1.5	50	16	0.5	2.3	4	24.73
S2X1P5X20XP05	1.5	55	20	0.05	2.3	4	26.03
S2X1P5X20X0P1	1.5	55	20	0.1	2.3	4	26.03
S2X1P5X20X0P2	1.5	55	20	0.2	2.3	4	26.03
S2X1P5X20X0P3	1.5	55	20	0.3	2.3	4	26.03
S2X1P5X20X0P5	1.5	55	20	0.5	2.3	4	26.03
S2X2X6X0P1	2	45	6	0.1	3	4	24.17
S2X2X6X0P2	2	45	6	0.2	3	4	24.17
S2X2X6X0P3	2	45	6	0.3	3	4	24.17
S2X2X6X0P5	2	45	6	0.5	3	4	24.17
S2X2X8X0P1	2	45	8	0.1	3	4	24.17
S2X2X8X0P2	2	45	8	0.2	3	4	24.17
S2X2X8X0P3	2	45	8	0.3	3	4	24.17
S2X2X8X0P5	2	45	8	0.5	3	4	24.17
S2X2X10X0P1	2	45	10	0.1	3	4	25.43

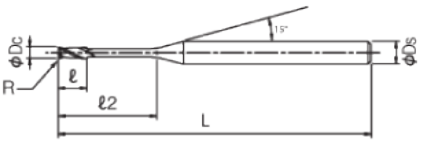
WORK MATERIAL / Abbreviation	CARBON STEEL, ALLOY STEEL, PREHARDENED STEEL, TOOL STEEL ~ 40HRC	~ 60HRC	~ 65HRC	STAINLESS STEELS ~ 35HRC	CAST IRON DUCTILE CAST IRON ~ 350HRB	COPPER ALLOYS	ALUMINUM ALLOYS	HEAT RESISTANT ALLOYS	PLASTIC
SP-LN-CR-EDS	◎	○		○	◎	○	○	○	

KOSG STEEL-PRO 2 FLUTE LONG NECK WITH CORNER RADIUS

For steel and cast iron.

SP-LN-CR-EDS





CARBIDE | RADIA | 0 −0.015 | SHRINK FIT | 30°

Unit:mm

EDP NO.	Dc	L	ℓ2	R	ℓ	Ds	List Price (USD)
S2X2X10X0P2	2	45	10	0.2	3	4	25.43
S2X2X10X0P3	2	45	10	0.3	3	4	25.43
S2X2X10X0P5	2	45	10	0.5	3	4	25.43
S2X2X12X0P1	2	45	12	0.1	3	4	25.43
S2X2X12X0P2	2	45	12	0.2	3	4	25.43
S2X212X0P3X	2	45	12	0.3	3	4	25.43
S2X2X12X0P5	2	45	12	0.5	3	4	25.43
S2X2X14X0P1	2	50	14	0.1	3	4	25.43
S2X2X14X0P2	2	50	14	0.2	3	4	25.43
S2X2X14X0P3	2	50	14	0.3	3	4	25.43
S2X2X14X0P5	2	50	14	0.5	3	4	25.43
S2X2X16X0P2	2	50	16	0.2	3	4	25.43
S2X2X16X0P3	2	50	16	0.3	3	4	25.43
S2X2X16X0P5	2	50	16	0.5	3	4	25.43
S2X2X20X0P1	2	55	20	0.1	3	4	26.77
S2X2X20X0P2	2	55	20	0.2	3	4	26.77
S2X2X20X0P3	2	55	20	0.3	3	4	26.77
S2X2X20X0P5	2	55	20	0.5	3	4	26.77
S2X2X26X0P1	2	60	26	0.1	3	4	28.73
S2X2X26X0P2	2	60	26	0.2	3	4	28.73
S2X2X26X0P3	2	60	26	0.3	3	4	28.73
S2X2X26X0P5	2	60	26	0.5	3	4	28.73
S2X2X30X0P1	2	70	30	0.1	3	4	30.20
S2X2X30X0P2	2	70	30	0.2	3	4	30.20
S2X2X30X0P3	2	70	30	0.3	3	4	30.20
S2X2X30X0P5	2	70	30	0.5	3	4	30.20
S2X2P5X8X0P1	2.5	45	8	0.1	3.7	4	24.73
S2X2P5X8X0P2	2.5	45	8	0.2	3.7	4	24.73
S2X2P5X8X0P3	2.5	45	8	0.3	3.7	4	24.73
S2X2P5X8X0P5	2.5	45	8	0.5	3.7	4	24.73
S2X2P5X10X0P1	2.5	45	10	0.1	3.7	4	24.73
S2X2P5X10X0P2	2.5	45	10	0.2	3.7	4	24.73
S2X2P5X10X0P3	2.5	45	10	0.3	3.7	4	24.73
S2X2P5X10X0P5	2.5	45	10	0.5	3.7	4	24.73
S2X2P5X12X0P1	2.5	45	12	0.1	3.7	4	24.73
S2X2P5X12X0P2	2.5	45	12	0.2	3.7	4	24.73
S2X2P5X12X0P3	2.5	45	12	0.3	3.7	4	24.73
S2X2P5X12X0P5	2.5	45	12	0.5	3.7	4	24.73
S2X2P5X14X0P1	2.5	50	14	0.1	3.7	4	24.73
S2X2P5X14X0P2	2.5	50	14	0.2	3.7	4	24.73
S2X2P5X14X0P3	2.5	50	14	0.3	3.7	4	24.73
S2X2P5X14X0P5	2.5	50	14	0.5	3.7	4	24.73
S2X2P5X16X0P1	2.5	50	16	0.1	3.7	4	24.73
S2X2P5X16X0P2	2.5	50	16	0.2	3.7	4	24.73
S2X2P5X16X0P3	2.5	50	16	0.3	3.7	4	24.73
S2X2P5X16X0P5	2.5	50	16	0.5	3.7	4	24.73

Unit:mm

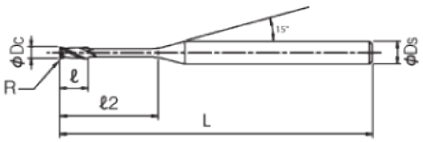
EDP NO.	Dc	L	ℓ2	R	ℓ	Ds	List Price (USD)
S2X2P5X20X0P1	2.5	55	20	0.1	3.7	4	24.73
S2X2P5X20X0P2	2.5	55	20	0.2	3.7	4	24.73
S2X2P5X20X0P3	2.5	55	20	0.3	3.7	4	24.73
S2X2P5X20X0P5	2.5	55	20	0.5	3.7	4	24.73
S2X2P5X26X0P1	2.5	60	26	0.1	3.7	4	27.23
S2X2P5X26X0P2	2.5	60	26	0.2	3.7	4	27.23
S2X2P5X26X0P3	2.5	60	26	0.3	3.7	4	27.23
S2X2P5X26X0P5	2.5	60	26	0.5	3.7	4	27.23
S2X2P5X30X0P1	2.5	70	30	0.1	3.7	4	28.57
S2X2P5X30X0P2	2.5	70	30	0.2	3.7	4	28.57
S2X2P5X30X0P3	2.5	70	30	0.3	3.7	4	28.57
S2X2P5X30X0P5	2.5	70	30	0.5	3.7	4	28.57
S2X3X8X0P1	3	45	8	0.1	4.5	6	25.30
S2X3X8X0P2	3	45	8	0.2	4.5	6	25.30
S2X3X8X0P3	3	45	8	0.3	4.5	6	25.30
S2X3X8X0P5	3	45	8	0.5	4.5	6	25.30
S2X3X8X1	3	45	8	1.0	4.5	6	25.30
S2X3X10X0P1	3	45	10	0.1	4.5	6	25.30
S2X3X10X0P2	3	45	10	0.2	4.5	6	25.30
S2X3X10X0P3	3	45	10	0.3	4.5	6	25.30
S2X3X10X0P5	3	45	10	0.5	4.5	6	25.30
S2X3X10X1	3	45	10	1.0	4.5	6	25.30
S2X3X12X0P1	3	45	12	0.1	4.5	6	25.30
S2X3X12X0P2	3	45	12	0.2	4.5	6	25.30
S2X3X12X0P3	3	45	12	0.3	4.5	6	25.30
S2X3X12X0P5	3	45	12	0.5	4.5	6	25.30
S2X3X12X1	3	45	12	1.0	4.5	6	25.30
S2X3X14X0P1	3	50	14	0.1	4.5	6	25.30
S2X3X14X0P2	3	50	14	0.2	4.5	6	25.30
S2X3X14X0P3	3	50	14	0.3	4.5	6	25.30
S2X3X14X0P5	3	50	14	0.5	4.5	6	25.30
S2X3X14X1	3	50	14	1.0	4.5	6	25.30
S2X3X16X0P1	3	55	16	0.1	4.5	6	25.87
S2X3X16X0P2	3	55	16	0.2	4.5	6	25.87
S2X3X16X0P3	3	55	16	0.3	4.5	6	25.87
S2X3X16X0P5	3	55	16	0.5	4.5	6	25.87
S2X3X16X1	3	55	16	1.0	4.5	6	25.87
S2X3X20X0P1	3	60	20	0.1	4.5	6	29.00
S2X3X20X0P2	3	60	20	0.2	4.5	6	29.00
S2X3X20X0P3	3	60	20	0.3	4.5	6	29.00
S2X3X20X0P5	3	60	20	0.5	4.5	6	29.00
S2X3X20X1	3	60	20	1.0	4.5	6	29.00
S2X3X26X0P1	3	65	26	0.1	4.5	6	31.90
S2X3X26X0P2	3	65	26	0.2	4.5	6	31.90
S2X3X26X0P3	3	65	26	0.3	4.5	6	31.90
S2X3X26X0P5	3	65	26	0.5	4.5	6	31.90

WORK MATERIAL / Abbreviation	CARBON STEEL, ALLOY STEEL, PREHARDENED STEEL, TOOL STEEL ~ 40HRC	~ 60HRC	~ 65HRC	STAINLESS STEELS ~ 35HRC	CAST IRON DUCTILE CAST IRON ~ 350HRB	COPPER ALLOYS	ALUMINUM ALLOYS	HEAT RESISTANT ALLOYS	PLASTIC
SP-LN-CR-EDS	◎	○		○	◎	○	○	○	

For steel and cast iron.

KOSG STEEL-PRO 2 FLUTE LONG NECK WITH CORNER RADIUS

SP-LN-CR-EDS







Unit:mm

EDP NO.	Dc	L	ℓ2	R	ℓ	Ds	List Price (USD)
S2X3X26X1	3	65	26	1.0	4.5	6	31.90
S2X3X30X0P1	3	80	30	0.1	4.5	6	34.13
S2X3X30X0P2	3	80	30	0.2	4.5	6	34.13
S2X3X30X0P3	3	80	30	0.3	4.5	6	34.13
S2X3X30X0P5	3	80	30	0.5	4.5	6	34.13
S2X3X30X1	3	80	30	1.0	4.5	6	34.13
S2X3X35X0P1	3	90	35	0.1	4.5	6	36.03
S2X3X35X0P2	3	90	35	0.2	4.5	6	36.03
S2X3X35X0P3	3	90	35	0.3	4.5	6	36.03
S2X3X35X0P5	3	90	35	0.5	4.5	6	36.03
S2X3X35X1	3	90	35	1.0	4.5	6	36.03
S2X3X40X0P1	3	90	40	0.1	4.5	6	36.03
S2X3X40X0P2	3	90	40	0.2	4.5	6	36.03
S2X3X40X0P3	3	90	40	0.3	4.5	6	36.03
S2X3X40X0P5	3	90	40	0.5	4.5	6	36.03
S2X3X40X1	3	90	40	1.0	4.5	6	36.03
S2X4X10X0P1	4	45	10	0.1	6	6	26.40
S2X4X10X0P2	4	45	10	0.2	6	6	26.40
S2X4X10X0P3	4	45	10	0.3	6	6	26.40
S2X4X10X0P5	4	45	10	0.5	6	6	26.40
S2X4X10X1	4	45	10	1.0	6	6	26.40
S2X4X12X0P1	4	50	12	0.1	6	6	26.40
S2X4X12X0P2	4	50	12	0.2	6	6	26.40
S2X4X12X0P3	4	50	12	0.3	6	6	26.40
S2X4X12X0P5	4	50	12	0.5	6	6	26.40
S2X4X12X1	4	50	12	1.0	6	6	26.40
S2X4X14X0P1	4	60	14	0.1	6	6	27.73
S2X4X14X0P2	4	60	14	0.2	6	6	27.73
S2X4X14X0P3	4	60	14	0.3	6	6	27.73
S2X4X14X0P5	4	60	14	0.5	6	6	27.73
S2X4X14X1	4	60	14	1.0	6	6	27.73
S2X4X16X0P1	4	60	16	0.1	6	6	27.73
S2X4X16X0P2	4	60	16	0.2	6	6	27.73
S2X4X16X0P3	4	60	16	0.3	6	6	27.73
S2X4X16X0P5	4	60	16	0.5	6	6	27.73
S2X4X16X1	4	60	16	1.0	6	6	27.73
S2X4X20X0P1	4	60	20	0.1	6	6	29.00
S2X4X20X0P2	4	60	20	0.2	6	6	29.00
S2X4X20X0P3	4	60	20	0.3	6	6	29.00
S2X4X20X0P5	4	60	20	0.5	6	6	29.00
S2X4X20X1	4	60	20	1.0	6	6	29.00
S2X4X26X0P1	4	70	26	0.1	6	6	32.77
S2X4X26X0P2	4	70	26	0.2	6	6	32.77
S2X4X26X0P3	4	70	26	0.3	6	6	32.77
S2X4X26X0P5	4	70	26	0.5	6	6	32.77
S2X4X26X1	4	70	26	1.0	6	6	32.77
S2X4X30X0P1	4	80	30	0.1	6	6	34.13
S2X4X30X0P2	4	80	30	0.2	6	6	34.13
S2X4X30X0P3	4	80	30	0.3	6	6	34.13
S2X4X30X0P5	4	80	30	0.5	6	6	34.13
S2X4X30X1	4	80	30	1.0	6	6	34.13
S2X4X35X0P1	4	90	35	0.1	6	6	36.03
S2X4X35X0P2	4	90	35	0.2	6	6	36.03
S2X4X35X0P3	4	90	35	0.3	6	6	36.03

Unit:mm

EDP NO.	Dc	L	ℓ2	R	ℓ	Ds	List Price (USD)
S2X4X35X0P5	4	90	35	0.5	6	6	36.03
S2X4X35X1	4	90	35	1.0	6	6	36.03
S2X4X40X0P1	4	90	40	0.1	6	6	36.03
S2X4X40X0P2	4	90	40	0.2	6	6	36.03
S2X4X40X0P3	4	90	40	0.3	6	6	36.03
S2X4X40X0P5	4	90	40	0.5	6	6	36.03
S2X4X40X1	4	90	40	1.0	6	6	36.03
S2X4X45X0P1	4	100	45	0.1	6	6	37.90
S2X4X45X0P2	4	100	45	0.2	6	6	37.90
S2X4X45X0P3	4	100	45	0.3	6	6	37.90
S2X4X45X0P5	4	100	45	0.5	6	6	37.90
S2X4X45X1	4	100	45	1.0	6	6	37.90
S2X4X50X0P1	4	100	50	0.1	6	6	37.90
S2X4X50X0P2	4	100	50	0.2	6	6	37.90
S2X4X50X0P3	4	100	50	0.3	6	6	37.90
S2X4X50X0P5	4	100	50	0.5	6	6	37.90
S2X4X50X1	4	100	50	1.0	6	6	37.90
S2X6X20X0P1	6	60	20	0.1	9	6	30.90
S2X6X20X0P2	6	60	20	0.2	9	6	30.90
S2X6X20X0P3	6	60	20	0.3	9	6	30.90
S2X6X20X0P5	6	60	20	0.5	9	6	30.90
S2X6X20X1	6	60	20	1.0	9	6	30.90
S2X6X20X1P5	6	60	20	1.5	9	6	30.90
S2X6X20X2	6	60	20	2.0	9	6	30.90
S2X6X30X0P3	6	70	30	0.3	15	6	32.47
S2X6X30X0P5	6	70	30	0.5	15	6	32.47
S2X6X30X1	6	70	30	1.0	15	6	32.47
S2X8X25X0P1	8	70	25	0.1	12	8	36.37
S2X8X25X0P2	8	70	25	0.2	12	8	36.37
S2X8X25X0P3	8	70	25	0.3	12	8	36.37
S2X8X25X0P5	8	70	25	0.5	12	8	36.37
S2X8X25X1	8	70	25	1.0	12	8	36.37
S2X8X25X1P5	8	70	25	1.5	12	8	36.37
S2X8X25X2	8	70	25	2.0	12	8	36.37
S2X8X35X0P5	8	100	35	0.5	20	8	43.63
S2X10X30X0P1	10	75	30	0.1	15	10	52.33
S2X10X30X0P2	10	75	30	0.2	15	10	52.33
S2X10X30X0P3	10	75	30	0.3	15	10	52.33
S2X10X30X0P5	10	75	30	0.5	15	10	52.33
S2X10X30X1	10	75	30	1.0	15	10	52.33
S2X10X30X1P5	10	75	30	1.5	15	10	52.33
S2X10X30X2	10	75	30	2.0	15	10	52.33
S2X10X40X1	10	100	40	1.0	25	10	62.80
S2X12X50X0P3	12	110	50	0.3	20	12	83.23
S2X12X50X0P5	12	110	50	0.5	20	12	83.23
S2X12X50X1	12	110	50	1.0	20	12	83.23
S2X16X35X0P5	16	100	35	0.5	20	16	167.87
S2X16X35X1	16	100	35	1.0	20	16	167.87
S2X16X50X0P5	16	150	50	0.5	35	16	228.17
S2X16X50X1	16	150	50	1.0	35	16	228.17
S2X20X40X0P5	20	100	40	0.5	25	20	248.67
S2X20X40X1	20	100	40	1.0	25	20	248.67
S2X20X55X0P5	20	150	55	0.5	40	20	306.63
S2X20X55X1	20	150	55	1.0	40	20	306.63

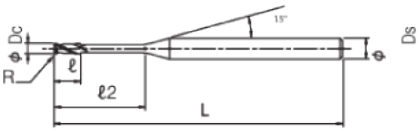
WORK MATERIAL / Abbreviation	CARBON STEEL, ALLOY STEEL, PREHARDENED STEEL, TOOL STEEL ~ 40HRC	~ 60HRC	~ 65HRC	STAINLESS STEELS ~ 35HRC	CAST IRON, DUCTILE CAST IRON ~ 350HRB	COPPER ALLOYS	ALUMINUM ALLOYS	HEAT RESISTANT ALLOYS	PLASTIC
SP-LN-CR-EDS	◎	○		○	◎	○	○	○	

KOSG STEEL-PRO 4 FLUTE LONG NECK WITH CORNER RADIUS

For steel and cast iron.

SP-LN-CR-EMS





CARBIDE RADIA Dc ≤ 12 0 −0.02 Dc > 12 0 −0.03 SHRINK FIT 30°

Unit:mm

EDP NO.	Dc	L	ℓ2	R	ℓ	Ds	List Price (USD)
S4X1X6X0P2	1	45	6	0.2	1.5	4	26.60
S4X1X8X0P1	1	45	8	0.1	1.5	4	26.60
S4X1P5X8X0P2	1.5	45	8	0.2	2.3	4	27.23
S4X1P5X10X0P2	1.5	45	10	0.2	2.3	4	27.23
S4X1P5X10X0P5	1.5	45	10	0.5	2.3	4	27.23
S4X1P5X12X0P1	1.5	45	12	0.1	2.3	4	27.23
S4X1P5X12X0P2	1.5	45	12	0.2	2.3	4	27.23
S4X1P5X12X0P5	1.5	45	12	0.5	2.3	4	27.23
S4X2X8X0P5	2	45	8	0.5	3	4	26.60
S4X2X10X0P2	2	45	10	0.2	3	4	28.00
S4X2X10X0P5	2	45	10	0.5	3	4	28.00
S4X2X12X0P2	2	45	12	0.2	3	4	28.00
S4X2X12X0P5	2	45	12	0.5	3	4	28.00
S4X2X16X0P5	2	50	16	0.5	3	4	28.00
S4X2X20X0P5	2	55	20	0.5	3	4	29.47
S4X3X10X0P5	3	45	10	0.5	4.5	6	29.07
S4X3X12X0P2	3	45	12	0.2	4.5	6	29.07
S4X3X12X0P5	3	45	12	0.5	4.5	6	29.07
S4X3X16X0P2	3	55	16	0.2	4.5	6	30.50
S4X3X16X0P5	3	55	16	0.5	4.5	6	30.50
S4X3X20X0P5	3	60	20	0.5	4.5	6	31.90
S4X3X26X0P5	3	65	26	0.5	4.5	6	36.07
S4X3X30X0P5	3	80	30	0.5	4.5	6	37.57
S4X4X10X0P1	4	45	10	0.1	6	6	29.07
S4X4X10X0P2	4	45	10	0.2	6	6	29.07
S4X4X10X0P3	4	45	10	0.3	6	6	29.07
S4X4X10X0P5	4	45	10	0.5	6	6	29.07
S4X4X10X1	4	45	10	1.0	6	6	29.07
S4X4X12X0P1	4	50	12	0.1	6	6	29.07
S4X4X12X0P2	4	50	12	0.2	6	6	29.07
S4X4X12X0P3	4	50	12	0.3	6	6	29.07
S4X4X12X0P5	4	50	12	0.5	6	6	29.07
S4X4X12X1	4	50	12	1.0	6	6	29.07
S4X4X14X0P1	4	60	14	0.1	6	6	30.50
S4X4X14X0P2	4	60	14	0.2	6	6	30.50
S4X4X14X0P3	4	60	14	0.3	6	6	30.50
S4X4X14X0P5	4	60	14	0.5	6	6	30.50
S4X4X14X1	4	60	14	1.0	6	6	30.50
S4X4X16X0P1	4	60	16	0.1	6	6	30.50
S4X4X16X0P2	4	60	16	0.2	6	6	30.50
S4X4X16X0P3	4	60	16	0.3	6	6	30.50
S4X4X16X0P5	4	60	16	0.5	6	6	30.50
S4X4X16X1	4	60	16	1.0	6	6	30.50
S4X4X20X0P1	4	60	20	0.1	6	6	31.90
S4X4X20X0P2	4	60	20	0.2	6	6	31.90
S4X4X20X0P3	4	60	20	0.3	6	6	31.90
S4X4X20X0P5	4	60	20	0.5	6	6	31.90
S4X4X20X1	4	60	20	1.0	6	6	31.90
S4X4X26X0P1	4	70	26	0.1	6	6	36.07
S4X4X26X0P2	4	70	26	0.2	6	6	36.07
S4X4X26X0P3	4	70	26	0.3	6	6	36.07
S4X4X26X0P5	4	70	26	0.5	6	6	36.07
S4X4X26X1	4	70	26	1.0	6	6	36.07
S4X4X30X0P1	4	80	30	0.1	6	6	37.57
S4X4X30X0P2	4	80	30	0.2	6	6	37.57
S4X4X30X0P3	4	80	30	0.3	6	6	37.57
S4X4X30X0P5	4	80	30	0.5	6	6	37.57
S4X4X30X1	4	80	30	1.0	6	6	37.57
S4X4X35X0P1	4	90	35	0.1	6	6	39.67

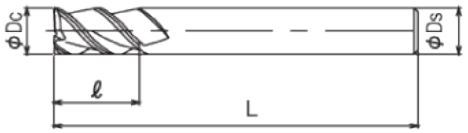
Unit:mm

EDP NO.	Dc	L	ℓ2	R	ℓ	Ds	List Price (USD)
S4X4X35X0P2	4	90	35	0.2	6	6	39.67
S4X4X35X0P3	4	90	35	0.3	6	6	39.67
S4X4X35X0P5	4	90	35	0.5	6	6	39.67
S4X4X35X1	4	90	35	1.0	6	6	39.67
S4X4X40X0P1	4	90	40	0.1	6	6	39.67
S4X4X40X0P2	4	90	40	0.2	6	6	39.67
S4X4X40X0P3	4	90	40	0.3	6	6	39.67
S4X4X40X0P5	4	90	40	0.5	6	6	39.67
S4X4X40X1	4	90	40	1.0	6	6	39.67
S4X4X45X0P1	4	100	45	0.1	6	6	41.67
S4X4X45X0P2	4	100	45	0.2	6	6	41.67
S4X4X45X0P3	4	100	45	0.3	6	6	41.67
S4X4X45X0P5	4	100	45	0.5	6	6	41.67
S4X4X45X1	4	100	45	1.0	6	6	41.67
S4X4X50X0P1	4	100	50	0.1	6	6	41.67
S4X4X50X0P2	4	100	50	0.2	6	6	41.67
S4X4X50X0P3	4	100	50	0.3	6	6	41.67
S4X4X50X0P5	4	100	50	0.5	6	6	41.67
S4X4X50X1	4	100	50	1.0	6	6	41.67
S4X6X20X0P1	6	60	20	0.1	9	6	34.00
S4X6X20X0P2	6	60	20	0.2	9	6	34.00
S4X6X20X0P3	6	60	20	0.3	9	6	34.00
S4X6X20X0P5	6	60	20	0.5	9	6	34.00
S4X6X20X1	6	60	20	1.0	9	6	34.00
S4X6X20X1P5	6	60	20	1.5	9	6	34.00
S4X6X20X2	6	60	20	2.0	9	6	34.00
S4X6X30X0P3	6	70	30	0.3	15	6	35.70
S4X6X30X0P5	6	70	30	0.5	15	6	35.70
S4X6X30X1	6	70	30	1.0	15	6	35.70
S4X8X25X0P1	8	70	25	0.1	12	8	40.00
S4X8X25X0P2	8	70	25	0.2	12	8	40.00
S4X8X25X0P3	8	70	25	0.3	12	8	40.00
S4X8X25X0P5	8	70	25	0.5	12	8	40.00
S4X8X25X1	8	70	25	1.0	12	8	40.00
S4X8X25X1P5	8	70	25	1.5	12	8	40.00
S4X8X25X2	8	70	25	2.0	12	8	40.00
S4X8X35X0P5	8	100	35	0.5	20	8	48.03
S4X8X35X1	8	100	35	1.0	20	8	48.03
S4X10X30X0P1	10	75	30	0.1	15	10	57.57
S4X10X30X0P2	10	75	30	0.2	15	10	57.57
S4X10X30X0P3	10	75	30	0.3	15	10	57.57
S4X10X30X0P4	10	75	30	0.5	15	10	57.57
S4X10X30X1	10	75	30	1.0	15	10	57.57
S4X10X30X1P5	10	75	30	1.5	15	10	57.57
S4X10X30X2	10	75	30	2.0	15	10	57.57
S4X10X40X0P5	10	100	40	0.5	25	10	69.07
S4X10X40X1	10	100	40	1.0	25	10	69.07
S4X12X50X0P3	12	110	50	0.3	20	12	91.57
S4X12X50X0P5	12	110	50	0.5	20	12	91.57
S4X12X50X1	12	110	50	1.0	20	12	91.57
S4X16X35X0P5	16	100	35	0.5	20	16	184.67
S4X16X35X1	16	100	35	1.0	20	16	184.67
S4X16X50X0P5	16	150	50	0.5	35	16	250.97
S4X16X50X1	16	150	50	1.0	35	16	250.97
S4X20X40X0P5	20	100	40	0.5	25	20	273.57
S4X20X40X1	20	100	40	1.0	25	20	273.57
S4X20X55X0P5	20	150	55	0.5	40	20	337.30
S4X20X55X1	20	150	55	1.0	40	20	337.30

WORK MATERIAL / Abbreviation	CARBON STEEL / ALLOY STEEL / PREHARDENED STEEL / TOOL STEEL ~ 40HRC	~ 60HRC	~ 65HRC	STAINLESS STEELS ~ 35HRC	CAST IRON / DUCTILE CAST IRON ~ 350HRB	COPPER ALLOYS	ALUMINUM ALLOYS	HEAT RESISTANT ALLOYS	PLASTIC
SP-LN-CR-EMS	◎	○		○	◎	○	○	○	

KOSG 3 FLUTE FOR ALUMINIUM

AL+MG-ET







CARBIDE 0 −0.015 SHRINK FIT 45°

Unit:mm

EDP NO.	D	L	Lc	d	List Price (USD)
A3F01002	1	40	2	6	20.92
A3F 010 025		40	2.5	6	20.92
A3F 010		50	3	6	22.03
A3F 010 04		60	4	6	24.29
A3F 010 06		60	6	6	24.29
A3F 012	1.2	50	4	6	22.03
A3F 015 03	1.5	40	3	6	20.92
A3F 015		50	6	6	22.03
A3F 015 06		60	8	6	24.29
A3F 015 08		60	10	6	24.29
A3F 015 10		60	12	6	26.69
A3F 020 03	2	40	3	6	20.92
A3F 020		50	6	6	22.03
A3F 020 08		60	8	6	24.29
A3F 020 10		60	10	6	24.29
A3F 020 12		60	12	6	24.29
A3F 025 08	2.5	40	8	6	20.92
A3F 025		55	10	6	24.29
A3F 025 12		60	12	6	24.29
A3F 030 04	3	45	4	6	22.03
A3F 030 08		45	8	6	22.03
A3F 030		55	11	6	24.29
A3F 030 15		65	15	6	26.69
A3F 030 20		70	20	6	27.97
A3F 030 25		75	25	6	29.38
A3F 030 30		80	30	6	30.93
A3F 035	3.5	55	12	6	24.29
A3F 040 05	4	45	5	6	22.03
A3F 040 08		45	8	6	22.03
A3F 040 11		45	11	6	22.03
A3F 040		55	13	6	24.29
A3F 040 16		65	16	6	26.69
A3F 040 20		70	20	6	27.97
A3F 040 26		75	26	6	29.38
A3F 040 30		80	30	6	30.93
A3F 045	4.5	55	15	6	24.29
A3F 050 06	5	45	6	6	22.03
A3F 050		55	17	6	24.29
A3F 050 22		60	22	6	24.29
A3F 050 26		70	26	6	25.56
A3F 050 31		75	31	6	26.69
A3F 050 36		80	36	6	28.11
A3F 050 41		85	41	6	29.38
A3F 050 46		90	46	6	30.93
A3F 055	5.5	55	17	6	22.88
A3F 060 07	6	50	7	6	22.88
A3F 060 13		50	13	6	22.88
A3F 060		60	17	6	24.29
A3F 060 22		60	22	6	24.29
A3F 060 26		70	26	6	25.56
A3F 060 31		75	31	6	26.69
A3F 060 36		80	36	6	28.11
A3F 060 43		90	43	6	30.93
A3F 060 51		100	51	6	33.9
A3F 070	7	65	23	8	34.46
A3F 080 10	8	60	10	8	32.76
A3F 080 20		60	20	8	32.76

Unit:mm

EDP NO.	D	L	Lc	d	List Price (USD)
A3F 080	8	70	23	8	34.46
A3F 080 29		80	29	8	37.86
A3F 080 31		80	31	8	37.86
A3F 080 36		85	36	8	39.69
A3F 080 41		90	41	8	41.66
A3F 080 46		95	46	8	43.79
A3F 080 51		100	51	8	45.92
A3F 080 56		105	56	8	48.31
A3F 080 66		110	66	8	50.72
A3F 090	9	70	28	10	47.88
A3F 100 12	10	65	12	10	45.49
A3F 100 23		65	23	10	45.49
A3F 100		75	28	10	47.88
A3F 100 33		90	33	10	54.95
A3F 100 36		90	36	10	54.95
A3F 100 41		90	41	10	54.95
A3F 100 46		100	46	10	60.45
A3F 100 51		100	51	10	60.45
A3F 100 56		110	56	10	66.53
A3F 100 61		110	61	10	66.53
A3F 100 66		120	66	10	73.17
A3F 120 14	12	70	14	12	60.73
A3F 120 27		70	27	12	60.73
A3F 120		80	33	12	63.98
A3F 120 41		95	41	12	73.46
A3F 120 46		100	46	12	77.12
A3F 120 51		100	51	12	77.12
A3F 120 56		110	56	12	84.89
A3F 120 61		110	61	12	84.89
A3F 120 66		120	66	12	93.38
A3F 120 71		120	71	12	93.38
A3F 120 76		135	76	12	107.5
A3F 140	14	90	38	16	147.89
A3F 160 19	16	90	19	16	147.89
A3F 160 33		90	33	16	147.89
A3F 160		100	43	16	155.8
A3F 160 53		105	53	16	159.62
A3F 160 56		110	56	16	163.58
A3F 160 66		130	66	16	179.96
A3F 160 76		150	76	16	197.76
A3F 160 86		160	86	16	207.65
A3F 160 96		180	96	16	228.55
A3F 160 106		190	106	16	240
A3F 160 116		200	116	16	252.01
A3F 180	18	100	49	16	227.27
A3F 200 23	20	90	23	20	230.53
A3F 200 39		90	39	20	230.53
A3F 200		100	49	20	242.69
A3F 200 56		110	56	20	254.69
A3F 200 66		130	76	20	280.26
A3F 200 76		150	76	20	308.22
A3F 200 86		160	86	20	323.62
A3F 200 96		180	96	20	355.97
A3F 200 106		190	106	20	373.92
A3F 200 116		200	116	20	392.55
A3F 200 126		220	126	20	431.82

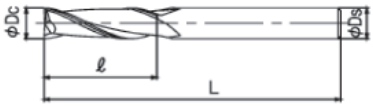
WORK MATERIAL / Abbreviation	CARBON STEELS, PREHARDENED STEELS, ALLOY STEELS, TOOL STEELS ~ 40HRC	PREHARDENED STEELS, HARDENED STEELS ~ 45HRC	~ 55HRC	~ 60HRC	~ 65HRC	STAINLESS STEELS ~ 35HRC	CAST IRON, DUCTILE CAST IRON ~ 350HB	COPPER ALLOYS	ALUMINUM ALLOYS	GRAPHITE	TITANIUM ALLOYS	HEAT RESISTANT ALLOYS	PLASTIC
DUR-PCBT-H	○	◎	◎	○	○	○	○	○	○		○	○	

KOSG 2 FLUTE FOR ALUMINIUM

For Copper and Aluminium Alloys.

AL+MG-ED





CARBIDE · 0 −0.015 · SHRINK FIT · 45°

Unit:mm

EDP NO.	D	L	Lc	d	List Price (USD)
A2F 010	1	50	3	6	20.07
A2F 010 06		60	6	6	22.03
A2F 012	1.2	50	4	6	20.07
A2F 015	1.5	50	5	6	20.07
A2F 015 08		60	8	6	22.03
A2F 020	2	50	6	6	20.07
A2F 020 10		60	10	6	22.03
A2F 025	2.5	55	10	6	22.03
A2F 030	3	55	11	6	22.03
A2F 030 15		65	15	6	24.29
A2F 040	4	55	13	6	22.03
A2F 040 16		65	16	6	24.29
A2F 050	5	55	17	6	22.03
A2F 050 22		60	22	6	22.03
A2F 060	6	60	17	6	22.03

Unit:mm

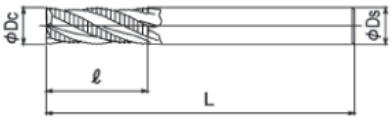
EDP NO.	D	L	Lc	d	List Price (USD)
A2F 060 26	6	70	26	6	23.3
A2F 070	7	65	23	8	31.35
A2F 080	8	70	23	8	31.35
A2F 080 31		80	31	8	34.46
A2F 100	10	75	28	10	43.5
A2F 100 36		90	36	10	50.01
A2F 120	12	80	33	12	58.2
A2F 120 41		95	41	12	66.81
A2F 140	14	90	38	14	99.59
A2F 140 S16		90	38	16	134.47
A2F 160	16	100	43	16	141.67
A2F 160 53		105	53	16	148.73
A2F 180	18	100	49	16	206.66
A2F 200	20	100	49	20	220.65
A2F 200 56		110	56	20	231.51

KOSG 3 FLUTE ROUGHING FOR ALUMINIUM

For Copper and Aluminium Alloys.

AL+MG-REE





CARBIDE · Corner Sharp · SHRINK FIT · 45°

EDP NO.	D	L	Lc	d	List Price (USD)
A3R 060	6	60	15	6	33.05
A3R 060 25		80	25	6	38.42
A3R 080	8	65	20	8	40.81
A3R 080 30		90	30	8	49.16
A3R 100	10	70	25	10	56.51
A3R 100 40		100	40	10	71.47
A3R 120	12	80	30	12	75.72
A3R 120 50		110	50	12	100.3
A3R 140	14	90	35	16	174.88
A3R 160	16	100	42	16	184.21
A3R 160 52		150	52	16	233.92
A3R 180	18	100	45	20	268.66
A3R 200	20	100	48	20	286.89
A3R 200 55		160	55	20	382.53

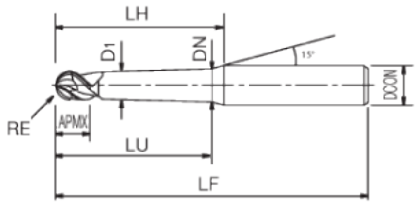
WORK MATERIAL / Abbreviation	CARBON STEEL, ALLOY STEEL, PREHARDENED STEEL, TOOL STEEL ~ 40HRC	~ 60HRC	~ 65HRC	STAINLESS STEELS ~ 35HRC	CAST IRON DUCTILE CAST IRON ~ 350HRB	COPPER ALLOYS	ALUMINUM ALLOYS	HEAT RESISTANT ALLOYS	PLASTIC
AL+MG-ED						◎	◎		○
AL+MG-REE						◎	◎		

Carbide Spiral Fluted
Ballnose Endmill
For High Hardness Steels

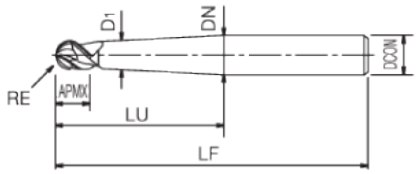
3 FLUTE HIGH-FINISHING PENCIL NECK BALL NOSE END MILL FOR HIGH-HARDNESS STEEL

DUR-PCBT-H

Type 1



Type 2





CARBIDE | DUROREY | ± 0.005 | SHRINK FIT | 45°

Unit:mm

EDP NO.	RE xθn x LU	LH	LF	APMX	DCON	D1	DN	ZEFP	TYPE	List Price (USD)
W2100195	R1X0.4°X12	19.8	60	1.6	2.082	1.95	2.082	3	1	60.8
W2100196	R1X0.4°X16	23.7	60	1.6	2.138	1.95	2.138	3	1	62.3
W2100197	R1X0.4°X20	27.6	60	1.6	2.194	1.95	2.194	3	1	66.43
W2100198	R1X0.4°X22	29.5	70	1.6	2.222	1.95	2.222	3	1	66.43
W2100199	R1X0.4°X26	33.4	70	1.6	2.278	1.95	2.278	3	1	73.74
W2100200	R1X0.4°X30	37.3	70	1.6	2.334	1.95	2.334	3	1	81.09
W2100201	R1X0.4°X32	39.3	80	1.6	2.362	1.95	2.362	3	1	81.09
W2100202	R1X0.4°X34	41.2	80	1.6	2.39	1.95	2.39	3	1	81.09
W2100203	R1X0.4°X40	47.1	80	1.6	2.473	1.95	2.473	3	1	95.87
W2100204	R1X0.9°X12	19.5	60	1.6	2.26	1.95	2.26	3	1	60.8
W2100205	R1X0.9°X16	23.2	60	1.6	2.386	1.95	2.386	3	1	62.3
W2100206	R1X0.9°X20	27.0	60	1.6	2.512	1.95	2.512	3	1	66.43
W2100207	R1X0.9°X26	32.6	70	1.6	2.7	1.95	2.7	3	1	73.74
W2100208	R1X0.9°X30	36.4	70	1.6	2.826	1.95	2.826	3	1	81.09
W2100209	R1X0.9°X36	42.0	80	1.6	3.015	1.95	3.015	3	1	81.09
W2100210	R1X0.9°X40	45.8	80	1.6	3.14	1.95	3.14	3	1	95.87
W2100211	R1X0.9°X50	55.2	100	1.6	3.454	1.95	3.454	3	1	106.89
W2100212	R1X1.4°X16	22.8	60	1.6	2.634	1.95	2.634	3	1	62.3
W2100213	R1X1.4°X20	26.4	60	1.6	2.83	1.95	2.83	3	1	66.43
W2100214	R1X1.4°X26	31.8	70	1.6	3.123	1.95	3.123	3	1	73.74
W2100215	R1X1.4°X30	35.5	70	1.6	3.318	1.95	3.318	3	1	81.09
W2100216	R1X1.4°X40	44.6	80	1.6	3.807	1.95	3.807	3	1	100.66
W2100217	R1X1.9°X62		100	1.6	6	1.95	6	3	2	120.19
W2100218	R1X2.9°X41		80	1.6	6	1.95	6	3	2	113.54
W2100219	R1.5X0.4°X20	25.8	70	2.4	3.14	2.9	3.14	3	1	74.87
W2100220	R1.5X0.4°X26	31.7	70	2.4	3.224	2.9	3.224	3	1	79.91
W2100221	R1.5X0.4°X30	35.6	70	2.4	3.28	2.9	3.28	3	1	91.21
W2100222	R1.5X0.4°X32	37.5	80	2.4	3.308	2.9	3.308	3	1	95.87
W2100223	R1.5X0.4°X40	45.3	80	2.4	3.419	2.9	3.419	3	1	101.43
W2100224	R1.5X0.9°X20	25.3	70	2.4	3.44	2.9	3.44	3	1	74.87
W2100225	R1.5X0.9°X30	34.7	70	2.4	3.755	2.9	3.755	3	1	91.21
W2100226	R1.5X0.9°X40	44.1	80	2.4	4.069	2.9	4.069	3	1	101.43
W2100227	R1.5X0.9°X50	53.5	100	2.4	4.383	2.9	4.383	3	1	116.83
W2100228	R1.5X0.9°X60	62.9	100	2.4	4.697	2.9	4.697	3	1	126.87
W2100229	R1.5X1.4°X40	42.9	80	2.4	4.718	2.9	4.718	3	1	101.43
W2100230	R1.5X1.4°X50	52.0	100	2.4	5.207	2.9	5.207	3	1	113.54
W2100231	R1.5X1.4°X65		100	2.4	6	2.9	6	3	2	126.87
W2100232	R2X0.9°X30	32.9	80	3.2	4.723	3.9	4.723	3	1	89.01
W2100233	R2X0.9°X40	42.3	80	3.2	5.037	3.9	5.037	3	1	115.22
W2100234	R2X0.9°X50	51.7	100	3.2	5.352	3.9	5.352	3	1	126.87
W2100235	R2X0.9°X60	60.8	100	3.2	5.666	3.9	5.666	3	1	134.89
W2100236	R2X1.4°X48		80	3.2	6	3.9	6	3	2	115.22

WORK MATERIAL / Abbreviation	CARBON STEELS PREHARDENED STEELS ALLOY STEELS TOOL STEELS ~ 40HRC	PREHARDENED STEELS HARDENED STEELS ~ 45HRC	~ 55HRC	~ 60HRC	~ 65HRC	STAINLESS STEELS ~ 35HRC	CAST IRON DUCTILE CAST IRON ~ 350HB	COPPER ALLOYS	ALUMINUM ALLOYS	GRAPHITE	TITANIUM ALLOYS	HEAT RESISTANT ALLOYS	PLASTIC
DUR-PCBT-H	○	◎	◎	○	○	○	○	○	○		○	○	

OSG CARBIDE ENDMILL

CARBIDE REAMERS

CARBIDE REAMERS CONTENTS

Page	Abbreviation	Specification	Surface Treatment	Flute	Stocked Size
82-83	CE	SQUARE	FPC	4	1.000～14.050
84-85	CR	SQUARE	Purple	4	1～12.1

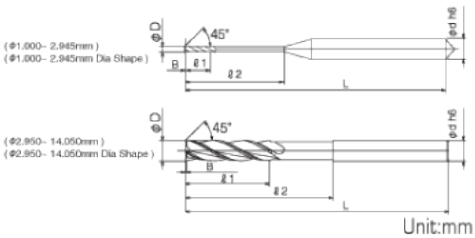
Carbide Reamer For Blind Holes

CE (E-series)

Φ1.000~ Φ4.895mm

Φ4.900~ Φ14.050mm





CARBIDE FPC +0.005 0 45°

Unit:mm

EDP NO.	Dc	L	ß2	ß1	Ds	List Price (USD)	
FCE01000	1.000	50	15	5	3	108.43	
FCE01005	1.005	50	15	5	3	130.09	
FCE01010	1.010	50	15	5	3	130.09	
FCE01015	1.015	50	15	5	3	130.09	
FCE01020	1.020	50	15	5	3	130.09	
FCE01025 ~01095	1.025~1.095	50	15	5	3	130.09	*
FCE01100	1.100	50	16	6	3	130.09	*
FCE01105 ~01195	1.105~1.595	50	16	6	3	130.09	*
FCE01200	1.200	50	16	6	3	119.26	*
FCE01205 ~01295	1.205~1.295	50	16	6	3	130.09	*
FCE01300	1.300	50	16	6	3	119.26	*
FCE01305 ~01395	1.305~1.395	50	16	6	3	130.09	*
FCE01400	1.400	50	16	6	3	119.26	*
FCE01405 ~01495	1.405~1.495	50	16	6	3	130.09	*
FCE01500	1.500	50	16	6	3	119.26	*
FCE01505 ~01595	1.505~1.595	50	16	6	3	130.09	*
FCE01600	1.600	50	18	8	3	119.26	*
FCE01605 ~01695	1.605~1.695	50	18	8	3	130.09	*
FCE01700	1.700	50	18	8	3	119.26	*
FCE01705 ~01795	1.705~1.795	50	18	8	3	130.09	*
FCE01800	1.800	50	18	8	3	119.26	*
FCE01805 ~01895	1.805~1.895	50	18	8	3	130.09	*
FCE01900	1.900	50	18	8	3	119.26	*
FCE01905 ~01985	1.905~1.985	50	18	8	3	130.09	*
FCE01990	1.990	50	18	8	3	130.09	
FCE01995	1.995	50	18	8	3	130.09	
FCE02000	2.000	50	20	10	3	108.43	
FCE02005	2.005	50	20	10	3	130.09	
FCE02010	2.010	50	20	10	3	130.09	
FCE02015	2.015	50	20	10	3	130.09	*
FCE02020	2.020	50	20	10	3	130.09	
FCE02025 ~02095	2.025~2.095	50	20	10	3	130.09	*
FCE02100	2.100	50	20	10	3	119.26	*
FCE02105 ~02195	2.105~2.195	50	20	10	3	130.09	*
FCE02200	2.200	50	20	10	3	119.26	*
FCE02205 ~02295	2.205~2.295	50	20	10	3	130.09	*
FCE02300	2.300	50	20	10	3	119.26	*
FCE02305 ~02395	2.305~2.395	50	20	10	3	130.09	*
FCE02400	2.400	50	20	10	3	119.26	*
FCE02405 ~02495	2.405~2.495	50	20	10	3	130.09	*
FCE02500	2.500	50	20	10	3	119.26	*
FCE02505 ~02595	2.505~2.595	50	20	10	3	130.09	*
FCE02600	2.600	50	20	10	3	119.26	*
FCE02605 ~02695	2.605~2.695	50	20	10	3	130.09	*
FCE02700	2.700	50	20	10	3	119.26	*
FCE02705 ~02795	2.705~2.795	50	20	10	3	130.09	*
FCE02800	2.800	50	20	10	3	119.26	*
FCE02805 ~02895	2.805~2.895	50	20	10	3	130.09	*
FCE02900	2.900	50	20	10	3	119.26	*
FCE02905~02945	2.905~2.945	50	20	10	3	130.09	*
FCE02950 ~02985	2.950~2.985	65	40	20	3	130.09	*
FCE02990	2.990	65	40	20	3	130.09	
FCE02995	2.995	65	40	20	3	130.09	*
FCE03000	3.000	65	40	20	3	116.67	
FCE03005	3.005	65	40	20	3	140	
FCE03010	3.010	65	40	20	3	140	
FCE03015	3.015	65	40	20	3	140	*
FCE03020	3.020	65	40	20	3	140	
FCE03025 ~03095	3.025~3.095	65	40	20	3	140	*
FCE03100	3.100	65	40	20	4	128.33	*
FCE03105 ~03195	3.105~3.195	65	40	20	4	140	*
FCE03200	3.200	65	40	20	4	128.33	*
FCE03205 ~03295	3.205~3.295	65	40	20	4	140	*
FCE03300	3.300	65	40	20	4	128.33	*
FCE03305 ~03395	3.305~3.395	65	40	20	4	140	*
FCE03400	3.400	65	40	20	4	128.33	*
FCE03405~03495	3.405~3.495	65	40	20	4	140	*
FCE03500	3.500	65	40	20	4	128.33	*
FCE03505~03595	3.505~3.595	65	40	20	4	140	*
FCE03600	3.600	65	40	20	4	128.33	*
FCE03605~03695	3.605~3.695	65	40	20	4	140	*
FCE03700	3.700	65	40	20	4	128.33	*
FCE03705~03795	3.705~3.795	65	40	20	4	140	*
FCE03800	3.800	65	40	20	4	128.33	*
FCE03805~03895	3.805~3.895	65	40	20	4	140	*
FCE03900	3.900	65	40	20	4	128.33	*

Unit:mm

EDP NO.	Dc	L	ß2	ß1	Ds	List Price (USD)	
FCE03905~03985	3.905~3.985	65	40	20	4	140	*
FCE03990	3.990	65	40	20	4	140	
FCE03995	3.995	65	40	20	4	140	
FCE04000	4.000	65	40	20	4	131.76	
FCE04005	4.005	65	40	20	4	158.15	
FCE04010	4.010	65	40	20	4	158.15	
FCE04015	4.015	65	40	20	4	158.15	*
FCE04020	4.020	65	40	20	4	158.15	
FCE04025 ~04095	4.025~4.095	65	40	20	4	158.15	*
FCE04100	4.100	75	45	25	5	144.91	*
FCE04105 ~04195	4.105~4.195	75	45	25	5	158.15	*
FCE04200	4.200	75	45	25	5	144.91	*
FCE04205 ~04295	4.205~4.295	75	45	25	5	158.15	*
FCE04300	4.300	75	45	25	5	144.91	*
FCE04305 ~04395	4.305~4.395	75	45	25	5	158.15	*
FCE04400	4.400	75	45	25	5	144.91	*
FCE04405~04495	4.405~4.495	75	45	25	5	158.15	*
FCE04500	4.500	75	45	25	5	144.91	*
FCE04505~04595	4.505~4.595	75	45	25	5	158.15	*
FCE04600	4.600	75	45	25	5	144.91	*
FCE04605~04695	4.605~4.695	75	45	25	5	158.15	*
FCE04700	4.700	75	45	25	5	144.91	*
FCE04705~04795	4.705~4.795	75	45	25	5	158.15	*
FCE04800	4.800	75	45	25	5	144.91	*
FCE04805~04895	4.805~4.895	75	45	25	5	158.15	*
FCE04900	4.900	75	45	25	5	144.91	*
FCE04905~04985	4.905~4.985	75	45	25	5	158.15	*
FCE04990	4.990	75	45	25	5	158.15	
FCE04995	4.995	75	45	25	5	158.15	*
FCE05000	5.000	75	45	25	5	155.28	
FCE05005	5.005	75	45	25	5	186.3	
FCE05010	5.010	75	45	25	5	186.3	
FCE05015	5.015	75	45	25	5	186.3	*
FCE05020	5.020	75	45	25	5	186.3	
FCE05025 ~05095	5.025~5.095	75	45	25	5	186.3	*
FCE05100	5.100	100	65	25	6	170.83	*
FCE05105 ~05195	5.105~5.195	100	65	25	6	186.3	*
FCE05200	5.200	100	65	25	6	170.83	*
FCE05205 ~05295	5.205~5.295	100	65	25	6	186.3	*
FCE05300	5.300	100	65	25	6	170.83	*
FCE05305 ~05395	5.305~5.395	100	65	25	6	186.3	*
FCE05400	5.400	100	65	25	6	170.83	*
FCE05405 ~05495	5.405~5.495	100	65	25	6	186.3	*
FCE05500	5.500	100	65	25	6	170.83	*
FCE05505 ~05595	5.505~5.595	100	65	25	6	186.3	*
FCE05600	5.600	100	65	25	6	170.83	*
FCE05605 ~05695	5.605~5.695	100	65	25	6	186.3	*
FCE05700	5.700	100	65	25	6	170.83	*
FCE05705 ~05795	5.705~5.795	100	65	25	6	186.3	*
FCE05800	5.800	100	65	25	6	170.83	*
FCE05805 ~05895	5.805~5.895	100	65	25	6	186.3	*
FCE05900	5.900	100	65	25	6	170.83	*
FCE05905 ~05985	5.905~5.985	100	65	25	6	186.3	*
FCE05990	5.990	100	65	25	6	186.3	
FCE05995	5.995	100	65	25	6	186.3	
FCE06000	6.000	100	65	25	6	168.33	
FCE06005	6.005	100	65	25	6	202.04	
FCE06010	6.010	100	65	25	6	202.04	
FCE06015	6.015	100	65	25	6	202.04	*
FCE06020	6.020	100	65	25	6	202.04	
FCE06025 ~06095	6.025~6.095	100	65	25	6	202.04	*
FCE06100	6.100	110	70	25	8	185.19	*
FCE06100 ~06105	6.100~6.105	110	70	25	8	202.04	*
FCE06200	6.200	110	70	25	8	185.19	*
FCE06205~06295	6.205~6.95	110	70	25	8	202.04	*
FCE06300	6.300	110	70	25	8	185.19	*
FCE06305~06395	6.305~6.395	110	70	25	8	202.04	*
FCE06400	6.400	110	70	25	8	185.19	*
FCE06405~06495	6.405~6.495	110	70	25	8	202.04	*
FCE06500	6.500	110	70	25	8	185.19	*
FCE06505~06595	6.505~6.595	110	70	25	8	202.04	*
FCE06600	6.600	110	70	25	8	185.19	*
FCE06605~06695	6.605~6.695	110	70	25	8	202.04	*
FCE06700	6.700	110	70	25	8	185.19	*
FCE06705~06795	6.705~6.795	110	70	25	8	202.04	*

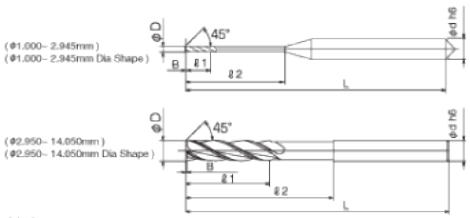
* non-stock sizes, please check with sales representative

WORK MATERIAL / Abbreviation	MILD STEELS	CARBON STEELS	ALLOY STEELS	TOOL STEELS	STAINLESS STEELS	QUENCED AND TEMPERED STEELS			CAST IRON	COPPER ALLOYS	ALUMINUM ALLOY	TITANIUM ALLOY
						~ 40HRC	~ 50HRC	~ 60HRC				
CE	○	◎	◎	◎	○	○	○		◎	○	○	

CARBIDE REAMER

F.P. 4 FLUTE CARBIDE REAMER

CE (E-series)



Φ1.000~ Φ4.895mm

Φ4.900~ Φ14.050mm



CARBIDE FPC +0.005 0 45°

Unit:mm

EDP NO.	Dc	L	ℓ2	ℓ1	Ds	List Price (USD)	
FCE06800	6.800	110	70	25	8	185.19	*
FCE06805~06895	6.805~6.895	110	70	25	8	202.04	*
FCE06900	6.900	110	70	25	8	185.19	*
FCE06905~06995	6.905~6.995	110	70	25	8	202.04	*
FCE07000	7.000	110	70	25	8	209.72	*
FCE07005~07095	7.005~7.095	110	70	25	8	251.67	*
FCE07100	7.100	125	85	25	8	230.74	*
FCE07105~07195	7.105~7.195	125	85	25	8	251.67	*
FCE07200	7.200	125	85	25	8	230.74	*
FCE07205~07295	7.205~7.295	125	85	25	8	251.67	*
FCE07300	7.300	125	85	25	8	230.74	*
FCE07305~07395	7.305~7.395	125	85	25	8	251.67	*
FCE07400	7.400	125	85	25	8	230.74	*
FCE07405~07495	7.405~7.495	125	85	25	8	251.67	*
FCE07500	7.500	125	85	25	8	230.74	*
FCE07505~07595	7.505~7.595	125	85	25	8	251.67	*
FCE07600	7.600	125	85	25	8	230.74	*
FCE07605~07695	7.605~7.695	125	85	25	8	251.67	*
FCE07700	7.700	125	85	25	8	230.74	*
FCE07705~07795	7.705~7.795	125	85	25	8	251.67	*
FCE07800	7.800	125	85	25	8	230.74	*
FCE07805~07895	7.805~7.895	125	85	25	8	251.67	*
FCE07900	7.900	125	85	25	8	230.74	*
FCE07905~07995	7.905~7.995	125	85	25	8	251.67	*
FCE08000	8.000	125	85	25	8	209.72	
FCE08005	8.005	125	85	25	8	251.67	
FCE08010	8.010	125	85	25	8	251.67	
FCE08015~08095	8.015~8.095	125	85	25	8	251.67	*
FCE08100	8.100	135	90	25	10	230.74	*
FCE08105~08195	8.105~8.195	135	90	25	10	251.67	*
FCE08200	8.200	135	90	25	10	230.74	*
FCE08205~08295	8.205~8.295	135	90	25	10	251.67	*
FCE08300	8.300	135	90	25	10	230.74	*
FCE08305~08395	8.305~8.395	135	90	25	10	251.67	*
FCE08400	8.400	135	90	25	10	230.74	*
FCE08405~08495	8.405~8.495	135	90	25	10	251.67	*
FCE08500	8.500	135	90	25	10	230.74	*
FCE08505~08595	8.505~8.595	135	90	25	10	251.67	*
FCE08600	8.600	135	90	25	10	230.74	*
FCE08605~08695	8.605~8.695	135	90	25	10	251.67	*
FCE08700	8.700	135	90	25	10	230.74	*
FCE08705~08795	8.705~8.795	135	90	25	10	251.67	*
FCE08800	8.800	135	90	25	10	230.74	*
FCE08805~08895	8.805~8.895	135	90	25	10	251.67	*
FCE08900	8.900	135	90	25	10	230.74	*
FCE08905~08995	8.905~8.995	135	90	25	10	251.67	*
FCE09000	9.000	135	90	25	10	228.89	*
FCE09005~09095	9.005~9.095	135	90	25	10	274.63	*
FCE09100	9.100	150	100	30	10	251.76	*
FCE09105~09195	9.105~9.195	150	100	30	10	274.63	*
FCE09200	9.200	150	100	30	10	251.76	*
FCE09205~09295	9.205~9.295	150	100	30	10	274.63	*
FCE09300	9.300	150	100	30	10	251.76	*
FCE09305~09395	9.305~9.395	150	100	30	10	274.63	*
FCE09400	9.400	150	100	30	10	251.76	*
FCE09405~09495	9.405~9.495	150	100	30	10	274.63	*
FCE09500	9.500	150	100	30	10	251.76	*
FCE09505~09595	9.505~9.595	150	100	30	10	274.63	*
FCE09600	9.600	150	100	30	10	251.76	*
FCE09605~09695	9.605~9.695	150	100	30	10	274.63	*
FCE09700	9.700	150	100	30	10	251.76	*
FCE09705~09795	9.705~9.795	150	100	30	10	274.63	*
FCE09800	9.800	150	100	30	10	251.76	*
FCE09805~09895	9.805~9.895	150	100	30	10	274.63	*
FCE09900	9.900	150	100	30	10	251.76	*
FCE09905~09995	9.905~9.995	150	100	30	10	274.63	*
FCE10000	10.000	150	100	30	10	249.81	
FCE10005	10.005	150	100	30	10	299.81	
FCE10010	10.010	150	100	30	10	299.81	
FCE10015~10095	10.015~10.095	150	100	30	10	299.81	*
FCE10100	10.100	160	105	30	12	274.81	*
FCE10105~10195	10.105~10.195	160	105	30	12	299.81	*
FCE10200	10.200	160	105	30	12	274.81	*
FCE10205~10295	10.205~10.295	160	105	30	12	299.81	*
FCE10300	10.300	160	105	30	12	274.81	*

Unit:mm

EDP NO.	Dc	L	ℓ2	ℓ1	Ds	List Price (USD)	
FCE10305~10395	10.305~10.395	160	105	30	12	299.81	*
FCE10400	10.400	160	105	30	12	274.81	*
FCE10405~10495	10.405~10.495	160	105	30	12	299.81	*
FCE10500	10.500	160	105	30	12	274.81	*
FCE10505~10595	10.505~10.595	160	105	30	12	299.81	*
FCE10600	10.600	160	105	30	12	274.81	*
FCE10605~10695	10.605~10.695	160	105	30	12	299.81	*
FCE10700	10.700	160	105	30	12	274.81	*
FCE10705~10795	10.705~10.795	160	105	30	12	299.81	*
FCE10800	10.800	160	105	30	12	274.81	*
FCE10805~10895	10.805~10.895	160	105	30	12	299.81	*
FCE10900	10.900	160	105	30	12	274.81	*
FCE10905~10995	10.905~10.995	160	105	30	12	299.81	*
FCE11000	11.000	160	105	30	12	268.70	*
FCE11005~11095	11.005~11.095	160	105	30	12	322.41	*
FCE11100	11.100	160	105	30	12	295.56	*
FCE11105~11195	11.105~11.195	160	105	30	12	322.41	*
FCE11200	11.200	160	105	30	12	295.56	*
FCE11205~11295	11.205~11.295	160	105	30	12	322.41	*
FCE11300	11.300	160	105	30	12	295.56	*
FCE11305~11395	11.300~11.395	160	105	30	12	322.41	*
FCE11400	11.400	160	105	30	12	295.56	*
FCE11405~11495	11.405~11.495	160	105	30	12	322.41	*
FCE11500	11.500	160	105	30	12	295.56	*
FCE11505~11595	11.505~11.595	160	105	30	12	322.41	*
FCE11600	11.600	160	105	30	12	295.56	*
FCE11605~11695	11.605~11.695	160	105	30	12	322.41	*
FCE11700	11.700	160	105	30	12	295.56	*
FCE11705~11795	11.705~11.795	160	105	30	12	322.41	*
FCE11800	11.800	160	105	30	12	322.41	*
FCE11805~11895	11.805~11.895	160	105	30	12	322.41	*
FCE11900	11.900	160	105	30	12	295.56	*
FCE11905~11995	11.905~11.995	160	105	30	12	322.41	*
FCE12000	12.000	160	105	30	12	287.87	*
FCE12005~12095	12.005~12.095	160	105	30	12	345.46	*
FCE12100	12.100	170	115	30	12	316.67	*
FCE12105~12195	12.105~12.195	170	115	30	12	345.46	*
FCE12200	12.200	170	115	30	12	316.67	*
FCE12205~12295	12.205~12.295	170	115	30	12	345.46	*
FCE12300	12.300	170	115	30	12	316.67	*
FCE12305~12395	12.305~12.395	170	115	30	12	345.46	*
FCE12400	12.400	170	115	30	12	316.67	*
FCE12405~12495	12.405~12.495	170	115	30	12	345.46	*
FCE12500	12.500	170	115	30	12	316.67	*
FCE12505~12595	12.505~12.595	170	115	30	12	345.46	*
FCE12600	12.600	170	115	30	12	316.67	*
FCE12605~12695	12.605~12.695	170	115	30	12	345.46	*
FCE12700	12.700	170	115	30	12	316.67	*
FCE12705~12795	12.705~12.795	170	115	30	12	345.46	*
FCE12800	12.800	170	115	30	12	316.67	*
FCE12805~12895	12.805~12.895	170	115	30	12	345.46	*
FCE12900	12.900	170	115	30	12	316.67	*
FCE12905~12995	12.905~12.995	170	115	30	12	345.46	*
FCE13000	13.000	170	115	30	12	306.67	*
FCE13005~13095	13.005~13.095	170	115	30	12	367.96	*
FCE13100	13.100	170	115	30	16	337.31	*
FCE13105~13195	13.105~13.195	170	115	30	16	367.96	*
FCE13200	13.200	170	115	30	16	337.31	*
FCE13205~13295	13.205~13.295	170	115	30	16	367.96	*
FCE13300	13.300	170	115	30	16	337.31	*
FCE13305~13395	13.305~13.395	170	115	30	16	367.96	*
FCE13400	13.400	170	115	30	16	337.31	*
FCE13405~13495	13.405~13.495	170	115	30	16	367.96	*
FCE13500	13.500	170	115	30	16	337.31	*
FCE13505~13595	13.505~13.595	170	115	30	16	367.96	*
FCE13600	13.600	170	115	30	16	337.31	*
FCE13605~13695	13.605~13.695	170	115	30	16	367.96	*
FCE13700	13.700	170	115	30	16	337.31	*
FCE13705~13795	13.705~13.795	170	115	30	16	367.96	*
FCE13800	13.800	170	115	30	16	337.31	*
FCE13805~13895	13.805~13.895	170	115	30	16	367.96	*
FCE13900	13.900	170	115	30	16	337.31	*
FCE13905~13995	13.905~13.995	170	115	30	16	367.96	*
FCE14000	14.000	170	115	30	16	326.11	*
FCE14005~14050	14.005~14.050	170	115	30	16	391.30	*

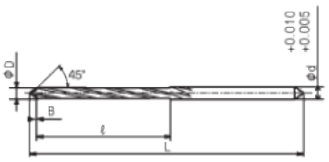
* non-stock sizes, please check with sales representative

WORK MATERIAL / Abbreviation	MILD STEELS	CARBON STEELS	ALLOY STEELS	TOOL STEELS	STAINLESS STEELS	QUENCED AND TEMPERED STEELS			CAST IRON	COPPER ALLOYS	ALUMINUM ALLOY	TITANIUM ALLOY
						~ 40HRC	~ 50HRC	~ 60HRC				
CE	○	◎	◎	◎	○	○	○		◎	○	○	

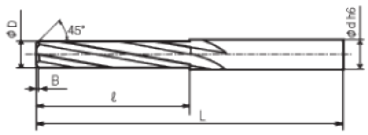
Carbide Reamer for Hardened steels & Difficult-to-Out Materials.

CR (R Series)





(φ1.00㎜~φ2.90㎜)
(φ1.00㎜ - φ2.90㎜ Dia. shape)



(φ2.91㎜~φ12.10㎜)
(φ2.91㎜ - φ12.10㎜ Dia. shape)

Right hand spiral

CARBIDE | PURPLE COATING | +0.007 0 | 45°

Unit:mm

EDP NO.	Dc	L	ℓ	Ds	List Price (USD)	
FCR01000	1.00	50	15	1	131.76	
FCR01010	1.01	50	15	1.5	140.74	
FCR01020	1.02	50	15	1.5	140.74	
FCR01030~FCR01090	1.03~1.09	50	15	1.5	140.74	*
FCR01100	1.10	50	15	1.5	117.13	*
FCR01110~FCR01190	1.10~1.19	50	15	1.5	140.74	*
FCR01200	1.20	50	15	1.5	117.13	*
FCR01210~FCR01290	1.21~1.29	50	15	1.5	140.74	*
FCR01300	1.30	50	15	1.5	117.13	*
FCR01310~FCR01390	1.31~1.39	50	15	1.5	140.74	*
FCR01400	1.40	50	15	1.5	117.13	*
FCR01410~FCR01490	1.41~1.49	50	15	1.5	140.74	*
FCR01500	1.50	50	15	1.5	117.13	*
FCR01510~FCR01590	1.51~1.59	60	25	1.5	127.69	*
FCR01600	1.60	60	25	2	106.3	*
FCR01610~FCR01690	1.61~1.69	60	25	2	127.69	*
FCR01700	1.70	60	25	2	106.3	*
FCR01710~FCR01790	1.71~1.79	60	25	2	127.69	*
FCR01800	1.80	60	25	2	106.3	*
FCR01810~FCR01890	1.81~1.89	60	25	2	127.69	*
FCR01900	1.90	60	25	2	106.3	*
FCR01910~FCR01980	1.91~1.989	60	25	2	127.69	*
FCR01990	1.99	60	25	2	127.69	
FCR02000	2.00	60	25	2	96.67	
FCR02010	2.01	70	30	2.5	109.81	
FCR02020	2.02	70	30	2.5	109.81	
FCR02030~FCR02090	2.03~2.09	70	30	2.5	109.81	*
FCR02100	2.10	70	30	2.5	91.48	*
FCR02110~FCR02190	2.11~2.19	70	30	2.5	109.81	*
FCR02200	2.20	70	30	2.5	91.48	*
FCR02210~FCR02290	2.21~2.29	70	30	2.5	109.81	*
FCR02300	2.30	70	30	2.5	91.48	*
FCR02310~FCR02390	2.31~2.39	70	30	2.5	109.81	*
FCR02400	2.40	70	30	2.5	91.48	*
FCR02410~FCR02490	2.41~2.49	70	30	2.5	109.81	*
FCR02500	2.50	70	30	2.5	91.48	*
FCR02510~FCR02590	2.51~2.59	70	35	3	101.39	*
FCR02600	2.60	70	35	3	84.44	*
FCR02610~FCR02690	2.61~2.69	70	35	3	101.39	*
FCR02700	2.70	70	35	3	84.44	*
FCR02710~FCR02790	2.71~2.79	70	35	3	101.39	*
FCR02800	2.80	70	35	3	84.44	*
FCR02810~FCR02890	2.81~2.89	70	35	3	101.39	*
FCR02900	2.90	70	35	3	84.44	*
FCR02910~FCR02980	2.91~2.98	80	40	3	101.39	*
FCR02990	2.99	80	40	3	101.39	
FCR03000	3.00	80	40	3	70.19	
FCR03010	3.01	80	40	4	95.93	
FCR03200	3.02	80	40	4	79.81	
FCR03030~FCR03090	3.03~3.09	80	40	4	95.93	*
FCR03100	3.10	80	40	4	79.81	*
FCR03110~FCR03190	3.11~3.19	80	40	4	95.93	*
FCR03200	3.20	80	40	4	79.81	*
FCR03210~FCR03290	3.21~3.29	80	40	4	95.93	*
FCR03300	3.30	80	40	4	79.81	*
FCR03310~FCR03390	3.31~3.39	80	40	4	95.93	*
FCR03400	3.40	80	40	4	79.81	*
FCR03410~FCR03490	3.41~3.49	80	40	4	95.93	*
FCR03500	3.50	80	40	4	79.81	*
FCR03510~FCR03590	3.51~3.59	80	40	4	98.89	*
FCR03600	3.60	80	40	4	82.31	*

Unit:mm

EDP NO.	Dc	L	ℓ	Ds	List Price (USD)	
FCR03610~FCR03690	3.61~3.69	80	40	4	98.89	*
FCR03700	3.70	80	40	4	82.31	*
FCR03710~FCR3790	3.71~3.79	80	40	4	98.89	*
FCR03800	3.80	80	40	4	82.31	*
FCR03810~FCR03890	3.81~3.89	80	40	4	98.89	*
FCR03900	3.90	80	40	4	82.31	*
FCR03910~FCR03980	3.91~3.98	80	40	4	98.89	*
FCR03990	3.99	80	40	4	98.89	
FCR04000	4.00	80	40	4	82.31	
FCR04010	4.01	80	40	6	110.56	
FCR04020	4.02	80	40	6	110.56	
FCR04030~FCR04090	4.03~4.09	80	40	6	110.56	*
FCR04100	4.10	80	40	6	91.94	*
FCR04110~FCR04190	4.11~4.19	80	40	6	110.56	*
FCR04200	4.20	80	40	6	91.94	*
FCR04210~FCR04290	4.21~4.29	80	40	6	110.56	*
FCR04300	4.30	80	40	6	91.94	*
FCR04310~FCR04390	4.31~4.39	80	40	6	110.56	*
FCR04400	4.40	80	40	6	91.94	*
FCR04410~FCR04490	4.41~4.49	80	40	6	110.56	*
FCR04500	4.50	80	40	6	91.94	*
FCR04510~FCR04590	4.51~4.59	80	40	6	118.33	*
FCR04600	4.60	80	40	6	98.61	*
FCR04610~FCR04690	4.61~4.69	80	40	6	118.33	*
FCR04700	4.70	80	40	6	98.61	*
FCR04710~FCR4790	4.61~4.71	80	40	6	118.33	*
FCR04800	4.80	80	40	6	98.61	*
FCR04810~FCR04890	4.61~4.73	80	40	6	118.33	*
FCR04900	4.90	80	40	6	98.61	*
FCR04910~FCR04980	4.61~4.75	80	40	6	118.33	*
FCR04990	4.99	80	40	6	118.33	
FCR05000	5.00	80	40	6	98.61	
FCR05010	5.01	100	50	6	136.2	
FCR05020	5.02	100	50	6	136.2	
FCR05030~FCR05090	5.03~5.09	100	50	6	136.2	*
FCR05100	5.10	100	50	6	113.43	*
FCR05110~FCR05190	5.11~5.19	100	50	6	136.2	*
FCR05200	5.20	100	50	6	113.43	*
FCR05210~FCR05290	5.21~5.29	100	50	6	136.2	*
FCR05300	5.30	100	50	6	113.43	*
FCR05310~FCR05390	5.31~5.39	100	50	6	136.2	*
FCR05400	5.40	100	50	6	113.43	*
FCR05410~FCR05490	5.41~5.49	100	50	6	136.2	*
FCR05500	5.50	100	50	6	113.43	*
FCR05510~FCR05590	5.51~5.59	100	50	6	141.67	*
FCR05600	5.60	100	50	6	118.06	*
FCR05610~FCR5690	5.61~5.90	100	50	6	141.67	*
FCR5700	5.70	100	50	6	118.06	*
FCR5710~FCR5790	5.71~5.79	100	50	6	141.67	*
FCR5800	5.80	100	50	6	118.06	*
FCR5810~FCR5890	5.80~5.89	100	50	6	141.67	*
FCR5900	5.90	100	50	6	118.06	*
FCR5910~FCR5980	5.91~5.98	100	50	6	141.67	*
FCR05990	5.99	100	50	6	141.67	
FCR06000	6.00	100	50	6	118.06	
FCR06010	6.01	100	50	8	165.19	
FCR06020	6.02	100	50	8	165.19	
FCR06030~FCR06090	6.03~6.09	100	50	8	165.19	*
FCR06100	6.10	100	50	8	137.59	*
FCR06110~FCR06190	6.11~6.19	100	50	8	165.19	*

* non-stock sizes, please check with sales representative

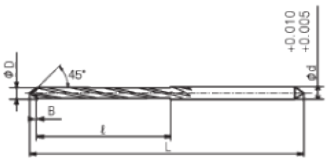
WORK MATERIAL / Abbreviation	MILD STEELS	CARBON STEELS	ALLOY STEELS	TOOL STEELS	STAINLESS STEELS	QUENCED AND TEMPERED STEELS			CAST IRON	COPPER ALLOYS	ALUMINUM ALLOY	TITANIUM ALLOY
						~ 40HRC	~ 50HRC	~ 60HRC				
CR				◎	◎		◎	◎			○	○

Carbide Reamer for Hardened steels & Difficult-to-Out Materials.

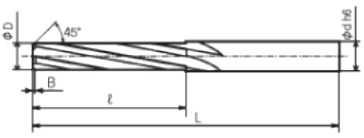
4 FLUTE CARBIDE REAMER

CR (R Series)





(φ1.00㎜~φ2.90㎜)
(φ1.00㎜ - φ2.90㎜ Dia. shape)



(φ2.91㎜~φ12.10㎜)
(φ2.91㎜ - φ12.10㎜ Dia. shape)

Right hand spiral

CARBIDE | PURPLE COATING | +0.007 0 | 45°

Unit:mm

EDP NO.	Dc	L	ℓ	Ds	List Price (USD)	
FCR06200	6.20	100	50	8	137.59	*
FCR06210~FCR06290	6.21~6.29	100	50	8	165.19	*
FCR06300	6.30	100	50	8	137.59	*
FCR06310~FCR06390	6.31~6.39	100	50	8	165.19	*
FCR06400	6.40	100	50	8	137.59	*
FCR06410~FCR06490	6.41~6.49	100	50	8	165.19	*
FCR06500	6.50	100	50	8	137.59	*
FCR06510~FCR06590	6.51~6.59	100	50	8	178.33	*
FCR06600	6.60	100	50	8	148.61	*
FCR06610~FCR06690	6.61~6.69	100	50	8	178.33	*
FCR06700	6.70	100	50	8	148.61	*
FCR06710~FCR06790	6.71~6.79	100	50	8	178.33	*
FCR06800	6.80	100	50	8	148.61	*
FCR06810~FCR06890	6.81~6.89	100	50	8	178.33	*
FCR06900	6.90	100	50	8	148.61	*
FCR06910~FCR06990	6.91~6.99	100	50	8	178.33	*
FCR07000	7.00	100	50	8	148.61	*
FCR07010~FCR07090	7.01~7.09	100	50	8	218.15	*
FCR07100	7.10	100	50	8	181.67	*
FCR07110~FCR07190	7.11~7.19	100	50	8	218.15	*
FCR07200	7.20	100	50	8	181.67	*
FCR07210~FCR07290	7.21~7.29	100	50	8	218.15	*
FCR07300	7.30	100	50	8	181.67	*
FCR07310~FCR07390	7.31~7.39	100	50	8	218.15	*
FCR07400	7.40	100	50	8	181.67	*
FCR07410~FCR07490	7.41~7.49	100	50	8	218.15	*
FCR07500	7.50	100	50	8	181.67	*
FCR07510~FCR07590	7.51~7.59	100	50	8	237.87	*
FCR07600	7.60	100	50	8	198.24	*
FCR07610~FCR07690	7.61~7.69	100	50	8	237.87	*
FCR07700	7.70	100	50	8	198.24	*
FCR07710~FCR07790	7.71~7.79	100	50	8	237.87	*
FCR07800	7.80	100	50	8	198.24	*
FCR07810~FCR07890	7.81~7.89	100	50	8	237.87	*
FCR07900	7.90	100	50	8	198.24	*
FCR07910~FCR07990	7.91~7.99	100	50	8	237.87	*
FCR08000	8.00	100	50	8	198.24	
FCR08010	8.01	115	60	10	257.78	
FCR08020~FCR08090	8.02~8.09	115	60	10	320.46	*
FCR08100	8.10	115	60	10	214.72	*
FCR08110~FCR08190	8.11~8.19	115	60	10	320.46	*
FCR08200	8.20	115	60	10	214.72	*
FCR08210~FCR08290	8.21~8.29	115	60	10	320.46	*
FCR08300	8.30	115	60	10	214.72	*
FCR08310~FCR08390	8.31~8.39	115	60	10	320.46	*
FCR08400	8.40	115	60	10	214.72	*
FCR08410~FCR08490	8.41~8.49	115	60	10	320.46	*
FCR08500	8.50	115	60	10	214.72	*
FCR08510~FCR08590	8.51~8.59	115	60	10	320.46	*
FCR08600	8.60	115	60	10	267.04	*
FCR08610~FCR08690	8.61~8.69	115	60	10	320.46	*
FCR08700	8.70	115	60	10	267.04	*
FCR08710~FCR08790	8.71~8.79	115	60	10	320.46	*
FCR08800	8.80	115	60	10	267.04	*
FCR08810~FCR08890	8.81~8.89	115	60	10	320.46	*
FCR08900	8.90	115	60	10	267.04	*
FCR08910~FCR08990	8.91~8.99	115	60	10	320.46	*
FCR0900	9.00	115	60	10	360.09	*
FCR09010~FCR09090	9.01~9.09	115	60	10	360.09	*
FCR09100	9.10	115	60	10	289.07	*

Unit:mm

EDP NO.	Dc	L	ℓ	Ds	List Price (USD)	
FCR09110~FCR09190	9.11~9.19	115	60	10	360.09	*
FCR09200	9.20	115	60	10	289.07	*
FCR09210~FCR09290	9.21~9.29	115	60	10	360.09	*
FCR09300	9.30	115	60	10	289.07	*
FCR09310~FCR09390	9.31~9.39	115	60	10	360.09	*
FCR09400	9.40	115	60	10	289.07	*
FCR09410~FCR09490	9.41~9.49	115	60	10	360.09	*
FCR09500	9.50	115	60	10	289.07	*
FCR09510~FCR09590	9.51~9.59	115	60	10	360.09	*
FCR09600	9.60	115	60	10	300.09	*
FCR09610~FCR09690	9.61~9.69	115	60	10	360.09	*
FCR09700	9.70	115	60	10	300.09	*
FCR09710~FCR09790	9.71~9.79	115	60	10	360.09	*
FCR09800	9.80	115	60	10	300.09	*
FCR09810~FCR09890	9.81~9.89	115	60	10	360.09	*
FCR09900	9.90	115	60	10	300.09	*
FCR09910~FCR09990	9.91~9.99	115	60	10	360.09	*
FCR10000	10.00	115	60	10	300.09	
FCR10010	10.01	115	65	12	373.33	
FCR10020~FCR10090	10.02~10.09	115	65	12	373.33	*
FCR10100	10.10	115	65	12	311.02	*
FCR10110~FCR10190	10.11~10.19	115	65	12	373.33	*
FCR10200	10.20	115	65	12	311.02	*
FCR10210~FCR10290	10.21~10.29	115	65	12	373.33	*
FCR10300	10.30	115	65	12	311.02	*
FCR10310~FCR10390	10.31~10.39	115	65	12	373.33	*
FCR10400	10.40	115	65	12	311.02	*
FCR10410~FCR10490	10.41~10.49	115	65	12	373.33	*
FCR10500	10.50	115	65	12	311.02	*
FCR10510~FCR10590	10.51~10.59	115	65	12	380.00	*
FCR10600	10.60	115	65	12	316.57	*
FCR10610~FCR10690	10.61~10.69	115	65	12	380.00	*
FCR10700	10.70	115	65	12	316.57	*
FCR10710~FCR10790	10.71~10.79	115	65	12	380.00	*
FCR10800	10.80	115	65	12	316.57	*
FCR10810~FCR10890	10.81~10.89	115	65	12	380.00	*
FCR10900	10.90	115	65	12	316.57	*
FCR10910~FCR10990	10.91~10.99	115	65	12	380.00	*
FCR11000	11.00	115	65	12	316.57	*
FCR11010~FCR11090	11.01~11.09	130	65	12	396.39	*
FCR11100	11.10	130	65	12	330.28	*
FCR11110~FCR11190	11.11~11.19	130	65	12	396.39	*
FCR11200	11.20	130	65	12	330.28	*
FCR11210~FCR11290	11.21~11.29	130	65	12	396.39	*
FCR11300	11.30	130	65	12	330.28	*
FCR11310~FCR11390	11.31~11.39	130	65	12	396.39	*
FCR11400	11.40	130	65	12	330.28	*
FCR11410~FCR11490	11.41~11.49	130	65	12	396.39	*
FCR11500	11.50	130	65	12	330.28	*
FCR11510~FCR11590	11.51~11.59	130	65	12	422.78	*
FCR11600	11.60	130	65	12	352.31	*
FCR11610~FCR11690	11.61~11.69	130	65	12	422.78	*
FCR11700	11.70	130	65	12	352.31	*
FCR11710~FCR11790	11.71~11.79	130	65	12	422.78	*
FCR11800	11.80	130	65	12	352.31	*
FCR11810~FCR11890	11.81~11.89	130	65	12	422.78	*
FCR11900	11.90	130	65	12	352.31	*
FCR11910~FCR11990	11.91~11.99	130	65	12	422.78	*
FCR12000	12.00	130	65	12	352.31	*
FCR12100	12.10	130	65	12	352.31	*

* non-stock sizes, please check with sales representative

WORK MATERIAL / Abbreviation	MILD STEELS	CARBON STEELS	ALLOY STEELS	TOOL STEELS	STAINLESS STEELS	QUENCED AND TEMPERED STEELS			CAST IRON	COPPER ALLOYS	ALUMINUM ALLOY	TITANIUM ALLOY
						~ 40HRC	~ 50HRC	~ 60HRC				
CR				◎	◎		◎	◎			○	○

HY-PRO HSS END MILLS

HY-PRO HSS END MILLS CONTENTS

Page	Abbreviation	Specification	Surface Treatment	Flute	Stocked Size
88	HY-PRO V-CC-EMS	Square	V	4	2.5～32
	HY-PRO V-REES	Roughing	V	4	6～32
89	HY-PRO V-EBD	Ball Nose	V	2	R0.5～R16
	HY-PRO EDS	Square	-	2	1～32
90	HY-PRO EDL	Square	-	2	3～32
	HY-PRO CC-EMS	Square	-	4	2～32
91	HYP-PRO CC-EML	Square	-	4	3～32
	HY-PRO EBD	Ball Nose	-	2	R0.5～R16
92	HYP-PRO EX-REES	Roughing	-	4	6～32
	HYP-PRO EX-REEL	Roughing		4	6～28

HY-PRO HSS-Co.8
4 FLUTE SHORT WITH V COATING

HY-PRO V-CC-EMS





HSS-Co V

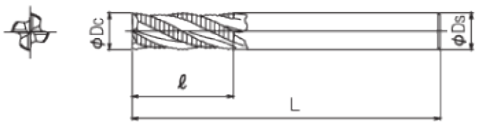
Unit:mm

EDP NO.	Dc	L	ℓ	Ds	List Price (USD)	
H688205	2.5	50	10	6	16.87	*
H688207	3.5	60	12	8	16.87	*
H688208	4	60	12	8	13.95	*
H688209	4.5	60	15	8	16.87	*
H688211	5.5	60	15	8	16.87	*
H688212	6	60	15	8	13.95	
H688213	6.5	60	20	10	19.56	*
H688215	7.5	60	20	10	19.56	*
H688216	8	60	20	10	17.16	
H688217	8.5	70	25	10	21.24	*
H688219	9.5	70	25	10	21.24	*
H688220	10	70	25	10	19.22	
H688221	11	80	30	12	25.58	*
H688222	12	80	30	12	25.73	
H688223	13	85	35	12	32.48	*
H688225	15	95	40	16	36.08	*
H688226	16	95	40	16	38.89	
H688227	17	95	40	16	46.28	*
H688229	19	110	45	20	55.4	*
H688230	20	110	45	20	55.4	
H688234	24	120	50	25	86.75	*
H688235	25	120	50	25	86.75	
H688238	28	125	55	25	96.95	*
H688240	30	125	55	25	118	*
H688242	32	145	60	32	164.13	*

HY-PRO HSS-Co.8
ROUGHING SHORT WITH V COATING

HY-PRO V-REES





HSS-Co V

Unit:mm

EDP NO.	Dc	L	ℓ	Ds	List Price (USD)	
H681506	6	57	13	6	33.3	
H681507	7	66	16	10	35.21	
H681508	8	69	19	10	35.21	
H681509	9	69	19	10	39.57	*
H681510	10	72	22	10	39.57	
H681511	11	79	22	12	51.83	*
H681512	12	83	26	12	51.83	
H681513	13	83	26	12	62.49	*
H681516	16	92	32	16	68.51	
H681520	20	104	38	20	96.31	
H681522	22	104	38	20	114.19	*
H681525	25	121	45	25	140.11	*
H681528	28	121	45	25	173.97	*
H681532	32	133	53	32	259.47	*

HY-PRO HSS END MILLS

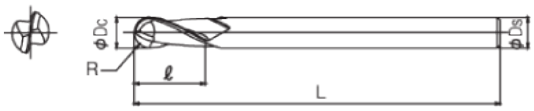
* for stock availability please check with sales representative

WORK MATERIAL / Abbreviation	CARBON STEELS PREHARDENED STEELS ALLOY STEELS TOOL STEELS ~ 40HRC	PREHARDENED STEELS HARDENED STEELS ~ 45HRC	STAINLESS STEELS ~ 35HRC	CAST IRON DUCTILE CASTIRON ~ 350HB	COPPER ALLOYS	ALUMINUM ALLOYS
V-CC-EMS	◎		◎	◎	○	○
V-REES	◎		◎	◎	○	○

HY-PRO HSS-Co.8
4 FLUTE SHORT WITH V COATING

HY-PRO V-EBD





Unit:mm

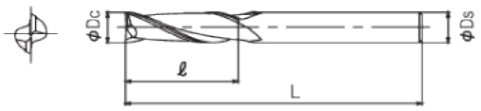
EDP NO.	Dc	L	ℓ	Ds	List Price (USD)
H683061	R0.5x1	50	2.5	6	41.98
H683062	R1x2	50	5	6	29.96
H683063	R1.5x3	60	8	6	26.95
H683064	R2x4	70	8	6	26.95
H683065	R2.5x5	80	10	6	26.95
H683066	R3x6	90	12	6	26.95
H683067	R3.5x7	90	14	6	28.33
H683068	R4x8	100	14	8	28.33
H683069	R4.5x9	100	18	8	35.66
H683070	R5x10	100	18	10	35.66
H683071	R5.5x11	100	22	10	44.69
H683072	R6x12	110	22	12	44.69
H683073	R6.5x13	110	26	12	49.12
H683074	R7x14	110	26	12	49.12
H683075	R7.5x15	110	30	12	58.31
H683076	R8x16	140	30	16	66.04
H683078	R9x18	140	34	16	76.14
H683080	R10x20	160	38	20	91.06
H683085	R12.5x25	180	50	25	132.56
H683090	R15x30	180	55	25	183.33
H683092	R16x32	180	60	32	228.66

✻ For HY-PRO V-EDP stock availability please check with sales representative

HY-PRO HSS-Co.8
2 FLUTE SHORT

HY-PRO EDS





Unit:mm

EDP NO.	Dc	L	ℓ	Ds	List Price (USD)	
H80001	1	45	2.5	6	16.95	✻
H80004	2	50	5	6	11.91	
H80005	2.5	50	6	6	12.77	
H80006	3	50	8	6	10.52	
H80007	3.5	60	8	8	12.8	✻
H80008	4	60	8	8	10.63	
H80009	4.5	60	10	8	12.8	
H80010	5	60	10	8	10.63	
H80011	5.5	60	12	8	12.8	
H80012	6	60	12	8	10.63	
H80014	7	60	14	10	12.9	
H80015	7.5	60	14	10	15.79	✻
H80016	8	60	14	10	12.9	
H80017	8.5	70	18	10	17.64	✻
H80018	9	70	18	10	14.5	
H80019	9.5	70	18	10	17.64	✻
H80020	10	70	18	10	14.5	
H80021	11	80	22	12	19.35	
H80022	12	80	22	12	19.45	
H80023	13	85	26	12	24.73	
H80026	16	95	30	16	29.55	
H80027	17	95	34	16	34.98	
H80028	18	95	34	16	35.16	
H80029	19	110	38	20	41.92	✻
H80030	20	110	38	20	41.92	
H80032	22	110	45	20	52.46	
H80034	24	120	50	25	65.81	✻
H80038	28	125	55	25	73.34	
H80040	30	125	55	25	89.42	
H80042	32	145	60	32	124.15	✻

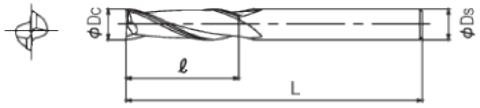
✻ For stock availability please check with sales representative

WORK MATERIAL / Abbreviation	CARBON STEELS PREHARDENED STEELS ALLOY STEELS TOOL STEELS	PREHARDENED STEELS HARDENED STEELS	STAINLESS STEELS	CAST IRON DUCTILE CASTIRON	COPPER ALLOYS	ALUMINUM ALLOYS
	~ 40HRC	~ 45HRC	~ 35HRC	~ 350HB		
V-EBD	◎		○	○	◎	◎
EDS	○		○	○	◎	◎

HY-PRO HSS-Co.8
2 FLUTE LONG

HY-PRO EDL





HSS Co

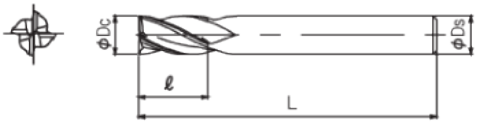
Unit:mm

EDP NO.	Dc	L	ℓ	Ds	List Price (USD)	
H80106	3	60	15	6	13.72	
H80108	4	60	20	8	13.72	*
H80112	6	60	25	8	13.72	
H80114	7	75	35	10	16.82	*
H80116	8	75	35	10	16.82	
H80120	10	90	45	10	18.98	
H80121	11	105	55	12	25.29	*
H80122	12	105	55	12	25.29	*
H80124	14	110	55	16	32.09	*
H80126	16	120	65	16	38.36	*
H80128	18	120	65	16	45.69	*
H80130	20	140	75	20	54.44	*
H80132	22	140	75	20	68.11	*
H80134	24	160	90	25	85.59	*
H80135	25	160	90	25	85.59	*
H80138	28	160	90	25	101.52	*
H80140	30	160	90	25	123.66	*
H80142	32	180	95	32	172.02	*

HY-PRO HSS-Co.8
4 FLUTE SHORT

HY-PRO CC-EMS





Unit:mm

HSS-Co

EDP NO.	Dc	L	ℓ	Ds	List Price (USD)	
H80704	2	50	8	6	11.94	
H80705	2.5	50	10	6	12.77	*
H80706	3	50	10	6	10.52	
H80707	3.5	60	12	8	12.8	*
H80708	4	60	12	8	10.63	
H80709	4.5	60	15	8	12.8	*
H80710	5	60	15	8	10.63	
H80711	5.5	60	15	8	12.8	
H80712	6	60	15	8	10.63	
H80714	7	60	20	10	12.9	
H80715	7.5	60	20	10	15.79	*
H80716	8	60	20	10	12.9	
H80719	9.5	70	25	10	17.64	*
H80720	10	70	25	10	14.5	
H80722	12	80	30	12	19.45	
H80724	14	90	35	16	24.73	
H80726	16	95	40	16	29.55	
H80727	17	95	40	16	34.98	*
H80728	18	95	40	20	35.16	
H80730	20	110	45	20	41.92	
H80732	22	110	45	25	52.46	
H80734	24	120	50	25	65.81	
H80735	25	120	50	25	65.81	
H80738	28	125	55	25	73.34	
H80740	30	125	55	25	89.42	
H80742	32	145	60	32	124.15	*

* For stock availability please check with sales representative

Abbreviation \ WORK MATERIAL	CARBON STEELS PREHARDENED STEELS / ALLOY STEELS TOOL STEELS	PREHARDENED STEELS HARDENED STEELS	STAINLESS STEELS	CAST IRON DUCTILE CASTIRON	COPPER ALLOYS	ALUMINUM ALLOYS
	~ 40HRC	~ 45HRC	~ 35HRC	~ 350HB		
EDL	○		○	○	◎	◎
CC-EMS	○		○	○	◎	◎

HY-PRO HSS-Co.8 4 FLUTE LONG

HY-PRO CC-EML





HSS-Co

Unit:mm

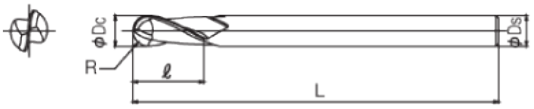
EDP NO.	Dc	L	ℓ	Ds	List Price (USD)	
H81006	3	60	15	6	13.72	*
H81014	7	75	35	10	16.82	*
H81016	8	75	35	10	16.82	
H81018	9	90	45	10	18.98	*
H81020	10	90	45	10	18.98	
H81021	11	105	55	12	25.29	*
H81022	12	105	55	12	25.29	
H81026	16	120	65	16	38.36	
H81028	18	120	75	16	45.69	*
H81030	20	140	75	20	54.44	
H81032	22	140	90	20	68.11	
H81034	24	160	90	25	85.59	*
H81035	25	160	90	25	85.59	
H81040	30	160	90	25	123.66	*
H81042	32	180	95	32	172.02	*

* For stock availability please check with sales representative

HY-PRO HSS-Co.8 BALL NOSE

HY-PRO EBD





HSS-Co

Unit:mm

EDP NO.	Dc	L	ℓ	Ds	List Price (USD)
H80760	R0.5x1	50	2.5	6	33.86
H80802	R1x2	50	5	6	24.17
H80803	R1.5x3	60	8	6	21.7
H80804	R2x4	70	8	6	21.7
H80805	R2.5x5	80	10	6	21.7
H80806	R3x6	90	12	6	21.7
H80807	R3.5x7	90	14	6	23.07
H80808	R4x8	100	14	8	23.07
H80809	R4.5x9	100	18	8	26.99
H80810	R5x10	100	18	10	26.99
H80811	R5.5x11	100	22	10	34.38
H80812	R6x12	110	22	12	34.38
H80813	R6.5x13	110	26	12	41.77
H80814	R7x14	110	26	12	41.77
H80815	R7.5x15	110	30	12	46.4
H80816	R8x16	140	30	16	50.31
H80818	R9x18	140	34	16	60.01
H80820	R10x20	160	38	20	71.53
H80825	R12.5x25	180	50	25	93.14
H80830	R15x30	180	55	25	127.38
H82932	R16x32	180	60	32	163.59

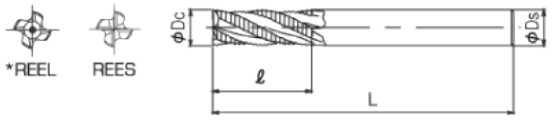
~ for HY-PRO EBD stock availability please check with sales representative

* For stock availability please check with sales representative

WORK MATERIAL / Abbreviation	CARBON STEELS PREHARDENED STEELS ALLOY STEELS TOOL STEELS	PREHARDENED STEELS HARDENED STEELS	STAINLESS STEELS	CAST IRON DUCTILE CASTIRON	COPPER ALLOYS	ALUMINUM ALLOYS
	~ 40HRC	~ 45HRC	~ 35HRC	~ 350HB		
CC-EML	○		○	○	◎	◎
EBD	○		○	○	◎	◎

HY-PRO EX-REES/EX-REEL





HSS-Co HY-PRO EX-REES

Unit:mm

EDP NO.	Dc	L	ℓ	Ds	List Price (USD)	
H81506	6	57	13	4	22.9	
H81507	7	66	16	4	24.54	
H81508	8	69	19	4	24.54	
H81509	9	69	19	4	28.33	
H81510	10	72	22	4	28.33	
H81511	11	79	22	4	36.34	*
H81512	12	83	26	4	36.34	
H81513	13	83	26	4	44.4	*
H81514	14	83	26	4	44.4	
H81516	16	92	32	4	45.84	
H81518	18	92	32	4	55.48	
H81520	20	104	38	4	65.15	
H81522	22	121	38	5	78.16	*
H81528	28	121	45	5	120.19	*
H81530	30	121	45	5	144.95	*
H81532	32	133	53	5	174.71	*

HSS-Co HY-PRO EX-REEL

Unit:mm

EDP NO.	Dc	L	ℓ	Ds	List Price (USD)	
H80846	6	68	24	4	31.63	
H80847	7	80	30	4	33.78	
H80848	8	88	38	4	33.78	
H80849	9	88	38	4	42.56	
H80850	10	95	45	4	42.56	*
H80852	12	110	53	4	56.21	*
H80853	13	110	53	4	66.04	
H80854	14	110	53	4	66.04	
H80856	16	123	63	4	76.38	
H80858	18	123	63	4	90.05	
H80860	20	141	75	4	92.35	
H80864	24	166	90	5	150.07	
H80868	28	166	90	5	180.93	

* For stock availability please check with sales representative

WORK MATERIAL / Abbreviation	CARBON STEELS PREHARDENED STEELS ALLOY STEELS TOOL STEELS	PREHARDENED STEELS HARDENED STEELS	STAINLESS STEELS	CAST IRON DUCTILE CASTIRON	COPPER ALLOYS	ALUMINUM ALLOYS
	~ 40HRC	~ 45HRC	~ 35HRC	~ 350HB		
EX-REES/EX-REEL	○		○	○	◎	◎

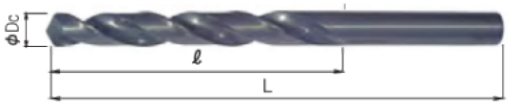


SOMTA

SOMTA CONTENTS

Page	Abbreviation	Specification	Surface Treatment	Stocked Size
96-97	101,102	STRAIGHT SHANK JOBBER DRILL	BLUE FINISH	0.3~20
98	1TT	STRAIGHT SHANK JOBBER DRILL	BRIGHT FINISH WITH TIN TIP	1.0~16
99	1X5	X-RATIO STRAIGHT SHANK JOBBER DRILL	BLUE FINISH	3~13
100	177	NDX JOBBER DRILL-HEAVY DUTY	GOLD OXIDE	1~13
101	175,176	REDUCED SHANK(ELECTRICIANS) DRILLS	BLUE FINISH	11~25.4
102	116, 117	STRAIGHT SHANK LONG SERIES DRILL	BLUE FINISH	1~16
103	121, 122, 123, 124, 125,126	STRAIGHT SHANK EXTRA LENGTH DRILLS	BLUE FINISH	1.5~13
104	201, 202, 203, 204	MORSE TAPER SHANK DRILL	BLUE FINISH	3~50
105	242, 244	MTS EXTRA LENGTH DRILL	BLUE FINISH	10~30
	2X1, 2X2, 2X3, 2X4	X-RATIO MORSE TAPER SHANK DRILL NEW	BLUE FINISH	6~32
106	701	PARALLEL HAND REAMERS	-	1.5~38
107	731	HAND TAPER PIN REAMERS	-	2~25
108	751, 752	PARALLEL SHANK MACHINE CHUCKING REAMERS	-	2~20
110	184	NC SPOT DRILL	TiALN	3~20
	114	TYPE A CENTRE DRILL	-	0.8~10

STRAIGHT SHANK JOBBER DRILLS



HSS | BLUE FINISH | 30° | h8

DIN 338

Unit:mm

EDP NO.	Dc	ℓ	L	List Price (USD)
1010030-SO	0.3	3	19	1.4
1010035-SO	0.35	4	19	1.28
1020040-SO	0.397(1/64")	5	20	0.5
1010040-SO	0.4	5	20	1.28
1010045-SO	0.45	5	20	1.16
1010050-SO	0.5	6	22	1.19
1010055-SO	0.55	7	24	1.07
1010060-SO	0.6	7	24	1.07
1010062-SO	0.62	8	26	0.98
1010070-SO	0.7	9	28	0.98
1010075-SO	0.75	9	28	0.98
1020079-SO	0.794(1/32")	10	30	1.02
1010080-SO	0.8	10	30	0.98
1010088-SO	0.88	11	32	0.98
1010090-SO	0.9	11	32	0.98
1010092-SO	0.92	11	32	0.98
1010100-SO	1	12	34	1.02
1010105-SO	1.05	12	34	1.02
1010110-SO	1.1	14	36	1.02
1010115-SO	1.15	14	36	1.02
1020119-SO	1.191 (3/64")	16	38	0.75
1010120-SO	1.2	16	38	1.02
1010125-SO	1.25	16	38	1.02
1010130-SO	1.3	16	38	1.02
1010135-SO	1.35	18	40	1.02
1010140-SO	1.4	18	40	1.02
1010145-SO	1.45	18	40	1.02
1010150-SO	1.5	18	40	0.98
1010155-SO	1.55	20	43	0.98
1020159-SO	1.587(1/16")	20	43	0.97
1010160-SO	1.6	20	43	0.98
1010165-SO	1.65	20	43	0.98
1010170-SO	1.7	20	43	0.98
1010175-SO	1.75	22	46	0.98
1010180-SO	1.8	22	46	0.98
1010185-SO	1.85	22	46	0.98
1010190-SO	1.9	22	46	0.98
1010195-SO	1.95	24	49	1.13
1020198-SO	1.984 (5/64")	24	49	0.97
1010200-SO	2	24	49	1.13
1010205-SO	2.05	24	49	1.13
1010210-SO	2.1	24	49	1.13
1010215-SO	2.15	27	53	1.13
1010220-SO	2.2	27	53	1.13
1010225-SO	2.25	27	53	1.13
1010230-SO	2.3	27	53	1.13
1010235-SO	2.35	27	53	1.13
1020238-SO	2.381 (3/32")	30	57	0.97
1010240-SO	2.4	30	57	1.13
1010245-SO	2.45	30	57	1.13
1010250-SO	2.5	30	57	1.13
1010255-SO	2.55	30	57	1.13
1010260-SO	2.6	30	57	1.13
1010265-SO	2.65	30	57	1.13
1010270-SO	2.7	33	61	1.13
1010275-SO	2.75	33	61	1.13
1020278-SO	2.778 (7/64")	33	61	1.12
1010280-SO	2.8	33	61	1.13
1010285-SO	2.85	33	61	1.13
1010290-SO	2.9	33	61	1.13
1010295-SO	2.95	33	61	1.13
1010300-SO	3	33	61	1.31
1010310-SO	3.1	36	65	1.31
1020318-SO	3.175 (1/8")	36	65	1.91

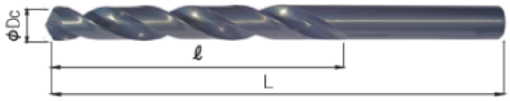
Unit:mm

EDP NO.	Dc	ℓ	L	List Price (USD)
1010320-SO	3.2	36	65	1.31
1010325-SO	3.25	36	65	1.31
1010330-SO	3.3	36	65	1.31
1010340-SO	3.4	39	70	1.31
1010350-SO	3.5	39	70	1.22
1020357-SO	3.572 (9/64")	39	70	2.23
1010360-SO	3.6	39	70	1.22
1010370-SO	3.7	39	70	1.22
1010380-SO	3.8	43	75	1.22
1010390-SO	3.9	43	75	1.22
1020397-SO	3.969 (5/32")	43	75	2.3
1010400-SO	4	43	75	1.23
1010410-SO	4.1	43	75	1.23
1010420-SO	4.2	43	75	1.23
1010425-SO	4.25	43	75	1.23
1010430-SO	4.3	47	80	1.23
1020437-SO	4.366 (11/64")	47	80	2.67
1010440-SO	4.4	47	80	1.23
1010450-SO	4.5	47	80	2.51
1010460-SO	4.6	47	80	2.51
1010470-SO	4.7	47	80	2.51
1020476-SO	4.762 (3/16")	52	86	2.71
1010480-SO	4.8	52	86	2.51
1010490-SO	4.9	52	86	2.51
1010500-SO	5	52	86	2.76
1010510-SO	5.1	52	86	2.76
1020516-SO	5.159 (13/64")	52	86	3.26
1010520-SO	5.2	52	86	2.76
1010525-SO	5.25	52	86	2.76
1010530-SO	5.3	52	86	2.76
1010540-SO	5.4	57	93	2.76
1010550-SO	5.5	57	93	3.22
1020556-SO	5.556 (7/32")	57	93	3.54
1010560-SO	5.6	57	93	3.22
1010570-SO	5.7	57	93	3.22
1010575-SO	5.75	57	93	3.22
1010580-SO	5.8	57	93	3.22
1010590-SO	5.9	57	93	3.22
1020595-SO	5.953 (15/64")	57	93	3.86
1010600-SO	6	57	93	3.66
1010610-SO	6.1	63	101	3.66
1010620-SO	6.2	63	101	3.66
1010625-SO	6.25	63	101	3.66
1010630-SO	6.3	63	101	3.66
1020635-SO	6.350 (1/4")	63	101	4.3
1010640-SO	6.4	63	101	3.66
1010650-SO	6.5	63	101	4.08
1010660-SO	6.6	63	101	4.08
1010670-SO	6.7	63	101	4.08
1020675-SO	6.747 (17/64")	69	109	4.9
1010675-SO	6.75	69	109	4.08
1010680-SO	6.8	69	109	4.08
1010690-SO	6.9	69	109	4.08
1010700-SO	7	69	109	4.77
1010710-SO	7.1	69	109	4.77
1020714-SO	7.144 (9/32")	69	109	5.4
1010720-SO	7.2	69	109	4.77
1010730-SO	7.3	69	109	4.77
1010740-SO	7.4	69	109	4.77
1010750-SO	7.5	69	109	5.4
1020754-SO	7.541 (19/64")	75	117	6.17
1010760-SO	7.6	75	117	5.4
1010770-SO	7.7	75	117	5.4
1010780-SO	7.8	75	117	5.4

RECOMMENDATION CUTTING CONDITIONS

Please refer to SOMTA catalogue

STRAIGHT SHANK JOBBER DRILLS



HSS · BLUE FINISH · 30° · h8

Unit:mm

EDP NO.	Dc	ℓ	L	List Price (USD)
1010790-SO	7.9	75	117	5.4
1020794-SO	7.937 (5/16")	75	117	6.29
1010800-SO	8	75	117	6.13
1010810-SO	8.1	75	117	6.13
1010820-SO	8.2	75	117	6.13
1010825-SO	8.25	75	117	6.13
1010830-SO	8.3	75	117	6.13
1020833-SO	8.334 (21/64")	75	117	7.1
1010840-SO	8.4	75	117	6.13
1010850-SO	8.5	75	117	6.73
1010860-SO	8.6	81	125	6.73
1010870-SO	8.7	81	125	6.73
1020873-SO	8.731 (11/32")	81	125	8.25
1010875-SO	8.75	81	125	6.73
1010880-SO	8.8	81	125	6.73
1010890-SO	8.9	81	125	6.73
1010900-SO	9	81	125	7.56
1010910-SO	9.1	81	125	7.56
1020913-SO	9.128 (23/64")	81	125	8.79
1010920-SO	9.2	81	125	7.56
1010925-SO	9.25	81	125	7.56
1010930-SO	9.3	81	125	7.56
1010940-SO	9.4	81	125	7.56
1010950-SO	9.5	81	125	8.32
1020953-SO	9.525 (3/8")	87	133	8.6
1010960-SO	9.6	87	133	8.32
1010970-SO	9.7	87	133	8.32
1010975-SO	9.75	87	133	8.32
1010980-SO	9.8	87	133	8.32
1010990-SO	9.9	87	133	8.32
1020992-SO	9.922 (25/64")	87	133	10.02
1011000-SO	10	87	133	9.32
1011010-SO	10.1	87	133	9.32
1011020-SO	10.2	87	133	9.32
1011025-SO	10.25	87	133	9.32
1011030-SO	10.3	87	133	9.32
1021032-SO	10.319 (13/32")	87	133	10.93
1011040-SO	10.4	87	133	9.32
1011050-SO	10.5	87	133	10.31
1011060-SO	10.6	87	133	10.31
1011070-SO	10.7	94	142	10.31
1021072-SO	10.716 (27/64")	94	142	11.97
1011075-SO	10.75	94	142	10.31
1011080-SO	10.8	94	142	10.31
1011090-SO	10.9	94	142	10.31
1011100-SO	11	94	142	11.42
1011110-SO	11.1	94	142	11.42
1021111-SO	11.112 (7/16")	94	142	13.28
1011120-SO	11.2	94	142	11.42
1011130-SO	11.3	94	142	11.42
1011140-SO	11.4	94	142	11.42

Unit:mm

EDP NO.	Dc	ℓ	L	List Price (USD)
1011150-SO	11.5	94	142	12.62
1021151-SO	11.509 (29/64")	94	142	13.54
1011160-SO	11.6	94	142	12.62
1011170-SO	11.7	94	142	12.62
1011180-SO	11.8	94	142	12.62
1011190-SO	11.9	101	151	12.62
1021191-SO	11.906 (15/32")	101	151	14.31
1011200-SO	12	101	151	13.62
1011210-SO	12.1	101	151	13.62
1011220-SO	12.2	101	151	13.62
1011230-SO	12.3	101	151	13.62
1011240-SO	12.4	101	151	13.62
1011250-SO	12.5	101	151	15.14
1011260-SO	12.6	101	151	15.14
1011270-SO	12.7	101	151	15.14
1021270-SO	12.700 (1/2")	101	151	15.66
1011275-SO	12.75	101	151	15.61
1011280-SO	12.8	101	151	15.14
1011290-SO	12.9	101	151	15.14
1011300-SO	13	101	151	15.73
1021310-SO	13.097 (33/64")	101	151	18.79
1011310-SO	13.1	101	151	15.73
1011320-SO	13.2	101	151	15.73
1011325-SO	13.25	108	160	15.73
1011330-SO	13.3	108	160	15.73
1011340-SO	13.4	108	160	15.73
1021349-SO	13.494 (17/32")	108	160	21.73
1011350-SO	13.5	108	160	21.38
1011360-SO	13.6	108	160	21.38
1011370-SO	13.7	108	160	21.38
1011380-SO	13.8	108	160	21.38
1021389-SO	13.891 (35/64")	108	160	23.33
1011400-SO	14	108	160	21.46
1011425-SO	14.25	114	169	21.46
1021429-SO	14.287 (9/16")	114	169	26.19
1011450-SO	14.5	114	169	24.7
1021468-SO	14.684 (37/64")	114	169	26.19
1011475-SO	14.75	114	169	24.7
1011500-SO	15	114	169	29.26
1011525-SO	15.25	120	178	29.26
1011575-SO	15.75	120	178	29.91
1021588-SO	15.875 (5/8")	120	178	31.5
1011600-SO	16	120	178	32.58
1011650-SO	16.5	125	184	35.38
1011700-SO	17	125	184	38.39
1011750-SO	17.5	130	191	41.27
1011800-SO	18	130	191	44.02
1011850-SO	18.5	135	198	46.3
1011900-SO	19	135	198	48.05
1011950-SO	19.5	140	205	50.3
1012000-SO	20	140	205	50.3

STRAIGHT SHANK JOBBER DRILL SET

EDP NO.	Size Range	No. of drills
1060040-SO	1-13 x 0.5	25



RECOMMENDATION CUTTING CONDITIONS
Please refer to SOMTA catalogue

STRAIGHT SHANK JOBBER DRILLS



HSS | Bright with TiN tip | 30° | h8

DIN 338 Unit:mm

EDP NO.	Dc	ℓ	L	List Price (USD)
1TT0100-SO	1	12	34	1.19
1TT0105-SO	1.05	12	34	1.19
1TT0110-SO	1.1	14	36	1.19
1TT0115-SO	1.15	14	36	1.19
1TT0120-SO	1.2	16	38	1.19
1TT0125-SO	1.25	16	38	1.19
1TT0130-SO	1.3	16	38	1.19
1TT0135-SO	1.35	18	40	1.19
1TT0140-SO	1.4	18	40	1.19
1TT0145-SO	1.45	18	40	1.19
1TT0150-SO	1.5	18	40	1.13
1TT0155-SO	1.55	20	43	1.13
1TT0160-SO	1.6	20	43	1.13
1TT0170-SO	1.7	20	43	1.13
1TT0180-SO	1.8	22	46	1.13
1TT0190-SO	1.9	22	46	1.13
1TT0195-SO	1.95	24	49	1.30
1TT0200-SO	2	24	49	1.30
1TT0210-SO	2.1	24	49	1.30
1TT0220-SO	2.2	27	53	1.30
1TT0230-SO	2.3	27	53	1.30
1TT0240-SO	2.4	30	57	1.30
1TT0250-SO	2.5	30	57	1.30
1TT0260-SO	2.6	30	57	1.30
1TT0270-SO	2.7	33	61	1.30
1TT0275-SO	2.75	33	61	1.30
1TT0280-SO	2.8	33	61	1.30
1TT0290-SO	2.9	33	61	1.30
1TT0300-SO	3	33	61	1.51
1TT0310-SO	3.1	36	65	1.51
1TT0320-SO	3.2	36	65	1.51
1TT0330-SO	3.3	36	65	1.51
1TT0340-SO	3.4	39	70	1.51
1TT0350-SO	3.5	39	70	1.41
1TT0360-SO	3.6	39	70	1.41
1TT0370-SO	3.7	39	70	1.41
1TT0380-SO	3.8	43	75	1.41
1TT0390-SO	3.9	43	75	1.41
1TT0400-SO	4	43	75	1.42
1TT0410-SO	4.1	43	75	1.42
1TT0420-SO	4.2	43	75	1.42
1TT0430-SO	4.3	47	80	1.42
1TT0440-SO	4.4	47	80	1.42
1TT0450-SO	4.5	47	80	2.88
1TT0460-SO	4.6	47	80	2.88
1TT0470-SO	4.7	47	80	2.88
1TT0480-SO	4.8	52	86	2.88
1TT0490-SO	4.9	52	86	2.88
1TT0500-SO	5	52	86	3.19
1TT0510-SO	5.1	52	86	3.19
1TT0520-SO	5.2	52	86	3.19
1TT0530-SO	5.3	52	86	3.19
1TT0540-SO	5.4	57	93	3.19
1TT0550-SO	5.5	57	93	3.71
1TT0560-SO	5.6	57	93	3.71
1TT0570-SO	5.7	57	93	3.71
1TT0580-SO	5.8	57	93	3.71
1TT0590-SO	5.9	57	93	3.71
1TT0600-SO	6	57	93	4.20
1TT0610-SO	6.1	63	101	4.20
1TT0620-SO	6.2	63	101	4.20
1TT0630-SO	6.3	63	101	4.20
1TT0640-SO	6.4	63	101	4.20
1TT0650-SO	6.5	63	101	4.69
1TT0660-SO	6.6	63	101	4.69
1TT0670-SO	6.7	63	101	4.69
1TT0675-SO	6.75	69	109	4.69
1TT0680-SO	6.8	69	109	4.69

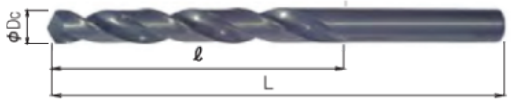
DIN 338 Unit:mm

EDP NO.	Dc	ℓ	L	List Price (USD)
1TT0690-SO	6.9	69	109	4.69
1TT0700-SO	7	69	109	5.50
1TT0710-SO	7.1	69	109	5.50
1TT0720-SO	7.2	69	109	5.50
1TT0730-SO	7.3	69	109	5.50
1TT0740-SO	7.4	69	109	5.50
1TT0750-SO	7.5	69	109	6.23
1TT0760-SO	7.6	75	117	6.23
1TT0770-SO	7.7	75	117	6.23
1TT0780-SO	7.8	75	117	6.23
1TT0790-SO	7.9	75	117	6.23
1TT0800-SO	8	75	117	7.05
1TT0810-SO	8.1	75	117	7.05
1TT0820-SO	8.2	75	117	7.05
1TT0830-SO	8.3	75	117	7.05
1TT0840-SO	8.4	75	117	7.05
1TT0850-SO	8.5	75	117	7.74
1TT0860-SO	8.6	81	125	7.74
1TT0870-SO	8.7	81	125	7.74
1TT0880-SO	8.8	81	125	7.74
1TT0890-SO	8.9	81	125	7.74
1TT0900-SO	9	81	125	8.69
1TT0910-SO	9.1	81	125	8.69
1TT0920-SO	9.2	81	125	8.69
1TT0930-SO	9.3	81	125	8.69
1TT0940-SO	9.4	81	125	8.69
1TT0950-SO	9.5	81	125	9.57
1TT0960-SO	9.6	87	133	9.57
1TT0970-SO	9.7	87	133	9.57
1TT0980-SO	9.8	87	133	9.57
1TT0990-SO	9.9	87	133	9.57
1TT1000-SO	10	87	133	10.73
1TT1010-SO	10.1	87	133	10.73
1TT1020-SO	10.2	87	133	10.73
1TT1030-SO	10.3	87	133	10.73
1TT1040-SO	10.4	87	133	10.73
1TT1050-SO	10.5	87	133	11.88
1TT1060-SO	10.6	87	133	11.88
1TT1070-SO	10.7	94	142	11.88
1TT1080-SO	10.8	94	142	11.88
1TT1090-SO	10.9	94	142	11.88
1TT1100-SO	11	94	142	13.13
1TT1110-SO	11.1	94	142	13.13
1TT1120-SO	11.2	94	142	13.13
1TT1130-SO	11.3	94	142	13.13
1TT1140-SO	11.4	94	142	13.13
1TT1150-SO	11.5	94	142	14.52
1TT1160-SO	11.6	94	142	14.52
1TT1170-SO	11.7	94	142	14.52
1TT1180-SO	11.8	94	142	14.52
1TT1190-SO	11.9	101	51	14.52
1TT1200-SO	12	101	51	15.65
1TT1210-SO	12.1	101	51	15.65
1TT1220-SO	12.2	101	51	15.65
1TT1230-SO	12.3	101	51	15.65
1TT1240-SO	12.4	101	51	15.65
1TT1250-SO	12.5	101	51	17.42
1TT1260-SO	12.6	101	51	17.42
1TT1270-SO	12.7	101	51	17.42
1TT1275-SO	12.75	101	51	17.95
1TT1280-SO	12.8	101	51	17.42
1TT1290-SO	12.9	101	51	17.42
1TT1300-SO	13	101	51	18.10
1TT1350-SO	13.5	108	160	24.53
1TT1400-SO	14	108	160	24.76
1TT1450-SO	14.5	114	169	29.44
1TT1500-SO	15	114	169	36.59
1TT1550-SO	15.5	120	178	36.84
1TT1600-SO	16	120	178	37.81

RECOMMENDATION CUTTING CONDITIONS

Please refer to SOMTA catalogue

X-RATIO STRAIGHT SHANK JOBBER DRILLS



HSS | BLUE FINISH | 30° | h8

Unit:mm

EDP NO.	D	ℓ	L	List Price (USD)
1X50300-SO	3	33	61	0.94
1X50310-SO	3.1	36	65	0.94
1X50318-SO	3.175 (1/8)	36	65	0.94
1X50320-SO	3.2	36	65	0.94
1X50330-SO	3.3	36	65	0.94
1X50340-SO	3.4	39	70	0.94
1X50350-SO	3.5	39	70	1.21
1X50357-SO	3.572(9/64)	39	70	1.21
1X50360-SO	3.6	39	70	1.21
1X50370-SO	3.7	39	70	1.21
1X50380-SO	3.8	43	75	1.21
1X50390-SO	3.9	43	75	1.21
1X50397-SO	3.969 (5/32)	43	75	1.21
1X50400-SO	4	43	75	2.99
1X50410-SO	4.1	43	75	2.99
1X50420-SO	4.2	43	75	2.99
1X50430-SO	4.3	47	80	2.99
1X50437-SO	4.366 (11/64)	47	80	2.99
1X50440-SO	4.4	47	80	2.99
1X50450-SO	4.5	47	80	3.03
1X50460-SO	4.6	47	80	3.03
1X50470-SO	4.7	47	80	3.03
1X50476-SO	4.762(3/16)	52	86	3.03
1X50480-SO	4.8	52	86	3.03
1X50490-SO	4.9	52	86	3.03
1X50500-SO	5	52	86	3.05
1X50510-SO	5.1	52	86	3.05
1X50516-SO	5.159(13/64)	52	86	3.05
1X50520-SO	5.2	52	86	3.05
1X50530-SO	5.3	52	86	3.05
1X50540-SO	5.4	57	93	3.05
1X50550-SO	5.5	57	93	3.14
1X50556-SO	5.556(7/32)	57	93	3.14
1X50560-SO	5.6	57	93	3.14
1X50570-SO	5.7	57	93	3.14
1X50580-SO	5.8	57	93	3.14
1X50590-SO	5.9	57	93	3.14
1X50595-SO	5.953(15/64)	57	93	3.14
1X50600-SO	6	57	93	3.34
1X50610-SO	6.1	63	101	3.34
1X50620-SO	6.2	63	101	3.34
1X50630-SO	6.3	63	101	3.34
1X50635-SO	6.350 (1/4)	63	101	3.34
1X50640-SO	6.4	63	101	3.34
1X50650-SO	6.5	63	101	3.61
1X50660-SO	6.6	63	101	3.61
1X50670-SO	6.7	63	101	3.61
1X50675-SO	6.747(17/64)	63	101	3.61
1X50680-SO	6.8	69	109	3.61
1X50690-SO	6.9	69	109	3.61
1X50700-SO	7	69	109	4.91
1X50710-SO	7.1	69	109	4.91
1X50714-SO	7.144 (9/32)	69	109	4.91
1X50720-SO	7.2	69	109	4.91
1X50730-SO	7.3	69	109	4.91
1X50740-SO	7.4	69	109	4.91
1X50750-SO	7.5	69	109	4.93
1X50754-SO	7.541 (19/64)	75	117	4.93
1X50760-SO	7.6	75	117	4.93
1X50770-SO	7.7	75	117	4.93
1X50780-SO	7.8	75	117	4.93
1X50790-SO	7.9	75	117	4.93

Unit:mm

DIN 338

EDP NO.	D	ℓ	L	List Price (USD)
1X50794-SO	7.937 (5/16)	75	117	4.93
1X50800-SO	8	75	117	5.35
1X50810-SO	8.1	75	117	5.35
1X50820-SO	8.2	75	117	5.35
1X50830-SO	8.3	75	117	5.35
1X50833-SO	8.334 (21/64)	75	117	5.35
1X50840-SO	8.4	75	117	5.35
1X50850-SO	8.5	75	117	6.07
1X50860-SO	8.6	81	125	6.07
1X50870-SO	8.7	81	125	6.07
1X50873-SO	8.731 (11/32)	81	125	6.07
1X50880-SO	8.8	81	125	6.07
1X50890-SO	8.9	81	125	6.07
1X50900-SO	9	81	125	7.14
1X50910-SO	9.1	81	125	7.14
1X50913-SO	9.128 (23/64)	81	125	7.14
1X50920-SO	9.2	81	125	7.14
1X50930-SO	9.3	81	125	7.14
1X50940-SO	9.4	81	125	7.14
1X50950-SO	9.5	81	125	7.61
1X50953-SO	9.525 (3/8)	87	133	7.61
1X50960-SO	9.6	87	133	7.61
1X50970-SO	9.7	87	133	7.61
1X50980-SO	9.8	87	133	7.61
1X50990-SO	9.9	87	133	7.61
1X50992-SO	9.922 (25/64)	87	133	7.61
1X51000-SO	10	87	133	8.28
1X51010-SO	10.1	87	133	8.28
1X51020-SO	10.2	87	133	8.28
1X51030-SO	10.3	87	133	8.28
1X51032-SO	10.319 (13/32)	87	133	8.28
1X51040-SO	10.4	87	133	8.28
1X51050-SO	10.5	87	133	9.21
1X51060-SO	10.6	87	133	9.21
1X51070-SO	10.7	94	142	9.21
1X51072-SO	10.716 (27/64)	94	142	9.21
1X51080-SO	10.8	94	142	9.21
1X51090-SO	10.9	94	142	9.21
1X51100-SO	11	94	142	10.54
1X51110-SO	11.1	94	142	10.54
1X51111-SO	11.112(7/16)	94	142	10.54
1X51120-SO	11.2	94	142	10.54
1X51130-SO	11.3	94	142	10.54
1X51140-SO	11.4	94	142	10.54
1X51150-SO	11.5	94	142	11.28
1X51151-SO	11.509 (29/64)	94	142	11.28
1X51160-SO	11.6	94	142	11.28
1X51170-SO	11.7	94	142	11.28
1X51180-SO	11.8	94	142	11.28
1X51190-SO	11.9	101	151	11.28
1X51191-SO	11.906 (15/32)	101	151	11.28
1X51200-SO	12	101	151	12.56
1X51210-SO	12.1	101	151	12.56
1X51230-SO	12.3	101	151	12.56
1X51229-SO	12.303 (31/64)	101	151	12.56
1X51240-SO	12.4	101	151	12.56
1X51250-SO	12.5	101	151	12.80
1X51260-SO	12.6	101	151	12.80
1X51269-SO	12.700 (1/2)	101	151	12.80
1X51270-SO	12.7	101	151	12.80
1X51280-SO	12.8	101	151	12.80
1X51290-SO	12.9	101	151	12.80
1X51300-SO	13	101	151	13.62

RECOMMENDATION CUTTING CONDITIONS

Please refer to SOMTA catalogue

NDX JOBBER DRILLS - HEAVY DUTY



HSS-Co | GOLD OXIDE | 33° | h8

DIN 338

Unit:mm

EDP NO.	Dc	ℓ	L	List Price (USD)
1770100-SO	1	12	34	1.32
1770150-SO	1.5	18	40	1.28
1770159-SO	1.587 (1/16")	20	43	1.20
1770160-SO	1.6	20	43	1.28
1770170-SO	1.7	20	43	1.28
1770180-SO	1.8	22	46	1.28
1770190-SO	1.9	22	46	1.28
1770198-SO	1.984 (5/64")	24	49	1.20
1770200-SO	2	24	49	1.47
1770210-SO	2.1	24	49	1.47
1770220-SO	2.2	27	53	1.47
1770230-SO	2.3	27	53	1.47
1770238-SO	2.381 (3/32")	30	57	1.20
1770240-SO	2.4	30	57	1.47
1770250-SO	2.5	30	57	1.47
1770260-SO	2.6	30	57	1.47
1770270-SO	2.7	33	61	1.47
1770278-SO	2.778 (7/64")	33	61	1.39
1770280-SO	2.8	33	61	1.47
1770290-SO	2.9	33	61	1.47
1770300-SO	3	33	61	1.72
1770318-SO	3.175 (1/8")	36	65	2.54
1770320-SO	3.2	36	65	1.72
1770330-SO	3.3	36	65	1.72
1770340-SO	3.4	39	70	1.72
1770350-SO	3.5	39	70	1.61
1770357-SO	3.572 (9/64")	39	70	2.54
1770360-SO	3.6	39	70	1.61
1770370-SO	3.7	39	70	1.61
1770380-SO	3.8	43	75	1.61
1770390-SO	3.9	43	75	1.61
1770397-SO	3.969 (5/32")	43	75	2.54
1770400-SO	4	43	75	1.62
1770410-SO	4.1	43	75	1.62
1770420-SO	4.2	43	75	1.62
1770430-SO	4.3	47	80	1.62
1770437-SO	4.366 (11/64")	47	80	3.41
1770440-SO	4.4	47	80	1.62
1770450-SO	4.5	47	80	3.26
1770460-SO	4.6	47	80	3.26
1770470-SO	4.7	47	80	3.26
1770476-SO	4.762 (3/16")	52	86	3.36
1770480-SO	4.8	52	86	3.26
1770490-SO	4.9	52	86	3.26
1770500-SO	5	52	86	3.61
1770510-SO	5.1	52	86	3.61
1770516-SO	5.159 (13/64")	52	86	4.03
1770520-SO	5.2	52	86	3.61
1770530-SO	5.3	52	86	3.61
1770540-SO	5.4	57	93	3.61
1770550-SO	5.5	57	93	4.19
1770556-SO	5.556 (7/32")	57	93	4.37
1770560-SO	5.6	57	93	4.19
1770570-SO	5.7	57	93	4.19
1770580-SO	5.8	57	93	4.19
1770590-SO	5.9	57	93	4.19
1770595-SO	5.953 (15/64")	57	93	4.77
1770600-SO	6	57	93	4.77
1770610-SO	6.1	63	101	4.77
1770620-SO	6.2	63	101	4.77
1770630-SO	6.3	63	101	4.77
1770635-SO	6.350 (1/4")	63	101	5.30
1770640-SO	6.4	63	101	4.77
1770650-SO	6.5	63	101	5.30
1770660-SO	6.6	63	101	5.30
1770670-SO	6.7	63	101	5.30
1770675-SO	6.747 (17/64")	69	109	5.30
1770680-SO	6.8	69	109	5.30

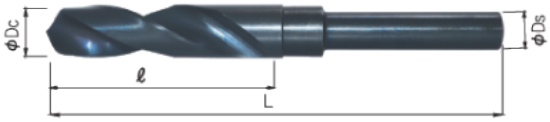
Unit:mm

EDP NO.	Dc	ℓ	L	List Price (USD)
1770690-SO	6.9	69	109	5.30
1770700-SO	7	69	109	6.19
1770710-SO	7.1	69	109	6.19
1770720-SO	7.2	69	109	6.19
1770730-SO	7.3	69	109	6.19
1770740-SO	7.4	69	109	6.19
1770750-SO	7.5	69	109	7.03
1770754-SO	7.541 (19/64")	75	117	7.60
1770760-SO	7.6	75	117	7.03
1770770-SO	7.7	75	117	7.03
1770780-SO	7.8	75	117	7.03
1770790-SO	7.9	75	117	7.03
1770794-SO	7.937 (5/16")	75	117	7.78
1770800-SO	8	75	117	7.98
1770810-SO	8.1	75	117	7.98
1770820-SO	8.2	75	117	7.98
1770830-SO	8.3	75	117	7.98
1770833-SO	8.334 (21/64")	75	117	8.76
1770840-SO	8.4	75	117	7.98
1770850-SO	8.5	75	117	8.76
1770860-SO	8.6	81	125	8.76
1770870-SO	8.7	81	125	8.76
1770873-SO	8.731 (11/32")	81	125	10.19
1770880-SO	8.8	81	125	8.76
1770890-SO	8.9	81	125	8.76
1770900-SO	9	81	125	9.82
1770910-SO	9.1	81	125	9.82
1770920-SO	9.2	81	125	9.82
1770930-SO	9.3	81	125	9.82
1770940-SO	9.4	81	125	9.82
1770950-SO	9.5	81	125	10.81
1770953-SO	9.525 (3/8")	87	133	10.63
1770960-SO	9.6	87	133	10.81
1770970-SO	9.7	87	133	10.81
1770980-SO	9.8	87	133	10.81
1770990-SO	9.9	87	133	10.81
1771000-SO	10	87	133	12.12
1771010-SO	10.1	87	133	12.12
1771020-SO	10.2	87	133	12.12
1771030-SO	10.3	87	133	12.12
1771032-SO	10.319 (13/32")	87	133	13.48
1771040-SO	10.4	87	133	12.12
1771050-SO	10.5	87	133	13.42
1771070-SO	10.7	94	142	13.42
1771080-SO	10.8	94	142	13.42
1771090-SO	10.9	94	142	13.42
1771100-SO	11	94	142	14.85
1771110-SO	11.1	94	142	14.85
1771111-SO	11.112 (7/16")	94	142	16.38
1771120-SO	11.2	94	142	14.85
1771130-SO	11.3	94	142	14.85
1771140-SO	11.4	94	142	14.85
1771150-SO	11.5	94	142	16.40
1771170-SO	11.7	94	142	16.40
1771180-SO	11.8	94	142	16.40
1771190-SO	11.9	101	151	16.40
1771200-SO	12	101	151	17.70
1771210-SO	12.1	101	151	17.70
1771220-SO	12.2	101	151	17.70
1771230-SO	12.3	101	151	17.70
1771240-SO	12.4	101	151	17.70
1771250-SO	12.5	101	151	19.68
1771260-SO	12.6	101	151	19.68
1771269-SO	12.700 (1/2")	101	151	19.82
1771270-SO	12.7	101	151	19.68
1771280-SO	12.8	101	151	19.68
1771290-SO	12.9	101	151	19.68
1771300-SO	13	101	151	20.45

RECOMMENDATION CUTTING CONDITIONS

Please refer to SOMTA catalogue

REDUCED SHANK (ELECTRICIANS) DRILLS



HSS | BLUE FINISH | 30° | h8

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
1751100-SO	11	94	142	10	7.40
1751150-SO	11.5	94	142	10	7.23
1751200-SO	12	101	151	10	16.18
1751250-SO	12.5	101	151	10	16.18
1761270-SO	12.700 (1/2")	101	151	10	17.28
1751300-SO	13	80	152	10	16.18
1761349-SO	13.494 (17/32")	80	152	1/2"	18.10
1751350-SO	13.5	80	152	12.7	16.18
1751400-SO	14	80	152	12.7	18.56
1761429-SO	14.287 (9/16")	80	152	1/2"	18.56
1751450-SO	14.5	80	152	12.7	19.36
1751500-SO	15	80	152	12.7	20.25
1761508-SO	15.081 (19/32")	80	152	1/2"	20.25
1751550-SO	15.5	80	152	12.7	21.12
1761588-SO	15.875 (5/8")	80	152	1/2"	22.01
1751600-SO	16	80	152	12.7	22.90
1751650-SO	16.5	80	152	12.7	23.86
1761667-SO	16.669 (21/32")	80	152	1/2"	23.86
1751700-SO	17	80	152	12.7	24.82
1761746-SO	17.462 (11/16")	80	152	1/2"	25.75
1751750-SO	17.5	80	152	12.7	25.75

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
	18	80	152	12.7	27.75
1751850-SO	18.5	80	152	12.7	28.75
1751900-SO	19	80	152	12.7	29.79
1761905-SO	19.050 (3/4")	80	152	1/2"	29.79
1751950-SO	19.5	76	152	12.7	30.83
1752000-SO	20	76	152	12.7	33.00
1752050-SO	20.5	76	152	12.7	34.13
1762064-SO	20.637 (13/16")	76	152	1/2"	34.13
1752100-SO	21	76	152	12.7	35.83
1752150-SO	21.5	76	152	12.7	36.39
1752200-SO	22	76	152	12.7	38.74
1762223-SO	22.225 (7/8")	76	152	1/2"	38.74
1752250-SO	22.5	76	152	12.7	39.97
1752300-SO	23	76	152	12.7	41.94
1752350-SO	23.5	76	152	12.7	42.42
1762381-SO	23.812 (15/16")	76	152	1/2"	43.69
1752400-SO	24	76	152	12.7	44.94
1752450-SO	24.5	76	152	12.7	46.24
1752500-SO	25	76	152	12.7	47.55
1762540-SO	25.400 (1")	76	152	1/2"	48.90

RECOMMENDATION CUTTING CONDITIONS
Please refer to SOMTA catalogue

FOR LONG REACH DRILLING

STRAIGHT SHANK LONG SERIES DRILLS



HSS BLUE FINISH 30° h8

DIN 340

Unit:mm

EDP NO.	Dc	ℓ	L	List Price (USD)
1160100-SO	1	33	56	3.53
1160110-SO	1.1	37	60	3.45
1160120-SO	1.2	41	65	3.45
1160130-SO	1.3	41	65	3.45
1160140-SO	1.4	45	70	3.45
1160150-SO	1.5	45	70	3.45
1170159-SO	1.587 (1/16")	50	76	3.80
1160160-SO	1.6	50	76	3.72
1160170-SO	1.7	50	76	3.72
1160180-SO	1.8	53	80	3.76
1160190-SO	1.9	53	80	3.76
1160200-SO	2	56	85	3.76
1160210-SO	2.1	56	85	3.76
1160220-SO	2.2	59	90	3.76
1160230-SO	2.3	59	90	3.76
1170238-SO	2.381 (3/32")	62	95	3.86
1160240-SO	2.4	62	95	3.76
1160250-SO	2.5	62	95	3.76
1160260-SO	2.6	62	95	3.98
1160270-SO	2.7	66	100	3.98
1160280-SO	2.8	66	100	3.98
1160290-SO	2.9	66	100	3.97
1160300-SO	3	66	100	3.97
1160310-SO	3.1	69	106	4.84
1170318-SO	3.175 (1/8")	69	106	4.84
1160320-SO	3.2	69	106	4.84
1160330-SO	3.3	69	106	4.77
1160340-SO	3.4	73	112	4.84
1160350-SO	3.5	73	112	4.77
1160360-SO	3.6	73	112	2.50
1160370-SO	3.7	73	112	2.50
1160380-SO	3.8	78	119	2.50
1160390-SO	3.9	78	119	2.50
1170397-SO	3.969 (5/32")	78	119	2.50
1160400-SO	4	78	119	2.50
1160410-SO	4.1	78	119	3.09
1160420-SO	4.2	78	119	3.09
1160430-SO	4.3	82	126	3.23
1160440-SO	4.4	82	126	3.23
1160450-SO	4.5	82	126	3.16
1160460-SO	4.6	82	126	4.60
1160470-SO	4.7	82	126	3.74
1170476-SO	4.762 (3/16")	87	132	3.74
1160480-SO	4.8	87	132	3.65
1160490-SO	4.9	87	132	3.74
1160500-SO	5	87	132	3.65
1160510-SO	5.1	87	132	5.04
1160520-SO	5.2	87	132	4.92
1160530-SO	5.3	87	132	5.04
1160540-SO	5.4	91	139	5.04
1160550-SO	5.5	91	139	5.04
1170556-SO	5.556 (7/32")	91	139	5.50
1160560-SO	5.6	91	139	5.51
1160570-SO	5.7	91	139	5.65
1160580-SO	5.8	91	139	5.51

Unit:mm

EDP NO.	Dc	ℓ	L	List Price (USD)
1160590-SO	5.9	91	139	5.65
1160600-SO	6	91	139	5.51
1160610-SO	6.1	97	148	6.25
1160620-SO	6.2	97	148	6.25
1160630-SO	6.3	97	148	6.25
1170635-SO	6.350 (1/4")	97	148	6.25
1160640-SO	6.4	97	148	6.25
1160650-SO	6.5	97	148	6.25
1160660-SO	6.6	97	148	7.45
1160670-SO	6.7	97	148	7.45
1160680-SO	6.8	102	156	7.33
1160690-SO	6.9	102	156	8.10
1160700-SO	7	102	156	7.45
1160710-SO	7.1	102	156	8.76
1170714-SO	7.144 (9/32")	102	156	8.53
1160720-SO	7.2	102	156	8.56
1160730-SO	7.3	102	156	8.76
1160740-SO	7.4	102	156	8.76
1160750-SO	7.5	102	156	8.56
1160760-SO	7.6	109	165	11.19
1160770-SO	7.7	109	165	12.56
1160780-SO	7.8	109	165	11.19
1160790-SO	7.9	109	165	11.19
1170794-SO	7.937 (5/16")	109	165	10.90
1160800-SO	8	109	165	10.93
1160820-SO	8.2	109	165	12.64
1160850-SO	8.5	109	165	11.98
1170873-SO	8.731 (11/32")	115	175	14.10
1160880-SO	8.8	115	175	14.44
1160900-SO	9	115	175	14.44
1160920-SO	9.2	115	175	15.82
1160950-SO	9.5	115	175	15.46
1170953-SO	9.525 (3/8")	121	184	18.60
1160980-SO	9.8	121	184	18.60
1161000-SO	10	121	184	18.50
1161020-SO	10.2	121	184	19.69
1171032-SO	10.319 (13/32")	121	184	19.64
1161050-SO	10.5	121	184	20.01
1161080-SO	10.8	128	195	23.19
1161100-SO	11	128	195	23.19
1171111-SO	11.112 (7/16")	128	195	25.31
1161120-SO	11.2	128	195	25.31
1161150-SO	11.5	128	195	25.31
1161180-SO	11.8	128	195	28.95
1161200-SO	12	134	205	28.61
1161220-SO	12.2	134	205	32.99
1161250-SO	12.5	134	205	31.60
1171270-SO	12.7 (1/2")	134	205	34.01
1161280-SO	12.8	134	205	34.01
1161300-SO	13	134	205	33.45
1161400-SO	14	140	214	24.41
1171429-SO	14.287 (9/16")	144	220	28.23
1161500-SO	15	144	220	48.83
1171588-SO	15.875 (5/8")	149	227	51.94
1161600-SO	16	149	227	51.94

RECOMMENDATION CUTTING CONDITIONS

Please refer to SOMTA catalogue

FOR EXTRA DEEP HOLE DRILLING

STRAIGHT SHANK EXTRA LENGTH DRILLS



HSS | BLUE FINISH | 30° | h8

Unit:mm

EDP NO.	Dc	ℓ	L	List Price (USD)
1220150-SO	1.5	100	160	7.95
1210200-SO	2	80	125	6.75
1220200-SO	2	100	160	7.95
1230200-SO	2	160	200	11.62
1210250-SO	2.5	80	125	6.75
1220250-SO	2.5	100	160	7.95
1230250-SO	2.5	160	200	11.62
1210300-SO	3	80	125	9.78
1220300-SO	3	100	160	11.02
1230300-SO	3	160	200	15.63
1240300-SO	3	200	250	23.25
1250300-SO	3	250	315	30.16
1220350-SO	3.5	100	160	11.02
1230350-SO	3.5	160	200	14.63
1240350-SO	3.5	200	250	22.20
1220400-SO	4	100	160	11.02
1230400-SO	4	160	200	15.63
1240400-SO	4	200	250	23.25
1250400-SO	4	250	315	29.22
1260400-SO	4	300	400	44.20
1220450-SO	4.5	100	160	11.02
1230450-SO	4.5	160	200	14.63
1240450-SO	4.5	200	250	27.68
1220500-SO	5	100	160	11.02
1230500-SO	5	160	200	15.63
1240500-SO	5	200	250	26.84
1250500-SO	5	250	315	37.31
1260500-SO	5	300	400	44.20
1220550-SO	5.5	100	160	11.02
1230550-SO	5.5	160	200	15.63
1240550-SO	5.5	200	250	25.83
1220600-SO	6	100	160	14.22
1230600-SO	6	160	200	20.46
1240600-SO	6	200	250	29.23
1250600-SO	6	250	315	37.31
1260600-SO	6	300	400	58.70

Unit:mm

ISO-3292

EDP NO.	Dc	ℓ	L	List Price (USD)
1230650-SO	6.5	160	200	20.46
1240650-SO	6.5	200	250	28.24
1230700-SO	7	160	200	23.00
1240700-SO	7	200	250	32.86
1250700-SO	7	250	315	41.93
1260700-SO	7	300	400	56.16
1230750-SO	7.5	160	200	22.13
1240750-SO	7.5	200	250	31.91
1230800-SO	8	160	200	23.00
1240800-SO	8	200	250	32.86
1250800-SO	8	250	315	41.93
1260800-SO	8	300	400	56.16
1230850-SO	8.5	160	200	26.91
1240850-SO	8.5	200	250	40.12
1230900-SO	9	160	200	26.91
1240900-SO	9	200	250	39.28
1250900-SO	9	250	315	52.00
1260900-SO	9	300	400	66.13
1230950-SO	9.5	160	200	26.08
1240950-SO	9.5	200	250	39.28
1231000-SO	10	160	200	26.91
1241000-SO	10	200	250	40.12
1251000-SO	10	250	315	52.64
1261000-SO	10	300	400	66.13
1241050-SO	10.5	200	250	44.39
1241100-SO	11	200	250	44.39
1251100-SO	11	250	315	58.97
1261100-SO	11	300	400	83.51
1241150-SO	11.5	200	250	43.87
1241200-SO	12	200	250	44.39
1251200-SO	12	250	315	58.97
1261200-SO	12	300	400	83.51
1241250-SO	12.5	200	250	49.06
1241300-SO	13	200	250	54.11
1251300-SO	13	250	315	69.74
1261300-SO	13	300	400	110.75

MORSE TAPER SHANK DRILLS



DIN 345

Unit:mm

		ℓ	L	Ds	List Price (USD)
2010300-SO	3	33	114	MT1	14.34
2010350-SO	3.5	39	120	MT1	14.52
2010400-SO	4	43	124	MT1	16.16
2010450-SO	4.5	47	128	MT1	16.16
2010500-SO	5	52	133	MT1	16.17
2010550-SO	5.5	57	138	MT1	21.00
2010600-SO	6	57	138	MT1	21.00
2010650-SO	6.5	63	144	MT1	21.00
2010700-SO	7	69	150	MT1	21.00
2010750-SO	7.5	69	150	MT1	21.00
2010800-SO	8	75	156	MT1	21.03
2010850-SO	8.5	75	156	MT1	21.07
2010900-SO	9	81	162	MT1	21.11
2010950-SO	9.5	81	162	MT1	21.16
2011000-SO	10	87	168	MT1	21.21
2011050-SO	10.5	87	168	MT1	21.24
2011100-SO	11	94	175	MT1	21.33
2011150-SO	11.5	94	175	MT1	21.37
2011200-SO	12	101	182	MT1	21.59
2011250-SO	12.5	101	182	MT1	23.05
2011300-SO	13	101	182	MT1	23.05
2011350-SO	13.5	108	189	MT1	26.07
2011400-SO	14	108	189	MT1	26.07
2021400-SO	14	114	212	MT2	26.95
2021450-SO	14.5	114	212	MT2	26.97
2021500-SO	15	114	212	MT2	27.05
2021550-SO	15.5	120	218	MT2	30.54
2021600-SO	16	120	218	MT2	32.96
2021650-SO	16.5	125	223	MT2	35.79
2021700-SO	17	125	223	MT2	36.22
2021750-SO	17.5	130	228	MT2	37.77
2021800-SO	18	130	228	MT2	37.77
2021850-SO	18.5	135	233	MT2	42.47
2021900-SO	19	135	233	MT2	42.47
2021950-SO	19.5	140	238	MT2	47.32
2022000-SO	20	140	238	MT2	47.32
2022050-SO	20.5	145	243	MT2	49.24
2022100-SO	21	145	243	MT2	48.94
2022150-SO	21.5	150	248	MT2	54.22
2022200-SO	22	150	248	MT2	55.77
2022250-SO	22.5	155	253	MT2	56.01
2022300-SO	23	155	253	MT2	63.87
2032350-SO	23.5	155	276	MT3	63.87
2032400-SO	24	160	281	MT3	63.87
2032450-SO	24.5	160	281	MT3	67.84
2032500-SO	25	160	281	MT3	67.84
2032550-SO	25.5	165	286	MT3	74.07
2032600-SO	26	165	286	MT3	74.07
2032650-SO	26.5	165	286	MT3	76.79

Unit:mm

		ℓ	L	Ds	List Price (USD)
2032700-SO	27	170	291	MT3	76.95
2032750-SO	27.5	170	291	MT3	80.52
2032800-SO	28	170	291	MT3	80.52
2032850-SO	28.5	175	296	MT3	77.53
2032900-SO	29	175	296	MT3	92.44
2032950-SO	29.5	175	296	MT3	104.87
2033000-SO	30	175	296	MT3	104.87
2033050-SO	30.5	180	301	MT3	110.03
2033100-SO	31	180	301	MT3	123.24
2033150-SO	31.5	180	301	MT3	123.24
2033200-SO	32	185	306	MT3	143.06
2043200-SO	32	185	334	MT4	143.06
2043250-SO	32.5	185	334	MT4	145.89
2043300-SO	33	185	334	MT4	146.11
2043350-SO	33.5	185	334	MT4	163.23
2043400-SO	34	190	339	MT4	163.23
2043450-SO	34.5	190	339	MT4	168.59
2043500-SO	35	190	339	MT4	168.59
2043550-SO	35.5	190	339	MT4	170.85
2043600-SO	36	195	344	MT4	170.85
2043650-SO	36.5	195	344	MT4	171.47
2043700-SO	37	195	344	MT4	172.95
2043750-SO	37.5	195	344	MT4	195.09
2043800-SO	38	200	349	MT4	195.09
2043850-SO	38.5	200	349	MT4	196.72
2043900-SO	39	200	349	MT4	196.72
2043950-SO	39.5	200	349	MT4	196.72
2044000-SO	40	200	349	MT4	196.72
2044050-SO	40.5	205	354	MT4	201.51
2044100-SO	41	205	354	MT4	201.51
2044150-SO	41.5	205	354	MT4	201.51
2044200-SO	42	205	354	MT4	201.51
2044250-SO	42.5	205	354	MT4	216.49
2044300-SO	43	210	359	MT4	216.49
2044350-SO	43.5	210	359	MT4	278.30
2044400-SO	44	210	359	MT4	278.30
2044450-SO	44.5	210	359	MT4	278.30
2044500-SO	45	210	359	MT4	278.30
2044550-SO	45.5	215	359	MT4	284.65
2044600-SO	46	215	364	MT4	286.96
2044650-SO	46.5	215	364	MT4	321.97
2044700-SO	47	215	364	MT4	321.97
2044750-SO	47.5	215	364	MT4	321.97
2044800-SO	48	220	369	MT4	321.97
2044850-SO	48.5	220	369	MT4	321.97
2044900-SO	49	220	369	MT4	321.97
2044950-SO	49.5	220	369	MT4	353.78
2045000-SO	50	220	369	MT4	353.78

RECOMMENDATION CUTTING CONDITIONS

Please refer to SOMTA catalogue

MTS EXTRA LENGTH DRILL



HSS BLUE FINISH 30° h8

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
2421000-SO	10	200	315	MT1	58.34
2421050-SO	10.5	200	315	MT1	125.17
2421100-SO	11	200	315	MT1	90.66
2441100-SO	11	300	400	MT1	152.36
2421150-SO	11.5	200	315	MT1	126.25
2421200-SO	12	200	315	MT1	91.52
2441200-SO	12	300	400	MT1	110.13
2421300-SO	13	200	315	MT1	91.54
2441300-SO	13	300	400	MT1	105.61
2421400-SO	14	200	315	MT1	86.97
2441400-SO	14	300	400	MT1	112.65
2421500-SO	15	200	315	MT2	69.07
2441500-SO	15	300	400	MT2	96.94
2421600-SO	16	200	315	MT2	70.10
2441600-SO	16	300	400	MT2	106.32
2421700-SO	17	200	315	MT2	70.81
2441700-SO	17	300	400	MT2	99.51
2421800-SO	18	200	315	MT2	67.88

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
2441800-SO	18	300	400	MT2	96.57
2421900-SO	19	200	315	MT2	82.52
2441900-SO	19	300	400	MT2	109.44
2422000-SO	20	200	315	MT2	108.92
2442000-SO	20	300	400	MT2	125.70
2422100-SO	21	200	315	MT2	93.98
2442100-SO	21	300	400	MT2	155.52
2422200-SO	22	200	315	MT2	99.80
2442200-SO	22	300	400	MT2	138.92
2422300-SO	23	200	315	MT2	104.36
2442300-SO	23	300	400	MT2	145.37
2442400-SO	24	300	450	MT3	193.01
2442500-SO	25	300	450	MT3	173.84
2442600-SO	26	300	450	MT3	213.74
2442700-SO	27	300	450	MT3	220.75
2442800-SO	28	300	450	MT3	225.86
2442900-SO	29	300	450	MT3	206.51
2443000-SO	30	300	450	MT3	225.01

NEW

X-RATIO MORSE TAPER SHANK DRILL



HSS BLUE FINISH 30° h8

Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
2X10600-SO	6	57	138	MT1	10.15
2X10650-SO	6.5	63	144	MT1	10.15
2X10700-SO	7	69	150	MT1	10.15
2X10750-SO	7.5	69	150	MT1	10.15
2X10800-SO	8	75	156	MT1	10.15
2X10850-SO	8.5	75	156	MT1	10.15
2X10900-SO	9	81	162	MT1	10.15
2X10950-SO	9.5	81	162	MT1	10.15
2X11000-SO	10	87	168	MT1	10.15
2X11050-SO	10.5	87	168	MT1	10.15
2X11100-SO	11	94	175	MT1	10.15
2X11150-SO	11.5	94	175	MT1	10.15
2X11200-SO	12	101	182	MT1	11.00
2X11250-SO	12.5	101	182	MT1	11.00
2X11300-SO	13	101	182	MT1	11.82
2X11350-SO	13.5	108	189	MT1	11.82
2X11400-SO	14	108	189	MT1	14.02
2X21400-SO	14	114	212	MT2	14.02
2X21450-SO	14.5	114	212	MT2	14.02
2X21500-SO	15	114	212	MT2	16.36
2X21550-SO	15.5	120	218	MT2	16.36
2X21600-SO	16	120	218	MT2	16.73
2X21650-SO	16.5	125	223	MT2	17.09
2X21700-SO	17	125	223	MT2	18.62
2X21750-SO	17.5	130	228	MT2	18.62
2X21800-SO	18	130	228	MT2	20.54
2X21850-SO	18.5	135	233	MT2	20.54
2X21900-SO	19	135	233	MT2	20.95

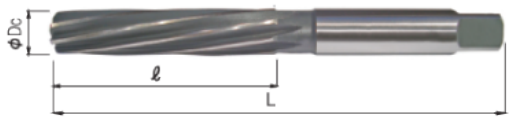
Unit:mm

EDP NO.	Dc	ℓ	L	Ds	List Price (USD)
2X21950-SO	19.5	140	238	MT2	20.95
2X22000-SO	20	140	238	MT2	25.50
2X22050-SO	20.5	145	243	MT2	25.50
2X22100-SO	21	145	243	MT2	29.14
2X22150-SO	21.5	150	248	MT2	29.14
2X22200-SO	22	150	248	MT2	31.10
2X22250-SO	22.5	155	253	MT2	31.10
2X22300-SO	23	155	253	MT2	31.10
2X32350-SO	23.5	155	276	MT3	39.92
2X32400-SO	24	160	281	MT3	39.92
2X32450-SO	24.5	160	281	MT3	39.92
2X32500-SO	25	160	281	MT3	39.89
2X32550-SO	25.5	165	286	MT3	39.89
2X32600-SO	26	165	286	MT3	49.61
2X32650-SO	26.5	165	286	MT3	49.61
2X32700-SO	27	170	291	MT3	51.96
2X32750-SO	27.5	170	291	MT3	51.96
2X32800-SO	28	170	291	MT3	54.22
2X32850-SO	28.5	175	296	MT3	54.22
2X32900-SO	29	175	296	MT3	58.30
2X32950-SO	29.5	175	296	MT3	58.30
2X33000-SO	30	175	296	MT3	74.66
2X33050-SO	30.5	180	301	MT3	74.66
2X33100-SO	31	180	301	MT3	84.58
2X33150-SO	31.5	180	301	MT3	84.58
2X33200-SO	32	185	306	MT3	84.58
2X43200-SO	32	185	306	MT4	91.02

RECOMMENDATION CUTTING CONDITIONS

Please refer to SOMTA catalogue

PARALLEL HAND REAMERS



HSS 10° H7

BS328
ISO 236/1
DIN206

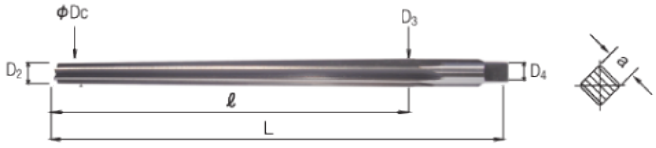
Unit:mm

EDP NO.	Dc	ℓ	L	List Price (USD)
7010150-SO	1.5	20	41	7.72
7010200-SO	2	25	50	8.02
7010250-SO	2.5	29	58	8.11
7010300-SO	3	31	62	8.87
7010350-SO	3.5	35	71	8.43
7010400-SO	4	38	76	8.76
7010450-SO	4.5	41	81	11.5
7010500-SO	5	44	87	13.45
7010550-SO	5.5	47	93	14.22
7010600-SO	6	47	93	14.82
7010650-SO	6.5	50	100	15.95
7010700-SO	7	54	107	18.98
7010750-SO	7.5	54	107	19.71
7010800-SO	8	58	115	20.44
7010850-SO	8.5	58	115	20.99
7010900-SO	9	62	124	21.8
7010950-SO	9.5	62	124	23.4
7011000-SO	10	66	133	23.5
7011050-SO	10.5	66	133	24.04
7011100-SO	11	71	142	33.79
7011150-SO	11.5	71	142	41.76
7011200-SO	12	76	152	26.05
7011250-SO	12.5	76	152	36.49
7011300-SO	13	76	152	28.09
7011350-SO	13.5	81	163	42.6
7011400-SO	14	81	163	33.48

EDP NO.	Dc	ℓ	L	List Price (USD)
7011450-SO	14.5	81	163	44.2
7011500-SO	15	81	163	35.39
7011550-SO	15.5	87	175	48.99
7011600-SO	16	87	175	39.74
7011700-SO	17	87	175	40.63
7011800-SO	18	93	188	43.15
7011900-SO	19	93	188	46.05
7012000-SO	20	100	201	49.51
7012100-SO	21	100	201	52.47
7012200-SO	22	107	215	59.92
7012300-SO	23	107	215	62.77
7012400-SO	24	115	231	88.15
7012500-SO	25	115	231	73.47
7012600-SO	26	115	231	104.19
7012700-SO	27	115	247	89.22
7012800-SO	28	124	247	93.06
7012900-SO	29	124	247	120.84
7013000-SO	30	124	247	103.26
7013100-SO	31	133	265	134.24
7013200-SO	32	133	265	116.09
7013300-SO	33	133	265	154.45
7013400-SO	34	133	265	135.52
7013500-SO	35	133	284	140.94
7013600-SO	36	142	284	179.39
7013700-SO	37	142	284	159.24
7013800-SO	38	142	284	190.85

RECOMMENDATION CUTTING CONDITIONS
Please refer to SOMTA catalogue

HAND TAPER PIN REAMERS



HSS

Unit:mm

DIN 9

EDP NO.	Dc	D2	D3	D4	ℓ	a	L	List Price (USD)
7310200-SO	2	1.9	2.86	3.15	48	2.5	68	30.28
7310250-SO	2.5	2.4	3.36	3.15	48	2.5	68	31.42
7310300-SO	3	2.9	4.06	4	58	3.15	80	29.95
7310400-SO	4	3.9	5.26	5	68	4	93	32.75
7310500-SO	5	4.9	6.36	6.3	73	5	100	34.3
7310600-SO	6	5.9	8	8	105	6.3	135	45.71
7310800-SO	8	7.9	10.8	10	145	8	180	64.99
7311000-SO	10	9.9	13.4	12.5	175	10	215	71.8
7311200-SO	12	11.8	16	14	210	11.2	255	87.07
7311300-SO	(13)	12.8	17	15	210	11.2	255	95.03
7311400-SO	(14)	13.8	18	16	210	12.5	255	100.1
7311600-SO	16	15.8	20.4	18	230	14	280	124.52
7312000-SO	20	19.8	24.8	22.4	250	18	310	162.4
7312500-SO	25	24.7	30.7	28	300	22.4	370	234.48

RECOMMENDATION CUTTING CONDITIONS

Please refer to SOMTA catalogue

PARALLEL SHANK MACHINE CHUCKING REAMERS



HSS-CO 10° H7

DIN 212

Unit:mm

		ℓ	L	Ds	List Price (USD)
7510200-SO	2	11	49	2	11.29
7510240-SO	2.4	14	57	2.4	17.8
7510250-SO	2.5	14	57	2.5	13.26
7510260-SO	2.6	14	57	2.6	17.01
7510270-SO	2.7	15	61	2.7	17.01
7510280-SO	2.8	15	61	2.8	17.01
7510300-SO	3	15	61	3	12.43
7510310-SO	3.1	16	65	3.1	17.07
7520318-SO	3.175 (1/8)	16	65	3.2	17.07
7510320-SO	3.2	16	65	3.2	12.52
7510340-SO	3.4	18	70	3.4	17.16
7510350-SO	3.5	18	70	3.5	12.62
7510360-SO	3.6	18	70	3.6	20.58
7510380-SO	3.8	19	75	4	20.49
7510400-SO	4	19	75	4	16.05
7510410-SO	4.1	19	75	4	19.89
7510420-SO	4.2	19	75	4	15.76
7510430-SO	4.3	21	80	4.5	21.9
7510440-SO	4.4	21	80	4.5	21.9
7510450-SO	4.5	21	80	4.5	17.16
7520476-SO	4.762 (3/16)	23	86	5	22.7
7510480-SO	4.8	23	86	5	22.43
7510490-SO	4.9	23	86	5	22.43
7510500-SO	5	23	86	5	18
7510510-SO	5.1	23	86	5	22.13
7510520-SO	5.2	23	86	5	22.13
7510530-SO	5.3	23	86	5	18
7510540-SO	5.4	26	93	5.6	22.64
7510550-SO	5.5	26	93	5.6	18.19
7510560-SO	5.6	26	93	5.6	23.18
7510570-SO	5.7	26	93	5.6	23.18
7510580-SO	5.8	26	93	5.6	23.47
7510600-SO	6	26	93	5.6	19.04
7510610-SO	6.1	28	101	6.3	23.47
7510620-SO	6.2	28	101	6.3	23.47
7510630-SO	6.3	28	101	6.3	23.47
7520635-SO	6.35 (1/4)	28	101	6.3	19.05
7510640-SO	6.4	28	101	6.3	23.68
7510650-SO	6.5	28	101	6.3	23.98
7510660-SO	6.6	28	101	6.3	23.98
7510670-SO	6.7	28	101	6.3	19.55
7510680-SO	6.8	31	109	7.1	25.17
7510700-SO	7	31	109	7.1	20.74
7510710-SO	7.1	31	109	7.1	24.57
7510720-SO	7.2	31	109	7.1	24.57
7510730-SO	7.3	31	109	7.1	24.96
7510750-SO	7.5	31	109	7.1	20.45
7510780-SO	7.8	33	117	8	25.17
7510790-SO	7.9	33	117	8	25.17
7520794-SO	7.938 (5/16)	33	117	8	24.87
7510800-SO	8	33	117	8	20.67
7510810-SO	8.1	33	117	8	26.05
7510820-SO	8.2	33	117	8	25.75
7510830-SO	8.3	33	117	8	25.75

Unit:mm

		ℓ	L	Ds	List Price (USD)
7510840-SO	8.4	33	117	8	25.44
7510850-SO	8.5	33	117	8	21.23
7510860-SO	8.6	36	125	9	27.36
7510880-SO	8.8	36	125	9	27.06
7510890-SO	8.9	36	125	9	26.76
7510900-SO	9	36	125	9	22.25
7510910-SO	9.1	36	125	9	30.82
7510950-SO	9.5	36	125	9	23.1
7520953-SO	9.525 (3/8)	38	133	10	31.3
7510960-SO	9.6	38	133	10	31.3
7510970-SO	9.7	38	133	10	31
7510980-SO	9.8	38	133	10	31
7510990-SO	9.9	38	133	10	30.71
7511000-SO	10	38	133	10	25.43
7511010-SO	10.1	38	133	10	31.33
7511020-SO	10.2	38	133	10	31.05
7511030-SO	10.3	38	133	10	31.05
7511050-SO	10.5	38	133	10	26.07
7511060-SO	10.6	38	133	10	34.16
7511070-SO	10.7	41	142	10	35.07
7511080-SO	10.8	41	142	10	35.07
7511090-SO	10.9	41	142	10	35.07
7511100-SO	11	41	142	10	29.21
7511110-SO	11.1	41	142	10	35.5
7521111-SO	11.112 (7/16)	41	142	10	35.5
7511150-SO	11.5	41	142	10	35.2
7511170-SO	11.7	41	142	10	34.9
7511180-SO	11.8	41	142	10	29.94
7511190-SO	11.9	44	151	10	36.75
7511200-SO	12	44	151	10	31.2
7511210-SO	12.1	44	151	10	37.19
7511220-SO	12.2	44	151	10	36.88
7511230-SO	12.3	44	151	10	36.88
7511240-SO	12.4	44	151	10	36.88
7511250-SO	12.5	44	151	10	31.92
7511260-SO	12.6	44	151	10	36.84
7511270-SO	12.7	44	151	10	36.84
7521270-SO	12.7 (1/2)	44	151	10	36.54
7511280-SO	12.8	44	151	10	36.25
7511290-SO	12.9	44	151	10	36.25
7511300-SO	13	44	151	10	31.26
7511350-SO	13.5	47	160	12.5	37.81
7511400-SO	14	47	160	12.5	32.41
7521429-SO	14.287 (9/16)	50	162	12.5	41.91
7511450-SO	14.5	50	162	12.5	41.91
7511500-SO	15	50	162	12.5	36.64
7511550-SO	15.5	52	170	12.5	44.3
7521588-SO	15.875 (5/8)	52	170	12.5	44.3
7511600-SO	16	52	170	12.5	38.54
7511700-SO	17	54	175	14	39.06
7511800-SO	18	56	182	14	44.62
7521905-SO	19.05 (3/4)	60	195	16	50.89
7512000-SO	20	60	195	16	54.01

RECOMMENDATION CUTTING CONDITIONS

Please refer to SOMTA catalogue



NC SPOT DRILL

For accurate positioning of holes
Ideal for CNC lathes
Alternative to using Centre drills



HSS-C05 | TiAlN | 20° | h8

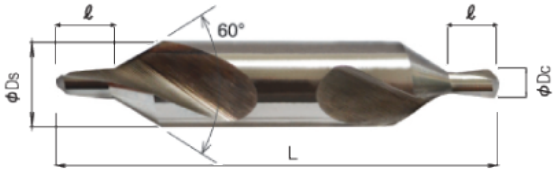
DIN 1879

Unit:mm

EDP NO.	Dc	ℓ	L	List Price (USD)
1840300-SO	3	10	46	2.74
1840400-SO	4	12	55	3.56
1840500-SO	5	14	62	4.00
1840600-SO	6	16	66	5.50
1840800-SO	8	21	79	6.96
1841000-SO	10	25	89	9.92
1841200-SO	12	30	102	15.85
1841600-SO	16	38	115	25.62
1842000-SO	20	45	131	41.70

FORM A CENTRE DRILL

For general centering operations on workpieces requiring additional machining between centres



HSS

DIN 333

Unit:mm

EDP NO.	Dc	Ds	ℓ	L	List Price (USD)
1140080-SO	0.8	3.15	1.1	25	4.61
1140100-SO	1	3.15	1.3	31.5	4.3
1140125-SO	(1.25)	3.15	1.6	31.5	4.36
1140160-SO	1.6	4	2	35.5	4.72
1140200-SO	2	5	2.5	40	5.5
1140250-SO	2.5	6.3	3.1	45	5.78
1140315-SO	3.15	8	3.9	50	7.37
1140400-SO	4	10	5	56	9.88
1140500-SO	(5)	12.5	6.3	63	12.28
1140630-SO	6.3	16	8	71	17.48
1140800-SO	(8)	20	10.1	80	34.47
1141000-SO	10	25	12.8	100	46.17

RECOMMENDATION CUTTING CONDITIONS
Please refer to SOMTA catalogue







shaping your dreams

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