



**HSS Threaded Shank
Woodruff Cutters**

HSS

12mm/1/2" Shank Ø

Produces closed slots for woodruff keys to **DIN 6888**.
For milling structural, carburizing and heat treated steel up to 900N/mm².
Manufactured to **BS 122 : Part 4 : 1980**.
Made to **DIN 850**. Shank to **DIN 1835/D**.



Metric Limits of Tolerances

Diameter	+ 0.000	-0.127
Width		
2 up to 4	- 0.014	-0.028
4 up to 7	- 0.020	-0.038
7mm up	- 0.025	-0.047

Inch Limits of Tolerance

Diameter	+0.015"	-0.100"
Width	+0.000"	-0.001"



**EXTENDED
RANGE**

Metric Sizes

Diameter (mm)	Width	Overall Length	Weight each	Order Code SHR-061	Price/1 TB
10.5	2.0	57.0	44g	-6500A	2664.00
10.5	3.0	57.0	44g	-6502C	3315.00
11.0	3.5	54.0	11g	-6502J	3750.00
13.5	2.5	57.0	44g	-6504E	3800.00
13.5	3.0	57.0	45g	-6505F	3123.00
13.5	4.0	57.0	45g	-6506G	3977.00
16.5	3.0	57.0	46g	-6508J	5250.00
16.5	4.0	57.0	46g	-6509K	4882.00
16.5	5.0	57.0	46g	-6510L	4882.00
19.5	3.0	57.0	46g	-6511M	4437.00
19.5	4.0	57.0	46g	-6512N	4411.00
19.5	5.0	57.0	50g	-6513P	5900.00
19.5	6.0	57.0	51g	-6514C	6750.00
22.5	4.0	63.5	55g	-6514Q	5700.00
22.5	5.0	63.5	57g	-6515R	5800.00
22.5	6.0	63.5	59g	-6516S	5500.00
25.5	6.0	70.0	67g	-6518V	6400.00
25.5	8.0	70.0	73g	-6520X	6300.00
32.5	6.0	70.0	81g	-6527D	7300.00

HSS Plain Shank Woodruff Cutters



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12mm/1/2" Shank Ø

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Diameter	+ 0.000	-0.127
Width		
2 up to 4	- 0.014	-0.028
4 up to 7	- 0.020	-0.038
7mm up	- 0.025	-0.047



Metric Sizes

Diameter (mm)	Width	Overall Length	Weight each	Order Code SHR-061	Price/1 TB
10.5	2.0	57.0	44g	-4500A	2750.00
10.5	3.0	57.0	44g	-4502C	3450.00
11.0	3.5	57.0	44g	-4503D	4500.00
13.5	2.5	57.0	44g	-4504E	3800.00
13.5	3.0	57.0	45g	-4505F	3250.00
13.5	4.0	57.0	45g	-4506G	4150.00
16.5	3.0	57.0	46g	-4508J	5500.00
16.5	4.0	57.0	46g	-4509K	5150.00
16.5	5.0	57.0	46g	-4510L	5150.00
19.5	3.0	57.0	46g	-4511M	4650.00
19.5	4.0	57.0	46g	-4512N	4650.00
19.5	5.0	57.0	50g	-4513P	6200.00
19.5	6.0	57.0	51g	-4514C	7100.00
22.5	4.0	63.5	55g	-4514Q	5999.00
22.5	5.0	63.5	55g	-4515R	6950.00
22.5	6.0	63.5	59g	-4516S	6100.00
25.5	6.0	70.0	67g	-4518V	6700.00
25.5	8.0	70.0	73g	-4520X	6700.00
28.5	8.0	70.0	80g	-4522Z	9500.00
32.5	6.0	70.0	81g	-4527D	7700.00
38.5	7.0	70.5	85g	-4528E	11250.00
38.5	9.0	70.5	85g	-4530G	12500.00

HSS Threaded Shank T-Slot Cutters

HSS

Used for machining T-slots on slide tables, fixtures etc. to **DIN 650**. For milling structural, carburising and heat treated steel up to 900N/mm². Sizes up to 16mm and 1/2" have six flutes and 18mm and 5/8" upwards have eight flutes.
Made to **DIN 851**. Shank to **DIN 1835/D**.

Flute form 12° RH/LH

Metric Limits of Tolerance

Diameter	+0.13 - 0.13
Length	+0.13 - 0.13

Inch Limits of Tolerance

Diameter	+0.005" - 0.005"
Length	+0.005" - 0.005"



Metric Sizes

Bolt Size	Head Depth	Diameter Cutter	Diameter Shank	Diameter Neck	Overall Length	Weight each	Order Code SHR-061	Price/1 TB
M6.0	6.0	12.5	10.0	5.0	57.0	36g	-6550A	3071.00
M8.0	8.0	16.0	10.0	6.5	62.0	41g	-6551B	3951.00
M10.0	8.0	18.0	12.0	8.0	65.0	50g	-6552C	4559.00
M12.0	10.0	22.0	12.0	10.0	74.0	52g	-6553D	5350.00
M14.0	11.0	25.0	16.0	12.0	82.0	84g	-6554E	6150.00
M16.0	12.0	28.0	16.0	13.0	85.0	159g	-6555F	6900.00
M18.0	14.0	32.0	25.0	15.0	90.0	347g	-6556G	8300.00
M20.0	16.0	36.0	25.0	17.0	103.0	298g	-6557H	13250.00

HSS Plain Shank T-Slot Cutters

HSS

Used for machining T-slots on slide tables, fixtures etc. to **DIN 650**. For milling structural, carburising and heat treated steel up to 900N/mm². Sizes up to 16mm and 1/2" have six flutes and 18mm and 5/8" upwards have eight flutes.
Made to **DIN 851**.

Flute form 12° RH/LH

Metric Limits of Tolerance

Diameter	+0.13 - 0.13
Length	+0.13 - 0.13



Metric Sizes

Bolt Size	Head Depth	Diameter Cutter	Diameter Shank	Diameter Neck	Overall Length	Weight each	Order Code SHR-061	Price/1 TB
M6.0	6.0	12.5	10.0	5.0	57.0	36g	-4550A	3200.00
M8.0	8.0	16.0	10.0	6.5	62.0	41g	-4551B	4450.00
M10.0	8.0	18.0	12.0	8.0	65.0	50g	-4552C	4750.00
M12.0	10.0	22.0	12.0	10.0	74.0	52g	-4553D	5600.00
M14.0	11.0	25.0	16.0	12.0	82.0	84g	-4554E	6450.00
M16.0	12.0	28.0	16.0	13.0	85.0	159g	-4555F	7250.00
M18.0	14.0	32.0	25.0	15.0	90.0	347g	-4556G	8750.00
M20.0	16.0	36.0	25.0	17.0	103.0	298g	-4557H	13900.00
M24.0	20.0	45.0	25.0	21.0	122.0		-4558J	23000.00



HSS Threaded Shank Dovetail Cutters (Single Angle Cutters)

Designed to produce dovetail slideways in machine tool tables, jigs and fixtures. Bright finish, straight helix.
Made to **DIN 1833**. Shank to **DIN 1835D**.



HSS

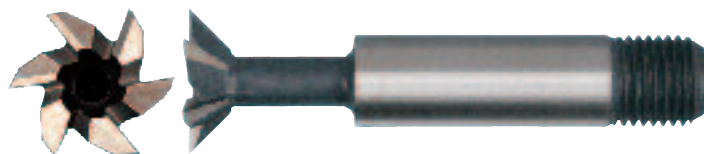
Metric Limits of Tolerance

+0.25 - 0.00

Inch Limits of Tolerance

+0.010 - 0.000

45° Corner Angle - Metric (Form C)



Diameter (mm)	Cut Length	Shank Dia.	Overall Length	Number of Teeth	Order Code SHR-061	Price/1 TB
13.0	3.0	12.0	63.5	6	-6200A	3431.00
16.0	4.0	12.0	66.5	6	-6201B	4024.00
19.0	5.5	12.0	66.5	6	-6202C	4491.00
25.0	7.5	12.0	70.0	8	-6204E	6450.00
32.0	8.5	16.0	74.5	8	-6206G	8550.00

60° Corner Angle - Metric (Form C)



Diameter (mm)	Cut Length	Shank Dia.	Overall Length	Number of Teeth	Order Code SHR-061	Price/1 TB
13.0	4.0	12.0	63.5	6	-6150A	3264.00
16.0	5.5	12.0	66.5	6	-6151B	3996.00
19.0	7.0	12.0	66.5	6	-6152C	4491.00
20.0	8.0	12.0	63.0	6	-6152P	4787.00
25.0	12.0	12.0	70.0	8	-6154E	6450.00
32.0	13.5	16.0	74.5	8	-6156G	8550.00

HSS Threaded Shank Corner Rounding Cutters

HSS

Designed to produce convex corner radii. For milling structural, carburizing and heat treated steel up to 900N/mm².

Manufactured to works standards.

5° RH Flutes.

Bright finish, straight helix.

Radii tolerance: ± 0.005 ".

Shank to **DIN 1835/D**.

HSS Plain Shank Corner Rounding Cutters

HSS

Designed to produce convex corner radii. For milling structural, carburizing and heat treated steel up to 900N/mm².

Manufactured to works standards.

5° RH Flutes.

Bright finish, straight helix.

Radii tolerance: ± 0.005 ".



Metric Sizes

Radius (mm)	Head Dia.	Shank Dia.	Overall Length	Number of Teeth	Weight each	Order Code SHR-061	Price/1 TB
2.0	12.0	12.0	60.5	4	50g	-6408Z	2175.00
3.0	12.0	12.0	60.5	4	50g	-6410A	2944.00
4.0	14.0	12.0	60.5	4	54g	-6411B	4054.00
5.0	16.0	16.0	60.5	4	86g	-6412C	3498.00
6.0	22.0	16.0	63.5	4	109g	-6413D	4942.00
8.0	25.0	25.0	73.0	4	250g	-6414E	6200.00
10.0	28.0	25.0	79.5	4	272g	-6415F	7950.00
12.0	35.0	25.0	82.5	4	325g	-6416G	11750.00

Metric Sizes

Radius (mm)	Head Dia.	Shank Dia.	Overall Length	Number of Teeth	Weight each	Order Code SHR-061	Price/1 TB
2.0	12.0	12.0	60.5	4	50g	-4408Z	2250.00
3.0	12.0	12.0	60.5	4	50g	-4410A	3050.00
4.0	14.0	12.0	60.5	4	54g	-4411B	4250.00
5.0	16.0	16.0	60.5	4	86g	-4412C	3650.00
6.0	22.0	16.0	63.5	4	109g	-4413D	5200.00
8.0	25.0	25.0	73.0	4	250g	-4414E	6550.00
10.0	28.0	25.0	79.5	4	272g	-4415F	8350.00
12.0	35.0	25.0	82.5	4	325g	-4416G	12300.00

HSS Plain Shank Dovetail Cutters (Single Angle Cutters)

Designed to produce dovetail slideways in machine tool tables, jigs and fixtures.

Bright finish, straight helix.

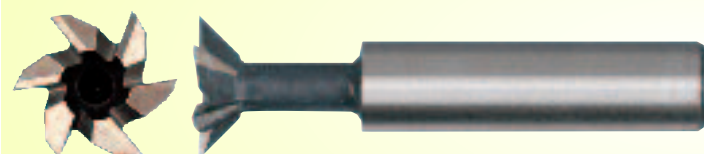
Made to **DIN 1833**.

Ø Tolerances

Metric	Inch
+0.25 - 0.00	+0.010 - 0.000

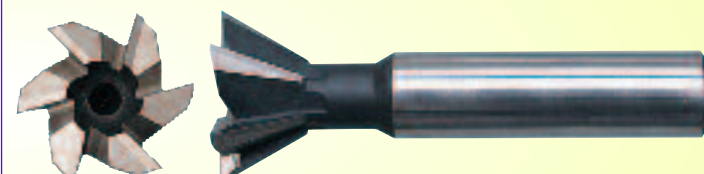
HSS

45° Corner Angle - Metric (Form C)



Diameter (mm)	Cut Length	Shank Dia.	Overall Length	Number of Teeth	Order Code SHR-061	Price/1 TB
13.0	3.0	12.0	63.5	6	-4200A	3600.00
16.0	4.0	12.0	66.5	6	-4201B	4200.00
19.0	5.5	12.0	66.5	6	-4202C	4700.00
20.0	5.5	12.0	62.0	6	-4202P	5050.00
25.0	7.5	12.0	70.0	8	-4204E	6750.00
32.0	8.5	16.0	74.5	8	-4206G	9850.00

60° Corner Angle - Metric (Form C)



Diameter (mm)	Cut Length	Shank Dia.	Overall Length	Number of Teeth	Order Code SHR-061	Price/1 TB
13.0	4.0	12.0	63.5	6	-4150A	3400.00
16.0	5.5	12.0	66.5	6	-4151B	4150.00
19.0	7.0	12.0	66.5	6	-4152C	4700.00
20.0	8.0	12.0	63.0	6	-4152P	5050.00
25.0	12.0	12.0	70.0	8	-4154E	6750.00
32.0	13.5	16.0	74.5	8	-4156G	8950.00

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR



2 Flute End Mills (Slot Drills)

Threaded Shank

Used for milling keyways and slots. Bright finish. Flute type: 30° helix. Manufactured to BS 122: Part 4: 1980.

Tolerances as below

Short Series S210T

EXTENDED RANGE

HSS

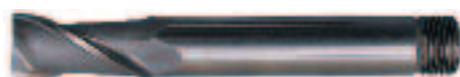


Dia. (mm)	Flute Length	Overall Length	Shank Dia.	Order Code SHR-061	Price/1 TB
1.50	3.0	47.0	6.0	-5600A	1250.00
2.00	4.0	48.0	6.0	-5601B	900.00
2.50	5.0	49.0	6.0	-5602C	1150.00
3.00	5.0	49.0	6.0	-5603D	900.00
3.50	6.0	50.0	6.0	-5604E	1150.00
4.00	7.0	51.0	6.0	-5605F	900.00
4.50	7.0	51.0	6.0	-5606G	1150.00
5.00	8.0	52.0	6.0	-5607H	900.00
5.50	8.0	52.0	6.0	-5608J	1150.00
6.00	8.0	52.0	6.0	-5609K	900.00
6.50	10.0	60.0	10.0	-5610L	1100.00
7.00	10.0	60.0	10.0	-5611M	850.00
7.50	10.0	60.0	10.0	-5612N	1350.00
8.00	11.0	61.0	10.0	-5613P	850.00
8.50	11.0	61.0	10.0	-5614Q	1343.00
9.00	11.0	61.0	10.0	-5615R	979.00
9.50	11.0	61.0	10.0	-5616S	1460.00
10.00	13.0	63.0	10.0	-5617T	958.00
10.50	13.0	70.0	12.0	-5618V	1287.00
11.00	13.0	70.0	12.0	-5619W	1088.00
11.50	13.0	70.0	12.0	-5620X	1672.00
12.00	16.0	73.0	12.0	-5621Y	1009.00
13.00	16.0	73.0	12.0	-5622Z	1297.00
14.00	16.0	73.0	12.0	-5624A	1226.00
15.00	16.0	73.0	16.0	-5625B	1169.00
16.00	19.0	79.0	16.0	-5626C	1354.00
17.00	19.0	79.0	16.0	-5627D	1942.00
18.00	19.0	79.0	16.0	-5628E	1607.00
19.00	19.0	79.0	16.0	-5629F	2313.00
20.00	22.0	82.0	16.0	-5630G	1726.00
25.00	26.0	102.0	25.0	-5635M	3076.00
30.00	26.0	102.0	25.0	-5640S	4724.00
32.00	32.0	112.0	25.0	-5641T	6550.00
34.00	32.0	112.0	25.0	-5643W	9500.00

Long Series 5230T

EXTENDED RANGE

HSS



Dia. (mm)	Flute Length	Overall Length	Shank Dia.	Order Code SHR-061	Price/1 TB
2.00	3.0	51.0	6.0	-5800A	1545.00
2.50	6.5	54.0	6.0	-5801B	1967.00
3.00	11.0	60.5	6.0	-5802C	1251.00
3.50	12.5	66.5	6.0	-5803D	1967.00
4.00	12.5	66.5	6.0	-5804E	1251.00
4.50	12.5	66.5	6.0	-5805F	1967.00
5.00	12.5	70.0	6.0	-5806G	1251.00
5.50	16.0	76.0	6.0	-5807H	1967.00
6.00	16.0	76.0	6.0	-5808J	1251.00
6.50	16.0	76.0	10.0	-5809K	1834.00
7.00	16.0	76.0	10.0	-5810L	1950.00
7.50	16.0	76.0	10.0	-5811M	2100.00
8.00	19.0	79.5	10.0	-5812N	1300.00
8.50	22.0	82.5	10.0	-5813P	1928.00
9.00	22.0	82.5	10.0	-5814Q	1475.00
9.50	22.0	82.5	10.0	-5815D	2150.00
10.00	22.0	82.5	10.0	-5815R	1220.00
11.00	22.0	89.0	12.0	-5816S	2200.00
12.00	25.5	95.0	12.0	-5817T	1271.00
13.00	25.5	95.0	12.0	-5818V	2236.00
14.00	28.5	101.5	12.0	-5819W	1667.00
15.00	31.5	108.0	16.0	-5820X	2494.00
16.00	31.5	108.0	16.0	-5821Y	1863.00
17.00	35.0	114.5	16.0	-5822Z	3486.00
18.00	35.0	114.5	16.0	-5824A	2365.00
19.00	38.0	120.5	16.0	-5825B	4116.00
20.00	38.0	120.5	16.0	-5826C	2585.00
25.00	44.5	159.0	25.0	-5829F	4618.00
30.00	51.0	159.0	25.0	-5832J	8400.00
32.00	51.0	159.0	25.0	-5833K	10950.00

Multi Flute End Mills

Threaded Shank

Used for diesinking, slot milling and profile milling. Bright finish. Flute type: 30° helix. Manufactured to BS 122: Part 4: 1980.

Tolerances as below

Short Series E410T

NEW

HSS



Dia. (mm)	Flute Length	Overall Length	Shank Dia.	Order Code SHR-061	Price/1 TB
4 Flute					
2.00	4.0	51.0	6.0	-5100A	1350.00
2.50	6.5	51.0	6.0	-5101B	1600.00
3.00	9.5	54.0	6.0	-5102C	900.00
3.50	12.5	57.0	6.0	-5103D	1500.00
4.00	12.5	57.0	6.0	-5104E	900.00
4.50	12.5	57.0	6.0	-5105F	1500.00
5.00	16.0	60.5	6.0	-5106G	900.00
5.50	16.0	60.5	6.0	-5107H	1500.00
6.00	16.0	60.5	6.0	-5108J	900.00
6.50	16.0	60.5	10.0	-5109K	1200.00
7.00	15.0	60.5	10.0	-5110L	850.00
7.50	18.0	63.5	10.0	-5111M	1300.00
8.00	18.0	63.5	10.0	-5112N	800.00
8.50	21.0	66.5	10.0	-5113P	1300.00
9.00	21.0	66.5	10.0	-5114Q	900.00
9.50	21.0	66.5	10.0	-5115R	1350.00
10.00	21.0	66.5	10.0	-5116S	800.00
10.50	19.0	66.5	12.0	-5117T	1550.00
11.00	19.0	66.5	12.0	-5118V	1050.00
11.50	22.5	70.0	12.0	-5119W	1700.00
12.00	24.0	70.0	12.0	-5120X	1050.00
13.00	24.5	70.0	16.0	-5121Y	1250.00
14.00	28.5	73.5	16.0	-5122N	1200.00
15.00	26.5	77.0	16.0	-5123A	1550.00
16.00	26.5	80.0	16.0	-5124B	1400.00
17.00	32.0	80.0	16.0	-5125C	2300.00
18.00	35.0	88.0	16.0	-5126D	1650.00
19.00	38.0	83.5	16.0	-5127E	2450.00
20.00	38.0	83.5	16.0	-5128F	1850.00
6 Flute					
25.00	41.5	101.5	25.0	-5133L	3300.00
30.00	46.0	104.5	25.0	-5136P	6999.00
32.00	46.0	108.0	25.0	-5137Q	7750.00

Long Series E430T

NEW

HSS



Dia. (mm)	Flute Length	Overall Length	Shank Dia.	Order Code SHR-061	Price/1 TB
4 Flute					
3.00	19.0	63.5	6.0	-5401A	950.00
3.50	25.5	70.0	6.0	-5402B	1650.00
4.00	25.5	70.0	6.0	-5403C	999.00
4.50	31.5	70.0	6.0	-5404D	1300.00
5.00	31.5	76.0	6.0	-5405E	1050.00
5.50	31.5	76.0	6.0	-5406F	1650.00
6.00	35.0	76.0	6.0	-5407G	1050.00
6.50	34.0	79.5	10.0	-5408H	1500.00
7.00	34.0	79.5	10.0	-5409J	1350.00
7.50	34.0	79.5	10.0	-5410K	1450.00
8.00	34.0	79.5	10.0	-5411L	999.00
8.50	37.0	82.5	10.0	-5412M	1600.00
9.00	37.0	82.5	10.0	-5413N	1400.00
10.00	37.0	82.5	10.0	-5414P	1050.00
11.00	41.5	89.0	12.0	-5415Q	1750.00
12.00	49.5	95.0	12.0	-5416R	1250.00
13.00	50.0	95.0	12.0	-5417S	2100.00
14.00	57.0	101.5	12.0	-5418T	1900.00
15.00	58.5	108.5	16.0	-5419V	2750.00
16.00	58.5	108.5	16.0	-5420W	1950.00
17.00	67.0	115.0	16.0	-5421X	3750.00
18.00	70.0	115.0	16.0	-5422Y	2850.00
19.00	76.0	121.5	16.0	-5423N	4200.00
20.00	76.0	121.5	16.0	-5424A	2700.00
6 Flute					
25.00	100.0	157.0	25.0	-5427D	5100.00
32.00	100.0	159.0	25.0	-5431H	10450.00

Ball Nose 2 Flute End Mills (Slot Drills)



Threaded Shank

Used for diesinking, slot milling and profile milling. Bright finish. Flute type: 30° helix. Manufactured to BS 122: Part 4: 1980.

Tolerances as below

Short Series B210T

NEW

HSS



Dia. (mm)	Flute Length	Overall Length	Shank Dia.	Order Code SHR-061	Price/1 TB
2.00	3.0	49.0	6.0	-5950A	1547.00
2.50	4.5	51.0	6.0	-5951B	2189.00
3.00	7.0	51.0	6.0	-5952C	1512.00
4.00	9.5	52.5	6.0	-5953D	1547.00
5.00	9.5	52.5	6.0	-5954E	1547.00
6.00	11.0	56.5	6.0	-5955F	1547.00
6.50	11.0	56.5	6.0	-5955R	1650.00
7.00	11.0	58.5	10.0	-5956G	1820.00
8.00	12.5	58.5	10.0	-5957H	1436.00
9.00	14.5	58.5	10.0	-5958J	1842.00
10.00	14.5	60.5	10.0	-5959K	1642.00
11.00	17.5	65.0	12.0	-5960L	2874.00
12.00	19.0	66.5	12.0	-5961M	1913.00
13.00	19.0	66.5	12.0	-5962N	3487.00
14.00	22.0	68.5	12.0	-5963P	3066.00
15.00	22.0	72.0	16.0	-5964Q	4060.00
16.00	22.0	72.0	16.0	-5965R	3196.00
17.00	24.0	73.0	16.0	-5966S	4198.00
18.00	24.0	74.0	16.0	-5967T	4530.00
19.00	25.5	77.0	16.0	-5968V	4991.00
20.00	25.5	77.0	16.0	-5969W	3486.00
25.00	28.5	97.0	25.0	-5972Z	6500.00
30.00	30.0	93.5	25.0	-5976C	8500.00

Long Series Type B230T

NEW

HSS



Dia. (mm)	Flute Length	Overall Length	Shank Dia.	Order Code SHR-061	Price/1 TB
3.00	11.0	60.5	6.0	-5935A	2258.00
4.00	12.5	66.5	6.0	-5935M	2070.00
5.00	12.5	70.0	6.0	-5936B	2258.00
6.00	16.0	76.0	6.0	-5936N	1880.00
7.00	16.0	76.0	10.0	-5937C	2234.00
8.00	19.0	79.5	10.0	-5937P	2070.00
9.00	22.0	82.5	10.0	-5938D	2331.00
10.00	22.0	82.5	10.0	-5938Q	2106.00
11.00	22.0	89.0	12.0	-5939E	3450.00
12.00	25.5	95.0	12.0	-5939R	2859.00
13.00	25.5	95.0	12.0	-5940F	4647.00
14.00	28.5	101.5	12.0	-5940S	4325.00
15.00	31.5	108.0	16.0	-5941G	5050.00
16.00	31.5	108.0	16.0	-5941T	4139.00
18.00	35.0	114.5	16.0	-5942V	5850.00
20.00	38.0	120.5	16.0	-5943W	4882.00
25.00	44.5	159.0	25.0	-5945L	8700.00
30.00	85.0	158.0	25.0	-5946M	11500.00



Threaded Shank Slot Drills

Flute helix 30°.

Manufactured to BS 122:4

Short Series



HSS-Co

Dia. (mm)	Flute Length	Overall Length	Shank Dia.	Order Code SHR-061	Price/1 TB
1.50	2.5	48.5	6.0	-5664A	1544.00
2.00	3.0	49.0	6.0	-5665B	1116.00
2.50	4.5	51.0	6.0	-5666C	1402.00
3.00	7.0	51.0	6.0	-5667D	1116.00
3.50	7.5	52.5	6.0	-5668E	1402.00
4.00	9.5	52.5	6.0	-5669F	1116.00
4.50	9.5	52.5	6.0	-5670G	1402.00
5.00	9.5	52.5	6.0	-5671H	1116.00
5.50	11.0	55.5	6.0	-5672J	1402.00
6.00	11.0	56.5	6.0	-5673K	1116.00
6.50	11.0	58.5	10.0	-5674A	1368.00
7.00	11.0	58.5	10.0	-5674L	1078.00
7.50	11.0	58.5	10.0	-5675B	1643.00
8.00	12.5	59.5	10.0	-5675M	1058.00
8.50	14.5	60.5	10.0	-5676C	1700.00
9.00	14.5	60.5	10.0	-5676N	1181.00
9.50	14.5	60.5	10.0	-5677D	1800.00
10.00	14.5	60.5	10.0	-5677P	1157.00
10.50	17.5	65.0	12.0	-5678E	1600.00
11.00	17.5	65.0	12.0	-5678Q	1500.00
12.00	19.0	66.5	12.0	-5679R	1220.00
13.00	19.0	66.5	12.0	-5680G	1566.00
14.00	22.0	68.5	12.0	-5680S	1480.00
15.00	22.0	72.0	16.0	-5681H	2500.00
16.00	22.0	72.0	16.0	-5681T	1784.00
17.00	24.0	72.0	16.0	-5682J	2700.00
18.00	24.0	72.0	16.0	-5682V	1999.00
19.00	25.5	77.0	16.0	-5683K	2793.00
20.00	25.5	77.0	16.0	-5683W	2100.00
25.00	27.0	95.0	25.0	-5686A	4750.00
30.00	30.0	93.5	25.0	-5688C	7250.00

Long Series Type S231T

NEW



Dia. (mm)	Flute Length	Overall Length	Shank Dia.	Order Code SHR-061	Price/1 TB
2.00	3.0	51.0	6.0	-5853A	1927.00
3.00	11.0	60.5	6.0	-5855C	1511.00
4.00	12.5	66.5	6.0	-5857E	1511.00
5.00	12.5	70.0	6.0	-5859G	1511.00
6.00	16.0	76.0	6.0	-5861J	1511.00
6.50	16.0	76.0	10.0	-5861S	3300.00
7.00	16.0	76.0	10.0	-5862A	1459.00
8.00	19.0	79.5	10.0	-5862K	1459.00
9.00	22.0	82.5	10.0	-5863B	1782.00
10.00	22.0	82.5	10.0	-5863L	1475.00
11.00	22.0	82.5	12.0	-5863V	2450.00
12.00	25.5	95.0	12.0	-5864M	2100.00
14.00	28.5	101.5	12.0	-5865N	2300.00
15.00	31.5	108.0	16.0	-5865X	3500.00
16.00	31.5	108.0	16.0	-5866P	2400.00
18.00	35.0	114.5	16.0	-5867Q	3650.00
20.00	38.0	120.5	16.0	-5868R	3750.00

Threaded Shank Slot Drills 3 Flute

Bright finish. Flute helix 30°. Manufactured to BS 122: Part 4: 1980.

HSS-Co

Regular Series Type 5321T

EXTENDED RANGE



Dia. (mm)	Flute Length	Overall Length	Shank Dia.	Order Code SHR-061	Price/1 TB
3.00	9.5	54.0	6.0	-6021A	1528.00
3.50	12.5	57.0	6.0	-6021C	1651.00
4.00	12.5	57.0	6.0	-6021E	1532.00
4.50	12.5	57.0	6.0	-6021G	1760.00
5.00	16.0	60.5	6.0	-6021J	1514.00
5.50	16.0	60.5	6.0	-6021L	1943.00
6.00	16.0	60.5	6.0	-6021N	1526.00
8.00	19.0	63.5	10.0	-6021Q	1932.00
10.00	22.0	66.5	10.0	-6021S	2116.00
12.00	25.5	71.5	12.0	-6021V	2498.00
14.00	28.5	74.5	12.0	-6021X	3129.00
16.00	32.0	80.0	16.0	-6021Z	3749.00
18.00	35.0	83.5	16.0	-6022B	4256.00
20.00	38.0	90.0	16.0	-6022D	4968.00
25.00	43.0	108.0	25.0	-6022K	8400.00
30.00	46.0	108.0	25.0	-6022R	10500.00
32.00	49.0	109.5	25.0	-6022T	15050.00

SHANK MILLING CUTTERS

GROUP 061

Threaded Shank End Mills

HSS-Co

Used for profile milling and producing open slots.

Bright finish. Flute helix 30°.

Manufactured to BS 122 : Part 4 : 1980.

Regular Series Type E411T



Dia. (mm)	Flute Length	Overall Length	Shank Dia.	Order Code SHR-061	Price/1 TB
2 Flute					
1.50	2.5	51.0	6.0	-5184Y	2400.00
4 Flute					
2.00	4.0	51.0	6.0	-5185A	1650.00
2.50	6.5	51.0	6.0	-5186B	1950.00
3.00	9.5	54.0	6.0	-5187C	1100.00
4.00	12.5	57.0	6.0	-5189E	1100.00
5.00	16.0	60.5	6.0	-5191G	1100.00
6.00	16.0	60.5	6.0	-5193J	1100.00
6.50	16.0	60.5	10.0	-5193R	1450.00
7.00	15.0	60.5	10.0	-5193X	1100.00
7.50	18.0	63.5	10.0	-5194C	1200.00
8.00	18.0	63.5	10.0	-5194K	950.00
8.50	21.0	66.5	10.0	-5194S	1600.00
9.00	21.0	66.5	10.0	-5194Y	1100.00
9.50	21.0	66.5	10.0	-5195D	1850.00
10.00	21.0	66.5	10.0	-5195L	900.00
11.00	19.0	66.5	12.0	-5195Z	1545.00
12.00	24.0	70.0	12.0	-5196M	1250.00
13.00	24.5	70.0	12.0	-5197F	2100.00
14.00	28.5	73.5	12.0	-5197N	1850.00
15.00	26.5	77.0	16.0	-5198G	2100.00
16.00	26.5	80.0	16.0	-5198P	1750.00
17.00	32.0	80.0	16.0	-5199H	2800.00
18.00	35.0	88.0	16.0	-5199Q	2050.00
19.00	38.0	83.5	16.0	-5200J	2950.00
20.00	38.0	84.5	16.0	-5200R	2500.00
6 Flute					
22.00	41.5	98.5	25.0	-5201S	4500.00
25.00	41.5	101.5	25.0	-5202T	3950.00
30.00	46.0	104.5	25.0	-5204W	6050.00
32.00	46.0	108.0	25.0	-5205X	9250.00

Regular Series Type E411T

NEW



Dia. (mm)	Flute Length	Overall Length	Shank Dia.	Order Code SHR-061	Price/1 TB
4 Flute					
3/32"	1/4"	2"	1/4"	-5158B	1300.00
1/8"	3/8"	2 1/8"	1/4"	-5159C	1100.00
5/32"	1/2"	2 1/4"	1/4"	-5160D	1300.00
3/16"	1/2"	2 1/4"	1/4"	-5161E	1100.00
1/4"	5/8"	2 3/8"	1/4"	-5163G	1100.00
5/16"	23/32"	2 1/2"	3/8"	-5165J	1350.00
3/8"	27/32"	2 5/8"	3/8"	-5166K	950.00
7/16"	3/4"	2 5/8"	1/2"	-5167L	1750.00
1/2"	15/16"	2 3/4"	1/2"	-5168M	1250.00
9/16"	1 1/8"	2 7/8"	1/2"	-5169N	1950.00
5/8"	1 1/16"	3 1/32"	5/8"	-5170P	1750.00
3/4"	1 1/2"	3 3/32"	5/8"	-5172R	2250.00
6 Flute					
1"	1 11/16"	4"	1"	-5176W	4250.00

Long Series Type E431T

NEW



Dia. (mm)	Flute Length	Overall Length	Shank Dia.	Order Code SHR-061	Price/1 TB
4 Flute					
3.00	19.0	63.5	6.0	-5473A	1200.00
4.00	25.5	70.0	6.0	-5475C	1200.00
5.00	31.5	76.0	6.0	-5477E	1200.00
6.00	31.5	76.0	6.0	-5479G	1200.00
8.00	34.0	79.5	10.0	-5480H	1095.00
10.00	37.0	82.5	10.0	-5481J	1300.00
12.00	49.5	95.0	12.0	-5482K	1400.00
14.00	57.0	101.5	12.0	-5483L	2500.00
16.00	58.5	108.5	16.0	-5484M	2700.00
18.00	70.0	115.0	16.0	-5485N	3500.00
20.00	76.0	121.5	16.0	-5486P	3750.00
6 Flute					
25.00	100.0	157.0	25.0	-5488R	4500.00

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

SWISS+TECH**HSS-Co 8% Threaded Shank
Slot Drills 2 Flute****HSS-Co 8%****TiCN****TiALN**

Centre cutting. Threaded shank to **DIN 1835D**.
Cutting diameter to **e8**.
Shank diameter to **h6**.

HSS-Co 8% Uncoated

For general production machining.

HSS-Co 8% TiCN Coated

Extends cutter tool life and improves work material surface finish.

HSS-Co 8% TiALN Coated

Dissipates and resists heat, reduces surface friction coupled with high surface hardness.

**EXTENDED
RANGE****Series 28****Short Series** Dimensions to **DIN 327**

Diameter (mm)	Flute Length	Shank Diameter	Overall Length	Weight per 10	SDH-2TS HSS-Co 8%		SDN-2TS TiCN Coated		SDL-2TS TiALN Coated	
					Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB
2.00	4.0	6.0	48.0	102g	-2802A	773.00	-	-	-	-
2.50	5.0	6.0	49.0	102g	-2802L	773.00	-	-	-	-
3.00	5.0	6.0	49.0	102g	-2803A	773.00	-2833A	1391.00	-	-
3.50	6.0	6.0	50.0	102g	-2803L	773.00	-	-	-	-
4.00	7.0	6.0	51.0	105g	-2804A	670.00	-2834A	1391.00	-2864A	1391.00
4.50	7.0	6.0	51.0	108g	-2804L	773.00	-	-	-	-
5.00	8.0	6.0	52.0	110g	-2805A	773.00	-2835A	1391.00	-	-
5.50	8.0	6.0	52.0	110g	-2805L	773.00	-	-	-	-
6.00	8.0	6.0	52.0	110g	-2806A	721.00	-2836A	1391.00	-2866A	1391.00
7.00	10.0	10.0	60.0	380g	-2807A	927.00	-	-	-	-
8.00	11.0	10.0	61.0	338g	-2808A	876.00	-	-	-	-
9.00	11.0	10.0	61.0	353g	-2809A	1082.00	-	-	-	-
10.00	13.0	10.0	63.0	369g	-2810A	979.00	-2840A	1391.00	-	-
11.00	13.0	12.0	70.0	456g	-2811A	1185.00	-	-	-	-
12.00	16.0	12.0	73.0	600g	-2812A	1133.00	-	-	-	-
13.00	16.0	12.0	73.0	608g	-2813A	1494.00	-	-	-	-
14.00	16.0	12.0	73.0	631g	-2814A	1391.00	-	-	-	-
15.00	16.0	16.0	73.0	640g	-2815A	1597.00	-	-	-	-
16.00	19.0	16.0	79.0	1134g	-2816A	1597.00	-	-	-	-
18.00	19.0	16.0	79.0	1200g	-2818A	1854.00	-	-	-	-
20.00	22.0	20.0	88.0	1900g	-2820A	2163.00	-	-	-	-
22.00	22.0	20.0	88.0	1902g	-2822A	3142.00	-	-	-	-
25.00	26.0	25.0	102.0	3538g	-2825A	3863.00	-	-	-	-

NEW**Series 29****Regular Series** Dimensions to **DIN 844**

Diameter (mm)	Flute Length	Shank Diameter	Overall Length	Weight per 10	SDH-2TR HSS-Co 8%		SDN-2TR TiCN Coated		SDL-2TR TiALN Coated	
					Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB
4.00	11.0	6.0	55.0	107g	-	-	-2934A	1545.00	-	-
5.00	13.0	6.0	57.0	110g	-2905A	1391.00	-	-	-	-
6.00	13.0	6.0	57.0	120g	-2906A	1391.00	-2936A	1545.00	-2966A	1545.00
12.00	26.0	12.0	83.0	652g	-2912A	1391.00	-	-	-	-
20.00	38.0	20.0	104.0	2104g	-2920A	2575.00	-	-	-	-
22.00	38.0	20.0	104.0	2280g	-	-	-2952A	5253.00	-	-

NEW**Series 30****Long Series** Dimensions to **DIN 844**

Diameter (mm)	Flute Length	Shank Diameter	Overall Length	Weight per 10	SDH-2TL HSS-Co 8%		SDN-2TL TiCN Coated	
					Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB
8.00	19.0	10.0	88.0	368g	-	-	-3038A	2112.00
10.00	22.0	10.0	95.0	404g	-	-	-3040A	2472.00

SWISS+TECH**HSS-Co 8% Threaded
Shank Slot Drills 3 Flute**

Centre cutting. Threaded shank to **DIN 1835D**.
Cutting diameter to **e8**.
Shank diameter to **h6**.

HSS-Co 8%**TiCN****TiALN****HSS-Co 8% Uncoated**

For general production machining.

HSS-Co 8% TiCN Coated

Extends cutter tool life and improves work material surface finish.

HSS-Co 8% TiALN Coated

Dissipates and resists heat, reduces surface friction coupled with high surface hardness.

**Series 32****Short Series** Dimensions to **DIN 327**

Diameter (mm)	Flute Length	Shank Diameter	Overall Length	Weight each	SDH-3TS HSS-Co 8%		SDN-3TS TiCN Coated		SDL-3TS TiALN Coated	
					Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB
3.00	5.0	6.0	49.0	10g	-3203A	773.00	-3233A	1030.00	-	-
4.00	7.0	6.0	51.0	10g	-3204A	773.00	-3234A	1030.00	-	-
5.00	8.0	6.0	52.0	10g	-3205A	927.00	-3235A	1030.00	-3265A	979.00
6.00	8.0	6.0	61.0	11g	-3206A	773.00	-3236A	1030.00	-3266A	979.00
8.00	11.0	10.0	63.0	34g	-3208A	876.00	-3238A	1442.00	-3268A	1391.00
10.00	13.0	10.0	73.0	37g	-3210A	1082.00	-3240A	1494.00	-3270A	1442.00
12.00	16.0	12.0	73.0	62g	-3212A	1236.00	-3242A	1700.00	-3272A	1700.00
14.00	16.0	12.0	79.0	62g	-3214A	1545.00	-	-	-	-
16.00	19.0	16.0	88.0	104g	-3216A	1803.00	-	-	-3276A	2266.00
20.00	22.0	20.0	88.0	187g	-3220A	2421.00	-	-	-3280A	3296.00
22.00	22.0	20.0	88.0	195g	-3222A	3708.00	-	-	-	-

Series 33**Regular Series** Dimensions to **DIN 844**

Diameter (mm)	Flute Length	Shank Diameter	Overall Length	Weight each	SDH-3TR HSS-Co 8%		SDN-3TR TiCN Coated		SDL-3TR TiALN Coated	
					Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB
3.00	8.0	6.0	52.0	10g	-3303A	927.00	-3333A	1133.00	-	-
4.00	11.0	6.0	55.0	10g	-3304A	927.00	-3334A	1133.00	-3364A	1133.00
5.00	13.0	6.0	57.0	10g	-3305A	979.00	-3335A	1236.00	-3365A	1236.00
6.00	13.0	6.0	57.0	12g	-3306A	979.00	-3336A	1082.00	-3366A	1082.00
7.00	16.0	10.0	66.0	36g	-3307A	876.00	-	-	-	-
8.00	19.0	10.0	69.0	36g	-3308A	1133.00	-3338A	1494.00	-3368A	1494.00
9.00	19.0	10.0	69.0	36g	-3309A	1082.00	-	-	-	-
10.00	22.0	10.0	72.0	40g	-3310A	1236.00	-3340A	1648.00	-3370A	1648.00
11.00	22.0	12.0	79.0	40g	-3311A	1236.00	-	-	-	-
12.00	26.0	12.0	83.0	66g	-3312A	1391.00	-3342A	1751.00	-3372A	1803.00
13.00	26.0	12.0	83.0	66g	-3313A	1545.00	-	-	-	-
14.00	26.0	12.0	83.0	68g	-3314A	1700.00	-3344A	2112.00	-3374A	2112.00
16.00	32.0	16.0	92.0	121g	-3316A	1957.00	-3346A	2318.00	-3376A	2266.00
20.00	38.0	20.0	104.0	206g	-3320A	2936.00	-3350A	3605.00	-3380A	3657.00
22.00	38.0	20.0	104.0	219g	-3322A	3605.00	-	-	-	-
25.00	45.0	25.0	121.0	364g	-3325A	4635.00	-	-	-	-

Series 34**Long Series** Dimensions to **DIN 844**

Diameter (mm)	Flute Length	Shank Diameter	Overall Length	Weight each	SDH-3TL HSS-Co 8%		SDN-3TL TiCN Coated		SDL-3TL TiALN Coated	
					Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB
3.00	12.0	6.0	65.0	10g	-3403A	1133.00	-3433A	1391.00	-	-
4.00	19.0	6.0	63.0	11g	-3404A	1133.00	-3434A	1494.00	-3464A	1494.00
5.00	24.0	6.0	68.0	13g	-3405A	1133.00	-	-	-3465A	1494.00
6.00	24.0	6.0	68.0	14g	-3406A	1133.00	-3436A	1494.00	-3466A	1494.00
8.00	38.0	10.0	88.0	40g	-3408A	1288.00	-3438A	1906.00	-3468A	1906.00
10.00	45.0	10.0	95.0	49g	-3410A	1442.00	-3440A	2060.00	-3470A	2060.00
12.00	53.0	12.0	110.0	79g	-3412A	1648.00	-3442A	2318.00	-3472A	2318.00
14.00	53.0	12.0	110.0	85g	-3414A	2112.00	-3444A	2884.00	-	-
16.00	63.0	16.0	123.0	142g	-3416A	2627.00	-3446A	3554.00	-3476A	3554.00
20.00	75.0	20.0	141.0	259g	-3420A	3811.00	-3450A	4893.00	-3480A	4893.00
25.00	90.0	25.0	166.0	480g	-3425A	4635.00	-	-	-	-

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

SWISS+TECH

**HSS-Co 8% Threaded Shank
End Mills 4 & 6 Flute**

HSS-Co 8%

TiCN

TiAlN



Centre cutting.
Threaded shank to **DIN 1835D**.
Shank cutting diameter to +0.04 -0.0.

**EXTENDED
RANGE**



HSS-Co 8% Uncoated

For general production machining.

HSS-Co 8% TiCN Coated

Extends cutter tool life and improves work material surface finish.

HSS-Co 8% TiAlN Coated

Dissipates and resists heat, reduces surface friction coupled with high surface hardness.



Series 36

Regular Series Dimensions to **DIN 844**

Diameter (mm)	Flute Length	Shank Diameter	Overall Length	No. of Flutes	Weight per 10	EMH-4TR HSS-Co 8%		EMN-4TR TiCN Coated		EML-4TR TiAlN Coated	
						Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB
2.00	7.0	6.0	51.0	4	108g	-3602A	979.00	-	-	-3662A	1225.00
3.00	8.0	6.0	52.0	4	111g	-3603A	979.00	-3633A	1391.00	-3663A	1225.00
4.00	11.0	6.0	55.0	4	114g	-3604A	979.00	-3634A	1225.00	-3664A	1485.00
5.00	13.0	6.0	57.0	4	126g	-3605A	1185.00	-3635A	1485.00	-3665A	1485.00
6.00	13.0	6.0	57.0	4	133g	-3606A	979.00	-3636A	1391.00	-3666A	1391.00
7.00	16.0	10.0	66.0	4	340g	-3607A	1236.00	-3637A	1648.00	-3667A	1545.00
8.00	19.0	10.0	69.0	4	375g	-3608A	1236.00	-3638A	1545.00	-3668A	1545.00
10.00	22.0	10.0	72.0	4	423g	-3610A	1288.00	-3640A	1610.00	-3670A	1610.00
12.00	26.0	12.0	83.0	4	688g	-3612A	1494.00	-3642A	1866.00	-3672A	1866.00
14.00	26.0	12.0	83.0	4	728g	-3614A	1854.00	-3644A	2317.00	-3674A	2317.00
16.00	32.0	16.0	92.0	4	1220g	-3616A	2060.00	-3646A	2575.00	-3676A	2730.00
18.00	32.0	16.0	92.0	4	1534g	-3618A	2575.00	-3648A	3218.00	-3678A	3218.00
20.00	38.0	20.0	104.0	4	2114g	-3620A	3090.00	-3650A	4532.00	-3680A	4223.00
25.00	45.0	25.0	121.0	6	2668g	-3625A ⁽¹⁾	5459.00	-3655A	6823.00	-	-

⁽¹⁾ EMH-6TR HSS-Co 8%

⁽²⁾ EMN-6TR TiCN Coated

Series 37

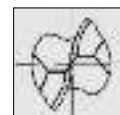
Long Series Dimensions to **DIN 844**

Diameter (mm)	Flute Length	Shank Diameter	Overall Length	No. of Flutes	Weight per 5	EMH-4TL HSS-Co 8%		EMN-4TL TiCN Coated		EML-4TL TiAlN Coated	
						Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB
4.00	19.0	6.0	63.0	4	61g	-3704A	1185.00	-	-	-	-
5.00	24.0	6.0	68.0	4	67g	-3705A	1185.00	-	-	-	-
6.00	24.0	6.0	68.0	4	74g	-3706A	1236.00	-3736A	1545.00	-3766A	1597.00
8.00	38.0	10.0	88.0	4	215g	-3708A	1391.00	-3738A	1738.00	-	-
10.00	45.0	10.0	95.0	4	260g	-3710A	1494.00	-3740A	1876.00	-	-
12.00	53.0	12.0	110.0	4	408g	-3712A	1700.00	-3742A	2369.00	-3772A	2369.00
14.00	53.0	12.0	110.0	4	471g	-3714A	1803.00	-	-	-	-
16.00	63.0	16.0	123.0	4	806g	-3716A	2730.00	-	-	-	-
20.00	75.0	20.0	141.0	4	1433g	-3720A	3966.00	-	-	-3780A	5459.00
25.00	90.0	25.0	166.0	4	-	-3725A	5500.00	-	-	-	-

HSS-Co 8% Threaded Shank Ball Nosed Slot Drills 2 Flute

Centre cutting.
Threaded shank to **DIN 1835D**.
Cutting diameter to **e8**.
Shank diameter to **h6**.

NEW



Series 39

Short Series Dimensions to **DIN 327**

Diameter (mm)	Flute Length	Shank Diameter	Overall Length	Weight per 5	SBH-2TS HSS-Co 8%		SBN-2TS TiCN Coated		SBL-2TS TiAlN Coated	
					Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB
2.00	5.0	6.0	49.0	52g	-3902A	1800.00	-	-	-3962A	2300.00
3.00	5.0	6.0	49.0	54g	-3903A	1800.00	-3933A	2300.00	-3963A	2350.00
4.00	7.0	6.0	51.0	55g	-3904A	1800.00	-3934A	2300.00	-	-
5.00	8.0	6.0	52.0	58g	-3905A	1800.00	-3935A	2400.00	-	-
6.00	8.0	6.0	52.0	60g	-3906A	1800.00	-3936A	2500.00	-3966A	2400.00
8.00	11.0	10.0	61.0	170g	-3908A	2200.00	-	-	-3968A	2500.00
9.00	13.0	10.0	63.0	184g	-3909A	2350.00	-	-	-3969A	2999.00
10.00	13.0	10.0	63.0	188g	-3910A	2350.00	-3940A	2750.00	-3970A	3500.00
12.00	16.0	12.0	73.0	306g	-3912A	2450.00	-	-	-3972A	3600.00
16.00	19.0	16.0	79.0	535g	-3916A	3750.00	-3946A	4700.00	-	-
20.00	22.0	20.0	88.0	944g	-3920A	4350.00	-	-	-	-

Series 40

Long Series Dimensions to **DIN 844**

Diameter (mm)	Flute Length	Shank Diameter	Overall Length	Weight each	SBH-2TL HSS-Co 8%		SBN-2TL TiCN Coated		SBL-2TL TiAlN Coated	
					Order Code SWT-163	Offer Price/1	Order Code SWT-163	Offer Price/1	Order Code SWT-163	Offer Price/1
3.00	8.0	6.0	56.0	10g	-4003A	2700.00	-	-	-	-
4.00	11.0	6.0	63.0	11g	-4004A	2500.00	-	-	-	-
5.00	13.0	6.0	68.0	14g	-4005A	2750.00	-	-	-	-
6.00	13.0	6.0	68.0	15g	-4006A	1957.00	-	-	-	-
8.00	19.0	10.0	88.0	44g	-4008A	2472.00	-	-	-	-
10.00	22.0	10.0	95.0	55g	-4010A	2627.00	-	-	-	-
12.00	26.0	12.0	110.0	85g	-4012A	3708.00	-	-	-	-



HSS-Co 5% Threaded Shank Coarse Pitch Roughing Cutters

Knuckle Form

For use when heavy metal removal and good surface finish are required. Bright finish.

Flute type: 25° spiral, roughing truncated.

Shank diameter to **js14**.

Metric Tolerances		Inch Tolerances	
Diameter	± 0.127mm	Diameter	± 0.005"

NEW

COARSE PITCH HSS-Co 5%



Standard Series K412T

Diameter (mm)	Flute Length	Overall Length	Shank Dia.	Number of Flutes	Weight each	Order Code SHR-061	Price/1 TB
6.00	16.0	60.5	6.0	3	26g	-6701A	4080.00
8.00	18.0	63.5	10.0	3	66g	-6702B	4211.00
9.00	25.0	68.0	9.0	4	35g	-6703C	4519.00
10.00	21.0	66.5	10.0	3	85g	-6705E	4759.00
12.00	24.0	70.0	12.0	4	116g	-6708H	4878.00
14.00	28.5	73.0	12.0	4	131g	-6710K	6100.00
16.00	26.0	77.0	16.0	4	212g	-6714P	6800.00
18.00	35.0	80.0	16.0	4	282g	-6716R	7450.00
20.00	38.0	83.5	25.0	4	300g	-6717S	7450.00
25.00	44.5	101.5	25.0	5	332g	-6722Y	11050.00
30.00	46.0	104.5	25.0	6	418g	-6729E	14900.00
32.00	50.0	108.0	25.0	6	450g	-6731G	16350.00

HSS-EV Threaded Shank Coarse Pitch Ripper Cutters

Industrial quality for shaping and forming metal components. 4 flute ripper cutters. Manufactured from sintered HSS-EV extra vanadium steel. Knuckle form, **h8** tolerance, standard length. Shank to **DIN 1835B**.

COARSE PITCH HSS-EV



Regular Series

Diameter (mm)	Flute Length	Overall Length	Shank Dia.	Number of Flutes	Weight each	Order Code SHR-061	Price/1 TB
8.00	19.0	69.0	10.0	4	35g	-2541B	1689.00
10.00	22.0	72.0	10.0	4	37g	-2542C	1766.00
12.00	26.0	83.0	12.0	4	71g	-2543D	1782.00
16.00	32.0	92.0	16.0	4	131g	-2544E	2472.00
20.00	38.0	104.0	20.0	4	228g	-2545F	2688.00
25.00	45.0	121.0	25.0	4	407g	-2546G	3873.00

SHANK MILLING CUTTERS

HSS-EV Threaded Shank Fine Pitch Ripper Cutters

4 flute ripper cutters. Manufactured from sintered HSS-EV extra vanadium steel.

Knuckle form, **h8** tolerance.

Standard length.

Dimensions to **DIN 844**.

Shank to **DIN 1835D**.

FINE PITCH HSS-EV



Regular Series

Dia. (mm)	Flute Length	Overall Length	Shank Dia.	No. of Flutes	Weight each	Order Code SHR-061	Price/1 TB
6.00	15.0	58.0	6.0	4	13g	-2600A	1689.00
8.00	20.0	70.0	10.0	4	36g	-2601B	1766.00
10.00	28.0	75.0	10.0	4	36g	-2602C	1736.00
12.00	33.0	85.0	12.0	4	71g	-2603D	1782.00
16.00	38.0	90.0	16.0	4	131g	-2604E	2472.00
20.00	47.0	110.0	20.0	4	228g	-2605F	2688.00
25.00	52.0	125.0	25.0	4	401g	-2606G	3873.00

HSS-EV TiCN Coated Screwed Shank Fine Pitch Ripper Cutters

4 flute ripper cutters. Manufactured from sintered HSS-EV extra vanadium steel.

Knuckle form. **h8** tolerance.

Dimensions to **DIN 844**.

Shank to **DIN 1835B**.

FINE PITCH HSS-EV TiCN



Regular Series

Dia. (mm)	Flute Length	Overall Length	Shank Dia.	No. of Flutes	Weight each	Order Code SHR-061	Price/1 TB
8.00	20.0	70.0	10.0	4	35g	-2801B	1999.00
10.00	28.0	75.0	10.0	4	37g	-2802C	2100.00
12.00	33.0	85.0	12.0	4	71g	-2803D	2200.00
16.00	38.0	90.0	16.0	4	131g	-2804E	3130.00
20.00	47.0	110.0	20.0	4	228g	-2805F	3500.00
25.00	52.0	125.0	25.0	4	407g	-2806G	4500.00

HSS-Co 5% Threaded Shank Coarse Pitch Roughing Cutters

Knuckle Form

For use when high metal removal rates area required.

Bright finish.

Flute type: 25° spiral,

oughing truncated.

Shank diameter to **js14**.

COARSE PITCH HSS-Co 5%



Long Series Type K432T

Diameter (mm)	Flute Length	Overall Length	Shank Dia.	Number of Flutes	Weight each	Order Code SHR-061	Price/1 TB
7.00	37.0	80.0	8.0	4	39g	-6757G	3845.00
10.00	37.0	82.5	10.0	3	44g	-6760A	4181.00
12.00	49.5	95.0	12.0	4	69g	-6763D	4933.00
16.00	58.5	108.5	16.0	4	139g	-6769K	7450.00
18.00	70.0	115.0	16.0	4	145g	-6771M	8450.00
20.00	76.0	121.5	16.0	4	187g	-6773P	9850.00
25.00	100.0	157.0	25.0	5	427g	-6779W	16100.00

SWISS+TECH

HSS-Co 8% Threaded Shank Coarse Pitch Roughing End Mills

Centre cutting.

Threaded shank to **DIN 1835D**.

Cutting diameter to **js12**.

Shank diameter to **h6**.

NEW



Series 42

Regular Series Dimensions to **DIN 844**

Diameter (mm)	Flute Length	Shank Diameter	Overall Length	No of Flutes	Weight each	RCH-4TR HSS-Co 8%		RCN-4TR TiCN Coated		RCL-4TR TiAlN Coated	
						Order Code	Price/1 TB	Order Code	Price/1 TB	Order Code	Price/1 TB
8.00	19.0	10.0	69.0	3	36g	-4208A ⁽¹⁾	2059.00	-	-	-	-
10.00	22.0	10.0	72.0	4	42g	-	-	-4240A	2524.00	-	-
12.00	26.0	12.0	83.0	4	68g	-	-	-4242A	2730.00	-	-
16.00	32.0	16.0	92.0	4	128g	-	-	-	-	-4276A	3863.00

⁽¹⁾ RCH-3TR HSS Co 8% ⁽²⁾ RCN-3TR TiCN Coated ⁽³⁾ RCL-3TR TiAlN Coated ⁽⁴⁾ RCH-5TR HSS Co 8% ⁽⁵⁾ RCN-5TR TiCN Coated ⁽⁶⁾ RCL-5TR TiAlN Coated

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR



Centre cutting. Weldon shank to DIN 1835B.
Cutting diameter to e8. Shank diameter to h6.

HSS-Co 8% Uncoated

For general production machining.

HSS-Co 8% TiCN Coated

Extends cutter tool life and improves work material surface finish.

HSS-Co 8% TiAlN Coated

Dissipates and resists heat, reduces surface friction coupled with high surface hardness.

**Series 01**

Short Series Dimensions to DIN 327



Diameter (mm)	Flute Length	Shank Diameter	Overall Length	Weight per 10	SDH-2WS HSS-Co 8%		SDN-2WS TiCN Coated		SDL-2WS TiAlN Coated	
					Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB
2.00	4.0	6.0	48.0	104g	-0102A	721.00	-0132A	927.00	-0162A	979.00
2.50	5.0	6.0	49.0	108g	-0102L	721.00	-0132L	927.00	-	-
3.00	5.0	6.0	49.0	110g	-0103A	721.00	-0133A	927.00	-0163A	979.00
3.50	6.0	6.0	50.0	111g	-0103L	824.00	-	-	-	-
4.00	7.0	6.0	51.0	112g	-0104A	721.00	-0134A	927.00	-0164A	979.00
4.50	7.0	6.0	51.0	114g	-0104L	721.00	-0134L	927.00	-	-
5.00	8.0	6.0	52.0	117g	-0105A	824.00	-0135A	1288.00	-0165A	1288.00
6.00	8.0	6.0	52.0	121g	-0106A	721.00	-0136A	927.00	-0166A	1236.00
7.00	10.0	10.0	60.0	336g	-0107A	927.00	-0137A	1391.00	-	-
8.00	11.0	10.0	61.0	345g	-0108A	927.00	-0138A	1339.00	-0168A	1339.00
9.00	11.0	10.0	61.0	355g	-0109A	1082.00	-0139A	1494.00	-0169A	1494.00
10.00	13.0	13.0	63.0	476g	-0110A	979.00	-0140A	1442.00	-0170A	1442.00
11.00	13.0	12.0	70.0	587g	-0111A	1185.00	-0141A	1648.00	-	-
12.00	16.0	12.0	73.0	613g	-0112A	1133.00	-0142A	1597.00	-0172A	1648.00
13.00	16.0	12.0	73.0	616g	-0113A	1494.00	-0143A	2009.00	-0173A	2009.00
14.00	16.0	12.0	73.0	615g	-0114A	1391.00	-0144A	1803.00	-0174A	1803.00
15.00	16.0	12.0	73.0	654g	-0115A	1597.00	-0145A	2060.00	-	-
16.00	19.0	16.0	79.0	1025g	-0116A	1597.00	-0146A	2060.00	-0176A	2060.00
18.00	19.0	16.0	79.0	1086g	-0118A	1854.00	-	-	-	-
20.00	22.0	20.0	88.0	1423g	-0120A	2163.00	-0150A	2987.00	-0180A	2987.00
25.00	26.0	25.0	102.0	3366g	-	-	-0155A	4738.00	-	-

Series 02

Regular Series Dimensions to DIN 844



Diameter (mm)	Flute Length	Shank Diameter	Overall Length	Weight per 10	SDH-2WR HSS-Co 8%		SDN-2WR TiCN Coated		SDL-2WR TiAlN Coated	
					Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB
2.00	7.0	6.0	51.0	108g	-0202A	1082.00	-	-	-	-
3.00	8.0	6.0	52.0	108g	-0203A	979.00	-0233A	1185.00	-	-
4.00	11.0	6.0	55.0	114g	-0204A	979.00	-0234A	1185.00	-	-
5.00	13.0	6.0	57.0	121g	-0205A	1082.00	-0235A	1288.00	-	-
6.00	13.0	6.0	57.0	150g	-0206A	979.00	-0236A	1288.00	-0266A	1082.00
8.00	19.0	10.0	69.0	361g	-0208A	1185.00	-0238A	1648.00	-	-
10.00	22.0	10.0	72.0	402g	-0210A	1339.00	-0240A	1751.00	-	-
12.00	26.0	12.0	83.0	652g	-0212A	1494.00	-0242A	1751.00	-	-
14.00	26.0	12.0	83.0	710g	-0214A	1906.00	-	-	-	-
16.00	32.0	16.0	92.0	950g	-0216A	2266.00	-0246A	2781.00	-	-
20.00	38.0	20.0	104.0	2114g	-0220A	2781.00	-	-	-	-
25.00	45.0	25.0	121.0	2400g	-0225A	3708.00	-	-	-	-

Series 03

Long Series Dimensions to DIN 844



Diameter (mm)	Flute Length	Shank Diameter	Overall Length	Weight per 10	SDH-2WL HSS-Co 8%		SDN-2WL TiCN Coated		SDL-2WL TiAlN Coated	
					Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB
2.00	7.0	6.0	54.0	110g	-0302A	927.00	-	-	-0362A	1236.00
3.00	8.0	6.0	56.0	116g	-0303A	876.00	-0333A	1185.00	-0363A	1133.00
4.00	11.0	6.0	63.0	120g	-0304A	1185.00	-0334A	1597.00	-0364A	1597.00
5.00	13.0	6.0	68.0	136g	-0305A	1082.00	-0335A	1442.00	-	-
6.00	13.0	6.0	68.0	153g	-0306A	1082.00	-0336A	1442.00	-0366A	1442.00
8.00	19.0	10.0	88.0	442g	-0308A	1545.00	-0338A	2163.00	-0368A	2163.00
10.00	22.0	10.0	95.0	528g	-0310A	1803.00	-0340A	2421.00	-0370A	2421.00
12.00	26.0	12.0	110.0	736g	-0312A	2163.00	-0342A	2833.00	-0372A	2833.00
16.00	32.0	16.0	123.0	1734g	-0316A	3554.00	-	-	-0376A	4532.00
20.00	38.0	20.0	141.0	3064g	-0320A	4069.00	-	-	-0380A	5305.00

SWISS+TECH**HSS-Co 8% Weldon Shank
Slot Drills 3 Flute**

Centre cutting. Weldon shank to **DIN 1835B**.
Cutting diameter to **e8**.
Shank diameter to **h6**.

HSS-Co 8%**TiCN****TiAlN****HSS-Co 8% Uncoated**

For general production machining.

HSS-Co 8% TiCN Coated

Extends cutter tool life and improves work material surface finish.

HSS-Co 8% TiAlN Coated

Dissipates and resists heat, reduces surface friction coupled with high surface hardness.

**Series 05****Short Series** Dimensions to **DIN 327**

Diameter (mm)	Flute Length	Shank Diameter	Overall Length	Weight per 10	SDH-3WS HSS-Co 8%		SDN-3WS TiCN Coated		SDL-3WS TiAlN Coated	
					Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB
2.00	4.0	6.0	48.0	107g	-0502A	773.00	-0532A	1030.00	-0562A	1082.00
3.00	5.0	6.0	49.0	109g	-0503A	773.00	-0533A	979.00	-0563A	979.00
4.00	7.0	6.0	51.0	112g	-0504A	773.00	-0534A	979.00	-0564A	979.00
5.00	8.0	6.0	52.0	117g	-0505A	876.00	-0535A	979.00	-0565A	979.00
6.00	8.0	6.0	52.0	123g	-0506A	773.00	-0536A	979.00	-0566A	979.00
7.00	10.0	10.0	60.0	339g	-0507A	1185.00	-0537A	1648.00	-	-
8.00	11.0	10.0	61.0	353g	-0508A	876.00	-0538A	1391.00	-0568A	1391.00
9.00	11.0	10.0	61.0	355g	-0509A	1442.00	-	-	-	1442.00
10.00	13.0	10.0	63.0	382g	-0510A	1082.00	-0540A	1442.00	-0570A	1442.00
12.00	16.0	12.0	73.0	617g	-0512A	1236.00	-0542A	1648.00	-0572A	1648.00
14.00	16.0	12.0	73.0	688g	-0514A	1545.00	-0544A	2009.00	-0574A	2318.00
16.00	19.0	16.0	79.0	1220g	-0516A	1751.00	-0546A	2215.00	-0576A	2215.00
20.00	22.0	20.0	88.0	1894g	-0520A	1751.00	-0550A	3245.00	-0580A	3245.00
25.00	26.0	25.0	102.0	3388g	-0525A	4481.00	-	-	-0585A	4275.00

**Series 06****Regular Series** Dimensions to **DIN 844**

Diameter (mm)	Flute Length	Shank Diameter	Overall Length	Weight per 10	SDH-3WR HSS-Co 8%		SDN-3WR TiCN Coated		SDL-3WR TiAlN Coated	
					Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB
3.00	8.0	6.0	52.0	111g	-0603A	927.00	-0633A	1082.00	-0663A	1082.00
4.00	11.0	6.0	55.0	114g	-0604A	927.00	-0634A	1082.00	-0664A	1082.00
5.00	13.0	6.0	57.0	129g	-0605A	927.00	-0635A	1185.00	-0665A	1185.00
6.00	13.0	6.0	57.0	128g	-0606A	876.00	-0636A	1082.00	-0666A	1082.00
7.00	16.0	10.0	66.0	340g	-	-	-0637A	2060.00	-	-
8.00	19.0	10.0	69.0	368g	-0608A	1082.00	-0638A	1442.00	-0668A	1442.00
9.00	19.0	10.0	69.0	-	-0609A	1442.00	-0639A	1800.00	-	-
10.00	22.0	10.0	72.0	404g	-0610A	1236.00	-0640A	1648.00	-0670A	1648.00
11.00	22.0	12.0	79.0	-	-0611A	1648.00	-0641A	2060.00	-	-
12.00	26.0	12.0	83.0	666g	-0612A	1391.00	-0642A	1751.00	-0672A	1751.00
13.00	26.0	12.0	83.0	-	-0613A	2318.00	-	-	-	-
14.00	26.0	12.0	83.0	710g	-0614A	1700.00	-0644A	2060.00	-0674A	2060.00
16.00	32.0	16.0	92.0	950g	-0616A	1906.00	-0646A	2266.00	-0676A	2266.00
18.00	32.0	16.0	92.0	-	-0618A	3245.00	-	-	-	-
20.00	38.0	20.0	104.0	2114g	-0620A	2884.00	-0650A	3657.00	-0680A	3657.00
25.00	45.0	25.0	121.0	2400g	-0625A	4635.00	-	-	-	-

**Series 07****Long Series** Dimensions to **DIN 844**

Diameter (mm)	Flute Length	Shank Diameter	Overall Length	Weight per 5	SDH-3WL HSS-Co 8%		SDN-3WL TiCN Coated		SDL-3WL TiAlN Coated	
					Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB
3.00	12.0	6.0	56.0	49g	-0703A	1082.00	-0733A	1339.00	-0763A	1339.00
4.00	19.0	6.0	63.0	59g	-0704A	1082.00	-0734A	1442.00	-0764A	1442.00
5.00	24.0	6.0	68.0	69g	-0705A	1082.00	-0735A	1442.00	-0765A	1442.00
6.00	24.0	6.0	68.0	72g	-0706A	1133.00	-0736A	1442.00	-0766A	1494.00
8.00	38.0	10.0	88.0	206g	-0708A	1288.00	-0738A	1906.00	-0768A	1906.00
10.00	45.0	10.0	95.0	245g	-0710A	1442.00	-0740A	2060.00	-0770A	2060.00
12.00	53.0	12.0	110.0	379g	-0712A	1648.00	-0742A	2318.00	-0772A	2318.00
14.00	53.0	12.0	110.0	420g	-0714A	2060.00	-0744A	3605.00	-0774A	2833.00
16.00	63.0	16.0	123.0	746g	-0716A	2575.00	-0746A	3502.00	-0776A	3502.00
20.00	75.0	20.0	141.0	1314g	-0720A	3760.00	-0750A	4893.00	-0780A	4893.00
22.00	75.0	20.0	141.0	1425g	-0722A	3811.00	-	-	-	-
25.00	90.0	25.0	166.0	2415g	-0725A	5511.00	-	-	-0785A	8601.00

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

SWISS+TECH**HSS-Co 8% Weldon Shank
End Mills 4 & 6 Flute****HSS-Co 8%****TiCN****TiAlN**Centre cutting. Weldon shank to **DIN 1835B**.

Shank cutting diameter

3 - 6mm to +0.04 -0.0.

8 - 20mm to +0.05 -0.0.

HSS-Co 8% Uncoated

For general production machining.

HSS-Co 8% TiCN Coated

Extends cutter tool life and improves work material surface finish.

HSS-Co 8% TiAlN Coated

Dissipates and resists heat, reduces surface friction coupled with high surface hardness.

**Series 09****Regular Series** Dimensions to **DIN 844**

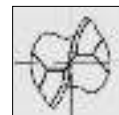
Diameter (mm)	Flute Length	Shank Diameter	Overall Length	No. of Flutes	Weight per 10	EMH-4WR HSS-Co 8%		EMN-4WR TiCN Coated		EML-4WR TiAlN Coated	
						Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB
2.00	7.0	6.0	51.0	4	108g	-0902A	927.00	-0932A	1185.00	-0962A	1236.00
3.00	8.0	6.0	52.0	4	111g	-0903A	927.00	-0933A	1185.00	-0963A	1236.00
4.00	11.0	6.0	55.0	4	117g	-0904A	927.00	-0934A	1185.00	-0964A	1236.00
5.00	13.0	6.0	57.0	4	126g	-0905A	1133.00	-0935A	1339.00	-0965A	1391.00
6.00	13.0	6.0	57.0	4	133g	-0906A	927.00	-0936A	1185.00	-0966A	1236.00
7.00	16.0	10.0	66.0	4	332g	-0907A	1185.00	-0937A	1185.00	-	-
8.00	19.0	10.0	69.0	4	375g	-0908A	1133.00	-0938A	1648.00	-0968A	1700.00
9.00	19.0	10.0	69.0	4	-	-0909A	1133.00	-	-	-	-
10.00	22.0	10.0	72.0	4	423g	-0910A	1288.00	-0940A	1751.00	-0970A	1751.00
11.00	22.0	12.0	79.0	4	-	-0911A	1442.00	-	-	-	-
12.00	26.0	12.0	83.0	4	688g	-0912A	1442.00	-0942A	1906.00	-0972A	1957.00
13.00	26.0	12.0	83.0	4	-	-0913A	1803.00	-	-	-	-
14.00	26.0	12.0	83.0	4	725g	-0914A	1803.00	-	-	-0974A	2266.00
15.00	26.0	12.0	83.0	4	-	-0915A	2009.00	-	-	-	-
16.00	32.0	16.0	92.0	4	1037g	-0916A	2009.00	-0946A	2472.00	-0976A	2524.00
17.00	32.0	16.0	92.0	4	-	-0917A	2524.00	-	-	-	-
18.00	32.0	16.0	92.0	4	1390g	-0918A	2524.00	-	-	-0978A	2524.00
19.00	32.0	16.0	92.0	4	-	-0919A	3039.00	-	-	-	-
20.00	38.0	20.0	104.0	4	2114g	-0920A	3039.00	-0950A	3914.00	-0980A	3914.00
25.00	45.0	25.0	121.0	6	2400g	-0925A ⁽¹⁾	5459.00	-0955A ⁽²⁾	6386.00	-0985A ⁽³⁾	6386.00

⁽¹⁾ EMH-6WR HSS-Co 8%⁽²⁾ EMN-6WR TiCN Coated⁽³⁾ EML-6WR TiAlN Coated**Series 10****Long Series** Dimensions to **DIN 844**

Diameter (mm)	Flute Length	Shank Diameter	Overall Length	No. of Flutes	Weight per 5	EMH-4WL HSS-Co 8%		EMN-4WL TiCN Coated		EML-4WL TiAlN Coated	
						Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB
3.00	12.0	6.0	56.0	4	55g	-1003A	1133.00	-1033A	1391.00	-1063A	1442.00
4.00	19.0	6.0	63.0	4	61g	-1004A	1133.00	-1034A	1442.00	-1064A	1442.00
5.00	24.0	6.0	68.0	4	67g	-1005A	1133.00	-1035A	1442.00	-1065A	1442.00
6.00	24.0	6.0	68.0	4	74g	-1006A	1185.00	-1036A	1494.00	-1066A	1442.00
8.00	38.0	10.0	88.0	4	215g	-1008A	1339.00	-1038A	1854.00	-1068A	1906.00
10.00	45.0	10.0	95.0	4	260g	-1010A	1442.00	-1040A	1957.00	-1070A	1957.00
12.00	53.0	12.0	110.0	4	408g	-1012A	1751.00	-1042A	2215.00	-1072A	2215.00
14.00	53.0	12.0	110.0	4	471g	-1014A	2215.00	-1044A	2833.00	-1074A	2833.00
16.00	63.0	16.0	123.0	4	806g	-1016A	2678.00	-1046A	3348.00	-1076A	3348.00
20.00	75.0	20.0	141.0	4	1433g	-1020A	3966.00	-1050A	5047.00	-1080A	5047.00

HSS-Co 8% Weldon Shank Ball Nose Slot Drills 2 Flute**HSS-Co 8%****TiCN****TiAlN**

Centre cutting.

Weldon shank to **DIN 1835B**.Cutting diameter to **e8**.Shank diameter to **h6**.**Series 11****Short Series** Dimensions to **DIN 327**

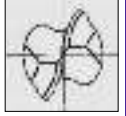
Diameter (mm)	Flute Length	Shank Diameter	Overall Length	Weight per 5	SBH-2WS HSS-Co 8%		SBN-2WS TiCN Coated		SBL-2WS TiAlN Coated	
					Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB
2.00	5.0	6.0	49.0	52g	-1102A	1751.00	-1132A	1906.00	-	-
3.00	5.0	6.0	49.0	54g	-1103A	1751.00	-	-	-	-
4.00	7.0	6.0	51.0	55g	-1104A	1751.00	-1134A	1906.00	-	-
5.00	8.0	6.0	52.0	58g	-1105A	1751.00	-	-	-	-
6.00	8.0	6.0	52.0	60g	-1106A	1751.00	-1136A	2009.00	-1166A	1751.00
8.00	11.0	10.0	61.0	170g	-1108A	1906.00	-1138A	2421.00	-	-
10.00	13.0	10.0	63.0	188g	-1110A	2112.00	-1140A	2575.00	-	-
12.00	16.0	12.0	73.0	306g	-1112A	2575.00	-1142A	3090.00	-	-
16.00	19.0	16.0	79.0	535g	-1116A	3348.00	-1146A	3863.00	-	-
20.00	22.0	20.0	88.0	944g	-1120A	4069.00	-	-	-	-

SWISS+TECH**HSS-Co 8% Weldon Shank Ball
Nose Slot Drills 2 Flute**

Centre cutting. Weldon shank to **DIN 1835B**.
Cutting diameter to **e8**.
Shank diameter to **h6**.

HSS-Co 8% TiCN TiAlN

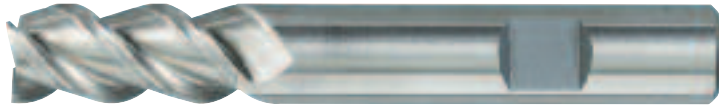
HSS-Co 8% Uncoated	For general production machining.
HSS-Co 8% TiCN Coated	Extends cutter tool life and improves work material surface finish.
HSS-Co 8% TiAlN Coated	Dissipates and resists heat, reduces surface friction coupled with high surface hardness.

**Series 12****Long Series** Dimensions to **DIN 844**

Diameter (mm)	Flute Length	Shank Diameter	Overall Length	Weight per 5	SBH-2WL HSS-Co 8%		SBN-2WL TiCN Coated		SBL-2WL TiAlN Coated	
					Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB
3.00	8.0	6.0	56.0	55g	-1203A	2163.00	-	-	-	-
4.00	11.0	6.0	63.0	60g	-1204A	1957.00	-	-	-	-
5.00	13.0	6.0	68.0	70g	-	-	-1235A	2369.00	-	-
6.00	13.0	6.0	68.0	75g	-1206A	1957.00	-1236A	2318.00	-	-
8.00	19.0	10.0	88.0	110g	-1208A	2472.00	-	-	-	-
10.00	22.0	10.0	95.0	277g	-1210A	2627.00	-1240A	3296.00	-	-
12.00	26.0	12.0	110.0	435g	-1212A	3708.00	-1242A	4429.00	-	-

HSS-Co 8% Weldon Shank 50° High Helix End Mills 3 Flute

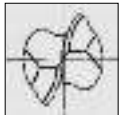
Centre cutting.
Weldon shank to **DIN 1835B**.
Cutting diameter to **e8**.
Shank diameter to **h6**.

HSS-Co 8% TiCN TiAlN**EXTENDED
RANGE****Series 13****Regular Series** Dimensions to **DIN 844**

Diameter (mm)	Flute Length	Shank Diameter	Overall Length	No. of Flutes	Weight per 5	EHH-3WR HSS-Co 8%		EHN-3WR TiCN Coated		EHL-3WR TiAlN Coated	
						Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB
6.00	13.0	6.0	57.0	3	54g	-1306A	1133.00	-1336A	1133.00	-1366A	1391.00
8.00	19.0	10.0	69.0	3	186g	-1308A	1391.00	-	-	-	-
10.00	22.0	10.0	72.0	3	225g	-1310A	1494.00	-	-	-	-
12.00	26.0	12.0	83.0	3	340g	-1312A	1751.00	-	-	-	-
16.00	32.0	16.0	92.0	3	619g	-1316A	2318.00	-	-	-1376A	2318.00
20.00	38.0	20.0	104.0	3	1079g	-1320A	3605.00	-	-	-1380A	3605.00

**HSS-Co 8% Weldon Shank 42° High Helix
Slot Drills 2 Flute For Aluminium**

Centre cutting.
Weldon shank to **DIN 1835B**.
Shank cutting diameter to +0.04 -0.0.

HSS-Co 8% TiCN TiAlN**Series 15****Regular Length** Dimensions to **DIN 844**

Diameter (mm)	Flute Length	Shank Diameter	Overall Length	Weight per 5	SHH-2WR HSS-Co 8%		SHN-2WR TiCN Coated		SHL-2WR TiAlN Coated	
					Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB
3.00	8.0	6.0	52.0	55g	-1503A	1082.00	-	-	-	-
4.00	11.0	6.0	55.0	56g	-1504A	927.00	-1534A	1442.00	-	-
5.00	13.0	6.0	57.0	60g	-1505A	927.00	-	-	-	-
6.00	13.0	6.0	57.0	62g	-1506A	979.00	-	-	-	-
8.00	19.0	10.0	69.0	175g	-1508A	1133.00	-	-	-	-
10.00	22.0	10.0	72.0	190g	-1510A	1339.00	-	-	-	-
12.00	26.0	12.0	83.0	326g	-1512A	1494.00	-	-	-	-
16.00	32.0	16.0	92.0	603g	-1516A	2009.00	-	-	-	-
18.00	32.0	16.0	92.0	663g	-1518A	2678.00	-	-	-	-
20.00	38.0	20.0	104.0	1054g	-1520A	3193.00	-	-	-	-

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

SWISS+TECH**HSS-Co 8% Weldon Shank Coarse Pitch Ripper Cutters****HSS-Co 8%****TiCN****TiAlN**

Centre cutting.
Weldon shank to **DIN 1835B**.
Cutting diameter to **js12**.
Shank diameter to **h6**.

**Series 17****Regular Series** Dimensions to **DIN 844**

Diameter (mm)	Flute Length	Shank Diameter	Overall Length	No. of Flutes	Weight per 10	RCH-4WR HSS-Co 8%		RCN-4WR TiCN Coated		RCL-4WR TiAlN Coated	
						Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB
6.00	13.0	6.0	57.0	3	129g	-1706A ⁽¹⁾	1391.00	-1736A ⁽²⁾	1648.00	-	-
8.00	19.0	10.0	69.0	3	311g	-1708A ⁽¹⁾	1700.00	-1738A ⁽²⁾	2163.00	-1768A ⁽³⁾	2163.00
10.00	22.0	10.0	72.0	4	337g	-1710A	1751.00	-1740A	2215.00	-1770A	2215.00
12.00	26.0	12.0	83.0	4	690g	-1712A	1906.00	-1742A	2369.00	-1772A	2369.00
16.00	32.0	16.0	92.0	4	1280g	-1716A	2524.00	-1746A	2987.00	-1776A	3758.00
20.00	38.0	20.0	104.0	4	2224g	-1720A	3451.00	-1750A	4326.00	-1780A	4326.00
25.00	45.0	25.0	121.0	5	4074g	-1725A ⁽⁴⁾	5047.00	-1755A ⁽⁵⁾	6695.00	-1785A ⁽⁶⁾	6026.00

⁽¹⁾ RCH-3WL HSS-Co 8% ⁽²⁾ RCN-3WL TiCN Coated ⁽³⁾ RCL-3WL TiAlN Coated ⁽⁴⁾ RCH-5WL HSS-Co 8% ⁽⁵⁾ RCN-5WL TiCN Coated ⁽⁶⁾ RCL-5WL TiAlN Coated

HSS-Co 8% Weldon Shank Coarse Pitch Ripper Cutters

Centre cutting. Weldon shank to **DIN 1835B**. Cutting diameter to **js12**.
Shank diameter to **h6**.

HSS-Co 8%**TiCN****TiAlN****Series 18****Long Series** Dimensions to **DIN 844**

Diameter (mm)	Flute Length	Shank Diameter	Overall Length	No. of Flutes	Weight Per 5	RCH-4WL HSS-Co 8%		RCN-4WL TiCN Coated		RCL-4WL TiAlN Coated	
						Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB
6.00	24.0	6.0	68.0	3	70g	-	-	-1836A ⁽²⁾	2833.00	-	-
8.00	38.0	10.0	88.0	3	215g	-1808A ⁽¹⁾	M.ir	-1838A ⁽²⁾	3039.00	-	-
10.00	45.0	10.0	95.0	4	259g	-1810A	2524.00	-1840A	3193.00	-	-
12.00	53.0	12.0	110.0	4	401g	-1812A	2833.00	-1842A	3451.00	-	-
16.00	63.0	16.0	123.0	4	804g	-1816A	3708.00	-1846A	4635.00	-	-
20.00	75.0	20.0	141.0	4	1132g	-1820A	5202.00	-1850A	6335.00	-	-
25.00	90.0	25.0	166.0	5	2627g	-1825A ⁽⁴⁾	7622.00	-	-	-	-

⁽¹⁾ RCH-3WL HSS-Co 8% ⁽²⁾ RCN-3WL TiCN Coated ⁽³⁾ RCL-3WL TiAlN Coated ⁽⁴⁾ RCH-5WL HSS-Co 8% ⁽⁵⁾ RCN-5WL TiCN Coated

HSS-Co 8% Weldon Shank Coarse Pitch 37° High Helix for Aluminium Roughing End Mills 3 Flute

Centre cutting.
Weldon shank to **DIN 1835B**.
Shank diameter to **h6**.

HSS-Co 8%**TiN****EXTENDED
RANGE****Series 20****Regular Length** Dimensions to **DIN 844**

Diameter (mm)	Flute Length	Shank Dia.	Overall Length	Weight each	RHH-3WR HSS-Co 8%		RHN-3WR TiN	
					Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB
6.00	13.0	6.0	57.0	12g	-2006A	2266.00	-	-
8.00	19.0	10.0	69.0	36g	-2008A	2266.00	-	-
10.00	22.0	10.0	72.0	40g	-2010A	1854.00	-	-
12.00	26.0	12.0	83.0	67g	-2012A	2060.00	-2032A	3039.00
16.00	32.0	16.0	93.0	124g	-2016A	2627.00	-	-
20.00	38.0	20.0	104.0	215g	-2020A	3657.00	-	-

HSS-Co 8% Weldon Shank Coarse Pitch 37° High Helix for Aluminium Roughing End Mills 3 Flute

Centre cutting. Weldon shank to **DIN 1835B**.
Shank diameter to **h6**.

HSS-Co 8%**TiN****Series 21****Long Series** Dimensions to **DIN 844**

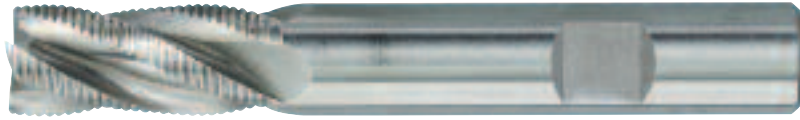
Diameter (mm)	Flute Length	Shank Dia.	Overall Length	Weight each	RHH-3WL HSS-Co 8%		RHN-3WR TiN	
					Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB
10.00	45.0	10.0	95.0	49g	-2110A	2575.00	-	-
12.00	53.0	12.0	110.0	78g	-2112A	2833.00	-	-
20.00	75.0	20.0	141.0	263g	-2120A	5202.00	-	-

SHANK MILLING CUTTERS**SWISS+TECH****HSS-Co 8% Weldon Shank
Fine Pitch Ripper Cutters**

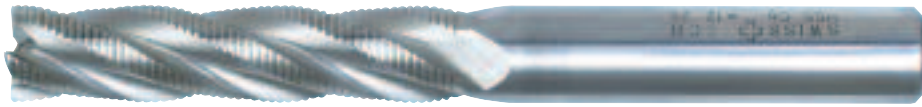
Centre cutting.
Weldon shank to **DIN 1835B**.
Cutting diameter to **js12**.
Shank diameter to **h6**.

HSS-Co 8% TiCN TiAlN

HSS-Co 8% Uncoated	For general production machining.
HSS-Co 8% TiCN Coated	Extends cutter tool life and improves work material surface finish.
HSS-Co 8% TiAlN Coated	Dissipates and resists heat, reduces surface friction coupled with high surface hardness.

**Series 25****Regular Series** Dimensions to **DIN 844**

Diameter (mm)	Flute Length	Shank Diameter	Overall Length	No of Flutes	Weight per 5	RFH-4WR HSS-Co 8%		RFN-4WR TiCN Coated		RFL-4WR TiAlN Coated	
						Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB
6.00	13.0	6.0	57.0	3	65g	-2506A ⁽¹⁾	2112.00	-2536A ⁽²⁾	2524.00	-2566A ⁽³⁾	2575.00
8.00	19.0	10.0	69.0	3	186g	-2508A ⁽¹⁾	2266.00	-2538A ⁽²⁾	2833.00	-2568A ⁽³⁾	2833.00
10.00	22.0	10.0	72.0	4	212g	-2510A	2524.00	-2540A	3039.00	-2570A	3039.00
12.00	26.0	12.0	83.0	4	356g	-2512A	2884.00	-2542A	3399.00	-2572A	3348.00
14.00						-		-2544A	3600.00	-	
16.00	32.0	16.0	92.0	4	642g	-2516A	4017.00	-2546A	4532.00	-2576A	4532.00
18.00						-		-2548A	4500.00	-	
20.00	38.0	20.0	104.0	4	1123g	-2520A	4017.00	-2550A	6438.00	-2580A	6438.00
22.00						-		-2552A	4750.00	-	
25.00	45.0	25.0	121.0	5	1310g	-		-2555A ⁽⁵⁾	8034.00	-2585A ⁽⁶⁾	8034.00

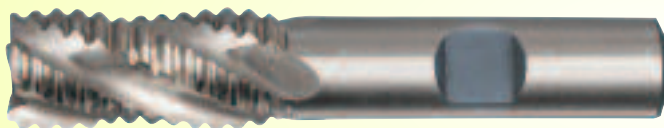
**Series 26****Long Series** Dimensions to **DIN 844**

Diameter (mm)	Flute Length	Shank Diameter	Overall Length	No of Flutes	Weight per 5	RFH-4WL HSS-Co 8%		RFN-4WL TiCN Coated		RFL-4WL TiAlN Coated	
						Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB	Order Code SWT-163	Price/1 TB
6.00	24.0	6.0	68.0	3	80g	-2606A ⁽¹⁾	2781.00	-		-2666A ⁽³⁾	3090.00
8.00	38.0	10.0	88.0	3	212g	-2608A ⁽¹⁾	2833.00	-2638A ⁽²⁾	2833.00	-2668A ⁽³⁾	3399.00
10.00	45.0	10.0	95.0	4	264g	-2610A	3348.00	-2640A	3966.00	-2670A	3966.00
12.00	53.0	12.0	110.0	4	408g	-2612A	4017.00	-2642A	4635.00	-2672A	4635.00
16.00	63.0	16.0	123.0	4	790g	-2616A	5717.00	-2646A	6489.00	-2676A	6489.00
20.00	75.0	20.0	141.0	4	1411g	-2620A	7622.00	-2650A	9013.00	-2680A	9013.00
25.00	90.0	25.0	166.0	5	2954g	-2625A ⁽⁴⁾	11279.00	-		-	

⁽¹⁾ RFH-3WL HSS Co 8% ⁽²⁾ RFN-3WL TiCN Coated ⁽³⁾ RFL-3WL TiAlN Coated ⁽⁴⁾ RFH-5WL HSS Co 8% ⁽⁵⁾ RFN-5WL TiCN Coated ⁽⁶⁾ RFL-5WL TiAlN Coated

**HSS-E Weldon Shank Coarse Pitch
Ripper Cutters**

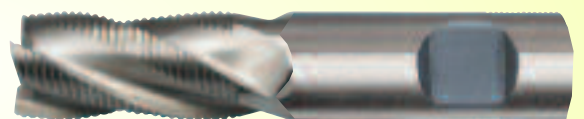
Industrial quality for shaping and forming metal components. 4 flute ripper cutters.
Manufactured from sintered HSS-E extra vanadium steel.
Knuckle form, **h8** tolerance, standard length.
Shank to **DIN 1835D**.

COARSE PITCH HSS-EV**Regular Series**

Dia. (mm)	Flute Length	Overall Length	Shank Dia.	No. of Flutes	Weight each	Order Code SHR-061	Price/1 TB
6.00	13.0	57.0	6.0	4	13g	-2560A	1689.00
8.00	19.0	69.0	10.0	4	36g	-2561B	1766.00
10.00	22.0	72.0	10.0	4	40g	-2562C	1736.00
12.00	26.0	83.0	12.0	4	71g	-2563D	1782.00
16.00	32.0	92.0	16.0	4	134g	-2564E	2472.00
20.00	38.0	104.0	20.0	4	221g	-2565F	2688.00
25.00	45.0	121.0	25.0	4	427g	-2566G	3780.00

HSS-EV Weldon Shank Fine Pitch Ripper Cutters

4 flute ripper cutters. Manufactured from sintered HSS-EV extra vanadium steel.
Knuckle form. **h8** tolerance. Standard length.
Dimensions to **DIN 844**.
Shank to **DIN 1835D**.

FINE PITCH HSS-EV**Regular Series**

Dia. (mm)	Flute Length	Overall Length	Shank Dia.	No. of Flutes	Weight each	Order Code SHR-061	Price/1 TB
6.00	15.0	58.0	6.0	4	16g	-2620A	1689.00
8.00	20.0	70.0	10.0	4	36g	-2621B	1766.00
10.00	28.0	75.0	10.0	4	41g	-2622C	1736.00
12.00	33.0	85.0	12.0	4	74g	-2623D	1782.00
16.00	38.0	90.0	16.0	4	125g	-2624E	2472.00
20.00	47.0	110.0	20.0	4	232g	-2625F	2688.00
25.00	52.0	125.0	25.0	4	402g	-2625G	3780.00

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR



Plain Shank Milling Cutters 2 Flute

Centre cutting, used for profile milling, milling keyways and producing open slots.

Surface treatment: bright finish.

Flute helix 30°. Dimensions to **DIN 844**.

Plain shank to **DIN 1835A**.

HSS-Co

EXTENDED RANGE



Regular Length

Dia. (mm)	Flute Length	Overall Length	Shank Dia.	Order Code SHR-061	Price/1 TB
3.00	8	52	6	-3803A	979.00
4.00	11	55	6	-3804B	979.00
5.00	13	57	6	-3805C	979.00
6.00	13	57	6	-3806D	979.00
7.00	16	66	10	-3807E	1648.00
8.00	19	69	10	-3808F	1442.00
10.00	22	72	10	-3810H	1442.00
12.00	26	83	12	-3812K	1803.00
14.00	26	83	16	-3814M	2112.00
16.00	32	92	16	-3816P	2369.00
18.00	32	92	16	-3818R	2987.00
20.00	38	104	20	-3820S	3348.00
22.00	38	104	20	-3822T	5923.00
25.00	45	121	25	-3825V	5665.00

EXTENDED RANGE



Long Series

Dia. (mm)	Flute Length	Overall Length	Shank Dia.	Order Code SHR-061	Price/1 TB
3.00	12	56	6	-3955C	876.00
4.00	19	63	6	-3957E	876.00
5.00	24	68	6	-3959G	876.00
6.00	24	68	6	-3961J	876.00
8.00	38	88	10	-3962K	1236.00
10.00	45	95	10	-3963L	1236.00
12.00	53	110	12	-3964M	1500.00
14.00	53	110	12	-3965N	2163.00
16.00	63	123	16	-3966P	2163.00
20.00	75	141	20	-3968R	3750.00

Plain Shank Milling Cutters 2 Flute Ball Nose

Centre cutting, used for profile milling, milling keyways and producing open slots.

Surface treatment: bright finish.

Flute helix 30°. Dimensions to **DIN 844**.

Plain shank to **DIN 1835A**.

NEW



Regular Length

Dia. (mm)	Flute Length	Overall Length	Shank Dia.	Order Code SHR-061	Price/1 TB
3.00	5	49	6	-3982C	979.00
4.00	7	51	6	-3984E	979.00
5.00	8	52	6	-3986G	979.00
6.00	8	52	6	-3988J	979.00
8.00	11	61	10	-3992N	1442.00
10.00	13	63	10	-3996S	1442.00
12.00	16	73	12	-3998V	1803.00
14.00	16	73	12	-4000X	2112.00
16.00	19	79	16	-4002Z	2369.00
18.00	19	79	16	-4004B	2987.00
20.00	22	88	20	-4006D	3348.00
22.00	22	88	20	-4008F	5923.00
25.00	26	102	25	-4011J	5665.00

Plain Shank Milling Cutters 4 Flute

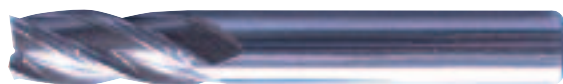
Centre cutting, used for profile milling, milling keyways and producing open slots.

Flute helix 30°. Dimensions to **DIN 844**.

Plain shank to **DIN 1835A**.



HSS-Co



Regular Length

Dia. (mm)	Flute Length	Overall Length	Shank Dia.	Order Code SHR-061	Price/1 TB
3.00	8	52	6	-3703A	876.00
3.50	11	55	6	-3703F	876.00
4.00	11	55	6	-3704B	876.00
4.50	13	57	6	-3704G	876.00
5.00	13	57	6	-3705C	876.00
5.50	13	57	6	-3705H	876.00
6.00	13	57	6	-3706D	876.00
6.50	19	69	10	-3706J	876.00
7.00	19	69	10	-3707E	876.00
7.50	19	69	10	-3707K	876.00
8.00	19	69	10	-3708F	876.00
8.50	22	72	10	-3708L	900.00
9.00	22	72	10	-3709Q	1288.00
9.50	22	72	10	-3709W	1300.00
10.00	22	72	10	-3710G	979.00
10.50	22	79	12	-3710N	1400.00
11.00	22	79	12	-3711V	1500.00
12.00	26	83	12	-3712H	1200.00
13.00	26	83	12	-3713J	1600.00
14.00	26	83	12	-3714J	1545.00
15.00	32	92	16	-3715K	1700.00
16.00	32	92	16	-3716L	1648.00
17.00	32	92	16	-3717V	2750.00
18.00	32	92	16	-3718M	2750.00
19.00	32	92	16	-3719V	3500.00
20.00	38	104	20	-3720N	3500.00
22.00	38	104	20	-3722P	3863.00
25.00	45	121	25	-3725R	4326.00
26.00	45	121	25	-3726S	4500.00
28.00	45	121	25	-3728V	6000.00
30.00	45	121	25	-3730X	7500.00



Long Series

Dia. (mm)	Flute Length	Overall Length	Shank Dia.	Order Code SHR-061	Price/1 TB
3.00	12	56	6	-3873A	824.00
4.00	19	63	6	-3875C	824.00
5.00	24	68	6	-3877E	824.00
6.00	24	68	6	-3879G	824.00
7.00	38	88	10	-3879M	1700.00
8.00	38	88	10	-3880H	1185.00
9.00	38	88	10	-3880V	1800.00
10.00	45	95	10	-3881J	1185.00
11.00	53	110	12	-3881P	1500.00
12.00	53	110	12	-3882K	1500.00
13.00	53	110	12	-3882Q	1700.00
14.00	53	110	12	-3883K	2163.00
15.00	63	123	16	-3883Q	2500.00
16.00	63	123	16	-3884M	2163.00
18.00	63	123	16	-3885N	4500.00
20.00	75	141	20	-3886P	3750.00
22.00	75	141	20	-3888Q	3950.00
25.00	90	166	25	-3891T	4100.00

**SEE ALSO:
2 Flute - Weldon**



Page 86

HSS-Co 8%
TiCN TiAlN

**SEE ALSO:
Multi-flute - Threaded**



Page 84

HSS-Co 8%
TiCN TiAlN

SWISS+TECH**Carbide Plain Shank
Milling Cutters**Centre cutting. To **Manufacturers Standards.****Series 45****2 Flute - Short Series** Dimensions to **DIN 6535 HA**

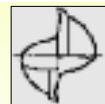
Diameter (mm)	Flute Length	Overall Length	Shank Diameter	Weight each	SDC-2PS Carbide		SDT-2PS TiCN Coated	
					Order Code SWT-161	Price/1 TB	Order Code SWT-161	Price/1 TB
2.00	8.0	32.0	2.0	3g	-4502A	824.00	-4532A	979.00
2.50	8.0	32.0	2.5	4g	-4502L	824.00	-	-
3.00	12.0	32.0	3.0	4g	-4503A	773.00	-	-
4.00	12.0	40.0	4.0	7g	-4504A	876.00	-	-
5.00	14.0	50.0	5.0	13g	-4505A	1288.00	-	-
6.00	16.0	50.0	6.0	18g	-4506A	1339.00	-4536A	1288.00
7.00	20.0	60.0	7.0	37g	-4507A	1803.00	-	-
8.00	20.0	60.0	8.0	37g	-4508A	1700.00	-4538A	2223.00
9.00	20.0	60.0	9.0	49g	-4509A	2369.00	-	-
10.00	22.0	70.0	10.0	68g	-4510A	2575.00	-4540A	3198.00
12.00	22.0	70.0	12.0	90g	-4512A	3811.00	-	-
14.00	25.0	75.0	14.0	134g	-4514A	5305.00	-	-
16.00	25.0	75.0	16.0	172g	-4516A	5974.00	-	-
20.00	32.0	100.0	20.0	360g	-4520A	10403.00	-4550A	12553.00

**Series 48****3 Flute - Short Series**

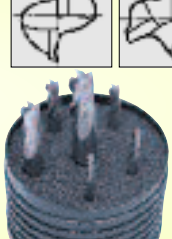
Diameter (mm)	Flute Length	Overall Length	Shank Diameter	Weight each	SDC-3PS Carbide		SDT-3PS TiCN Coated		SDL-3PS TiAlN Coated	
					Order Code SWT-161	Price/1 TB	Order Code SWT-161	Price/1 TB	Order Code SWT-161	Price/1 TB
1.00	4.0	40.5	4.0	7g	-4801A	824.00	-4831A	1082.00	-	-
1.50	4.5	40.0	4.0	7g	-4801L	824.00	-4831L	1082.00	-	-
2.00	8.0	32.0	2.0	3g	-4802A	824.00	-4832A	1082.00	-4862A	1082.00
2.50	8.0	32.0	2.5	3g	-4802L	824.00	-4832L	1082.00	-	-
3.00	12.0	32.0	3.0	4g	-4803A	773.00	-4833A	979.00	-	-
3.50	12.0	32.0	3.5	4g	-4803L	1082.00	-4833L	1339.00	-	-
4.00	12.0	40.0	4.0	7g	-4804A	927.00	-4834A	1185.00	-	-
4.50	12.0	50.0	4.5	11g	-4804L	1288.00	-4834L	1545.00	-	-
5.00	14.0	50.0	6.0	13g	-4805A	1288.00	-4835A	1545.00	-	-
5.50	16.0	50.0	6.0	16g	-4805L	1300.00	-	-	-	-
6.00	16.0	50.0	6.0	18g	-4806A	1339.00	-4836A	1545.00	-	-
6.50	20.0	50.0	8.0	25g	-4806L	1800.00	-	-	-4867L	2250.00
7.00	20.0	50.0	8.0	50g	-4807A	1751.00	-4837A	2112.00	-	-
7.50	20.0	60.0	8.0	55g	-4807L	1900.00	-	-	-	-
8.00	20.0	60.0	8.0	57g	-4808A	1700.00	-4838A	2060.00	-4868A	2223.00
9.00	20.0	60.0	9.0	60g	-4809A	2369.00	-	-	-4869A	2965.00
10.00	22.0	60.0	10.0	71g	-4810A	2627.00	-4840A	2884.00	-	-
11.00	22.0	60.0	12.0	90g	-	-	-	-	-4871A	4765.00
12.00	22.0	60.0	12.0	100g	-4812A	3811.00	-4842A	4378.00	-4872A	4819.00
14.00	25.0	70.0	14.0	133g	-4814A	5305.00	-	-	-	-
16.00	25.0	75.0	16.0	175g	-4816A	6026.00	-	-	-	-
20.00	32.0	100.0	20.0	367g	-4820A	10403.00	-	-	-	-

**Series 50****4 Flute - Short Series**

Diameter (mm)	Flute Length	Overall Length	Shank Diameter	Weight each	EMC-4PS Carbide		EMT-4PS TiCN Coated	
					Order Code SWT-161	Price/1 TB	Order Code SWT-161	Price/1 TB
2.00	8.0	32.0	2.0	3g	-5002A	824.00	-5032A	1082.00
2.50	8.0	32.0	2.5	3g	-5002L	824.00	-5032L	1082.00
3.00	12.0	32.0	3.0	4g	-5003A	721.00	-5033A	927.00
3.50	12.0	32.0	3.5	4g	-5003L	899.00	-	-
4.00	12.0	40.0	4.0	7g	-5004A	876.00	-5034A	1133.00
5.00	14.0	50.0	5.0	14g	-5005A	1288.00	-5035A	1545.00
6.00	16.0	50.0	6.0	19g	-5006A	1339.00	-5036A	1597.00
6.50	20.0	50.0	8.0	25g	-5006L	1799.00	-	-
7.00	20.0	60.0	7.0	49g	-5007A	1751.00	-5037A	2112.00
7.50	20.0	60.0	8.0	55g	-5007L	1750.00	-	-
8.00	20.0	60.0	8.0	57g	-5008A	1700.00	-5038A	2009.00
9.00	20.0	60.0	9.0	60g	-5009A	2750.00	-5039A	3450.00
10.00	20.0	70.0	10.0	71g	-5010A	2575.00	-5040A	2884.00
11.00	22.0	60.0	12.0	90g	-5011A	3999.00	-5041A	4950.00
12.00	22.0	70.0	12.0	102g	-5012A	3811.00	-5042A	4378.00
14.00	25.0	75.0	14.0	184g	-5014A	5305.00	-5044A	5923.00
16.00	25.0	75.0	16.0	380g	-5016A	6026.00	-5046A	6592.00
20.00	32.0	100.0	20.0	892g	-5020A	10403.00	-5050A	11485.00
25.00	46.0	150.0	25.0	895g	-5025A	16171.00	-5055A	17304.00

6 Piece SetsDimensions to **DIN 844**. Cutting diameter to **js12**.
Shank diameter to **h6**.**Contents:** 3, 4, 5, 6, 8 and 10mm.**6
PIECES****CARBIDE**

Number of Flutes	Series Number	Order Code SWT-161	Price/1 TB
2	45	-4526A	3142.00
3	48	-4890A	4635.00
4	50	-5028A	3605.00

**PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR**


**Carbide Micrograin Plain Shank
Milling Cutters**

CARBIDE


2 Flute

For optimum performance and maximum swarf removal when plunging, slotting and routing in light alloys, brass, aluminium, non-ferrous and other soft materials.

Manufactured to **Works Standards**.

Diameter Metric	Tolerances		Diameter Inch	Tolerance	
	+	-		+	-
Over 1.00 ~ up to 6.00	0.000	0.050	Over 1/16" ~ up to 1/4"	0.000	0.002
Over 6.00 ~ up to 25.00	0.000	0.080	Over 1/4" ~ up to 1"	0.000	0.003


Regular Series - Metric

Diameter (mm)	Flute Length	Overall Length	Shank Dia.	Weight each	Order Code KEN-161	Price/1 TB
1.00	3.0	40.0	4.0	15g	-0020K	620.00
1.50	4.0	40.0	4.0	15g	-0030K	620.00
2.00	8.0	32.0	2.0	15g	-0040K	620.00
2.50	8.0	32.0	2.5	15g	-0050K	800.00
3.00	12.0	32.0	3.0	15g	-0060K	620.00
3.50	12.0	32.0	3.5	20g	-0070K	750.00
4.00	12.0	40.0	4.0	20g	-0080K	750.00
4.50	14.0	50.0	4.5	20g	-0090K	950.00
5.00	14.0	50.0	5.0	30g	-0100K	950.00
6.00	16.0	50.0	6.0	35g	-0120K	1100.00
7.00	20.0	60.0	7.0	40g	-0140K	1400.00
8.00	20.0	60.0	8.0	40g	-0160K	1750.00
9.00	20.0	60.0	9.0	60g	-0180K	1750.00
10.00	22.0	70.0	10.0	100g	-0200K	2100.00
11.00	22.0	70.0	11.0	120g	-0220K	2560.00
12.00	22.0	70.0	12.0	130g	-0240K	2770.00
14.00	25.0	75.0	14.0	180g	-0280K	3850.00
16.00	25.0	75.0	16.0	230g	-0320K	4370.00
18.00	25.0	75.0	18.0	230g	-0360K	6370.00
20.00	32.0	100.0	20.0	240g	-0400K	12000.00

Regular Series - Inch

Diameter (inch)	Flute Length	Overall Length	Shank Dia.	Weight each	Order Code KEN-161	Price/1 TB
3/32"	3/8"	1 1/2"	1/8"	10g	-0560K	850.00
1/8"	1/2"	1 1/2"	1/8"	10g	-0580K	750.00
11/64"	5/8"	2"	3/16"	20g	-0610K	1050.00
3/16"	5/8"	2"	3/16"	20g	-0620K	1100.00
1/4"	3/4"	2 1/2"	1/4"	30g	-0660K	1550.00
5/16"	13/16"	2 1/2"	5/16"	45g	-0700K	1850.00
3/8"	1"	2 1/2"	3/8"	60g	-0740K	2300.00
1/2"	1"	3"	1/2"	165g	-0820K	3850.00
3/4"	1 1/2"	4"	1"	640g	-0980K	8150.00

3 Flute

Centre cutting as standard. Offer a combination of advantages achieved with two and four flutes giving profile and peripheral milling capability in addition to slotting and plunging. Manufactured to **Works Standards**.

Regular Series - Metric

Diameter (mm)	Flute Length	Overall Length	Shank Dia.	Weight each	Order Code KEN-161	Price/1 TB
1.00	3.0	40.0	4.0	15g	-3020K	886.00
1.50	4.5	40.0	4.0	15g	-3030K	886.00
2.00	8.0	32.0	2.0	15g	-3040K	886.00
2.50	8.0	32.0	2.5	15g	-3050K	906.00
3.00	12.0	32.0	3.0	15g	-3060K	773.00
3.50	12.0	32.0	3.5	20g	-3070K	1246.00
4.00	14.0	40.0	4.0	20g	-3080K	1246.00
4.50	14.0	50.0	4.5	20g	-3090K	1246.00
5.00	14.0	50.0	5.0	30g	-3100K	1339.00
6.00	16.0	50.0	6.0	35g	-3120K	1442.00
7.00	20.0	60.0	7.0	40g	-3140K	1947.00
8.00	20.0	60.0	8.0	40g	-3160K	1833.00
9.00	20.0	60.0	10.0	60g	-3180K	2472.00
10.00	22.0	70.0	10.0	100g	-3200K	2575.00
11.00	22.0	70.0	11.0	120g	-3220K	3018.00
12.00	22.0	70.0	12.0	130g	-3240K	3193.00
14.00	25.0	75.0	14.0	180g	-3280K	6551.00
16.00	25.0	75.0	16.0	230g	-3320K	7406.00
18.00	25.0	75.0	18.0	230g	-3360K	10918.00
20.00	32.0	100.0	20.0	240g	-3400K	15347.00
25.00	38.0	150.0	25.0	640g	-3500K	17819.00

**EXTENDED
RANGE**

Regular Series - Inch

Diameter (inch)	Flute Length	Overall Length	Shank Dia.	Weight each	Order Code KEN-161	Price/1 TB
1/16"	3/16"	1 1/2"	1/8"	10g	-3540K	886.00
3/32"	9/32"	1 1/2"	1/8"	10g	-3560K	886.00
1/8"	3/8"	1 1/2"	1/8"	10g	-3580K	773.00
5/32"	1/2"	2"	3/16"	20g	-3600K	1339.00
3/16"	5/8"	2"	3/16"	20g	-3620K	1339.00
7/32"	5/8"	2 1/2"	1/4"	30g	-3640K	1442.00
1/4"	3/4"	2 1/2"	1/4"	30g	-3660K	1442.00
5/16"	13/16"	2 1/2"	5/16"	45g	-3700K	1833.00
3/8"	1"	2 1/2"	3/8"	60g	-3740K	2575.00
1/2"	1"	3"	1/2"	140g	-3820K	3193.00
5/8"	1 1/4"	3 1/2"	5/8"	230g	-3900K	7406.00

4 Flute

Centre cutting as standard. For maximum strength when milling harder materials where rapid swarf removal is not needed.

Four flute milling cutters have one of the strongest tooth structures available in solid cutters. Manufactured to **Works Standards**.

Regular Series - Metric

Diameter (mm)	Flute Length	Overall Length	Shank Dia.	Weight each	Order Code KEN-161	Price/1 TB
1.00	3.0	40.0	4.0	15g	-6020K	886.00
1.50	4.5	40.0	4.0	15g	-6030K	886.00
2.00	8.0	32.0	2.0	15g	-6040K	886.00
2.50	9.5	32.0	2.5	15g	-6050K	906.00
3.00	12.0	32.0	3.0	15g	-6060K	773.00
3.50	12.0	32.0	3.5	20g	-6070K	1246.00
4.00	14.0	40.0	4.0	20g	-6080K	1092.00
4.50	14.0	50.0	4.5	20g	-6090K	1246.00
5.00	14.0	50.0	5.0	30g	-6100K	1339.00
6.00	16.0	50.0	6.0	35g	-6120K	1308.00
7.00	20.0	60.0	8.0	40g	-6140K	1947.00
8.00	20.0	60.0	8.0	40g	-6160K	1833.00
9.00	20.0	60.0	9.0	60g	-6180K	2472.00
10.00	22.0	70.0	10.0	100g	-6200K	2647.00
11.00	22.0	70.0	11.0	120g	-6220K	3018.00
12.00	22.0	70.0	12.0	130g	-6240K	3657.00
14.00	25.0	75.0	14.0	180g	-6280K	6551.00
16.00	25.0	75.0	16.0	230g	-6320K	7406.00
18.00	25.0	75.0	18.0	230g	-6360K	10918.00
20.00	32.0	100.0	20.0	240g	-6400K	15347.00
25.00	38.0	100.0	25.0	640g	-6500K	17819.00

Regular Series - Inch

Diameter (inch)	Flute Length	Overall Length	Shank Dia.	Weight each	Order Code KEN-161	Price/1 TB
1/16"	3/16"	1 1/2"	1/8"	10g	-6540K	845.00
3/32"	3/8"	1 1/2"	1/8"	10g	-6560K	803.00
1/8"	1/2"	1 1/2"	1/8"	10g	-6580K	742.00
3/16"	5/8"	2"	3/16"	20g	-6620K	1040.00
7/32"	5/8"	2 1/2"	1/4"	30g	-6640K	1442.00
1/4"	3/4"	2 1/2"	1/4"	30g	-6660K	1246.00
5/16"	13/16"	2 1/2"	5/16"	45g	-6700K	1741.00
3/8"	1"	2 1/2"	3/8"	60g	-6740K	2173.00
7/16"	1"	2 3/4"	7/16"	90g	-6780K	2791.00
1/2"	1"	3"	1/2"	165g	-6820K	3481.00





Carbide Micrograin Plain Shank Slot Drills

Long Series - 2 Flute

For optimum performance and maximum swarf removal when plunging, slotting and routing in most materials including brass, aluminium, non-ferrous and other soft materials. Manufactured to **USCTI Standards**.

Diameter Metric	Tolerances		Diameter Inch	Tolerance	
	+	-		+	-
Over 1.00 ~ up to 6.00	0.000	0.050	Over 1/16" ~ up to 1/4"	0.000	0.002
Over 6.00 ~ up to 25.00	0.000	0.080	Over 1/4" ~ up to 1"	0.000	0.003

Long Series - 3 Flute

CARBIDE



Long Series - Metric

Diameter (mm)	Flute Length	Overall Length	Shank Dia.	Weight each	Order Code KEN-161	Price/1 TB
3.00	25.0	75.0	3.0	15g	-4003K	1391.00
4.00	25.0	75.0	4.0	20g	-4004K	1494.00
5.00	25.0	75.0	6.0	30g	-4005K	1854.00
6.00	25.0	75.0	6.0	35g	-4006K	1957.00
8.00	25.0	75.0	8.0	40g	-4008K	2678.00
10.00	38.0	100.0	10.0	100g	-4010K	3914.00
12.00	50.0	100.0	12.0	130g	-4012K	5768.00
16.00	75.0	150.0	16.0	230g	-4016K	11227.00

CARBIDE

Long Series - 4 Flute

CARBIDE



Long Series - Metric

Diameter (mm)	Flute Length	Overall Length	Shank Dia.	Weight each	Order Code KEN-161	Price/1 TB
3.00	20.0	60.0	3.0	15g	-1003K	1280.00
4.00	20.0	60.0	4.0	20g	-1004K	1350.00
5.00	25.0	75.0	5.0	30g	-1005K	1500.00
6.00	30.0	75.0	6.0	35g	-1006K	1770.00
8.00	30.0	75.0	8.0	40g	-1008K	2400.00
10.00	40.0	100.0	10.0	100g	-1010K	3550.00
12.00	45.0	100.0	12.0	130g	-1012K	4600.00
16.00	65.0	150.0	16.0	230g	-1016K	8910.00
20.00	65.0	150.0	16.0	240g	-1020K	12500.00

Long Series - Metric

Diameter (mm)	Flute Length	Overall Length	Shank Dia.	Weight each	Order Code KEN-161	Price/1 TB
3.00	20.0	60.0	3.0	15g	-9203K	1391.00
4.00	20.0	60.0	4.0	20g	-9204K	1545.00
5.00	25.0	75.0	5.0	30g	-9205K	1906.00
6.00	30.0	75.0	6.0	35g	-9206K	2009.00
8.00	30.0	75.0	8.0	40g	-9208K	2730.00
10.00	40.0	100.0	10.0	100g	-9210K	3914.00
12.00	45.0	100.0	12.0	130g	-9212K	5768.00
16.00	65.0	150.0	16.0	230g	-9216K	11227.00
20.00	65.0	150.0	20.0	240g	-9220K	21373.00



Carbide Micrograin Plain Shank Milling Cutters

For optimum performance and maximum swarf removal when plunging, slotting and routing in light alloys, brass, aluminium, non-ferrous and other soft materials. Manufactured to **USCTI Standards**.

Two flute for maximum swarf clearance. Four flute for maximum rigidity.
(Three flute price/1 a combination of the advantages achieved with two and four flutes.)

CARBIDE



Regular Series

Diameter (mm)	Flute Length	Overall Length	Shank Dia.	Weight each	2 FLUTE		3 FLUTE		4 FLUTE	
					Order Code SHR-161	Price/1 TB	Order Code SHR-161	Price/1 TB	Order Code SHR-161	Price/1 TB
2.00	6.3	38.0	3.0	15g	-0040K	464.00	-3040K	572.00	-6040K	515.00
3.00	12.0	38.0	3.0	15g	-0060K	412.00	-3060K	489.00	-6060K	515.00
4.00	14.0	50.0	4.0	20g	-0080K	525.00	-3080K	613.00	-6080K	613.00
4.50	16.0	50.0	5.0	25g	-0090K	1700.00	-	-	-	-
5.00	16.0	50.0	5.0	30g	-0100K	721.00	-3100K	850.00	-6100K	706.00
6.00	19.0	50.0	6.0	35g	-0120K	876.00	-3120K	979.00	-6120K	937.00
7.00	19.0	63.0	8.0	40g	-0140K	979.00	-3140K	1133.00	-6140K	1107.00
8.00	20.0	63.0	8.0	40g	-0160K	1133.00	-3160K	1236.00	-6160K	1118.00
9.00	22.0	75.0	10.0	60g	-0180K	1622.00	-3180K	1880.00	-6180K	1808.00
10.00	22.0	75.0	10.0	100g	-0200K	1906.00	-3200K	2009.00	-6200K	1808.00
12.00	25.0	75.0	12.0	130g	-0240K	2086.00	-3240K	2209.00	-6240K	2209.00
14.00	32.0	89.0	14.0	180g	-0280K	3348.00	-3280K	3214.00	-6280K	3147.00
16.00	32.0	89.0	16.0	230g	-0320K	4172.00	-3320K	4352.00	-6320K	4151.00
20.00	38.0	100.0	20.0	240g	-0400K	6865.00	-3400K	7030.00	-6400K	7030.00

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CARBIDE

Carbide Micrograin Plain Shank Slot Drills 2 Flute Ball Nosed

For optimum performance and maximum swarf removal when plunging, slotting and routing in most materials including brass, aluminium, non-ferrous and other soft materials. Manufactured to **USCTi Standards**.

Tolerances		
Diameter Metric	Tolerance	
	+	-
Over 1.00 ~ up to 6.00	0.000	0.050
Over 6.00 ~ up to 25.00	0.000	0.080



Regular Series

Diameter (mm)	Flute Length	Overall Length	Shank Dia.	Weight each	Order Code SHR-161	Price/1 TB
2.00	4.0	38.0	3.0	10g	-1040K	670.00
3.00	6.0	38.0	3.0	10g	-1060K	582.00
4.00	8.0	50.0	4.0	15g	-1080K	773.00
5.00	10.0	50.0	6.0	25g	-1100K	850.00
6.00	12.0	50.0	6.0	25g	-1120K	1133.00
7.00	19.0	63.0	8.0	45g	-1140K	1236.00
8.00	20.0	63.0	8.0	55g	-1160K	1288.00
10.00	22.0	75.0	10.0	90g	-1200K	2163.00
12.00	25.0	75.0	12.0	120g	-1240K	2575.00
16.00	32.0	89.0	16.0	250g	-1320K	4687.00
20.00	38.0	100.0	20.0	420g	-1400K	7880.00

Solid Carbide Micrograin Plain Shank End Mills 4 Flute Ball Nosed

For maximum strength when milling harder materials where rapid swarf removal is not needed. Four flute milling cutters have one of the strongest tooth structures available in solid cutters. Centre cutting as standard. Manufactured to **ANSI Standards**.

CARBIDE

Tolerances		
Diameter Metric	Tolerance	
	+	-
Over 1.00 ~ up to 6.00	0.000	0.050
Over 6.00 ~ up to 25.00	0.000	0.080



Regular Series

Diameter (mm)	Flute Length	Overall Length	Shank Dia.	Weight each	Order Code SHR-161	Price/1 TB
2.00	6.3	38.0	3.0	10g	-7040K	670.00
3.00	12.0	38.0	3.0	10g	-7060K	592.00
4.00	14.0	50.0	4.0	15g	-7080K	747.00
5.00	16.0	50.0	6.0	25g	-7100K	747.00
6.00	19.0	50.0	6.0	25g	-7120K	1107.00
8.00	20.0	63.0	8.0	55g	-7160K	2086.00
10.00	22.0	75.0	10.0	90g	-7200K	2086.00
12.00	25.0	75.0	12.0	120g	-7240K	2575.00
16.00	32.0	89.0	16.0	250g	-7320K	4820.00
20.00	38.0	100.0	20.0	420g	-7400K	6489.00

SWISS+TECH Carbide Plain Shank Slot Drills 2 Flute Ball Nosed

Centre cutting.
To **Manufacturers Standards**.

Carbide Uncoated

For general production machining.

TiCN Coated

Extends cutter tool life and improves work material surface finish.



Series 53 Short Series

Diameter (mm)	Flute Length	Overall Length	Shank Diameter	Weight each	SBC-2PS Carbide		SBT-2PS TiCN Coated	
					Order Code SWT-161	Price/1 TB	Order Code SWT-161	Price/1 TB
2.00	4.0	48.0	6.0	17g	-5302A	1200.00	-5332A	1288.00
3.00	4.0	48.0	6.0	18g	-5303A	979.00	-5333A	1133.00
4.00	6.0	50.0	6.0	19g	-5304A	1236.00	-5334A	1494.00
5.00	7.0	51.0	6.0	20g	-5305A	1597.00	-5335A	1854.00
6.00	7.0	51.0	6.0	20g	-5306A	1751.00	-5336A	1957.00
8.00	9.0	59.0	8.0	40g	-5308A	2112.00	-5338A	2472.00
10.00	10.0	60.0	10.0	63g	-5310A	3399.00	-5340A	3760.00
12.00	14.0	71.0	12.0	103g	-	-	-5342A	5974.00

Carbide Plain Shank End Mills 4 Flute Ball Nosed

Centre cutting. To **Manufacturers Standards**
Cutting diameter to **h10**. Shank diameter to **h6**.

CARBIDE **TiCN**



Series 56 Short Series

Diameter (mm)	Flute Length	Overall Length	Shank Diameter	Weight each	EBC-4PS Carbide		EBT-4PS TiCN Coated	
					Order Code SWT-161	Price/1 TB	Order Code SWT-161	Price/1 TB
2.00	4.0	48.0	3.0	17g	-5602A	1442.00	-5632A	1648.00
3.00	4.0	48.0	6.0	18g	-5603A	1442.00	-5633A	1648.00
4.00	6.0	50.0	6.0	19g	-5604A	1400.00	-5634A	1751.00
5.00	7.0	51.0	6.0	20g	-5605A	1597.00	-5635A	1854.00
6.00	7.0	51.0	6.0	21g	-5606A	1751.00	-5636A	1957.00
8.00	9.0	59.0	8.0	42g	-5608A	2112.00	-5638A	2472.00
10.00	10.0	60.0	10.0	65g	-5610A	3399.00	-5640A	3760.00
12.00	14.0	71.0	12.0	106g	-	-	-5642A	5974.00



Carbide Micrograin Plain Shank Slot Drills Ball Nosed

2 Flute

For optimum performance and maximum swarf removal when plunging, slotting and routing in most materials including brass, aluminium, non-ferrous and other soft materials.

Manufactured to **USCTI Standards**.

Tolerances					
Diameter Metric	Tolerance		Diameter Inch	Tolerance	
	+	-		+	-
Over 1.00 ~ up to 6.00	0.000	0.050	Over 1/16" ~ up to 1/4"	0.000	0.002
Over 6.00 ~ up to 25.00	0.000	0.080	Over 1/4" ~ up to 1"	0.000	0.003

Regular Series - 2 Flute - Metric

Diameter (mm)	Flute Length	Overall Length	Shank Dia.	Weight each	Order Code KEN-161	Price/1 TB
2.00	6.0	38.0	3.0	10g	-1040K	790.00
3.00	7.0	57.0	6.0	10g	-1060K	790.00
4.00	8.0	57.0	6.0	15g	-1080K	1025.00
5.00	10.0	57.0	6.0	25g	-1100K	1170.00
6.00	10.0	57.0	6.0	25g	-1120K	1450.00
7.00	19.0	63.0	8.0	45g	-1140K	1700.00
8.00	16.0	63.0	8.0	55g	-1160K	1750.00
10.00	19.0	75.0	10.0	90g	-1200K	2760.00
12.00	22.0	83.0	12.0	120g	-1240K	4000.00
16.00	26.0	92.0	16.0	250g	-1320K	6100.00
20.00	32.0	104.0	20.0	420g	-1400K	10900.00

Long Series - Metric

Diameter (mm)	Flute Length	Overall Length	Shank Diameter	Order Code KEN-161	Price/1 TB
3.00	30.0	75.0	3.0	-1930K	1200.00
4.00	30.0	75.0	4.0	-1940K	1500.00
5.00	40.0	100.0	5.0	-1950K	1850.00
6.00	50.0	150.0	6.0	-1960K	2150.00

3 Flute

Offer a combination of advantages achieved with two and four flutes giving profile and peripheral milling capability in addition to slotting and plunging. Chatter is also significantly reduced. Centre cutting as standard. Manufactured to **ANSI Standards**.

CARBIDE

Regular Series - 3 Flute

Diameter (mm)	Flute Length	Overall Length	Shank Dia.	Weight each	Order Code KEN-161	Price/1 TB
2.00	6.0	38.0	3.0	15g	-4040K	927.00
3.00	10.0	38.0	3.0	15g	-4060K	876.00
4.00	14.0	50.0	4.0	20g	-4080K	1133.00
5.00	16.0	50.0	6.0	30g	-4100K	1442.00
6.00	19.0	50.0	6.0	35g	-4120K	1597.00
8.00	20.0	63.0	8.0	40g	-4160K	2009.00
10.00	22.0	75.0	10.0	100g	-4200K	3090.00
12.00	25.0	75.0	12.0	130g	-4240K	4893.00

Long Series - 3 Flute - Metric

Diameter (mm)	Flute Length	Overall Length	Shank Dia.	Weight each	Order Code KEN-161	Price/1 TB
3.00	25.0	75.0	3.0	15g	-4930K	1597.00
4.00	25.0	75.0	4.0	15g	-4940K	1700.00
5.00	25.0	75.0	5.0	30g	-4950K	2163.00
6.00	25.0	75.0	6.0	30g	-4960K	2369.00

4 Flute Four flute milling cutters have one of the strongest tooth structures available in solid cutters. Centre cutting as standard. Manufactured to **ANSI Standards**.

CARBIDE

EXTENDED
RANGE

Regular Series - 4 Flute - Metric

Diameter (mm)	Flute Length	Overall Length	Shank Dia.	Weight each	Order Code KEN-161	Price/1 TB
2.0	6.3	38.0	3.0	10g	-7040K	1133.00
3.0	12.0	38.0	3.0	10g	-7060K	989.00
4.0	14.0	50.0	4.0	15g	-7080K	1308.00
5.0	16.0	50.0	6.0	25g	-7100K	1669.00
6.0	19.0	50.0	6.0	25g	-7120K	1627.00

Long Series - 4 Flute - Metric

Diameter (mm)	Flute Length	Overall Length	Shank Dia.	Weight each	Order Code KEN-161	Price/1 TB
3.00	25.0	75.0	3.0	15g	-7930K	1803.00
4.00	25.0	75.0	4.0	25g	-7940K	1906.00
5.00	25.0	75.0	5.0	30g	-7950K	2009.00
6.00	25.0	75.0	6.0	30g	-7960K	2163.00



Regular Series - 2 Flute - Inch

Diameter (inch)	Flute Length	Overall Length	Shank Dia.	Weight each	Order Code KEN-161	Price/1 TB
1/16"	1/8"	1 1/2"	1/8"	10g	-1540K	1050.00
1/8"	1/2"	1 1/2"	1/8"	10g	-1580K	1100.00
3/16"	5/8"	2"	3/16"	15g	-1620K	1350.00
1/4"	3/4"	2 1/2"	1/4"	35g	-1660K	1950.00
1/2"	1"	3"	1/2"	140g	-1820K	4000.00

Long Series - Metric Continued

Diameter (mm)	Flute Length	Overall Length	Shank Diameter	Order Code KEN-161	Price/1 TB
8.00	50.0	150.0	8.0	-1980K	2880.00
10.00	60.0	150.0	10.0	-1990K	4160.00
12.00	50.0	150.0	15.0	-2000K	5500.00
16.00	75.0	150.0	16.0	-2010K	11500.00



Regular Series - 3 Flute - Inch

Diameter (inch)	Flute Length	Overall Length	Shank Dia.	Weight each	Order Code KEN-161	Price/1 TB
1/8"	3/8"	1 1/2"	1/8"	10g	-4580K	927.00
1/4"	3/4"	2 1/2"	1/4"	30g	-4660K	1803.00
3/8"	1"	2 1/2"	3/8"	60g	-4740K	2678.00

Diameter (mm)	Flute Length	Overall Length	Shank Dia.	Weight each	Order Code KEN-161	Price/1 TB
8.00	25.0	75.0	8.0	40g	-4980K	3100.00
10.00	38.0	100.0	10.0	100g	-4990K	3245.00
12.00	50.0	100.0	12.0	130g	-4992K	6901.00



Diameter (mm)	Flute Length	Overall Length	Shank Dia.	Weight each	Order Code KEN-161	Price/1 TB
7.0	19.0	63.0	8.0	45g	-7140K	2256.00
8.0	20.0	63.0	8.0	55g	-7160K	2132.00
10.0	22.0	75.0	10.0	90g	-7200K	3039.00
12.0	25.0	75.0	12.0	120g	-7240K	4841.00
16.0	32.0	89.0	16.0	250g	-7320K	8230.00

Diameter (mm)	Flute Length	Overall Length	Shank Dia.	Weight each	Order Code KEN-161	Price/1 TB
10.00	38.0	100.0	10.0	100g	-7990K	5099.00
12.00	50.0	100.0	12.0	130g	-7992K	6695.00
16.00	75.0	150.0	16.0	230g	-7996K	8755.00

GROUP 061 SHANK MILLING CUTTERS

KENNEDY
QUALITY IN EVERYTHING WE DO

CARBIDE

Solid Carbide Micrograin Plain Shank Slot Drills Double Ended

2 Flute

For maximum strength when milling harder materials where rapid swarf removal is not needed. Manufactured to **ANSI Standards**.



Double Ended - Regular Series - Metric

Diameter (mm)	Flute Length	Overall Length	Shank Dia.	Weight each	Order Code KEN-161	Price/1 TB
2.00	4.0	38.0	3.0	10g	-2040K	979.00
3.00	6.0	38.0	3.0	10g	-2060K	773.00
4.00	8.0	50.0	4.0	15g	-2080K	1082.00
5.00	10.0	63.0	5.0	20g	-2100K	1442.00
6.00	12.0	63.0	6.0	30g	-2120K	1545.00
8.00	12.0	63.0	8.0	50g	-2160K	2060.00

Solid Carbide Micrograin Plain Shank End Mills Double Ended

4 Flute

For maximum strength when milling harder materials where rapid swarf removal is not needed. Four flute milling cutters have one of the strongest tooth structures available in solid cutters. Centre cutting. Manufactured to **ANSI Standards**.

CARBIDE



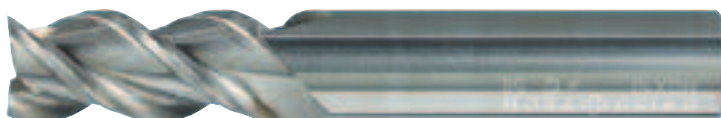
4 Flute - Regular Series - Metric

Diameter (mm)	Flute Length	Overall Length	Shank Dia.	Weight each	Order Code KEN-161	Price/1 TB
2.00	4.0	38.0	3.0	10g	-8040K	979.00
3.00	6.0	38.0	3.0	10g	-8060K	824.00
4.00	8.0	50.0	4.0	15g	-8080K	1133.00
5.00	10.0	63.0	5.0	20g	-8100K	1442.00
6.00	12.0	63.0	6.0	30g	-8120K	1545.00
7.00	12.0	63.0	8.0	45g	-8140K	2060.00
8.00	12.0	63.0	8.0	50g	-8160K	2060.00
10.00	14.0	75.0	10.0	80g	-8200K	3090.00
12.00	16.0	75.0	12.0	120g	-8240K	4326.00

Carbide Plain Shank Slot Drills 3 Flute High Helix

Centre cutting.
To **Manufacturers Standards**.

NEW



Series 58 Regular Series

Diameter (mm)	Flute Length	Overall Length	Shank Diameter	Weight each
8.00	19.0	60.0	6.0	37g
10.00	22.0	60.0	10.0	66g
16.00	25.0	75.0	16.0	361g

Carbide Plain Shank Al-Karb Ultrafine Micrograin Milling Cutters Slot Drills for Aluminium

2 Flute

Centre cutting as standard. An advanced tool geometry designed for cutting aluminium and other non-metallic, non-ferrous materials requiring high machining rates. Al-Karb cutters will out-perform conventional end mills on these materials as the flute design allows maximum chip removal.

NEW



Short Series - Metric

Diameter (mm)	Flute Length	Overall Length	Shank Dia.	Weight each	Order Code KEN-161	Price/1 TB
3.00	8.0	57.0	6.0	15g	-9700K	773.00
4.00	11.0	57.0	6.0	15g	-9720K	1133.00
5.00	13.0	57.0	6.0	30g	-9740K	1545.00
6.00	13.0	57.0	6.0	35g	-9750K	1545.00
8.00	19.0	63.0	8.0	40g	-9760K	1648.00
10.00	22.0	72.0	10.0	100g	-9770K	2009.00
12.00	26.0	83.0	12.0	130g	-9780K	2575.00
16.00	26.0	83.0	14.0	230g	-9790K	4635.00

Carbide Plain Shank 60° High Helix End Mills

3 Flute

Suitable for the high speed machining of titanium inconel, stainless steel and steel alloys.

Cutting diameter to **h10**.

Shank diameter to **h6**.

Dimensions to **DIN**.

NEW

CARBIDE



Short Series

Diameter (mm)	Flute Length	Overall Length	Shank Dia.	Weight each	Order Code KEN-161	Price/1 TB
6.00	13.0	57.0	6.0	35g	-5060K	2575.00
8.00	19.0	69.0	8.0	40g	-5080K	2678.00
10.00	22.0	72.0	10.0	100g	-5100K	3605.00
12.00	26.0	83.0	12.0	130g	-5120K	4635.00

CARBIDE

TiCN



SHC-3PR Carbide			SHT-3PR TiCN Coated		
Order Code	Price/1 TB		Order Code	Price/1 TB	
SWT-161			SWT-161		
-			-5838A	2318.00	
-5810A	2833.00		-5840A	2833.00	
-5816A	8755.00		-		

SWISS+TECHThe combination of **HSS-E PM** and **TiALN**

produces a cutter that is ideally suited to dry and semi dry machining of:

- Materials up to 45 HRC.
- Stainless steels
- Aerospace alloys.

HSS-E PM HSS-E PM is a sintered powder metallurgy HSS that combines the toughness associated with HSS-Co and the hardness benefits of carbide.

- Up to 25% higher cutting speed than HSS/HSS-Co. cutters.
- Up to 125% higher feed rates.
- Up to 100% longer cutter life.
- Reduced manufacturing costs.
- Improved productivity.
- Lower coolant usage and disposal costs.

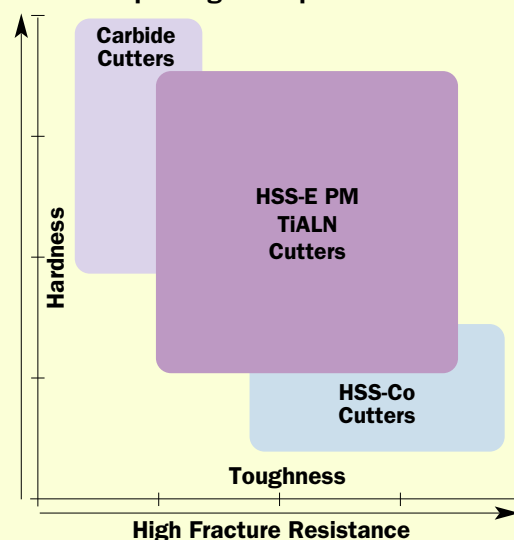
TiALN TiALN is a multi-layer coating capable of operating at higher speed and feed.

- Protects cutting edge under extreme conditions.
- Surface hardness 3000HV.
- Surface coefficient against steel 0.4.
- Thickness of coating 3 - 4µm.
- Maximum working temperature 800°C.
- Re-coating service also available.

HSS-E PM Cutters TiALN Coated

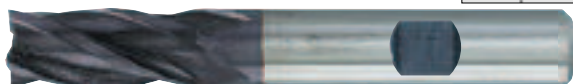
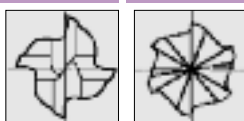
Toughness & Hardness, the Best of Both . . .

High Wear Resistance - Fast Cutting -
Sharper Edges - Improved Finish



Weldon Shank HSS-E PM TiALN Coated 45° High Helix Milling Cutters

Centre cutting.
Weldon shank to **DIN 1835B**.
Cutting diameter to **k10**.
Shank diameter to **h6**.

HSS-E PM TiALN

Series 90

Regular Series Dimensions to DIN 844

Diameter (mm)	Flute Length	Overall Length	Shank Dia.	No. of Flutes	EHP-4WR PM Coated	
					Order Code SWT-165	Price/1 TB
6.00	13.0	57.0	6.0	4	-9006A	876.00
8.00	19.0	69.0	10.0	4	-9008A	1200.00
10.00	22.0	72.0	10.0	4	-9010A	1400.00
12.00	26.0	83.0	12.0	4	-9012A	2421.00
16.00	32.0	93.0	16.0	6	-9016A	2750.00
20.00	38.0	104.0	20.0	6	-9020A	4500.00
25.00	45.0	121.0	25.0	6	-9025A ⁽¹⁾	7500.00

⁽¹⁾ RFP-6WR PM Coated

Weldon Shank HSS-E PM TiALN Coated High Helix Cutters

Centre cutting.
Weldon shank to **DIN 1835B**.
Cutting diameter to **k10**.
Shank diameter to **h6**.

HSS-E PM TiALN

Series 92

Long Series Dimensions to DIN 844

Diameter (mm)	Flute Length	Overall Length	Shank Dia.	No. of Flutes	EHP-4WL PM Coated	
					Order Code SWT-165	Price/1 TB
6.00	24.0	68.0	6.0	4	-9206A	1288.00
8.00	38.0	78.0	10.0	4	-9208A	1391.00
10.00	45.0	95.0	10.0	4	-9210A	1650.00
12.00	53.0	110.0	12.0	4	-9212A	2750.00
16.00	45.0	100.0	16.0	6	-9216A	3850.00
20.00	58.0	122.0	20.0	6	-9220A	6500.00
25.00	90.0	166.0	25.0	6	-9225A ⁽¹⁾	10500.00

⁽¹⁾ EHP-6WL PM Coated

Weldon Shank HSS-E PM TiALN Coated Fine Pitch Ripper Cutters

Centre cutting. Shank to **DIN 1835B**. Cutting diameter to **js12**. Shank diameter to **h6**.

HSS-E PM TiALN

Series 96

Long Series Dimensions to DIN 844

Diameter (mm)	Flute Length	Overall Length	Shank Diameter	Number of Flutes	RFP-4WL PM Coated	
					Order Code SWT-165	Price/1 TB
6.00	24.0	68.0	6.0	4	-9606A	1803.00
8.00	38.0	88.0	10.0	4	-9608A	2575.00
10.00	45.0	95.0	10.0	5	-9610A	2575.00
12.00	53.0	110.0	12.0	5	-9612A	3605.00
16.00	63.0	123.0	16.0	5	-9616A	5665.00
20.00	75.0	141.0	20.0	5	-9620A	7950.00
25.00	90.0	166.0	25.0	6	-9625A ⁽¹⁾	12500.00

⁽¹⁾ RFP-6WL PM Coated

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SWISS+TECH

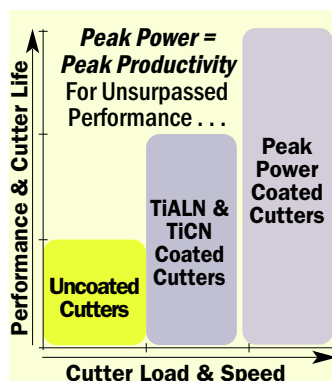
Peak Power Coated Cutters



PEAK POWER The latest addition of the Swiss+Tech range. Manufactured from premium High Speed Steel using the latest in Powdered Metallurgy, these cutters will produce a Powerful Milling performance when cutting difficult materials - even at high speeds.

- Designed to provide strength and rigidity
- Excellent geometry gives optimised cutting and minimises vibration at high speeds
- The range is further enhanced by the Peak Power coating
- Reduced manufacturing costs
- Greater wear resistance and hot-hardness than conventional TiAlN or TiCN coatings
- Suited to dry cutting applications
- Higher oxidation resistance

This coating results in the tools withstanding the high thermal loads associated with high speed applications.



HSS-E PM Coated 3 Flute End Mills

Centre cutting. Weldon shank to DIN 1835B. Shank diameter to h6. Dimensions to DIN 844.

NEW

PEAK POWER



Series 93 Regular

Diameter (mm)	Flute Length	Overall Length	Shank Diameter	Peak Power Coated	
				Order Code SWT-165	Offer Price/1
2.00	4.0	48.0	6.0	-9302A	850.00
3.00	5.0	49.0	6.0	-9303A	1300.00
4.00	7.0	51.0	6.0	-9304A	1600.00
5.00	8.0	52.0	6.0	-9305A	1700.00
6.00	8.0	52.0	6.0	-9306A	2150.00
8.00	11.0	61.0	10.0	-9308A	2750.00
10.00	13.0	63.0	10.0	-9310A	2900.00
12.00	16.0	73.0	12.0	-9312A	4140.00
16.00	19.0	79.0	16.0	-9316A	5950.00
20.00	22.0	88.0	20.0	-9320A	8250.00

HSS-E PM Coated 4 Flute End Mills

Centre cutting. Weldon shank to DIN 1835B. Shank diameter to h6. Dimensions to DIN 844.

HSS-E PM

PEAK POWER



Series 95 Regular

Diameter (mm)	Flute Length	Overall Length	Shank Diameter	Peak Power Coated	
				Order Code SWT-165	Offer Price/1
3.00	8.0	52.0	6.0	-9503A	876.00
4.00	11.0	55.0	6.0	-9504A	876.00
5.00	13.0	57.0	6.0	-9505A	876.00
6.00	13.0	57.0	6.0	-9506A	876.00
8.00	19.0	69.0	6.0	-9508A	1288.00
10.00	22.0	72.0	10.0	-9510A	1391.00
12.00	26.0	83.0	12.0	-9512A	1750.00
14.00	26.0	83.0	12.0	-9514A	4650.00
16.00	32.0	92.0	16.0	-9516A	2421.00
20.00	38.0	104.0	20.0	-9520A	3750.00

HSS-E PM Fine Pitch Ripper Cutters

45° high helix, fine pitch, centre cutting. Weldon shank to DIN 1835B. Shank diameter to h6. Dimensions to DIN 844.

HSS-E PM

PEAK POWER



Series 98 Regular

Diameter (mm)	Flute Length	Overall Length	Shank Diameter	Peak Power Coated	
				Order Code SWT-165	Offer Price/1
5.00	13.0	57.0	6.0	-9805A	1950.00
6.00	13.0	57.0	6.0	-9806A	2125.00
8.00	19.0	69.0	10.0	-9808A	2350.00
10.00	22.0	72.0	10.0	-9810A	2500.00
12.00	26.0	83.0	12.0	-9812A	4500.00
16.00	32.0	92.0	16.0	-9816A	4750.00

HSS-E PM Coated 2 Flute Slot Drills

NEW

HSS-E PM

PEAK POWER

Centre cutting. Weldon shank to DIN 1835B. Shank diameter to h6. Dimensions to DIN 844.



Series 91 Regular

Diameter (mm)	Flute Length	Overall Length	Shank Diameter	Peak Power Coated	
				Order Code SWT-165	Offer Price/1
2.00	4.0	47.0	6.0	-9102A	1200.00
3.00	5.0	49.0	6.0	-9103A	1300.00
4.00	7.0	51.0	6.0	-9104A	1500.00
5.00	8.0	52.0	6.0	-9105A	1750.00
6.00	8.0	52.0	6.0	-9106A	1950.00
8.00	11.0	61.0	10.0	-9108A	2500.00
10.00	13.0	63.0	10.0	-9110A	3500.00
12.00	16.0	73.0	12.0	-9112A	3750.00
14.00	16.0	73.0	12.0	-9114A	4500.00
16.00	19.0	79.0	16.0	-9116A	5500.00
20.00	22.0	88.0	20.0	-9120A	7500.00

HSS-E PM Coated Fine Pitch Ripper

HSS-E PM

PEAK POWER

Centre cutting. Weldon shank to DIN 1835B. Cutting diameter to js12. Shank diameter to h6. Dimensions to DIN 844.



Series 94 Regular

Diameter (mm)	Flute Length	Overall Length	Shank Diameter	No. of Flutes	Peak Power Coated	
					Order Code SWT-165	Offer Price/1 TB
6.00	13.0	57.0	6.0	3	-9406A	1500.00
8.00	19.0	69.0	10.0	3	-9408A	2100.00
10.00	22.0	72.0	10.0	4	-9410A	2400.00
12.00	26.0	83.0	12.0	4	-9412A	2500.00
14.00	26.0	83.0	12.0	4	-9414A	3400.00
16.00	32.0	94.0	16.0	4	-9416A	3605.00
18.00	32.0	94.0	16.0	4	-9418A	4250.00
20.00	38.0	104.0	20.0	4	-9420A	4635.00
22.00	38.0	104.0	20.0	4	-9422A	5500.00
25.00	45.0	121.0	25.0	5	-9425A	6695.00

HSS-E PM Coated 2 Flute Ball Nosed Slot Drills

HSS-E PM

PEAK POWER

Centre cutting. Weldon shank to DIN 1835B. Shank diameter to h6. Dimensions to DIN 844.



Series 97 Regular

Diameter (mm)	Flute Length	Overall Length	Shank Diameter	Peak Power Coated	
				Order Code SWT-165	Offer Price/1
3.00	5.0	49.0	6.0	-9703A	1100.00
4.00	7.0	51.0	6.0	-9704A	1500.00
5.00	8.0	52.0	6.0	-9705A	1750.00
6.00	8.0	52.0	6.0	-9706A	1950.00
8.00	11.0	61.0	10.0	-9708A	2450.00
10.00	13.0	63.0	10.0	-9710A	3500.00
12.00	16.0	73.0	12.0	-9712A	4500.00
16.00	19.0	79.0	16.0	-9716A	6500.00

HSS-E PM Coated Coarse Pitch Ripper Cutters

HSS-E PM

PEAK POWER

Centre cutting. Weldon shank to DIN 1835B. Shank diameter to h6. Dimensions to DIN 844.



Series 99 Regular

Diameter (mm)	Flute Length	Overall Length	Shank Diameter	No. of Flutes	Peak Power Coated	
					Order Code SWT-165	Offer Price/1
6.00	13.0	57.0	6.0	3	-9906A	1850.00
8.00	19.0	69.0	10.0	3	-9908A	2125.00
10.00	22.0	72.0	10.0	4	-9910A	2500.00
12.00	26.0	83.0	12.0	4	-9912A	2950.00
16.00	32.0	92.0	16.0	4	-9916A	6250.00
20.00	38.0	104.0	20.0	4	-9920A	6750.00

SWISS+TECH**HSS-E PM 2 Flute Slot Drill
Peak Power Set****Weldon Shank - 7 Piece Set**

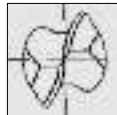
Centre cutting.

To **Manufacturers Standards.**Weldon shank to **DIN 1835B.**Shank diameter to **h6.**Dimensions to **DIN 844.****Contents:** 3, 4, 5, 6,
8, 10 and 12mm.**NEW****HSS-E PM****PEAK POWER****7
PIECES****Series 91**

Number of Pieces	Contents	Order Code SWT-165	Price/1 TB
7	3, 4, 5, 6, 8, 10, & 12mm	-9150A	34000.00

**HSS-E PM 2 Flute Ball Nose
Slot Drill Peak Power Set****Weldon Shank - 7 Piece Set**

Centre cutting.

To **Manufacturers Standards.**Weldon shank to **DIN 1835B.**Shank diameter to **h6.**Dimensions to **DIN 844.****Contents:** 3, 4, 5, 6,
8, 10 and 12mm.**HSS-E PM****PEAK POWER****7
PIECES****Series 97**

Number of Pieces	Contents	Order Code SWT-165	Price/1 TB
7	3, 4, 5, 6, 8, 10 & 12mm	-9750A	8910.00

**HSS-E PM High Helix Fine Pitch
Ripper Peak Power Set****Weldon Shank - 6 Piece Set**

Centre cutting.

To **Manufacturers Standards.**Weldon shank to **DIN 1835B.**Shank diameter to **h6.**Dimensions to **DIN 844.****Contents:** 5, 6, 8,
10, 12 and 16mm.**HSS-E PM****PEAK POWER****6
PIECES****Series 98**

Number of Pieces	Contents	Order Code SWT-165	Price/1 TB
6	5, 6, 8, 10, 12 and 16mm	-9850A	35000.00

**HSS-E PM Coarse Pitch Ripper
Peak Power Set****Weldon Shank - 5 Piece Set**

Centre cutting.

To **Manufacturers Standards.**Weldon shank to **DIN 1835B.**Shank diameter to **h6.**Dimensions to **DIN 844.****Contents:** 8, 10, 12,
16 and 20mm.**HSS-E PM****PEAK POWER****5
PIECES****Series 99**

Number of Pieces	Contents	Order Code SWT-165	Price/1 TB
5	8, 10, 12, 16 & 20mm	-9950A	59000.00

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SWISS+TECH



Carbide Cutters Q-Coat Coated

Q-Coat has been specifically developed to give carbide cutters the 'edge' when faced with severe machining conditions.

- Materials up to 66HRC.
- Dry Cutting.
- Die and Mould Machining
- Improved Productivity.
- Reduced coolant usage and disposal.
- Up to 100% longer cutter life.
- Reduced manufacturing costs.

A multi-layer coating capable of operating at higher speed and feed.

- Excellent oxidation resistance.
- High speed machining.
- Surface hardness 3300HV.
- Surface coefficient against steel 0.25.
- Thickness of coating 3 - 5µm.
- Maximum working temperature 850°C.
- Re-coating service also available.

Carbide Plain Shank Slot Drills 2 Flute

Centre cutting.
To **Manufacturers Standards**.
Cutting diameter to **h10**. Shank diameter to **h6**.
SDQ-2PS Carbide Q-Coat.

CARBIDE Q-Coat



Series 60 Short Series Dimensions to DIN 844

Diameter (mm)	Flute Length	Overall Length	Shank Diameter	SDQ-2PS Carbide Q-Coat	
				Order Code SWT-165	Offer Price/1
1.00	2.5	45.0	4.0	-6001A	1700.00
2.00	6.0	45.0	4.0	-6002A	1400.00
3.00	8.0	45.0	6.0	-6003A	2100.00
4.00	11.0	45.0	6.0	-6004A	2100.00
5.00	13.0	50.0	6.0	-6005A	2100.00
6.00	13.0	50.0	6.0	-6006A	2100.00
7.00	16.0	60.0	8.0	-6007A	4365.00
8.00	19.0	60.0	8.0	-6008A	2750.00
9.00	19.0	70.0	8.0	-6009A	3950.00
10.00	22.0	70.0	10.0	-6010A	3950.00
12.00	26.0	75.0	12.0	-6012A	4950.00
16.00	32.0	100.0	16.0	-6016A	8500.00
20.00	38.0	104.0	20.0	-6020A	14500.00

Carbide Plain Shank Slot Drills 2 Flute

Centre cutting. To **Manufacturers Standards**.
Cutting diameter to **h10**. Shank diameter to **h6**.
SDQ-2PS Carbide Q-Coat.

CARBIDE Q-Coat



NEW

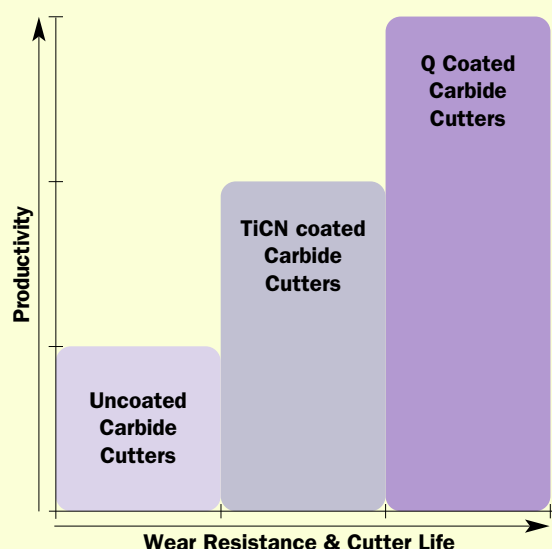


Series 62 Long Series Dimensions to DIN 844

Diameter (mm)	Flute Length	Overall Length	Shank Diameter	SDQ-2PL Carbide Q-Coat	
				Order Code SWT-165	Offer Price/1
3.00	12.0	50.0	6.0	-6203A	2850.00
4.00	15.0	50.0	6.0	-6204A	2950.00
5.00	20.0	60.0	6.0	-6205A	3250.00
6.00	20.0	60.0	6.0	-6206A	3657.00
8.00	25.0	70.0	8.0	-6208A	4650.00
10.00	30.0	90.0	10.0	-6210A	6550.00
12.00	30.0	90.0	12.0	-6212A	7983.00
16.00	50.0	110.0	16.0	-6216A	12800.00
20.00	55.0	110.0	20.0	-6220A	19500.00

A Step Beyond Carbide . . .

For Extreme Conditions - High Cutting Speeds



Carbide Plain Shank End Mills 4 Flute

Centre cutting.
To **Manufacturers Standards**. Cutting diameter to **h10**.
Shank diameter to **h6**.
EMQ-4PS/L Carbide Q-Coat.

CARBIDE Q-Coat



Series 66 Short Series Dimensions to DIN 844

Diameter (mm)	Flute Length	Overall Length	Shank Diameter	EMQ-4PS Carbide Q-Coat	
				Order Code SWT-165	Offer Price/1
2.00	6.0	40.0	4.0	-6602A	1288.00
3.00	8.0	45.0	6.0	-6603A	2100.00
4.00	11.0	45.0	6.0	-6604A	2100.00
5.00	13.0	50.0	6.0	-6605A	2100.00
6.00	13.0	50.0	6.0	-6606A	2100.00
7.00	16.0	60.0	8.0	-6607A	2750.00
8.00	19.0	60.0	8.0	-6608A	2750.00
9.00	19.0	70.0	10.0	-6609A	3950.00
10.00	22.0	70.0	10.0	-6610A	3950.00
11.00	22.0	75.0	12.0	-6611A	4950.00
12.00	26.0	75.0	12.0	-6612A	4950.00
14.00	26.0	85.0	14.0	-6614A	9260.00
16.00	32.0	100.0	16.0	-6616A	9620.00
18.00	32.0	100.0	18.0	-6618A	13500.00
20.00	38.0	105.0	20.0	-6620A	13500.00
25.00	45.0	120.0	25.0	-6625A	29000.00

Carbide Plain Shank End Mills 4 Flute

Centre cutting. To **Manufacturers Standards**.
Cutting diameter to **h10**. Shank diameter to **h6**.
EMQ-4PS/L Carbide Q-Coat.

CARBIDE Q-Coat

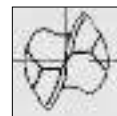


Series 68 Long Series Dimensions to DIN 844

Diameter (mm)	Flute Length	Overall Length	Shank Diameter	EMQ-4PL Carbide Q-Coat	
				Order Code SWT-165	Offer Price/1
3.00	12.0	50.0	6.0	-6803A	2833.00
4.00	15.0	50.0	6.0	-6804A	2833.00
5.00	20.0	60.0	6.0	-6805A	3090.00
6.00	20.0	60.0	6.0	-6806A	3348.00
8.00	25.0	70.0	8.0	-6808A	4378.00
10.00	30.0	90.0	10.0	-6810A	6129.00
12.00	30.0	90.0	12.0	-6812A	7262.00
16.00	50.0	110.0	16.0	-6816A	12000.00
20.00	55.0	110.0	20.0	-6820A	19055.00

SWISS+TECH**Carbide Plain Shank Slot Drills 2 Flute Ball Nose**

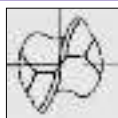
Centre cutting.
To **Manufacturers Standards**.
Cutting diameter to **e8**.
Shank diameter to **h6**.
Carbide Q-Coat.

CARBIDE**Q-Coat****Series 73 Long Reach**

Dia. (mm)	Shank Dia	Length of Cut	Length Below Shank	Overall Length	Neck Dia.	Carbide Q-Coat	
						Order Code SWT-165	Price/1 TB
0.60	4.0	0.9	6.0	35.0	0.55	-7302A	2833.00
1.50	4.0	2.3	20.0	55.0	1.39	-7310A	2833.00

Carbide Plain Shank Slot Drills 2 Flute Ball Nose

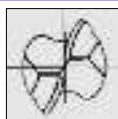
Centre cutting.
To **Manufacturers Standards**.
Cutting diameter to **h10**.
Shank diameter to **h6**.
Carbide Q-Coat.

CARBIDE Q-Coat**Series 75 Regular Neck**

Dia. (mm)	Shank Dia.	Length of Cut	Length Below Shank	Overall Length	Neck Dia	Carbide Q-Coat	
						Order Code SWT-165	Price/1 TB
0.80	4.0	1.2	2.0	45.0	0.75	-7508A	2575.00
1.00	4.0	1.5	3.0	45.0	0.97	-7510A	2678.00
1.50	4.0	2.3	6.0	45.0	1.47	-7514A	2833.00

Carbide Plain Shank Slot Drills Ball Nosed 2 Flute

Centre cutting.
To **Manufacturers Standards**.
Cutting diameter to **e8**.
Shank diameter to **h6**.
SBQ-2PR Carbide Q-Coat.

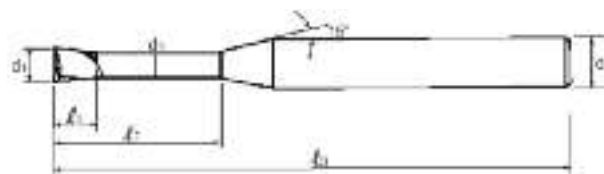
CARBIDE Q-Coat**Series 78 Regular Length**

Diameter (mm)	Flute Length	Overall Length	Shank Diameter	SBQ-2PR Carbide Q-Coat	
				Order Code SWT-165	Price/1 TB
2.00	5.0	50.0	6.0	-7802A	1950.00
2.50	6.0	60.0	6.0	-7802L	1950.00
3.00	8.0	60.0	6.0	-7803A	1803.00
4.00	8.0	70.0	6.0	-7804A	1803.00
5.00	10.0	80.0	6.0	-7805A	1803.00
6.00	12.0	90.0	6.0	-7806A	2575.00
8.00	14.0	100.0	8.0	-7808A	4635.00
10.00	18.0	100.0	10.0	-7810A	6695.00
12.00	22.0	110.0	12.0	-7812A	8755.00
16.00	30.0	140.0	16.0	-7816A	10500.00

Dia. (mm)	Shank Dia	Length of Cut	Length Below Shank	Overall Length	Neck Dia.	Carbide Q-Coat	
						Order Code SWT-165	Price/1 TB
2.00	4.0	3.0	16.0	50.0	1.91	-7318A	2833.00
2.00	4.0	3.0	20.0	55.0	1.89	-7320A	2833.00

Carbide Plain Shank Slot Drills 2 Flute

Centre cutting.
To **Manufacturers Standards**.
Cutting diameter to **h10**.
Shank diameter to **h6**.
Carbide Q-Coat.

CARBIDE Q-Coat**Series 74 Long Reach**

Dia. (mm)	Shank Dia. (d2)	Length of Cut (l1)	Length Below Shk(l2)	Overall Length (l3)	Neck Dia. (d3)	Carbide Q-Coat	
						Order Code SWT-165	Price/1 TB
0.50	4.0	0.7	6.0	45.0	0.45	-7402A	2060.00
0.60	4.0	0.9	4.0	45.0	0.55	-7404A	2060.00
0.80	4.0	1.2	4.0	45.0	0.75	-7408A	2060.00
1.00	4.0	1.5	8.0	45.0	0.95	-7412A	2060.00
1.00	4.0	1.5	10.0	45.0	0.95	-7414A	2060.00
1.20	4.0	1.8	12.0	45.0	1.13	-7416A	2060.00
1.50	4.0	2.3	16.0	50.0	1.41	-7418A	2060.00
2.00	4.0	3.0	14.0	50.0	1.93	-7420A	2060.00
2.00	4.0	3.0	20.0	55.0	1.89	-7422A	2060.00
2.50	4.0	3.7	20.0	60.0	2.40	-7424A	2060.00
3.00	6.0	4.5	14.0	50.0	2.85	-7426A	3100.00
3.00	6.0	4.5	25.0	65.0	2.85	-7428A	3200.00

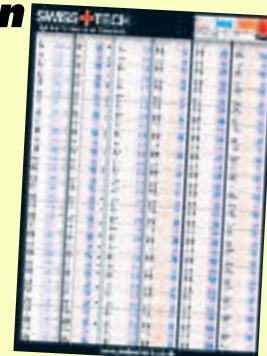
FREE**SWISS+TECH**

**Decimal Conversion
Wall Chart
(A2 Size)**

**AVAILABLE
ON REQUEST**

CAT-849-2189A

Contact your local
branch or
representative.



SWISS+TECH

Carbide Plain Shank End Mills Ball Nosed 4 Flute

Centre cutting.
To **Manufacturers Standards**.
Cutting diameter to **e8**.
Shank diameter to **h6**.
EBQ-4PR Carbide Q-Coat.

CARBIDE Q-Coat



Series 80 - Regular Length Dimensions to **DIN 844**

EBQ-4PR Q-Coat					
Diameter (mm)	Flute Length	Overall Length	Shank Diameter	Order Code SWT-165	Price/1 TB
2.00	5.0	50.0	6.0	-8002A	2575.00
3.00	8.0	60.0	6.0	-8003A	2833.00
4.00	8.0	70.0	6.0	-8004A	3193.00
5.00	10.0	80.0	6.0	-8005A	3605.00
6.00	12.0	90.0	6.0	-8006A	3502.00
8.00	14.0	100.0	8.0	-8008A	4223.00
10.00	18.0	100.0	10.0	-8010A	6500.00
12.00	22.0	110.0	12.0	-8012A	7500.00
16.00	30.0	140.0	16.0	-8016A	12500.00

Carbide Plain Shank Corner Radius Slot Drills 2 Flute

Centre cutting.
To **Manufacturers Standards**.
Cutting diameter to **e8**.
Shank diameter to **h6**.
SCQ-2PR Carbide Q-Coat.

CARBIDE Q-Coat



Series 85 Regular Series Dimensions to **DIN 844**

SCQ-2PR Carbide Q-Coat					
Diameter x Corner Radius (mm)	Flute Length	Overall Length	Shank Diameter	Order Code SWT-165	Price/1 TB
6.00 x 0.5	20	60	6	-8504K	2950.00
6.00 x 1.0	20	60	6	-8505K	3100.00
8.00 x 0.5	25	70	8	-8506K	3348.00
8.00 x 1.0	25	70	8	-8507K	3399.00
8.00 x 1.5	25	70	8	-8508K	3399.00
8.00 x 2.0	25	70	8	-8509K	3399.00
10.00 x 0.5	30	90	10	-8510K	4378.00
10.00 x 1.0	30	90	10	-8511K	4378.00
10.00 x 1.5	30	90	10	-8512K	5500.00
10.00 x 2.0	30	90	10	-8513K	5600.00
12.00 x 1.0	30	90	12	-8515K	6695.00
12.00 x 1.5	30	90	12	-8516K	6695.00
12.00 x 2.0	30	90	12	-8517K	6695.00

Carbide Plain Shank Corner Radius End Mills 4 Flute

Centre cutting.
To **Manufacturers Standards**.
Cutting diameter to **e8**. Shank diameter to **h6**.
ECQ-4PR Carbide Q-Coat.

CARBIDE Q-Coat



Series 86 Regular Length

ECQ-4PR Q-Coat					
Diameter x Corner Radius (mm)	Flute Length	Overall Length	Shank Diameter	Order Code SWT-165	Price/1 TB
6.00 x 0.5	20.0	60.0	6.0	-8604K	2575.00
6.00 x 1.0	20.0	60.0	6.0	-8605K	2730.00
8.00 x 0.5	25.0	70.0	8.0	-8606K	3348.00
8.00 x 1.0	25.0	70.0	8.0	-8607K	3760.00
8.00 x 1.5	25.0	70.0	8.0	-8608K	3863.00
8.00 x 2.0	25.0	70.0	8.0	-8609K	3966.00
10.00 x 0.5	30.0	90.0	10.0	-8610K	5555.00
10.00 x 1.0	30.0	90.0	10.0	-8611K	5555.00
10.00 x 1.5	30.0	90.0	10.0	-8612K	5555.00
10.00 x 2.0	30.0	90.0	10.0	-8613K	5555.00
12.00 x 0.5	30.0	90.0	12.0	-8614K	7500.00
12.00 x 1.0	30.0	90.0	12.0	-8615K	7500.00
12.00 x 1.5	30.0	90.0	12.0	-8616K	7500.00

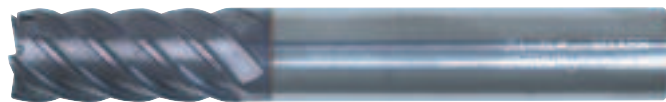
Carbide Plain Shank End Mills High Helix

Centre cutting.
To **Manufacturers Standards**.
Cutting diameter to **e8**.
Shank diameter to **h6**.
EHQ-6*PR Carbide Q-Coat.

CARBIDE Q-Coat



*Number varies according to the number of flutes.



Series 72 Regular Length

EHQ-6PR Carbide Q-Coat						
Diameter (mm)	Flute Length	Overall Length	Shank Diameter	No. of Flutes	Order Code SWT-165	Price/1 TB
3.00	8.0	57.0	6.0	4.0	-7203A	2400.00
4.00	11.0	57.0	6.0	4.0	-7204A	2400.00
6.00	13.0	57.0	6.0	6.0	-7206A	2500.00
8.00	19.0	63.0	8.0	6.0	-7208A	2850.00
10.00	22.0	72.0	10.0	6.0	-7210A	4100.00
12.00	26.0	83.0	12.0	6.0	-7212A	5500.00
16.00	32.0	92.0	16.0	6.0	-7216A	9500.00
20.00	38.0	104.0	20.0	8.0	-7220A	13500.00

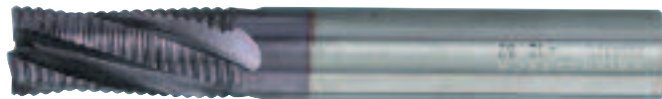
Carbide Plain Shank Ripper Fine Pitch

Centre cutting.
To **Manufacturers Standards**.
Cutting diameter to **e8**.
Shank diameter to **h6**.
RFQ-3*PR Carbide Q-Coat.

CARBIDE Q-Coat



*Number varies according to the number of flutes.



Series 82 - Regular Length Dimensions to **DIN 844**

RFQ-3PR Q-Coat						
Diameter (mm)	Flute Length	Overall Length	Shank Diameter	Number of Flutes	Order Code SWT-165	Price/1 TB
6.00	16.0	57.0	6.0	3.0	-8206A	2318.00
8.00	16.0	63.0	8.0	3.0	-8208A	2833.00
10.00	22.0	72.0	10.0	4.0	-8210A	4400.00
12.00	26.0	83.0	12.0	4.0	-8212A	5400.00
16.00	32.0	92.0	16.0	4.0	-8216A	9400.00
20.00	38.0	104.0	20.0	4.0	-8220A	14500.00

