



Calibre

**router
tooling
catalogue
2023-24**

Symbols



Tool designed to drill blind holes in natural wood, chipboard panels, plywood etc.



Tool designed to drill through holes in natural wood, chipboard panels, plywood etc.



Shank with clamping flat



Up cut spiral: better finish on lower side of worked panel



Down cut spiral: better finish on upper side of worked panel



'Compression' cut spiral: better finish on both sides of worked panel



Micrograin hard metal: highest toughness combined with superior wear resistance



Chip free negative spur action



Tool with length adjusting screw



Number of flutes
(+1= Means plunge cut)



Number of flutes
(V) Number of spurs



Non-stick coating



Right hand or clockwise rotation



Left hand or anti clockwise rotation



Left hand rotation supplied on request only



Tool designed for rough work



Tool designed for finish working



Tool suitable for CNC working



Max RPM



Recommended Feed Rate



Light Alloy Body

Calibre profile



Calibre Tooling is now established as one of the UK's specialist router

tooling and accessory suppliers and we are pleased to release our latest and most comprehensive catalogue.

A close working relationship with the tooling manufacturer FUL of Italy, Calibre can supply high quality tooling through its well established network of professional distributors – giving a next day delivery service.

Calibre/FUL specialise in solid carbide spiral tooling drill bits, which includes a high performance range of solid carbide drills and TCT router cutters that covers straight flute and profile cutter ranges.

New additions to this latest catalogue are long series solid carbide drills, ideal for deep drilling into hardwoods and softwoods, a range of solid carbide drills designed to be used in collet systems in CNC routing machines. These drills will run at 8000 – 10,000 rpm and can be drill fed at 1 – 6 metres per minute.

All Calibre Tools are designed using the finest materials, combined with the latest manufacturing technology to produce high quality tooling for the woodworking, plastics and allied industries.



Calibre/FUL

Quality Router Tooling
at competitive prices.

Straight Flute Router Cutters

Single flute | A03/SQC

TCT High relief cutters

Z=1

Fast feed rates with extra clearance, the use of a single flute gives a stronger cutting edge.

An ideal range for fast feed 'roughing work'.

SQC range ideal for machining hard plastics

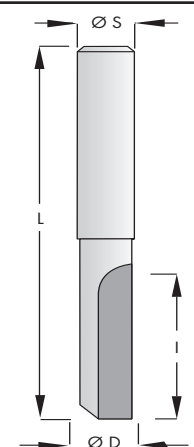
• = solid carbide



MAX RPM
24,000

5M

D	I	L	S	Part no	£ Price
1/8"	3/8"	1 3/4"	1/4"	•A03.00	18.65
3/16"	1/2"	2"	1/4"	•A03.02	18.65
1/4"	3/4"	2 1/4"	1/4"	•A03.06	18.65
1/4"	1"	2 1/2"	1/4"	•A03.08	18.65
3/8"	1"	2 5/8"	1/2"	A06.04	21.00
1/2"	1 1/4"	2 7/8"	1/2"	A06.08	22.90
1/2"	1 1/2"	3 1/8"	1/2"	A06.10	26.15
1/2"	2"	4 1/8"	1/2"	A06.12	28.45
3	12	50	6	•SQC312	18.80
4	25	60	6.35	•SQC425	34.20
5	20	50	6	•SQC500	26.15
6	25	65	6	•SQC625	26.15
6.35	25	65	6.35	•SQC635	26.15
8	25	65	8	•SQC825	27.30



Double flute | A04/A05

TCT Plunging cutters with 'web style' plunge cut

Z=2+1

For portable routing machines of 800 watt and over. An excellent cutter for use in a joinery or shopfitting environment where hand routing machines are in common use.

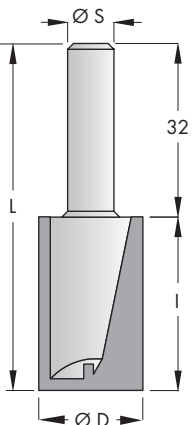
• = solid carbide



MAX RPM
24,000

5M

D	I	L	S	Part no	£ Price
1/8"	3/8"	1 3/4"	1/4"	•A04.00	19.60
3/16"	1/2"	2"	1/4"	•A04.02	19.60
1/4"	3/4"	2 1/4"	1/4"	•A04.06	22.60
1/4"	1"	2 1/4"	1/4"	•A04.08	26.15
1/4"	3/4"	2 1/4"	3/8"	•A05.00	19.60
5/16"	1"	2 1/2"	1/4"	A04.12	22.05
3/8"	3/4"	2 1/4"	1/4"	A04.14	22.05
3/8"	1"	2 1/2"	3/8"	A05.04	22.05
3/8"	1"	2 1/2"	1/4"	A04.16	22.05
1/2"	3/4"	2 1/4"	1/4"	A04.22	22.05
1/2"	1"	2 1/2"	1/4"	A04.24	23.80
1/2"	1"	2 1/2"	3/8"	A05.10	23.80
5/8"	3/4"	2 1/4"	1/4"	A04.28	23.80
5/8"	3/4"	2 3/4"	1/4" long shank for mortise work	A04.28L	26.15
3/4"	3/4"	2 1/4"	1/4"	A04.32	27.60
7/8"	3/4"	2 1/4"	1/4"	A04.36	34.20
1"	3/4"	2 1/4"	1/4"	A04.38	30.70



Double flute | A07

TCT Plunging cutters imperial sizes with plunge facility

Z=2+1

A high feed rate router cutter for cutting solid timbers, chipboard, MDF and other man-made materials.

Can be used in fixed head and large portable routing machines (1600 watt) and CNC equipment.

• = solid carbide insert

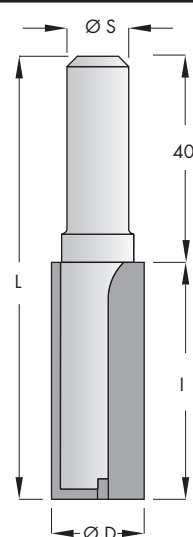
These tools are produced from high quality 'fatigue proof' steel.



MAX RPM
24,000

5-8M

D	I	L	S	Part no	£ Price
1/8"	3/8"	2 1/4"	1/2"	•A07.000	23.80
3/16"	1/2"	2 1/4"	1/2"	•A07.000L	23.80
1/4"	3/4"	2 3/8"	1/2"	•A07.00	23.80
1/4"	1"	2 5/8"	1/2"	•A07.00L	27.85
5/16"	3/4"	2 3/8"	1/2"	•A07.02	28.40
5/16"	1"	2 5/8"	1/2"	•A07.04	33.00
3/8"	3/4"	2 3/8"	1/2"	A07.06	19.85
3/8"	1"	2 5/8"	1/2"	A07.08	21.75
3/8"	1 1/4"	2 7/8"	1/2"	A07.10	27.50
1/2"	1"	2 5/8"	1/2"	A07.16	20.35
1/2"	1 1/4"	2 7/8"	1/2"	A07.18	21.75
1/2"	1 1/2"	3 1/8"	1/2"	A07.20	24.15
1/2"	2"	4 1/8"	1/2"	A07.22	28.45
1/2"	2 1/2"	4 1/2"	1/2"	A07.22L	33.85
9/16"	1 1/4"	3"	1/2"	A07.26	27.95
5/8"	1 1/4"	3"	1/2"	A07.28	30.25
5/8"	1 1/2"	3 1/4"	1/2"	A07.30	31.90
5/8"	2"	4"	1/2"	A07.32	38.00
5/8"	2 1/2"	4 1/2"	1/2"	A07.32L	42.75
3/4"	1 1/4"	3"	1/2"	A07.40	30.90
3/4"	1 1/2"	3 1/4"	1/2"	A07.42	36.05
3/4"	2"	4"	1/2"	A07.42L	36.50
7/8"	1 1/4"	3"	1/2"	A07.48	34.55
1"	1 1/4"	3"	1/2"	A07.52	40.45
1 1/8"	1 1/2"	3 1/4"	1/2"	A07.54	43.25
1 1/4"	1 1/2"	3 1/4"	1/2"	A07.56	46.80
1 3/8"	1 1/4"	3"	1/2"	A07.58	55.95
1 1/2"	1 1/4"	3"	1/2"	A07.60	51.85
1 3/4"	1 1/4"	3"	1/2"	A07.62	55.40
2"	1 1/4"	3"	1/2"	A07.64	67.20



Double flute long series

D	I	L	S	Neck depth	Part no	£ Price
1/2"	1 1/4"	4"	1/2"	2 1/4"	A07.188	30.35
1/2"	2"	5"	1/2"	3"	A07.222	44.00
5/8"	2"	5"	1/2"	3"	A07.322	47.65
3/4"	2"	5"	1/2"	3"	A07.400	52.60

These long series tools have extended shank lengths for deep routing and mortise work.

Remember, we can supply special tools, please submit drawings or send samples.

Double flute | H0

TCT Metric cutters with plunging point
Z=2+1

For portable routing machines 800 watt and over.

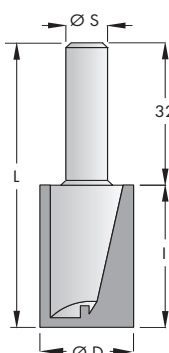
• = Solid Carbide Insert

Z=2+1



MAX RPM
24,000

5-8M



D	I	L	S	Part no	£ Price
3	10	45	6.35	•H0.030.B	20.60
4	10	45	6.35	•H0.040.B	20.55
5	15	50	6.35	•H0.050.B	20.55
6	18	50	6.35	•H0.060.B	20.55
6	25	65	6.35	•H0.625.B	26.15
7	20	55	6.35	H0.070.B	20.55
8	20	55	6.35	H0.080.B	20.55
9	20	55	6.35	H0.090.B	20.55
10	20	55	6.35	H0.100.B	20.55
11	25	60	6.35	H0.110.B	20.90
12	20	55	6.35	H0.120.B	20.90
13	20	55	6.35	H0.130.B	20.90
14	20	55	6.35	H0.140.B	20.90
15	20	55	6.35	H0.150.B	22.45
16	20	55	6.35	H0.160.B	22.45
17	20	55	6.35	H0.170.B	24.95
18	20	55	6.35	H0.180.B	24.95
20	20	55	6.35	H0.200.B	28.10
22	20	55	6.35	H0.220.B	29.30
24	20	55	6.35	H0.240.B	30.05
25	20	55	6.35	H0.250.B	31.90

Double flute | 35A

Long series straight flute mortise and pocketing cutters
Z=2+1

Ideal for on-site work with portable routing machines.

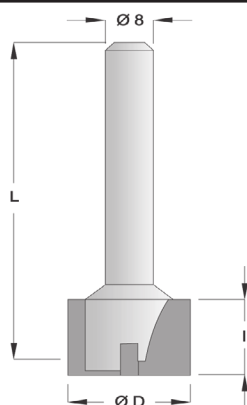
• = Solid Carbide Insert

Z=2+1



MAX RPM
24,000

3-5M



D	I	L	S	Part no	£ Price
4	8	70	8	35A.040	26.95
5	10	70	8	35A.050	26.95
6	15	70	8	35A.060	26.95
8	18	70	8	35A.080	27.75
10	20	70	8	35A.100	30.90
12	20	70	8	35A.120	31.50
14	20	70	8	35A.140	31.50
15	20	70	8	35A.150	31.50
16	20	70	8	35A.160	31.50
18	20	70	8	35A.180	36.30
20	20	70	8	35A.200	36.30
22	20	70	8	35A.220	36.30
24	20	70	8	35A.240	39.45
25	20	70	8	35A.250	44.60
30	20	70	8	35A.300	51.60

Double flute | H0/8A

TCT Metric cutters with plunging point
Z=2+1

For CNC machines.

• = Solid Carbide Insert

These tools are produced from high quality 'fatigue proof' steel.

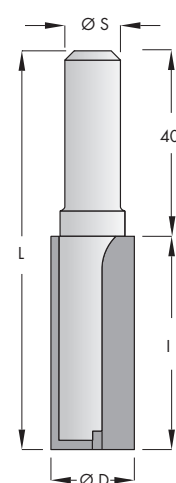
Z=2+1



CNC

MAX RPM
24,000

5-8M

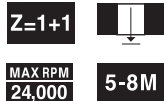


D	I	L	S	Part no	£ Price
3	10	50	12.7	•H0.030.F	23.80
4	10	60	12.7	•H0.040.F	23.80
5	15	60	12.7	•H0.050.F	23.80
5	20	60	12.7	•H0.520.F	25.55
6	18	60	12.7	•H0.060.F	25.55
6	25	70	12.7	•H0.625.F	27.85
7	20	60	12.7	•H0.070.F	27.85
8	20	60	12.7	•H0.080.F	28.45
8	25	70	12.7	•H0.825.F	33.10
9	25	65	12.7	8A.925.A.F	26.15
10	25	65	12.7	8A.100.A.F	26.70
10	30	70	12.7	8A.100.B.F	27.10
10	35	75	12.7	8A.100.C.F	31.95
11	25	65	12.7	8A.110.A.F	27.00
12	25	65	12.7	8A.120.A.F	27.85
12	40	80	12.7	8A.120.D.F	32.35
12	50	105	12.7	8A.120.E.F	35.70
12	63	120	12.7	8A.120.F.F	38.85
13	25	65	12.7	8A.130.A.F	29.30
14	25	65	12.7	8A.140.A.F	30.15
14	40	80	12.7	8A.140.D.F	33.20
15	25	65	12.7	8A.150.A.F	33.20
15	40	80	12.7	8A.150.D.F	38.85
16	25	65	12.7	8A.160.A.F	33.20
16	40	80	12.7	8A.160.D.F	38.85
18	25	65	12.7	8A.180.A.F	33.85
18	40	80	12.7	8A.180.D.F	42.30
18	50	90	12.7	8A.180.E.F	45.40
19	25	65	12.7	8A.190.A.F	33.85
19	40	80	12.7	8A.190.D.F	42.30
20	25	65	12.7	8A.200.A.F	36.50
20	40	80	12.7	8A.200.D.F	42.30
22	25	65	12.7	8A.220.A.F	38.25
22	40	80	12.7	8A.220.D.F	44.90
24	25	65	12.7	8A.240.A.F	39.70
24	40	80	12.7	8A.240.D.F	46.20
25	25	65	12.7	8A.250.A.F	39.70
25	40	80	12.7	8A.250.D.F	45.80
26	25	65	12.7	8A.260.A.F	42.30
26	40	80	12.7	8A.260.D.F	47.55
28	25	65	12.7	8A.280.A.F	44.80
28	40	80	12.7	8A.280.D.F	49.45
30	25	65	12.7	8A.300.A.F	44.80
30	40	80	12.7	8A.300.D.F	53.80
35	25	65	12.7	8A.350.A.F	56.25
35	40	80	12.7	8A.350.D.F	64.30
40	25	80	12.7	8A.400.A.F	75.30

Single flute | A08

TCT Staggertooth cutters
High performance
Z=1+1

High relief, deep contour cutter for 'rough cut'
of chipboard and MDF.



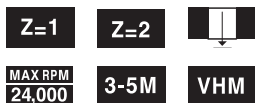
D	I	L	S	Part no	£ Price
1/2"	1 1/2"	3 1/8"	1/2"	A08.04	27.00
1/2"	2 1/8"	4"	1/2"	A08.06	35.80
5/8"	2 1/8"	4"	1/2"	A08.08	41.00

Plunge and Trim | A15/A16

TCT Plunge and trim
router cutters Z=1 or Z=2 see grid

For use in the caravan and mobile home industry, used in portable, or radial arm routing machines. Fast feed rates allow for easier cutting action. Ideal for cutting apertures to take 'the services' in caravan production.

• = solid carbide (Part no A15.00H is solid carbide)



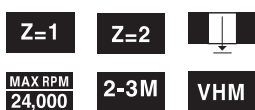
D	I	L	S	Z	Part no	£ Price
6.35	19	57	6.35	1	A15.00	18.55
9.5	25	75	9.5	1	A15.02	21.45
9.5	25	75	9.5	2	A16.02	21.45
12.7	32	95	12.7	2	A16.04	28.70
12.7	50	115	12.7	2	A16.06	56.80
6.35	19	57	6.35	1 VHM	•A15.00H	23.75

Trim and Guide | A15

Solid carbide
trim and guide
router cutter
Z=1

Ideal for robust 'on site'
laminate trimming.

A15.06 = 90°
A15.07 = 83°



D	I	L	S	Z	Part no	£ Price
6.35	10	50	6.35	1 STC	•A15.06	26.40
6.35	10	50	6.35	1 STC	•A15.07	26.40
6.35	10	50	6.35	1 STC	•A15.08	26.40

Upcut spiral | 9E

Solid carbide, spiral upcut, light
duty cutters
Z=2

For acrylics, plastics, light section MDF.
For heavy duty range see page 11.



D	I	L	S	Part no	£ Price
1.5	8	50	6.35 (Z=1)	9D.015.B	23.80
2	8	50	6.35	9E.020.B	23.80
2.5	12	50	6.35	9E.025.B	23.80
3	12	50	3	9E.030	18.80
3	12	50	6.35	9E.030.B	23.80
4	12	50	6.35	9E.040.B	23.80
5	14	50	6.35	9E.514.B	23.80
5	17	50	6.35	9E.050.B	23.80
6	20	60	6.35	9E.060.B	33.35
6.35	20	60	6.35	9E.063	31.90
6.35	27	65	6.35	9E.063.A	33.35
8	22	80	8.00	9E.080	41.70
8	32	80	8.00	9E.080.A	45.25
9.5	32	80	9.5	9E.095	55.65

Bearing guide trimmers | A25/A20

TCT 90° Bearing guided
trimmers
Z=2

For trimming plastics and veneers.
From 1/2" to 2" cut length.

* A25.066 has a downshear action for cleaner cut.



D	I	L	S	Part no	£ Price
6.35	12.7	55	6.35	A25.00E	17.40
6.35	19	62	6.35	A25.000	18.05
6.35	25	68	6.35	A25.00L	19.85
9.5	12.7	55	6.35	A25.00	21.75
9.5	25	68	6.35	A25.02	21.75
12.7	25	68	6.35	A25.06	21.75
12.7	25	68	6.35	A25.066*	23.45
12.7	25	70	12.7	A25.10	23.45
12.7	37	80	12.7	A25.12	26.50
12.7	50	95	12.7	A25.12L	44.00
19	25	70	6.35	A25.133	27.30
19	25	70	12.7	A25.13	27.30
19	50	100	12.7	A25.14	49.85
19	16	57	6.35	A20.00	28.45
19	16	65	12.7	A20.02	28.45
Replacement bearing 6.35 x 3.2				BB01	6.75
Replacement bearing 9.5 x 4.8				BB02	6.75
Replacement bearing 12.7 x 4.8				R3ZZ	5.85
Replacement bearing 19 x 6				626ZZ	7.35
Replacement screw M3 x 10				IV.008	1.80

Triple flute trimmers | A26

TCT Bearing guided trimmers

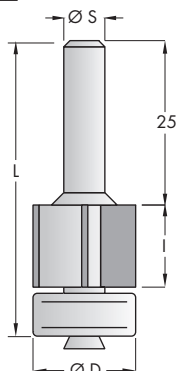
Z=3

For trimming of hard plastics giving a smooth finish.

Z=3

MAX RPM
24,000

3-5M



°	D	I	L	S	Part no	£ Price
90°	12.7	25	68	6.35	A26.02	26.15
90°	12.7	25	75	12.7	A26.22	28.45
90°	12.7	38	92	12.7	A26.08	39.40
90°	12.7	50	92	12.7	A26.10	56.25
Replacement bearing			12.7 x 4.8		R3ZZ	5.85
Replacement screw			M3 x 10		IV.008	1.80

Chamfer trimmers | H24/H31/H36

TCT Chamfer type bearing guided trimmers

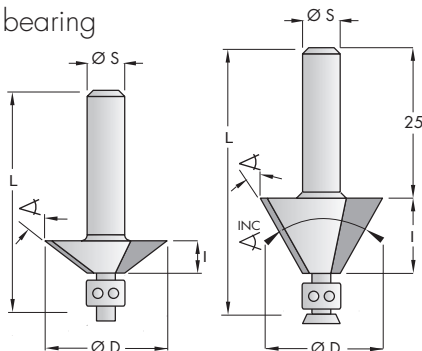
Z=2

For bevel trimming and light chamfer/cutting on portable routing machines of 800 watts and over.

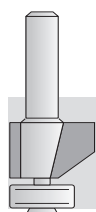
Z=2

MAX RPM
24,000

3-5M



°	D	I	L	S	INC	°	Part no	£ Price
10°	16	13	45	6.35	20°		H24.100.B	20.90
15°	19	13	45	6.35	30°		H24.150.B	20.90
15°	19	13	45	8	30°		H24.150.C	20.90
30°	22	12	45	6.35	60°		H24.300.B	22.90
30°	22	12	45	8	60°		H24.300.C	22.90
45°	32	11	45	6.35	90°		H24.450.B	26.15
45°	32	11	45	8	90°		H24.450.C	26.15
45°	32	11	45	12.7	90°		H24.450.F	27.85
45°	52	25	70	12.7	90°		H24L.450.F	67.20
60°	40	10	60	12.7	120°		H24.600.F	72.45
90/45°	26	15	50	6.35	180/90°		H31.000.B	21.50
90/45°	26	15	50	8	180/90°		H31.000.C	21.50
25°	41	14	56	12.7	50°		H36.250.F	44.00
Replacement bearing for H24 group			13 x 4				624ZZ	5.85
Replacement screw for H24 group							IV.008	1.80
Replacement bearing for H31 group			19 x 6				626ZZ	7.35
Replacement screw for H31 group							IV.005	1.80
Replacement bearing for H36 group			10 x 4				MR104ZZ	5.85
Replacement screw for H36 group							IV.008	1.80



Ref. No. H31.000

Special dual cutter, giving 90° at bottom 3 – 5mm. Ideal for flush and bevelled work. Saves time on cutter changeovers.

Top bearing guide trimmers | A60

TCT Top bearing guided trimmers

Z=2

Top bearing guide allows for easy set up on trimming. For use on portable machines of 800 watts and over.

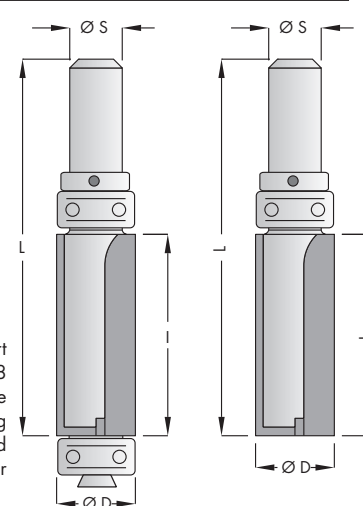
For replacement tip version see page 35.

Z=2

MAX RPM
24,000

3-5M

Part A60.08 Double bearing guided trimmer



°	D	I	L	S	Part no	£ Price
90°	12.7	9.5	60	6.35	A60.000	28.70
90°	12.7	25	60	6.35	A60.00	30.35
90°	16	20	55	6.35	A60.02	31.20
90°	16	25	60	6.35	A60.04	34.40
90°	19	12	65	12.7	A60.05S	40.30
90°	19	25	65	12.7	A60.05	41.10
90°	19	50	90	12.7	A60.06	52.15
90°	19	50	105	12.7	A60.08	55.65
Replacement bearing			12.7 x 6.35		R18877	5.85
Replacement bearing			16 x 6.35		R477	6.45
Replacement bearing			19 x 12.7		RR11212ZZ	8.75

RT trimmers | 1C/1D

Replacement tip 2 flute metric trimmer

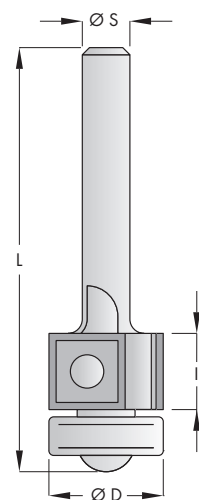
Z=2

Ideal cutter group – avoids re-sharpening costs and the need to purchase tools for stock.

Z=2

MAX RPM
24,000

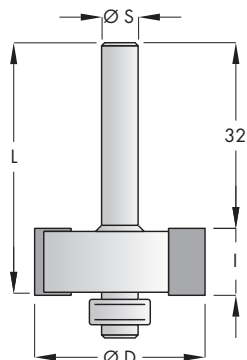
3-5M



°	D	I	L	S	Part no	£ Price
90°	19	12	55	6.35	1C.190.B	50.10
90°	19	12	55	8	1C.190.C	50.10
90°	19	12	70	12.7	1C.190.F	50.10
22°	24	10	55	6.35	1C.220.B	65.10
22°	24	10	70	8	1C.220.C	65.10
30°	26	8	55	6.35	1C.300.B	65.10
30°	26	8	70	8	1C.300.C	65.10
45°	29	6	55	6.35	1C.450.B	65.10
45°	29	6	70	8	1C.450.C	65.10
45°	29	6	70	12.7	1D.450.F	65.10
12 X 12 TC Replacement tip					1N.121	3.85
Replacement screw for TC Tips					IV.002	2.95
Replacement bearing 19 x 6					626ZZ	7.35
Replacement screw for bearing					IV.005	1.80

Rebate cutter | H40

TCT Rebate cutters
with bearing
Z=2



Z=2 **MAX RPM 24,000** **5M**

Rebate	D	I	L	S	Part no	£ Price
6	25	12	45	6.35	H40.250.B	30.05
6	25	12	45	8	H40.250.C	30.05
10	33	12	45	6.35	H40.330.B	32.15
10	33	12	45	8	H40.330.C	32.15
15	43	12	45	8	H40.400.C	34.45
15	43	12	52	12.7	H40.400.F	34.45
Replacement bearing	13 x 4				624ZZ	5.85
Replacement screw	M3 x 10				IV.008	1.80

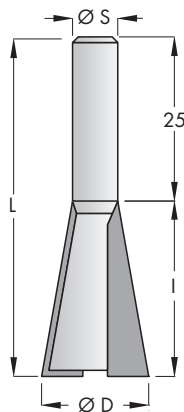
Dovetail and stair housing | A13

TCT Dovetail/stair
housing cutters
Z=2

7° for stair housing, 14° and 9° for dovetails.
For use on portable machines over 800 watts.

• Stair housing.

For 5° stairhousing angle use A13.145.

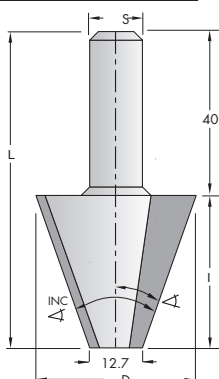


Z=2 **MAX RPM 24,000** **3M**

∠	D	I	L	S	Part no	£ Price
9°	9.5	9.5	40	6.35	A13.02	21.60
9°	10	10	40	6.35	A13.03	21.60
9°	12	12	50	6.35	A13.33	21.60
14°	12.7	12.7	40	6.35	A13.04	21.60
14°	12.7	12.7	50	12.7	A13.12	21.60
10°	15.9	18	50	6.35	A13.06	26.15
5°	16	25	70	12.7	A13.145	25.00
7°	16	22	63	12.7	•A13.14	25.00
7°	19	22	63	12.7	•A13.16	25.60
7°	22	22	63	12.7	•A13.18	26.50
7°	22	22	63	12.7 Left hand	•A13.18 LH	54.00

Heavy duty bevel | H1

TCT Bevel and chamfer cutters
Heavy duty



Z=2

MAX RPM 24,000

5M

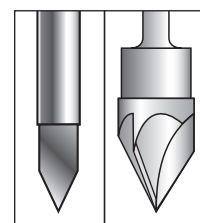
Double and single flute | H3/VHM

TCT 'V' Grooving and engraving cutters
Z=2

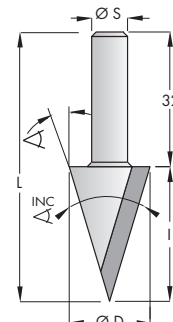
Designed for signwriting
in timber and MDF.

• = solid carbide
(H3.127 is a solid carbide
3 flute engraver).

The VHM cutters are for
machining acrylics.



VHM.600 H3.160.B



Z=1 **Z=2** **MAX RPM 24,000** **3M**

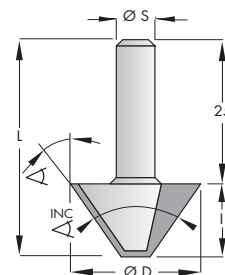
∠	D	I	L	S	Z	INC ∠	Part no	£ Price
22°	15	18	50	6.35	1	44°	H3.220.B	22.90
22°	15	18	50	8	1	44°	H3.220.C	22.90
45°	12.7	6.35	45	6.35	2	90°	H3.450.B	22.90
45°	12.7	6.35	45	8	2	90°	H3.450.C	22.90
45°	25.4	12.7	65	12.7	2	90°	H3.450.F	24.95
45°	32	16	70	12.7	2	90°	H3.450.FF	37.70
45°	32	16	70	12.7	1	90°	H3.450.SF	67.20
45°	52	25	85	12.7	2	90°	H3.450.FL	78.75
60°	16	14	40	6.35	2	120°	H3.600.B	21.50
60°	16	14	40	8	2	120°	H3.600.C	23.00
60°	16	14	55	12.7	2	120°	H3.600.F	24.95
60°	12.7	12	50	12.7	3	120°	•H3.127.F	52.15
60°	16	12	65	6.35	3	120°	•H3.160.B	55.65
Engraving tools								
10°	8	18	60	8	1	20°	•VHM.100	40.55
45°	6.35	3+4	50	6.35	1	90°	•VHM.450	28.70
60°	6.35	5+5	50	6.35	1	120°	•VHM.600	28.70

Chamfer | H7/H1

TCT Chamfer and bevelling cutters
Z=2

Standard chamfer range for use on
portable machines 800 watts and over.

• Large enough for bevel work.



Z=2 **MAX RPM 24,000** **3-5M**

∠	D	I	L	S	INC ∠	Part no	£ Price
10°	24	14	46	6.35	20°	H7.100.B	21.75
10°	24	14	46	8	20°	H7.100.C	21.75
15°	24	14	46	6.35	30°	H7.150.B	21.75
15°	24	14	46	8	30°	H7.150.C	21.75
30°	24	12	44	6.35	60°	H7.300.B	21.75
30°	24	12	44	8	60°	H7.300.C	21.75
45°	24	9	41	6.35	90°	H7.450.B	21.75
45°	24	9	41	8	90°	H7.450.C	21.75
60°	65	15	70	12.7	120°	H7.300.F	79.40
45°	41	17	62	12.7	90°	•H7.450.F	55.65
60°	38	27	70	12.7	60°	•H7.600.F	52.95

H1 range

∠	D	I	L	S	INC ∠	Part no	£ Price
3°	16.5	35	75	12.7	6°	H1.030.F	48.70
10°	25	35	75	12.7	20°	H1.100.F	48.70
15°	32	35	75	12.7	30°	H1.150.F	48.70
20°	38	35	75	12.7	40°	H1.200.F	48.70
22.5°	38	35	75	12.7	45°	H1.225.F	48.70
25°	44	35	75	12.7	50°	H1.250.F	56.50
30°	53	35	75	12.7	60°	H1.300.F	73.60
45°	60	25	75	12.7	90°	H1.450.F	78.75

Heavy duty bevel cutter, double flute.

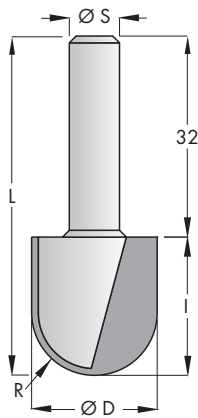
All cutters have bottom cut. All bottom diameters are 12.7mm.

Guttering | H11/33A

TCT Guttering/water
channel cutters

Z=2

For cove mould and weathering. Can be used for full
bottom radius or half radius to leave a cove mould.



Z=2

MAX RPM
24,000

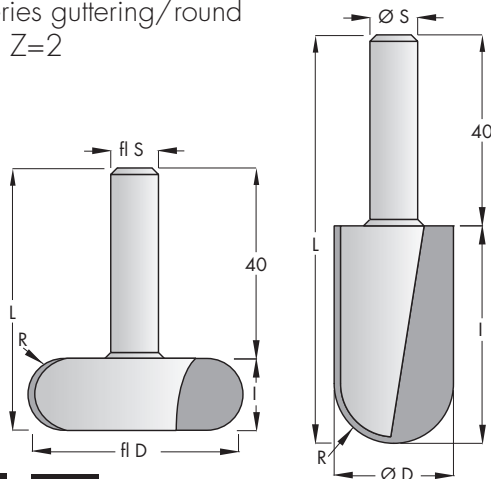
5M

R	D	I	L	S	Part no	£ Price
3	6	12	44	6.35	H11.030.B	18.45
3	6	12	44	8	H11.030.C	18.45
4	8	14	46	6.35	H11.040.B	19.45
4	8	14	46	8	H11.040.C	19.45
5	10	15	47	6.35	H11.050.B	23.00
5	10	15	47	8	H11.050.C	23.00
6	12	16	48	6.35	H11.060.B	21.65
6	12	16	48	8	H11.060.C	21.65
6	12	16	58	12.7	H11.060.F	21.65
7	14	16	48	6.35	H11.070.B	22.05
7	14	16	48	8	H11.070.C	22.05
8	16	16	48	6.35	H11.080.B	22.65
8	16	16	48	8	H11.080.C	22.65
8	16	18	58	12.7	33AA.080.F	43.60
10	20	20	52	6.35	H11.100.B	25.30
10	20	20	52	8	H11.100.C	25.30
10	20	18	58	12.7	33AA.100.F	46.20
12	24	18	58	12.7	33AA.120.F	50.75
15	30	18	58	12.7	33AA.150.F	57.25
20	40	30	70	12.7	33AA.200.F	81.35

Long series guttering | A11

TCT Long series guttering/round
nose cutters Z=2

Long series can
be used for
'finger pull'
section or
cornice work.



A11.28R
Horizontal
guttering cutter
ideal for
fluting table
edges.

MAX RPM
24,000

5M

Z=2

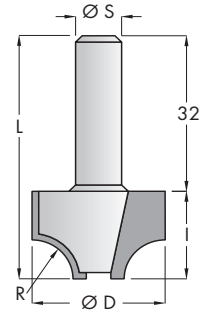
R	D	I	L	S	Part no	£ Price
4.8	9.5	25	65	12.7	A11.14	42.75
6.35	12.7	32	75	12.7	A11.16	46.85
8	16	32	75	12.7	A11.20	51.45
9.5	19	32	75	12.7	A11.22	55.55
11	22	32	75	12.7	A11.24	57.35
12.7	25.4	32	75	12.7	A11.26	61.20
5	30	10	50	12.7	A11.28R	55.55

Ovolo cutter | H13/32AA

TCT Ovolo cutters with
bottom cut

Z=2

• Heavy duty



Z=2

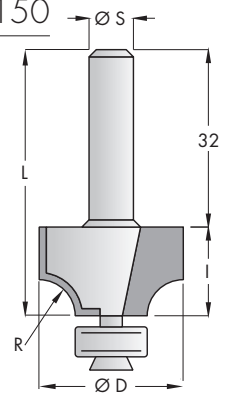
MAX RPM
24,000

5M

R	D	I	L	S	Part no	£ Price
1.5	12	6	40	6.35	H13.015.B	23.80
2	12	7	40	6.35	H13.020.B	23.80
3	12	7	40	6.35	H13.030.B	20.45
3	12	7	40	8	H13.030.C	20.45
4	14	9	41	6.35	H13.040.B	20.45
4	14	9	41	8	H13.040.C	20.45
5	16	11	43	6.35	H13.050.B	21.95
5	16	11	43	8	H13.050.C	21.95
5	16	11	55	12.7	H13.050.F	21.95
6	18	13	45	6.35	H13.060.B	22.40
6	18	13	45	8	H13.060.C	22.40
6	18	13	55	12.7	H13.060.F	22.40
8	22	15	47	6.35	H13.080.B	23.10
8	22	15	47	8	H13.080.C	23.10
8	22	15	55	12.7	H13.080.F	25.55
10	26	17	50	6.35	H13.100.B	25.75
10	26	17	50	8	H13.100.C	25.75
10	26	17	57	12.7	H13.100.F	28.05
12	30	19	60	12.7	H13.120.F	34.65
15	36	22	62	12.7	H13.150.F	37.50
15	42	21	72	12.7	• 32AA.150.F	52.65
20	52	25	75	12.7	• 32AA.200.F	74.90

Rounding over | A31/C150

TCT Rounding over ovolo cutters
with bearing
Imperial radius
Z=2



Z=2

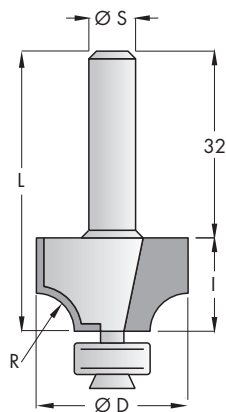
MAX RPM
24,000

5M

R	D	I	L	S	Part no	£ Price
3.2	19	12.7	45	6.35	C150.100	25.55
4.8	22	12.7	45	6.35	A31.00	29.50
6.35	26	12.7	45	6.35	A31.02	33.95
6.35	26	12.7	53	12.7	A31.12	33.95
9.5	32	17	50	6.35	A31.06	37.70
9.5	32	17	60	12.7	A31.16	37.70
12.7	38	20	54	6.35	A31.08	41.35
12.7	38	20	60	12.7	A31.18	41.35
16	45	23	63	12.7	A31.19	44.80
19	51	26	66	12.7	A31.20	48.30
22	57	28	68	12.7	C150.126	79.95
25.4	63	32	73	12.7	C150.128	92.10
Replacement bearing 12.7 x 4.8 (rounding over)					R3ZZ	5.85
Replacement bearing 9.5 x 4.8 (ovolo effect)					BB02	6.75
Replacement screw M3 x 10					IV.008	1.80

Rounding over metric | H28

TCT Rounding over ovolo cutters with bearing
Metric radius
Z=2

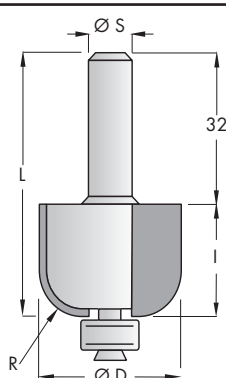


Z=2 **MAX RPM 24,000** **3-5M**

R	D	I	L	S	Part no	£ Price
1.6	16.2	8	40	6.35	H28.016.B	27.50
2	17	8	40	6.35	H28.020.B	25.55
2	17	8	40	8	H28.020.C	25.55
3	19	8	40	6.35	H28.030.B	25.55
3	19	8	40	8	H28.030.C	25.55
3	19	8	48	12.7	H28.030.F	25.55
4	22	10	42	6.35	H28.040.B	28.90
4	22	10	42	8	H28.040.C	28.90
4	22	10	50	12.7	H28.040.F	28.90
5	24	12	44	6.35	H28.050.B	31.05
5	24	12	44	8	H28.050.C	31.05
5	24	12	52	12.7	H28.050.F	31.05
6	26	13	45	6.35	H28.060.B	33.95
6	26	13	45	8	H28.060.C	33.95
6	26	13	53	12.7	H28.060.F	33.95
8	30	15	47	6.35	H28.080.B	37.70
8	30	15	47	8	H28.080.C	37.70
8	30	15	55	12.7	H28.080.F	37.70
10	34	17	49	6.35	H28.100.B	37.70
10	34	17	49	12.7	H28.100.F	37.70
12	38	19	51	12.7	H28.120.F	41.45
Replacement bearing 13mm diameter (rounding over)						624ZZ 5.85
Replacement bearing 10mm diameter (ovolo effect)						MR104ZZ 5.85
Screw M3 x 10						IV.008 1.80

Cove cutter | A30

TCT Cove mould cutters with bearing
Imperial radius
Z=2

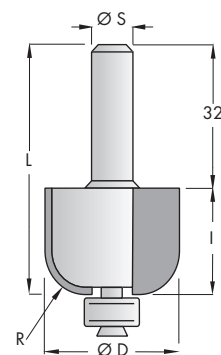


Z=2 **MAX RPM 24,000** **5M**

R	D	I	L	S	Part no	£ Price
4.8	19	12.7	55	6.35	A30.00	30.10
6.35	22	12.7	55	6.35	A30.02	33.95
9.5	28	12.7	55	6.35	A30.04	37.00
12.7	35	16	57	6.35	A30.06	42.20
4.8	19	12.7	55	12.7	A30.08	21.80
6.35	22	12.7	55	12.7	A30.10	31.20
9.5	28	12.7	55	12.7	A30.12	37.00
12.7	35	16	57	12.7	A30.14	42.15
Replacement bearing 9.5 x 4.8						BB02 6.75
Screw M3 x 10						IV.008 1.80

Cove cutter | H33

TCT Cove mould cutters with bearing
Metric radius
Z=2

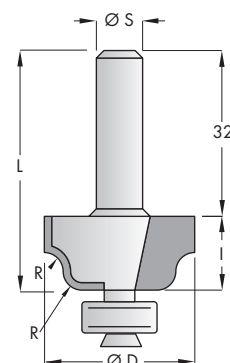


Z=2 **MAX RPM 24,000** **3-5M**

R	D	I	L	S	Part no	£ Price
4	21	18	50	6.35	H33.040.B	28.35
4	21	18	50	8	H33.040.C	28.35
5	23	18	50	6.35	H33.050.B	30.15
5	23	18	50	8	H33.050.C	30.15
6	25	18	50	6.35	H33.060.B	31.20
6	25	18	50	8	H33.060.C	31.20
8	29	18	50	6.35	H33.080.B	37.00
8	29	18	50	8	H33.080.C	37.00
10	33	18	50	6.35	H33.100.B	42.20
10	33	18	50	8	H33.100.C	42.20
12	37	18	68	12.7	33AC.120.F	62.25
15	43	18	68	12.7	33AC.150.F	63.55
Replacement bearing				13 x 4	624ZZ	5.85
Screw M3 x 10					IV.008	1.80

Ogee cutter | A29

TCT Roman ogee cutters with bearing
Z=2



Z=2 **MAX RPM 24,000** **3-5M**

R	D	I	L	S	Part no	£ Price
4	27	12	50	6.35	A29.00	37.90
4	27	12	54	12.7	A29.04	37.90
6.3	35	17	50	6.35	A29.02	41.35
6.3	35	17	54	12.7	A29.06	41.35
Replacement bearing 9.5 x 4.8					BB02	6.75
Screw M3 x 10					IV.008	1.70

Finger pull cutter | H35

TCT finger pull cutter for enclosed or open end undercut drawer pulls
Z=2



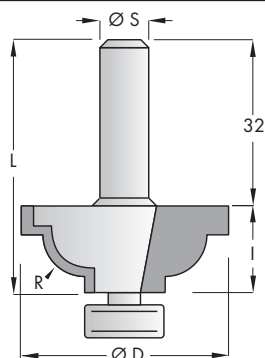
Z=2 **MAX RPM 18,000** **3-5M** **NEW**

D	R1	R2	I	S	Part no	£ Price
19	4	2	13	12.7	H35.040.F	86.00
38	6	6	18	12.7	H35.060.F	92.95
44	8	4	25	12.7	H35.080.F	104.75

Scotia cutter | A55

TCT Scotia cutters
with bearing
Z=2

Z=2 **MAX RPM**
24,000 **3-5M**

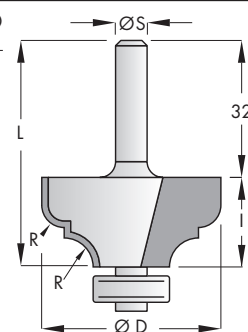


R	D	I	L	S	Part no	£ Price
4.8	29	12.7	50	6.35	A55.00	32.40
4.8	29	12.7	62	12.7	A55.02	32.40
8	35	16	56	6.35	A55.04	42.95
8	35	16	65	12.7	A55.06	42.95
Replacement bearing		12.7 x 4.8		625ZZ	5.85	
Replacement screw		M3 x 10		IV.008	1.80	

Reverse radius | H39

TCT Reverse radius
cutters with bearing
Z=2

Z=2 **MAX RPM**
24,000 **3-5M**

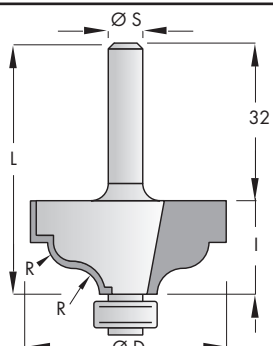


R	D	I	L	S	Part no	£ Price
4	29	15	47	6.35	H39.040.B	38.40
4	29	15	47	8	H39.040.C	38.40
6	37	18	50	6.35	H39.060.B	40.85
6	37	18	60	12.7	H39.060.F	40.85
Replacement bearing		13 x 4		624ZZ	5.85	
Replacement screw		M3 x 10		IV.008	1.80	

Ogee cutter | H37

TCT Ogee cutters
with bearing
Z=2

Z=2 **MAX RPM**
24,000 **3M**

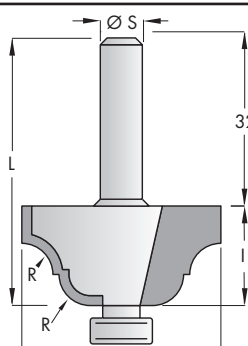


R	D	I	L	S	Part no	£ Price
4	29	13	45	6.35	H37.040.B	38.40
4	29	13	45	8	H37.040.C	38.40
6	37	18	50	6.35	H37.060.B	42.25
6	37	18	50	8	H37.060.C	42.25
6	37	18	60	12.7	H37.060.F	42.25
Replacement bearing		13 x 4		624ZZ	5.85	
Replacement screw		M3 x 10		IV.008	1.80	

Classic cutter | H30

TCT Classic cutters
with bearing
Z=2

Z=2 **MAX RPM**
24,000 **3-5M**

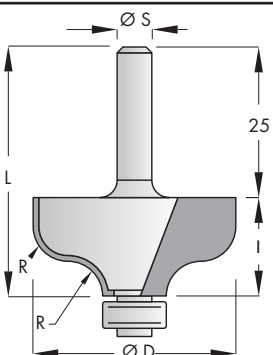


R	D	I	L	S	Part no	£ Price
4	29	13	45	6.35	H30.040.B	38.40
4	29	13	45	8	H30.040.C	38.40
6.3	38	18	50	6.35	H30.063.B	42.95
6.3	38	18	50	8	H30.063.C	42.95
6.3	38	18	58	12.7	H30.063.F	42.95
Replacement bearing		10 x 4		MR104ZZ	5.85	
Replacement screw		M3 x 10		IV.008	1.80	

Flat ogee | H38

TCT Flat ogee cutters
with bearing
Z=2

Z=2 **MAX RPM**
24,000 **3-5M**

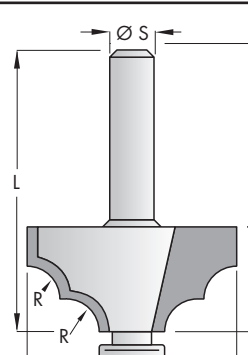


R	D	I	L	S	Part no	£ Price
4	29	13	45	6.35	H38.040.B	38.40
4	29	13	45	8	H38.040.C	38.40
6	37	16	48	6.35	H38.060.B	42.95
6	37	16	48	8	H38.060.C	42.95
6	37	16	56	12.7	H38.060.F	42.95
Replacement bearing		13 x 4		624ZZ	5.85	
Replacement screw		M3 x 10		IV.008	1.80	

Double ovolò | C176

TCT Double ovolò
bead cutters
Z=2

Z=2 **MAX RPM**
24,000 **3-5M**

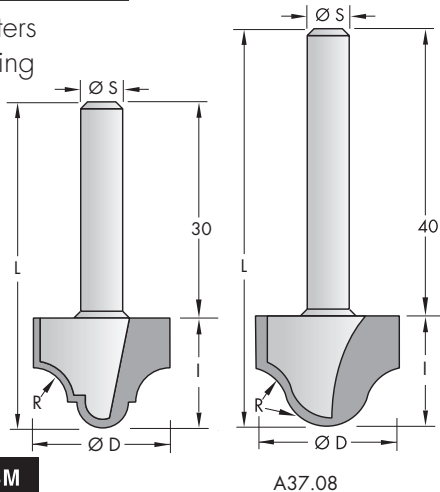


R	D	I	L	S	Part no	£ Price
4	29	12.7	45	6.35	C176.100	36.55
4	29	12.7	53	12.7	C176.102	36.55
6.35	38	17.5	50	6.35	C176.104	42.95
6.35	38	17.5	58	12.7	C176.106	42.95
Replacement bearing		12.7 x 4.8		R3ZZ	5.85	
Replacement screw		M3 x 10		IV.008	1.80	

Classic panel | A37

TCT Classical cutters
with bottom profiling
Z=2

- Soft form classic cutter.



Z=2

MAX RPM
24,000

3M

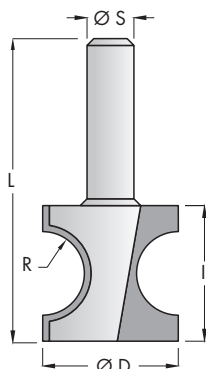
R	D	I	L	S	Part no	£ Price
2	12.7	9.5	40	6.35	A37.00	32.45
3.5	19	12.7	50	6.35	A37.02	34.55
3.5	19	12.7	50	12.7	A37.04	34.55
6.35	25.4	16	54	12.7	A37.06	37.10
6+6	20	16	54	12.7	• A37.08	42.45

Staff bead | H18/32AD

TCT Staff bead cutters
Z=2

For side profiling only, no bottom cut.

- Heavy duty.



Z=2

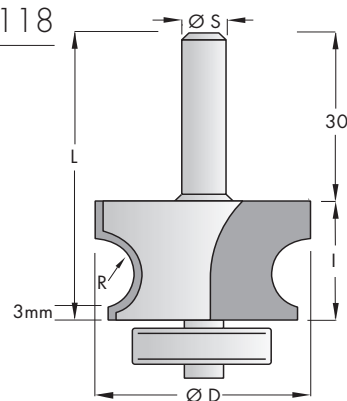
MAX RPM
24,000

3-5M

R	D	I	L	S	Part no	£ Price
3	19	12	44	6.35	H18.030.B	28.90
3	19	12	44	8	H18.030.C	28.90
4	22	16	48	6.35	H18.040.B	31.05
4	22	16	48	8	H18.040.C	31.05
4	22	16	56	12.7	H18.040.F	31.05
5	25	19	52	6.35	H18.050.B	34.10
5	25	19	52	8	H18.050.C	34.10
5	25	19	52	12.7	H18.050.F	34.10
6	28	22	54	6.35	H18.060.B	36.15
6	28	22	54	8	H18.060.C	36.15
6	28	22	62	12.7	H18.060.F	36.15
8	31	25	57	6.35	H18.080.B	40.45
8	31	25	57	8	H18.080.C	40.45
8	31	25	65	12.7	H18.080.F	40.45
10	35	30	62	8	H18.100.C	50.75
10	35	30	70	12.7	H18.100.F	50.75
11	38	30	70	12.7	• 32AD.110.F	72.45
12	40	45	95	12.7	• 32AD.120.F	81.35
12.7	40	45	95	12.7	• 32AD.127.F	90.95
14	42	45	95	12.7	• 32AD.140.F	91.05
15	45	50	100	12.7	• 32AD.150.F	98.45

Corner bead | H118

TCT Corner beading
cutters
Z=2



Z=2

MAX RPM
24,000

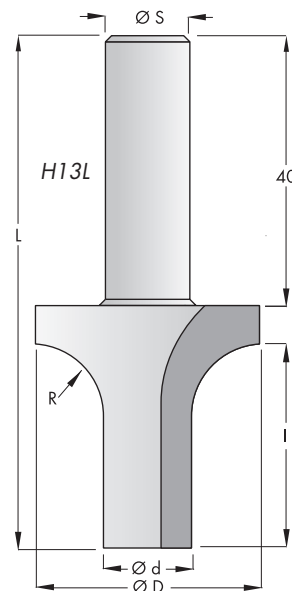
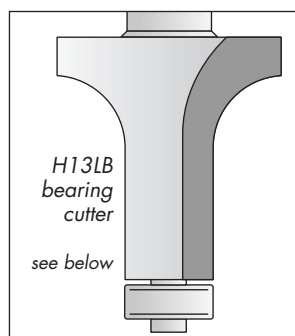
3M

R	D	I	L	S	Part no	£ Price
2	17	12	45	6.35	H118.020.B	41.10
3.5	20	12	45	6.35	H118.035.B	43.25
6.35	25	18	48	6.35	H118.063.B	44.65
6.35	25	18	58	12.7	H118.063.F	44.65
Replacement bearing 13 x 4					624ZZ	5.85
Screw M3 x 16					IV.008	1.80

Rounding over long | H13L/H13LB

TCT Long cut
rounding over
Z=2

Ovolo cutters with profiling facility.
Special carbides allow for long life
on MDF.



Z=2

MAX RPM
24,000

3-5M

R	D	d	I	L	S	Part no	£ Price
3	20	13	25	75	12.7	H13L.030.F	55.65
5	23	13	25	75	12.7	H13L.050.F	55.65
6.35	26	13	30	80	12.7	H13L.063.F	60.25
10	33	13	30	80	12.7	H13L.100.F	63.20
12	38	13	30	80	12.7	H13L.120.F	67.20
12.7	40	13	30	80	12.7	H13L.127.F	67.20

TCT Long cut rounding over with bearing H13LB
Z=2

Ovolo cutters with profiling guide bearing, ideal for profiling long sections
with a portable machine. Special carbides allow for long life on MDF.

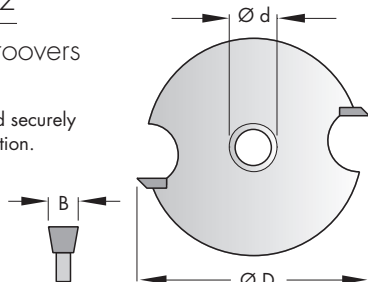
R	D	d	I	L	S	Part no	£ Price
3	20	13	25	75	12.7	H13LB.030.F	60.25
5	23	13	25	75	12.7	H13LB.050.F	60.25
6.35	26	13	30	80	12.7	H13LB.063.F	64.30
10	33	13	25	75	12.7	H13LB.100.F	69.10
12	38	13	30	80	12.7	H13LB.120.F	71.80

Two wing | H22

TCT Two wing mini groovers
Z=2

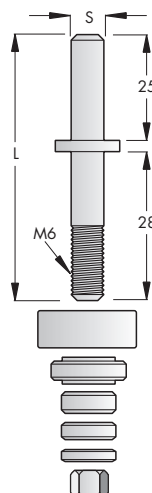
Please ensure the groover is fitted securely and is running in the correct rotation.

Z=2 **MAX RPM 24,000** **3-5M**



B	D	d	Part no	£ Price
1.5	40	6	H22.015.A	19.75
1.8	40	6	H22.018.A	19.75
2.0	40	6	H22.020.A	19.75
2.2	40	6	H22.022.A	19.75
2.5	40	6	H22.025.A	19.75
2.8	40	6	H22.028.A	19.75
3.0	40	6	H22.030.A	19.75
3.2	40	6	H22.032.A	19.75
3.5	40	6	H22.035.A	19.75
4.0	40	6	H22.040.A	20.35
5.0	40	6	H22.050.A	22.65
6.0	40	6	H22.060.A	22.65
10.0	40	6	H22.100.A	25.40

H19



Arbor to suit H22 range of groovers

L	S	Part no	£ Price
62	6.35	H19.060.B	11.35
62	8	H19.060.C	11.35
70	12.7	H19.060.F	13.40
Replacement bearing 19 x 6			626ZZ 7.35

Bearing order chart

For HD groovers only

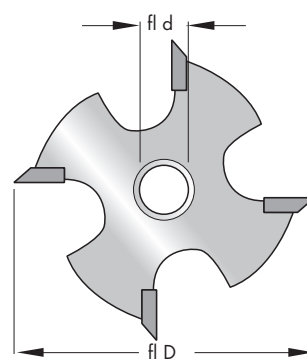
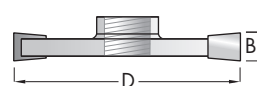
D	d	Rebate/Groove Depth	Part no	£ Price
28	12	11	HDB280	11.05
30	12	10	HDB300	11.35
32	12	9	HDB320	11.35
37	12	7	HDB360	16.25
42	12	4	HDB420	17.10

4 Wing Undercut | HD22

TCT 4 wing undercut groovers

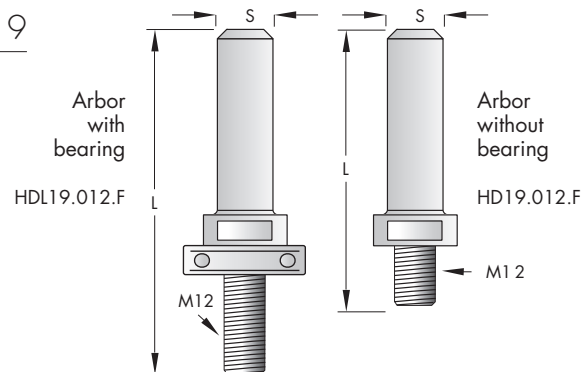
A range of TCT Heavy Duty 4 wing groovers that are ideal for producing light rebates, grooves for fire strip or draught excluders.

M12 Internal thread



B	D	Z	d	Part no	£ Price
2	50	4	M12	HD22.020	60.25
2.2	50	4	M12	HD22.022	60.25
2.5	50	4	M12	HD22.025	60.25
2.8	50	4	M12	HD22.028	60.25
3	50	4	M12	HD22.030	62.05
3.5	50	4	M12	HD22.035	62.05
4	50	4	M12	HD22.040	67.20
5	50	4	M12	HD22.050	67.20
6	50	4	M12	HD22.060	67.20
8	50	4	M12	HD22.080	67.20
10	50	4	M12	HD22.100	72.45
10.5	50	4	M12	HD22.105	72.45
15	50	4	M12	HD22.150	75.30
20	50	4	M12	HD22.200	86.85

HD19



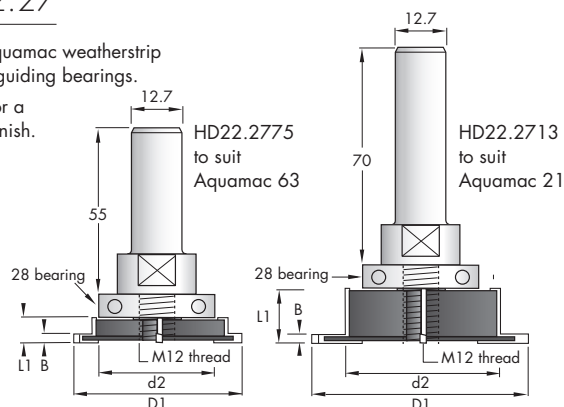
Arbor to suit HD range of groovers

L	S	Part no	£ Price
70	12.7	HD19.012.F	19.20
75	12.7	HDL19.012.F	20.10

4 wing weather strip cutters | HD22.27

To suit Aquamac weatherstrip with self guiding bearings.

4 wing for a cleaner finish.



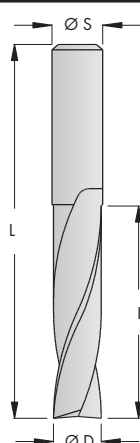
B	D1	d2	L1	Z	d	Part no	£ Price
2.7-13	54	34	13	4	M12	HD22.2713	86.85
2.7-7.5	46	34	7.5	4	M12	HD22.2775	86.85

Spiral Tooling

Upcut spiral | 9E

Solid carbide finishing upcut spiral cutters
Z=2

A fast cutting range of solid carbide spiral cutters, designed to give fast chip removal. Ideal for MDF, softwoods, solid surface materials and chipboards. Ensure workpiece is securely fixed as the spiral action can lift unsecured components.



D	I	L	S	Part no	£ Price
3	12	50	3	9E.030	18.80
3	12	50	6.35	9E.030.B	23.80
3.2	12	50	6.35	9E.032.B	23.80
4	12	50	4	9E.040	23.80
4	12	50	6.35	9E.040.B	23.80
5	14	50	6.35	9E.514.B	23.80
5	17	50	5	9E.050	23.80
5	17	50	6.35	9E.050.B	23.80
6	20	60	6	9E.060	31.90
6	27	60	6	9E.060.A	33.35
6	20	60	6.35	9E.060.B	31.90
6.35	20	60	6.35	9E.063	31.90
6.35	27	60	6.35	9E.063.A	33.35
7	22	80	8	9E.070	48.70
8	22	80	8	9E.080	41.70
8	32	80	8	9E.080.A	45.25
8	42	100	8	9E.080.B	65.50
9	32	80	9	9E.090	55.65
9.5	32	80	9.5	9E.095	55.65
10	32	80	10	9E.100	58.25
10	42	100	10	9E.100.A	65.45
12	32	80	12	9E.120	89.05
12	42	100	12	9E.120.A	100.10
12	52	100	12	9E.120.B	110.00
12.7	32	80	12.7	9E.127	80.50
12.7	42	100	12.7	9E.127.A	90.00
12.7	52	100	12.7	9E.127.B	95.00
12.7	65	120	12.7	9E.127.C	110.00
12.7	82	150	12.7	9E.127.D	202.65
14	42	100	14	9E.140	118.15
14	52	100	14	9E.140.A	132.85
16	42	100	16	9E.160	150.55
16	52	100	16	9E.160.A	156.35
16	72	120	16	9E.160.B	191.10
18	52	100	18	9E.180	185.85
18	72	120	18	9E.180.A	217.70
18	102	150	18	9E.180.B	274.55
20	52	100	20	9E.200	224.95
20	72	120	20	9E.200.A	271.25
20	102	150	20	9E.200.B	306.50

Upcut spiral single flute Z=1 9D

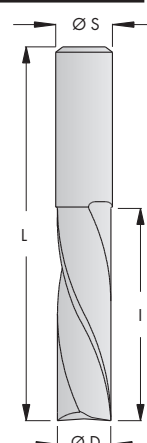
D	I	L	S	Part no	£ Price
1.5	8	50	6.35	9D.015.B	23.80
2	8	50	3	9D.020	23.80
2	8	50	6.35	9D.020.B	23.80
2.5	10	50	3	9D.025	23.80
3	12	50	3	9D.030	18.80
4	12	50	4	9D.040	23.80
5	17	50	5	9D.050	23.80
6	17	60	6	9D.060	31.90
6.3	17	60	6.35	9D.063	31.90
8	22	80	8	9D.080	41.70

Downcut spiral | 9H

Solid carbide finishing downcut spiral router cutters
Z=2

For use on veneered work when a good top finish is required. The downcut action helps prevent component movement.

- Small diameter nesting tool.



D	I	L	S	Part no	£ Price
3	12	50	3	9H.030	18.80
3	12	50	6.35	9H.030.B	23.80
3.2	12	50	6.35	9H.032.B	23.80
4	12	50	4	9H.040	23.80
4	12	50	6.35	9H.040.B	23.80
5	14	50	6.35	9H.514.B	23.80
5	17	50	5	9H.050	23.80
5	17	50	6.35	9H.050.B	23.80
6	20	60	6	9H.060	31.90
6	20	60	6.35	9H.060.B	31.90
6	27	60	6	9H.060.A	33.35
6.35	20	60	6.35	9H.063.B	31.90
6.35	27	60	6.35	9H.063.A	33.35
7	22	80	8	9H.070	48.70
8	22	80	8	9H.080	41.70
8	32	80	8	9H.080.A	45.25
8	42	100	8	9H.080.B	65.50
9	32	80	9	9H.090	55.65
9.5	22	80	9.5	•9H.095.N	48.70
9.5	32	80	9.5	9H.095	55.65
10	32	80	10	9H.100	58.25
10	42	100	10	9H.100.A	65.45
12	32	80	12	9H.120	89.05
12	42	100	12	9H.120.A	100.10
12	52	100	12	9H.120.B	110.00
12.7	32	80	12.7	9H.127	80.50
12.7	42	100	12.7	9H.127.A	90.00
12.7	52	100	12.7	9H.127.B	95.00
12.7	65	120	12.7	9H.127.C	110.00
14	42	100	14	9H.140	118.15
14	52	100	14	9H.140.A	132.85
16	42	100	16	9H.160	150.55
16	55	110	16	9H.160.A	156.35
16	72	120	16	9H.160.B	191.10
18	55	110	18	9H.180	185.85
18	72	120	18	9H.180.A	217.70
18	102	150	18	9H.180.B	274.55
20	52	110	20	9H.200	224.95
20	72	120	20	9H.200.A	271.25
20	102	165	20	9H.200.B	306.50

Downcut spiral single flute Z=1 9G

D	I	L	S	Part no	£ Price
2	8	40	3	9G.020	23.80
3	12	50	3	9G.030	18.80
4	12	50	4	9G.040	23.80
5	17	50	5	9G.050	23.80
6	17	60	6	9G.060	31.90
6.3	17	60	6.35	9G.063	31.90
8	22	80	8	9G.080	41.70

Upcut spiral | 9F

Solid carbide finishing upcut spiral router cutters

Z=3

Gives upcut spiral action but with a smoother finish. These cutters are designed for veneered MDF, brittle hardwoods and heavy insulation plastics. Ideal for a smooth finish on hard and softwood furniture parts. i.e. cabinet pediments and scrolls.

- Ideal for door trimming, leaving a clean finish on plastic framed doors.



D	I	L	S	Part no	£ Price
8	22	80	8	9F.080	46.20
8	32	80	8	9F.080.A	50.10
10	32	80	10	9F.100	64.20
10	42	100	10	9F.100.A	72.00
12	32	80	12	9F.120	98.15
12	42	100	12	9F.120.A	109.90
12	52	100	12	9F.120.B	116.15
12.7	35	80	12.7	9F.127	98.60
12.7	42	100	12.7	9F.127.A	109.90
12.7	42	100	12.7 L/H	9F.127.AL	118.75
12.7	52	100	12.7	9F.127.B	116.15
12.7	52	100	12.7 L/H	9F.127.BL	133.05
12.7	65	120	12.7	9F.127.C	148.25
14	42	100	14	9F.140	129.85
14	52	100	14	9F.140.A	145.95
16	42	100	16	9F.160	164.85
16	52	100	16	• 9F.160.A	171.40
16	60	120	16	• 9F.160.C	191.10
16	72	120	16	• 9F.160.B	196.25
16	90	140	16	9F.160.D	236.40
18	55	110	18	9F.180	219.45
18	72	120	18	9F.180.A	263.55
18	102	150	18	9F.180.B	330.75
20	52	100	20	9F.200	237.05
20	72	120	20	9F.200.A	294.40
20	102	150	20	9F.200.B	344.00
25	102	150	25	9F.250	416.75

Ball nose standard | 9B

Z=2 upcut

D	I	L	S	Part no	£ Price
3	12	40	3	9B.030	32.80
4	12	50	4	9B.040	32.80
5	18	50	5	9B.050	41.10
6	18	60	6	9B.060	46.80
8	20	80	8	9B.080	49.00
10	20	80	10	9B.100	84.20
12	25	80	12	9B.120	98.85
16	32	90	16	9B.160	171.15
20	55	110	20	9B.200	224.95



Downcut spiral | 9I

Solid carbide downcut spiral router cutters

Z=3

These spiral cutters will produce a chip free finish on all veneered boards, ideal for cleaning 'end grain' on curved work.

The downcut action requires good extraction to avoid waste 'pile up'.

- Ideal for door trimming, leaving a clean finish on plastic framed doors.



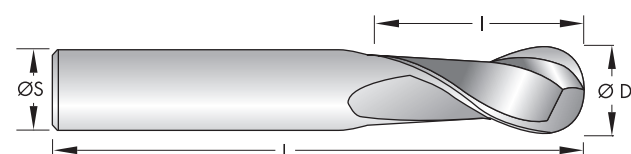
D	I	L	S	Part no	£ Price
8	22	80	8	9I.080	46.20
8	32	80	8	9I.080.A	50.10
10	32	80	10	9I.100	64.20
10	42	100	10	9I.100.A	72.00
12	32	80	12	9I.120	98.15
12	42	100	12	9I.120.A	109.90
12	52	100	12	9I.120.B	116.15
12	35	80	12 L/H	9I.120.LH	98.15
12.7	35	80	12.7	9I.127	98.60
12.7	42	100	12.7	9I.127.A	109.90
12.7	42	100	12.7 L/H	9I.127.AL	118.45
12.7	52	110	12.7	9I.127.B	116.15
12.7	52	110	12.7 L/H	9I.127.BL	129.85
12.7	65	120	12.7	9I.127.C	148.25
14	42	100	14	9I.140	129.85
14	52	100	14	9I.140.A	145.95
16	42	100	16	9I.160	164.85
16	55	110	16	9I.160.A	171.40
16	60	120	16	• 9I.160.C	191.10
16	72	135	16	9I.160.B	196.90
18	55	110	18	9I.180	219.45
18	72	135	18	9I.180.A	263.50
18	102	150	18	9I.180.B	330.75
20	55	110	20	9I.200	237.05
20	72	130	20	9I.200.A	294.40
20	102	165	20	9I.200.B	344.00
25	102	165	20	9I.250	416.75

Ball nose long series | 9BB

Z=2 upcut

For contour work when jig making using a 5 axis machine.

D	I	L	S	Part no	£ Price
6	27	80	6	9BB.060	61.20
8	32	100	8	9BB.080	70.15
10	42	100	10	9BB.100	93.55
12	52	110	12	9BB.120	133.15
16	70	140	16	9BB.160	199.25
20	72	140	20	9BB.200	277.85



Fast feed spiral | 9N

Solid carbide roughing finish upcut spiral router cutters

Upchip
Z=3

Super fast feed rates can be obtained from these specially designed 'roughing' cutters. These tools produce such small chips that the waste is removed quickly allowing a maximum performance on MDF, plastics and solid surface timber.

• Ideal for door production.



D	I	L	S	Part no	£ Price
8	22	80	8	9N.080	57.65
8	32	80	8	9N.080.A	62.55
9	32	80	9	9N.090	83.40
10	32	80	10	9N.100	80.20
10	42	100	10	9N.100.A	94.25
12	32	80	12	9N.120	122.75
12	42	100	12	9N.120.A	137.45
12	52	100	12	9N.120.B	144.90
12.7	32	80	12.7	9N.127	118.75
12.7	42	100	12.7	9N.127.A	137.45
12.7	52	100	12.7	9N.127.B	144.90
12.7	65	120	12.7	9N.127.C	167.90
14	42	100	14	9N.140	162.55
14	52	100	14	9N.140.A	182.40
14	60	120	14	9N.140.C	212.00
14	80	140	14	9N.140.D	248.95
16	42	100	16	9N.160	212.00
16	52	100	16	9N.160.A	213.80
16	60	120	16	• 9N.160.C	224.95
16	72	120	16	9N.160.B	242.55
16	90	140	16	9N.1690	278.95
16	100	150	16	9N.16100	306.50
18	52	100	18	9N.180	254.70
18	72	120	18	9N.180.A	306.50
18	102	150	18	9N.180.B	376.00
20	52	100	20	9N.200	279.00
20	72	120	20	9N.200.A	336.30
20	80	135	20	9N.200.AA	364.95
20	102	150	20	9N.200.B	387.00
25	102	150	25	9N.250	491.75
NEW 25	135	225	25	9N.25135	POA

Fast feed spiral | 9L

Solid carbide roughing finish downcut spiral router cutters

Z=3

Gives improved finish on veneered work where high production rates are required.



D	I	L	S	Part no	£ Price
8	22	80	8	9L.080	57.65
8	32	80	8	9L.080.A	62.55
9	32	80	9	9L.090	83.40
10	32	80	10	9L.100	80.20
10	42	100	10	9L.100.A	94.25
12	32	80	12	9L.120	122.75
12	42	100	12	9L.120.A	137.45
12	52	100	12	9L.120.B	144.90
12.7	32	80	12.7	9L.127	118.75
12.7	42	100	12.7	9L.127.A	137.45
12.7	52	100	12.7	9L.127.B	144.90
14	42	100	14	9L.140	162.55
14	52	100	14	9L.140.A	182.40
16	42	100	16	9L.160	212.00
16	52	100	16	9L.160.A	213.80
16	60	120	16	9L.160.C	224.95
16	72	130	16	9L.160.B	242.55
16	100	160	16	9L.16100	306.50
18	52	100	18	9L.180	242.55
18	72	120	18	9L.180.A	306.50
18	102	150	18	9L.180.B	341.00
20	52	110	20	9L.200	271.25
20	72	120	20	9L.200.A	336.30
20	102	150	20	9L.200.B	385.90
25	102	150	25	9L.250	491.75

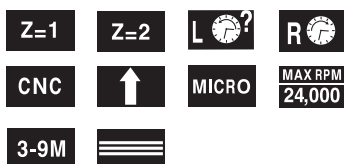
uPVC and aluminium cutters

19D TC and 18D HSS cutters

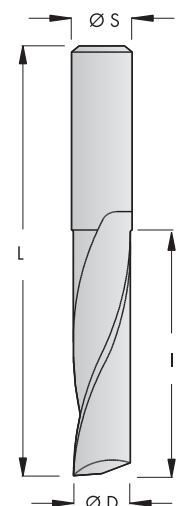
Solid carbide and HSSe cutters for aluminium and uPVC

HSSe cutters for all normal window production. TC tools will give longer life.

• For cleaner finish consider 18E.060 and 18E.080



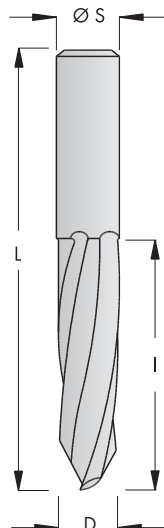
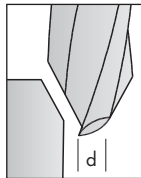
D	I	H	L	S	Z	HSSE Part no	£ Price	TC Part no	£ Price
3	12	-	60	3	1	-	-	19D.030	19.00
3	12	-	60	8	1	18D.030	17.15	-	-
4	12	-	60	4	1	-	-	19D.040	19.80
4	12	-	60	8	1	18D.040	18.15	-	-
5	12	-	60	8	1	18D.050.A	23.55	19D.050.A	36.85
5	35	-	80	8	1	18D.050.C	38.50	19D.050.C	38.50
5	16	45	90	8	1	18D.050.B	34.00	19D.050.B	44.95
6	20	-	60	6	1	-	-	19D.060	30.40
6	20	-	70	8	1	18D.060A	22.55	19D.060.A	33.50
6	30	-	80	8	2	• 18E.060	30.05	-	-
8	14	-	80	8	1	18D.080	22.55	19D.080	36.85
8	35	-	100	8	1	18D.080.A	48.00	19D.080.A	59.50
8	14	68	100	8	1	18D.080.B	43.10	19D.080.B	79.50
8	14	-	120	8	1	18D.080.C	35.85	-	-
8	30	-	80	8	2	• 18E.080	34.65	-	-
10	25	-	75	10	1	18D.100	34.10	19D.100	58.30
10	25	75	100	10	1	18D.100.A	49.65	19D.100.A	74.80
12	35	75	100	12	1	-	-	19D.120.A	113.50



60° Chamfer spiral upcut | 9FV

Solid carbide V chamfer finishing router cutter
Z=3

For use on routing heads where continuous plunging work is required with a good finish.
Prevents breakout on double skinned components.
Ideal for door production.
60° V Point gives smooth plunging action.
Can be used for chamfer work.



Z=3	CNC	↑	MICRO
MAX RPM 24,000	5-10M	~~~~~	R

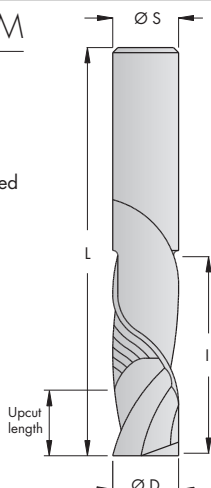
D	I	L	S	d	Part no	£ Price
12	65	115	12	6	9FV.120.B	141.05
14	65	115	14	7	9FV.140.A	196.25
16	72	140	16	8	9FV.160.B	259.10

Compression spiral | 9M

Solid carbide upcut/downcut compression spiral router cutters
Z=2+2

A clean finish is possible 'top and bottom' on veneered and melamine panels.

- High performance.



Z=2+2	↑↓	====	MICRO
MAX RPM 24,000	5-18M	R	CNC

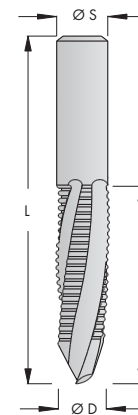
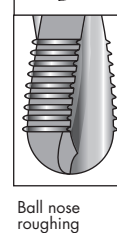
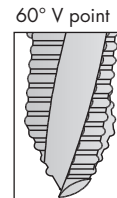
D	I	L	S	Max upcut length	Part no	£ Price
6	17	60	6 (Z=1+1)	6	9M.060.S	59.30
6	22	70	6 (Z=1+1)	6	9M.060	62.30
6.35	22	70	6.35 (Z=1+1)	6	9M.063	62.30
8	22	70	8	7	9M.080	68.75
9.5	27	80	9.5	7	9M.095	90.95
10	32	80	10	7	9M.100	101.35
12	25	80	12	6	9M.120.S	101.35
12	42	100	12	8	9M.120	128.45
12.7	25	80	12.7	6	• 9M.127.S	101.35
12.7	42	100	12.7	8	9M.127	114.35
12.7	55	110	12.7	10	• 9M.127A	126.55
16	42	100	16	10	9M.160	224.95
16	55	115	16	10	9M.160.A	228.25
16	60	125	16	10	•• 9M.160.B	252.50
16	70	125	16	10	•• 9M.160.C	272.35
18	55	110	18	12	9M.180	280.05
20	52	125	20	14	9M.200	337.40
20	72	140	20	14	9M.200A	399.15

- Ideal cutting for single sheet nesting work.
- Ideal for machining doors.
- Ideal for machining heavy duty doors.

60° Chamfer & ball nose upcut spiral | 9NV/9NB

Solid carbide V chamfer roughing spiral
Z=3

Ideal for double skin composite doors, for cutting apertures in GRP faced doors.
60° V Point gives smooth plunging action.
Ball nose form gives smoother and quieter entry into GRP skin doors.



Z=3	CNC	↑	MICRO
MAX RPM 24,000	5-10M	~~~~~	R

D	I	L	S	Part no	£ Price
12	65	115	12	9NV.120.B	185.00
14	65	115	14	9NV.140.A	200.00
14	85	150	14	9NV.140.B	262.00
16	80	140	16	9NV.160.B	294.00
20	90	150	20	9NV.200	376.00

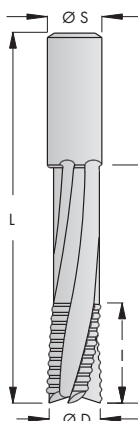
Ball nose roughing | upcut

D	I	L	S	Part no	£ Price
12	65	115	12	9NB.120	185.25
14	65	115	14	9NB.140	200.70
16	80	140	16	9NB.160	294.40
20	90	150	20	9NB.200	376.00

Long reach lock case | 9P

Solid carbide long reach roughing spiral router cutters
Mortise lock cutter
Z=3

Long reach solid carbide for machining apertures, for locks and other furniture hardware.
Ensure collets and chucks are in good condition, when using these cutters as the extra long length could cause vibration on worn collets.



Z=3	CNC	↑	MICRO
MAX RPM 24,000	5-10M	~~~~~	R

D	I	L	S	A	Part no	£ Price
14	20	155	14	95	9P.140	307.00
16	25	175	16	115	9P.160	295.00
16	55	150	16	105	9P.160.S	214.20
18	25	175	16	115	9P.180	402.45

High feed rate compression spiral | 9MH

Solid carbide upcut/downcut compression spiral router cutter
Z=2+2

Special design allows for high speed machining and nesting at up to 30 metres per minute without loss of finish.

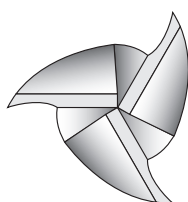
Z=2+2	↑↓	====	MICRO
MAX RPM 24,000	15-30M	R	CNC

D	I	L	S	Part no	£ Price
12	25	80	12	9MH.120.S	POA
12.7	25	80	12.7	9MH.127.S	POA



Compression spiral | 9R

Solid carbide upcut/downcut
compression spiral router cutters
Three flute Z=3+3



Z=3+3   **MICRO**

MAX RPM
24,000 **5-24M**  **CNC**

Superfine finish with
increased feed rates.
• High Performance.

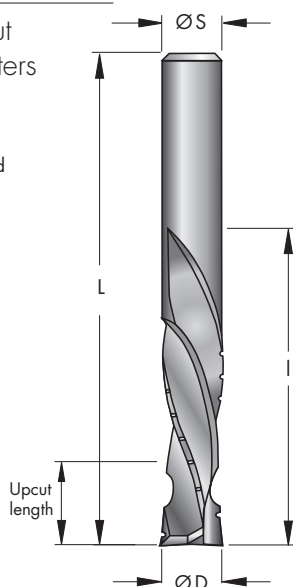
D	I	L	S	Max upcut length	Part no	£ Price
12.7	42	100	12.7	7	9R.127	158.25
12.7	52	110	12.7	7	9R.127.A	169.05
16	42	100	16	7	9R.160	241.50
16	52	110	16	7	9R.160.A	249.20
20	52	100	20	10	9R.200	365.00

Compression slotted chipbreaker spiral | 9MC

Solid carbide upcut/downcut
compression spiral router cutters
Z=2+2

For plywood, OSB and raw chipboard.

Slotted chipbreakers reduce waste size and
help prevent clogging at the point of cut.



Z=2+2  

MICRO **MAX RPM**
24,000 **5-24M**

  **CNC**

D	I	L	S	Max upcut length	Part no	£ Price
8	22	70	8	6	9MC.080	72.00
9.5	32	80	9.5	7	9MC.095	100.05
10	32	80	10	7	9MC.100	111.55
12	25	80	12	8	9MC.120	111.55
12	42	100	12	8	9MC.120.A	134.55
12.7	25	80	12.7	8	9MC.127.S	111.55
12.7	42	100	12.7	8	9MC.127	125.90
12.7	55	110	12.7	8	9MC.127.A	139.20
16	42	100	16	10	9MC.160	224.70
16	55	115	16	10	9MC.160.A	251.40

Coated Spirals

Any size of spiral tool can be
coated in a diamond vapour
which gives greater wear
resistance when cutting very
abrasive materials.
Add 20% to catalogue price.

9R series



9MC series



High Performance Super Spiral Tooling

NEW CONCEPT

Compression super spiral | 9MP

Solid carbide

Z=2+2

For machining and nesting work on the new generation of lightweight board and OSB materials.

To give clean finish on boards with narrow width honeycomb support and down to 3mm thick surface layers.



D	I	L	S	Z	Max upcut length	Part No	£ Price
9.5	32	80	9.5	2+2	7	9MP.095	148.85
10	32	80	10	2+2	7	9MP.100	148.85
12	42	100	12	2+2	8	9MP.120	185.25
12.7	25	80	12.7	2+2	6	9MP.127.S	153.05
12.7	35	90	12.7	2+2	8	9MP.127.SN	188.20
12.7	42	100	12.7	2+2	10	9MP.127	194.55
12.7	55	110	12.7	2+2	10	9MP.127.A	213.90
12.7	65	120	12.7	2+2	10	9MP.127.B	218.30
16	42	100	16	2+2	10	9MP.160	252.50
16	55	110	16	2+2	10	9MP.160.A	283.40
16	65	125	16	2+2	10	9MP.160.B	295.40

NEW CONCEPT

Semi roughing super spiral | SRS

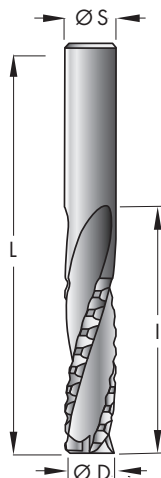
Solid carbide

Z=3

Designed to give a finishing cut with roughing spiral high feed rates. Ideal for honeycomb, lightweight and natural infill board materials.

With a reduced cut resistance these tools make thicker board sections much easier to machine and give a top end finish at high production rates.

The 9MRS range are ideal for plywood – prevents stranding and stringy waste.



Semi roughing upcut

D	I	L	S	Z	Part No	£ Price
9.5	32	80	9.5	3	SRS.950	97.85
10	32	80	10	3	SRS.100	105.15
12	35	80	12	3	SRS.120	131.95
12	42	100	12	3	SRS.120.A	173.65
12.7	35	80	12.7	3	SRS.127.S	131.95
12.7	42	100	12.7	3	SRS.127	173.70
12.7	55	100	12.7	3	SRS.127.A	191.60
16	55	110	16	3	SRS.160.A	260.20
16	72	120	16	3	SRS.160.B	318.65
20	55	110	20	3	SRS.200	377.00
20	72	130	20	3	SRS.200.A	491.00

Slotted chipbreaker design compression spiral Z=2+2

NEW CONCEPT

Compression super spiral | 9RP

Solid carbide

For an even finer finish

Z=3+3

For machining and nesting work on the new generation of lightweight board and OSB materials.

To give clean finish on boards with narrow width honeycomb support and down to 3mm thick surface layers.



D	I	L	S	Z	Max upcut length	Part No	£ Price
12.7	25	80	12.7	3+3	7	9RP.127.S	169.70
12.7	42	100	12.7	3+3	7	9RP.127	206.10
12.7	55	110	12.7	3+3	7	9RP.127.A	219.45
12.7	65	120	12.7	3+3	7	9RP.127.B	212.60
16	42	100	16	3+3	7	9RP.160	226.00
16	55	110	16	3+3	7	9RP.160.A	297.50
16	65	120	16	3+3	7	9RP.160.B	344.00
16	85	140	16	3+3	7	• 9RP.160.C	358.30
20	110	160	20	3+3	10	•• 9RP.200.B	424.50

• For machining 80mm thickness.

•• For machining 80–100mm thick LWB.

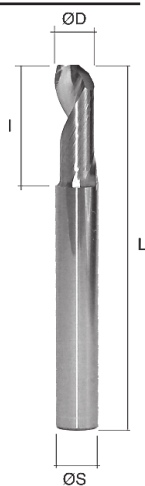
Super spiral compressions



Upcut super spiral | 300A

Solid carbide upcut spiral
mirror finish
Z=1

Ideal for aluminium and plastics to give a superior finish.
High relief, ideal for low melt plastics.



D	I	L	S	Part No	£ Price
1	4	40	3	300A.010	35.30
1.5	6	40	3	300A.015	35.30
2	10	40	2	300A.020	24.50
2	8	40	3	300A.020.A	48.55
2	6	50	6	300A.020.B	52.60
2.5	8	50	6	300A.025	52.60
3	10	40	3	300A.030	23.20
3	10	50	6	300A.030.A	48.55
3.5	10	50	6	300A.035	48.55
4	12	50	4	300A.040	34.45
4	12	50	6	300A.040.A	48.55
4.5	12	50	6	300A.045	48.55
5	14	50	5	300A.050	44.00
5	14	50	6	300A.050.A	48.55
5.5	14	50	6	300A.055	48.55
6	14	50	6	300A.060	46.50
6	20	60	6	300A.060.A	48.55
6	35	75	6	300A.060.B	70.80
8	25	63	8	300A.080	73.50
10	25	72	10	300A.100	110.75
12	25	83	12	300A.120	143.95

Downcut super spiral | 300B

Solid carbide downcut spiral
mirror finish
Z=1

To reduce vibration and eliminate 'pick up'.
For clean top finish on aluminium and plastics.
High relief.



D	I	L	S	Part No	£ Price
1.5	6	40	3	300B.015	35.30
2	10	40	2	300B.020	24.45
2	8	40	3	300B.020.A	48.55
2	6	50	6	300B.020.B	52.60
2.5	8	50	6	300B.025	52.60
3	10	40	3	300B.030	23.20
3	10	50	6	300B.030.A	48.55
3.5	10	50	6	300B.035	48.55
4	12	50	4	300B.040	34.45
4	12	50	6	300B.040.A	48.55
4.5	12	50	6	300B.045	48.55
5	14	50	5	300B.050	44.00
5	14	50	6	300B.050.A	48.55
5.5	14	50	6	300B.055	48.55
6	14	50	6	300B.060	46.50
6	20	60	6	300B.060.A	48.55
6	35	75	6	300B.060.B	70.80
8	25	63	8	300B.080	73.50
10	25	72	10	300B.100	110.75
12	25	83	12	300B.120	143.95

HPL (high pressure laminate) spiral tools | 9NT 9FT 9IT Z=3



9NT Upcut Roughing

D	I	L	S	Part No	£ Price
10	20	70	10	9NT.100	95.85
12	20	70	12	9NT.120	114.40



9FT upcut finishing spiral

D	I	L	S	Part No	£ Price
10	20	70	10	9FT.100	78.20
12	20	70	12	9FT.120	114.40



9IT downcut finishing spiral

D	I	L	S	Part No	£ Price
10	20	70	10	9IT.100	78.20
12	20	70	12	9IT.120	114.40

Calibre/FUL have developed a series of spiral tools

using special carbides that give a longer life when used on the very abrasive solid phenol boards.

The 9NT range gives users the option of machining the boards to 1mm above size all round. The 9FT or 9IT allows the sized panels to be machined to final sizes.

This concept prevents premature cutter wear and allows the finishing spirals to machine without undue vibration or chip overload.



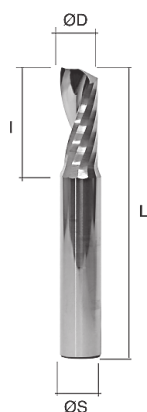
Upcut super spiral | 310A

Solid carbide mirror finish

Z=1

For aluminium and plastics.

Multi facet relief, ideal for acrylics.



D	I	L	S	Part No	£ Price
1.5	6	40	3	310A.015	35.30
2	10	40	3	310A.020	48.55
2	10	40	2	310A.020.A	23.20
2	12	60	6	310A.020.B	49.85
2.5	6	40	2.5	310A.025	30.15
3	12	40	3	310A.030	23.20
3	10	60	6	310A.030.A	49.85
3	12	60	6	310A.030.B	49.85
3	15	60	6	310A.030.D	52.15
3	18	60	6	310A.030.E	57.35
4	15	40	4	310A.040	30.70
4	15	60	6	310A.040.A	49.85
5	16	50	5	310A.050	44.00
5	16	60	6	310A.050.A	49.85
5	22	60	6	310A.522.A	49.65
6	20	60	6	310A.060	45.15
6	30	60	6	310A.060.A	52.60
6	35	75	6	310A.060.B	66.90
NEW 6	14	50	6	310A.060.S	44.25
8	22	63	8	310A.080	73.50
8	30	85	8	310A.830	97.30
8	40	100	8	310A.080.A	110.75
10	25	72	10	310A.100	110.75
12	30	83	12	310A.120	136.65
14	30	83	14	310A.140	199.00
16	35	92	16	310A.160	286.00
18	35	92	18	310A.180	336.00
20	40	104	20	310A.200	375.00

The 310A and 310B range are ideal for machining soft acrylics and 'low melt' plastics.

310A.060.S is the ideal tool for machining single sheet perspex.

To ensure correct sharpening these tools should only be serviced by a recognised saw doctor.

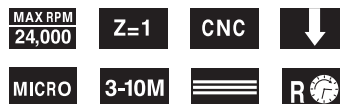
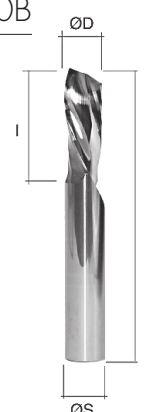
Downcut super spiral | 310B

Solid carbide mirror finish

Z=1

For Aluminium and plastics.

Multi facet relief, ideal for acrylics.

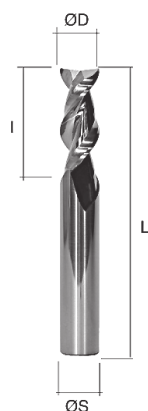


D	I	L	S	Part No	£ Price
1.5	6	40	3	310B.015	35.25
2	10	40	3	310B.020	48.55
2	10	40	2	310B.020.A	23.20
2	12	60	6	310B.020.B	49.85
2.5	6	40	2.5	310B.025	30.15
3	12	40	3	310B.030	23.20
3	10	60	6	310B.030.A	49.85
3	12	60	6	310B.030.B	49.85
3	15	60	6	310B.030.D	52.15
4	15	40	4	310B.040	30.70
4	15	60	6	310B.040.A	49.85
5	16	50	5	310B.050	44.00
5	16	60	6	310B.050.A	49.85
6	20	60	6	310B.060	45.15
6	30	60	6	310B.060.A	52.60
6	35	75	6	310B.060.B	66.90
8	22	63	8	310B.080	73.50
8	40	100	8	310B.080.A	110.75
10	25	72	10	310B.100	110.75
12	30	83	12	310B.120	136.65
14	30	83	14	310B.140	199.00
16	35	92	16	310B.160	286.00
18	35	92	18	310B.180	320.25
20	40	104	20	310B.200	375.00

Upcut super spiral | 320A

Solid carbide 30° upcut helix
mirror finish
Z=2

Ideal for heavier aluminium section.
Hard insulation plastics and alloys such as titanium.

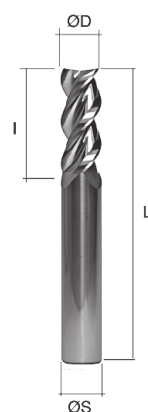


D	I	L	S	Part No	£ Price
2	6	50	6	320A.020	52.60
3	12	40	3	320A.030	30.70
3	12	50	6	320A.030.A	52.60
4	14	40	4	320A.040	33.50
4	14	50	6	320A.040.A	52.60
5	16	50	5	320A.050	40.30
6	18	50	6	320A.060	49.45
6.35	20	63	6.35	320A.063	52.15
8	20	63	8	320A.080	74.75
10	25	72	10	320A.100	98.15
12	30	83	12	320A.120	136.10
16	35	92	16	320A.160	274.00
20	45	104	20	320A.200	351.75

Upcut super spiral | 330A

Solid carbide 30° upcut helix
mirror finish
Z=3

3 flute for a superior finish on plastic,
aluminium, titanium and other light alloys.

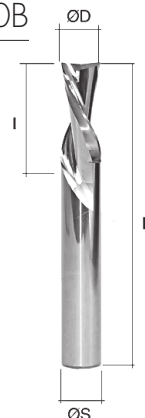


D	I	L	S	Part No	£ Price
2	6	50	6	330A.020	60.15
3	12	40	3	330A.030	37.00
3	12	50	6	330A.030.A	60.15
4	14	40	4	330A.040	44.00
5	16	50	5	330A.050	46.10
6	18	50	6	330A.060	52.60
8	20	63	8	330A.080	76.80
10	25	72	10	330A.100	99.85
12	30	83	12	330A.120	138.25
16	35	92	16	330A.160	280.00
20	45	104	20	330A.200	371.00

Downcut super spiral | 320B

Solid carbide 30° downcut helix
mirror finish
Z=2

For best top finish on all materials.
Good extraction required.

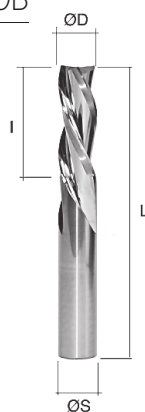


D	I	L	S	Part No	£ Price
2	6	40	2	320B.020	41.80
2	6	50	6	320B.020.A	52.60
2.5	7	40	2.5	320B.025	41.80
3	12	40	3	320B.030	30.70
3	12	50	6	320B.030.A	52.60
4	14	40	4	320B.040	33.50
4	14	50	6	320B.040.A	52.60
5	16	50	5	320B.050	40.30
6	18	50	6	320B.060	49.45
8	20	63	8	320B.080	74.75
10	25	72	10	320B.100	98.15
12	30	83	12	320B.120	136.10
16	35	92	16	320B.160	274.00
20	45	104	20	320B.200	351.75

Downcut super spiral | 330B

Solid carbide 30° downcut helix
mirror finish
Z=3

The best possible top finish on plastics,
aluminium and alloys.
Good extraction required.



D	I	L	S	Part No	£ Price
2	6	50	6	330B.020	60.15
3	12	40	3	330B.030	37.00
3	12	50	6	330B.030.A	60.15
4	14	40	4	330B.040	44.00
5	16	50	5	330B.050	43.25
6	18	50	6	330B.060	52.60
8	20	63	8	330B.080	76.80
10	25	72	10	330B.100	99.85
12	30	83	12	330B.120	138.25
16	35	92	16	330B.160	280.00
20	45	104	20	330B.200	371.00

Upcut super spiral | 340A

Solid carbide 45° upcut helix
mirror finish
Z=3

Unequal helix angle to reduce tool vibration and improve finish and edge quality. For aluminium and alloys. Excellent for deep cutting.



D	I	L	S	Part No	£ Price
4	13	57	6	340A.040	68.85
5	15	57	6	340A.050	68.85
6	18	57	6	340A.060	63.15
7	20	63	8	340A.070	95.95
8	20	63	8	340A.080	84.45
9	22	72	10	340A.090	122.60
10	25	72	10	340A.100	112.25
12	30	83	12	340A.120	155.75
14	30	83	14	340A.140	215.10
16	35	92	16	340A.160	321.40
18	35	92	18	340A.180	367.00
20	45	104	20	340A.200	416.00

Upcut super spiral | 350A

Solid carbide 30° upcut helix
mirror finish
Z=3

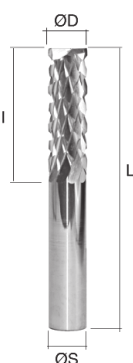
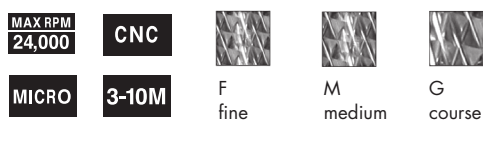
Unequal helix angle for a smoother vibration free cut. For cutting plastics, aluminium and titanium light alloys.



D	I	L	S	Part No	£ Price
3	10	57	6	350A.030	99.70
4	13	57	6	350A.040	82.20
5	15	57	6	350A.050	82.20
6	18	57	6	350A.060	73.20
7	20	63	8	350A.070	120.40
8	20	63	8	350A.080	110.25
9	22	72	10	350A.090	157.25
10	25	72	10	350A.100	125.00
12	30	83	12	350A.120	184.00
14	30	83	14	350A.140	247.00
16	35	92	16	350A.160	368.00
18	35	92	18	350A.180	432.00
20	40	104	20	350A.200	458.00

Solid carbide diamond cut flat bottom | 360A

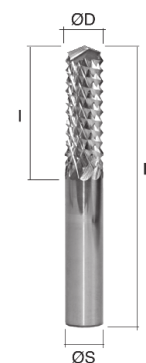
Solid carbide
for GRP, fibreglass and composites
Plunge cutting with 0° plunge point.
Suitable for board with carbon fibre content, course design only.



D	I	L	S	Part No	£ Price
2	7	40	2	360A.020.F 360A.020.M 360A.020.G	30.90
2	7	50	6	360A.020.F.A 360A.020.M.A 360A.020.G.A	65.40
3	10	40	3	360A.030.F 360A.030.M 360A.030.G	30.90
3	12	50	6	360A.030.F.A 360A.030.M.A 360A.030.G.A	65.40
4	15	40	4	360A.040.F 360A.040.M 360A.040.G	37.45
4	20	50	6	360A.040.F.A 360A.040.M.A 360A.040.G.A	65.40
5	16	50	5	360A.050.F 360A.050.M 360A.050.G	49.60
5	25	75	6	360A.050.F.A 360A.050.M.A 360A.050.G.A	65.70
6	18	50	6	360A.060.F 360A.060.M 360A.060.G	52.00
6	35	75	6	360A.060.F.A 360A.060.M.A 360A.060.G.A	65.70
• 8	25	63	8	360A.080.F 360A.080.M 360A.080.G	77.60
• 8	40	100	8	360A.080.F.A 360A.080.M.A 360A.080.G.A	94.40
• 10	30	72	10	360A.100.F 360A.100.M 360A.100.G	107.00
• 12	32	83	12	360A.120.F 360A.120.M 360A.120.G	150.00
• 16	36	92	16	360A.160.F 360A.160.M 360A.160.G	342.00
• 20	40	104	20	360A.200.F 360A.200.M 360A.200.G	460.00

Solid carbide diamond cut plunge point | 370A

Solid carbide
for GRP, fibreglass and composites
Plunge cutting with 135° plunge point.
Suitable for board with carbon fibre content, course design only.



D	I	L	S	Part No	£ Price
2	7	40	2	370A.020.F 370A.020.M 370A.020.G	31.30
2	7	50	6	370A.020.F.A 370A.020.M.A 370A.020.G.A	68.30
3	10	40	3	370A.030.F 370A.030.M 370A.030.G	33.90
3	12	50	6	370A.030.F.A 370A.030.M.A 370A.030.G.A	68.30
4	15	40	4	370A.040.F 370A.040.M 370A.040.G	37.25
4	20	50	6	370A.040.F.A 370A.040.M.A 370A.040.G.A	68.30
5	16	50	5	370A.050.F 370A.050.M 370A.050.G	51.95
5	25	75	6	370A.050.F.A 370A.050.M.A 370A.050.G.A	68.85
6	18	50	6	370A.060.F 370A.060.M 370A.060.G	54.10
6	35	75	6	370A.060.F.A 370A.060.M.A 370A.060.G.A	68.85
• 8	25	63	8	370A.080.F 370A.080.M 370A.080.G	85.40
• 8	40	100	8	370A.080.F.A 370A.080.M.A 370A.080.G.A	112.25
• 10	30	72	10	370A.100.F 370A.100.M 370A.100.G	110.00
• 12	32	83	12	370A.120.F 370A.120.M 370A.120.G	163.00
• 16	36	92	16	370A.160.F 370A.160.M 370A.160.G	355.00
• 20	40	104	20	370A.200.F 370A.200.M 370A.200.G	515.00

Important information When using the upcut 340A and 350A range, care must be taken to avoid the component lifting (due to the high helix angle). Ensure that the component is securely clamped and the vacuum system on the machine can grip all areas of the part being machined.

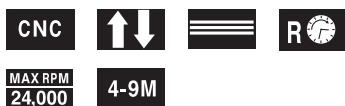
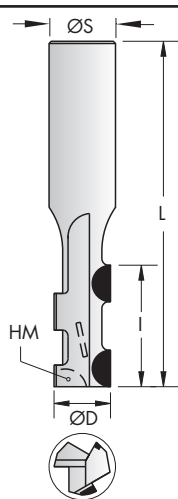
PCD | 240A

PCD Right hand rotation router cutters for MDF, chipboard, hardwoods and solid surface materials

Up and down cut shear

Price is the same for left hand rotation.

Gives a clean finish top and bottom of material.



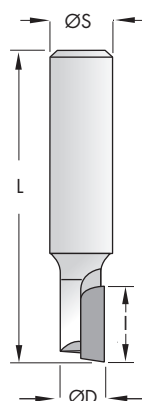
D	I	L	Z	S	Part no	£ Price
12	27	75	3+1	12	240A.120.A	196.25
12	36	84	4+1	12	240A.120.B	251.40
12.7	27	75	3+1	12.7	240A.127.A	196.25
12.7	36	84	4+1	12.7	240A.127.B	251.40
16	27	88	3+1	20	240A.160.A	254.70
16	36	97	4+1	20	240A.160.B	301.00
16	45	105	5+1	20	240A.160.C	316.45
18	27	88	3+1	20	240A.180.A	254.70
18	36	97	4+1	20	240A.180.B	301.00
18	45	105	5+1	20	240A.180.C	316.45
18	55	120	6+1	20	240A.180.D	416.00
20	27	88	3+1	20	240A.200.A	254.70
20	36	97	4+1	20	240A.200.B	301.00
20	45	110	5+1	20	240A.200.C	316.45
20	55	120	6+1	20	240A.200.D	404.65
25	55	120	6+1	25	240A.250.D	422.30

PCD single flute | 230A

PCD Small diameter tooling brazed to a solid carbide body

Pre-use sizing and no deflection

Resharpening should be carried out by a reputable Saw Doctor. A separate sheet is available which explains the correct use of the PCD workshop cutter.



D	I	L	Z	S	Part no	£ Price
5	10	70	1	12.7	230A.050	POA
6	10	70	1	12.7	230A.060	POA
6.35	10	70	1	12.7	230A.635	POA
7	10	70	1	12.7	230A.070	POA
8	15	80	1	12.7	230A.080	POA
9	15	80	1	12.7	230A.090	POA
10	15	80	1	12.7	230A.100	POA
12.7	25	100	1	12.7	• 230A.127W	POA
12.7	25	75	1	12.7	•• 230A.127	POA

• Worktop Cutter has long reach relieved neck to cut to 50mm deep, ideal for reconstituted materials.

•• MDF Cutter

PCD fast feed | 250A

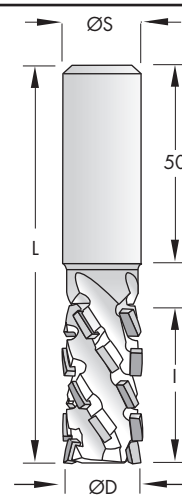
PCD Right hand rotation router cutters for MDF, chipboard, and hardwoods with fast feed facility

Up and down cut shear

Router cutter 250A has fast feed facility.

Keeps a clean finish at above 20m feed rate.

Price is the same for left hand rotation.



D	I	L	Z	S	Part no	£ Price
20	53	120	12+2	20x50	250A.200.B	POA
20	70	130	14+2	20x50	250A.200.C	POA
25	53	120	12+2	25x50	250A.250.B	POA

PCD spiral compression | 248A

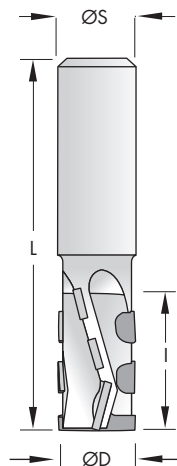
PCD Right hand rotation router cutters for MDF, chipboard, and hardwoods with fast feed facility

The ultimate tool for veneered panel cutting

Router cutter 248A has fast feed facility.

Superb finish at high feed rates due to compression spiral action.

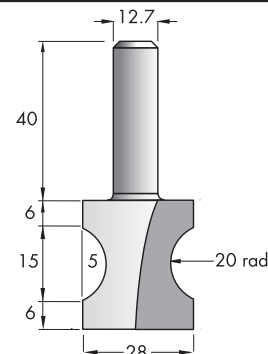
Price is the same for left hand rotation.



D	I	L	Z	S	Part no	£ Price
20	27	85	7+2	20 x 50	248A.200.A	POA
20	35	90	10+2	20 x 50	248A.200.B	POA
20	48	105	15+2	20 x 50	248A.200.C	POA

HPL PCD cutter | HPL

Designed to produce a safety edge on hard plastics and composites.



D	I	L	Z	S	Part no	£ Price
28	15	70	2	12.7	HPL.150	POA

Drills and Boring Tools

The most popular sizes available for dowel drill holes. A superb comprehensive range of all sizes in 'V' point and lip and spur. All drills are complete with 5mm end adjusting screw.

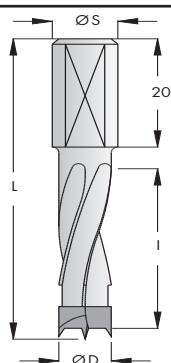
Lip and spur | 50F

TCT Lip and spur dowel drills
10mm shank
4 flute 57.5mm overall length

Colour Code:
Black right hand | Orange left hand
• = solid carbide



Half sizes available from stock



Left hand rotation				Part no	£ Price
D	I	L	S		
3	20	57.5	10	50F.030.L/70L.030.L •	19.45
3.5	20	57.5	10	50F.035.L/70L.035.L •	20.35
4	30	57.5	10	50F.040.L	14.70
4.5	30	57.5	10	50F.045.L	17.40
4.8	30	57.5	10	50F.048.L	17.15
5	30	57.5	10	50F.050.L	14.10
5.1	30	57.5	10	50F.051.L	15.55
5.2	30	57.5	10	50F.052.L	15.55
5.5	30	57.5	10	50F.055.L	15.55
6	30	57.5	10	50F.060.L	14.10
6.35	30	57.5	10	50F.063.L	15.55
6.5	30	57.5	10	50F.065.L	15.55
7	30	57.5	10	50F.070.L	15.75
7.5	30	57.5	10	50F.075.L	16.25
8	30	57.5	10	50F.080.L	15.20
8.2	30	57.5	10	50F.082.L	15.20
8.5	30	57.5	10	50F.085.L	16.90
9	30	57.5	10	50F.090.L	15.20
9.5	30	57.5	10	50F.095.L	16.90
10	30	57.5	10	50F.100.L	14.70
10.1	30	57.5	10	50F.101.L	18.50
10.5	30	57.5	10	50F.105.L	18.50
11	30	57.5	10	50F.110.L	17.30
12	30	57.5	10	50F.120.L	17.30
12.7	30	57.5	10	50F.127.L	21.60
13	30	57.5	10	50F.130.L	22.45
14	30	57.5	10	50F.140.L	22.45
15	30	57.5	10	50F.150.L	23.10
16	30	57.5	10	50F.160.L	27.30

Right hand rotation				Part no	£ Price
D	I	L	S		
3	20	57.5	10	50F.030.R/70L.030.R •	19.45
3.5	20	57.5	10	50F.035.R/70L.035.R •	20.35
4	30	57.5	10	50F.040.R	14.70
4.5	30	57.5	10	50F.045.R	17.40
4.8	30	57.5	10	50F.048.R	17.15
5	30	57.5	10	50F.050.R	14.10
5.1	30	57.5	10	50F.051.R	15.55
5.2	30	57.5	10	50F.052.R	15.55
5.5	30	57.5	10	50F.055.R	15.55
6	30	57.5	10	50F.060.R	14.10
6.35	30	57.5	10	50F.063.R	15.55
6.5	30	57.5	10	50F.065.R	15.55
7	30	57.5	10	50F.070.R	15.75
7.5	30	57.5	10	50F.075.R	16.25
8	30	57.5	10	50F.080.R	15.10
8.2	30	57.5	10	50F.082.R	15.20
8.5	30	57.5	10	50F.085.R	16.90
9	30	57.5	10	50F.090.R	15.20
9.5	30	57.5	10	50F.095.R	16.90
10	30	57.5	10	50F.100.R	14.70
10.1	30	57.5	10	50F.101.R	18.50
10.5	30	57.5	10	50F.105.R	18.50
11	30	57.5	10	50F.110.R	17.30
12	30	57.5	10	50F.120.R	17.30
12.7	30	57.5	10	50F.127.R	21.60
13	30	57.5	10	50F.130.R	22.45
14	30	57.5	10	50F.140.R	23.10
15	30	57.5	10	50F.150.R	23.10
16	30	57.5	10	50F.160.R	27.30

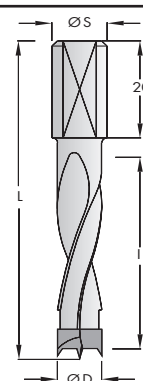
Lip and spur | 50G

TCT Lip and spur dowel drills
10mm shank
4 flute 70mm overall length

Colour Code:
Black right hand | Orange left hand
• = solid carbide



Half sizes available from stock



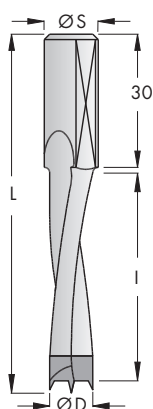
Left hand rotation				Part no	£ Price
D	I	L	S		
3	37	70	10	50G.030.L/70M.030.L •	20.75
3.5	37	70	10	50G.035.L/70M.035.L •	22.90
4	43	70	10	50G.040.L	17.30
4.5	43	70	10	50G.045.L	18.15
4.8	43	70	10	50G.048.L	19.20
5	43	70	10	50G.050.L	15.10
5.1	43	70	10	50G.051.L	16.15
5.2	43	70	10	50G.052.L	16.15
5.5	43	70	10	50G.055.L	16.15
6	43	70	10	50G.060.L	15.35
6.35	43	70	10	50G.063.L	16.15
6.5	43	70	10	50G.065.L	16.15
7	43	70	10	50G.070.L	16.45
7.5	43	70	10	50G.075.L	19.60
8	43	70	10	50G.080.L	15.95
8.2	43	70	10	50G.082.L	19.60
8.5	43	70	10	50G.085.L	19.60
9	43	70	10	50G.090.L	17.30
9.5	43	70	10	50G.095.L	19.60
10	43	70	10	50G.100.L	17.30
10.1	43	70	10	50G.101.L	21.75
10.5	43	70	10	50G.105.L	21.75
11	43	70	10	50G.110.L	19.60
11.5	43	70	10	50G.115.L	21.75
12	43	70	10	50G.120.L	19.20
12.7	43	70	10	50G.127.L	22.40
13	43	70	10	50G.130.L	22.85
14	43	70	10	50G.140.L	23.10
15	43	70	10	50G.150.L	26.15
16	43	70	10	50G.160.L	28.45

Right hand rotation				Part no	£ Price
D	I	L	S		
3	37	70	10	50G.030.R/70M.030.R •	20.70
3.5	37	70	10	50G.035.R/70M.035.R •	22.90
4	43	70	10	50G.040.R	17.30
4.5	43	70	10	50G.045.R	18.15
4.8	43	70	10	50G.048.R	19.20
5	43	70	10	50G.050.R	15.10
5.1	43	70	10	50G.051.R	16.15
5.2	42	70	10	50G.052.R	16.15
5.5	43	70	10	50G.055.R	16.15
6	43	70	10	50G.060.R	15.35
6.35	43	70	10	50G.063.R	16.15
6.5	43	70	10	50G.065.R	16.15
7	43	70	10	50G.070.R	16.45
7.5	43	70	10	50G.075.R	19.60
8	43	70	10	50G.080.R	15.95
8.2	43	70	10	50G.082.R	19.60
8.5	43	70	10	50G.085.R	19.60
9	43	70	10	50G.090.R	17.30
9.5	43	70	10	50G.095.R	19.60
10	43	70	10	50G.100.R	17.30
10.1	43	70	10	50G.101.R	21.75
10.5	43	70	10	50G.105.R	21.75
11	43	70	10	50G.110.R	19.60
11.5	43	70	10	50G.115.R	21.75
12	43	70	10	50G.120.R	19.60
12.7	43	70	10	50G.127.R	22.40
13	43	70	10	50G.130.R	22.85
14	43	70	10	50G.140.R	23.10
15	43	70	10	50G.150.R	26.15
16	43	70	10	50G.160.R	28.45

Lip and spur | 50X

TCT Lip and spur dowel drills
10mm shank
2 flute 77mm overall length

Colour code:
Black right hand
Orange left hand



Left hand rotation

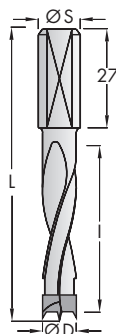
D	I	L	S	Part no	£ Price
5	44	77	10	50X.050.L	18.80
6	44	77	10	50X.060.L	18.80
7	44	77	10	50X.070.L	19.75
8	44	77	10	50X.080.L	19.75
9	44	77	10	50X.090.L	22.30
10	44	77	10	50X.100.L	22.30
11	44	77	10	50X.110.L	26.15
12	44	77	10	50X.120.L	24.40
15	44	77	10	50X.150.L	30.80

Right hand rotation

D	I	L	S	Part no	£ Price
5	44	77	10	50X.050.R	18.80
6	44	77	10	50X.060.R	18.80
7	44	77	10	50X.070.R	19.75
8	44	77	10	50X.080.R	19.75
9	44	77	10	50X.090.R	22.30
10	44	77	10	50X.100.R	22.30
11	44	77	10	50X.110.R	26.15
12	44	77	10	50X.120.R	24.40
15	44	77	10	50X.150.R	30.80

Lip and spur | 50C

TCT Lip and spur dowel drills
10mm shank
4 flute 85mm overall length



Left hand rotation

D	I	L	S	Part no	£ Price
5	50	85	10	50C.050.L	19.60
6	50	85	10	50C.060.L	19.60
7	50	85	10	50C.070.L	22.85
8	50	85	10	50C.080.L	20.35
10	50	85	10	50C.100.L	21.65
12	50	85	10	50C.120.L	24.40

Right hand rotation

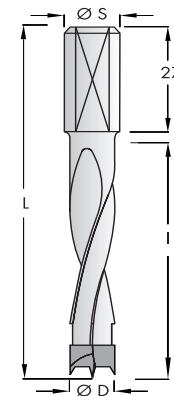
D	I	L	S	Part no	£ Price
5	50	85	10	50C.050.R	19.60
6	50	85	10	50C.060.R	19.60
7	50	85	10	50C.070.R	22.85
8	50	85	10	50C.080.R	20.35
10	50	85	10	50C.100.R	21.65
12	50	85	10	50C.120.R	24.40

Lip and spur | 52C

TCT Lip and spur dowel drills
10mm shank
4 flute 105mm overall length

Accurate sizes on all diameters.

Colour code:
Black right hand | Orange left hand



Left hand rotation

D	I	L	S	Part no	£ Price
5	70	105	10	52C.050.L	23.65
6	70	105	10	52C.060.L	23.65
6.5	70	105	10	52C.065.L	28.70
7	70	105	10	52C.070.L	28.70
8	70	105	10	52C.080.L	24.70
10	70	105	10	52C.100.L	25.90
11	70	105	10	52C.110.L	34.20
12	70	105	10	52C.120.L	30.80

Right hand rotation

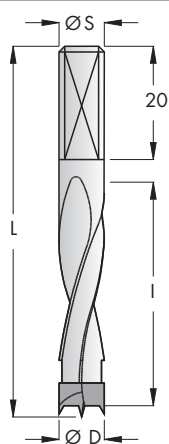
D	I	L	S	Part no	£ Price
5	70	105	10	52C.050.R	23.65
6	70	105	10	52C.060.R	23.65
6.5	70	105	10	52C.065.R	28.70
7	70	105	10	52C.070.R	28.70
8	70	105	10	52C.080.R	24.70
10	70	105	10	52C.100.R	25.90
11	70	105	10	52C.110.R	34.20
12	70	105	10	52C.120.R	30.80



Lip and spur | 50B

TCT Lip and spur dowel drills
8mm shank
4 flute 67mm overall length

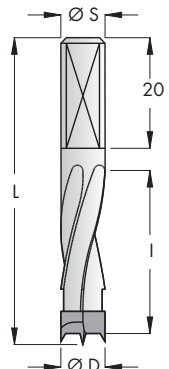
Colour Code:
Black right hand
Orange left hand



D	I	L	S	Part no RH	Part no LH	£ Price
3	40	67	8	50B.030.R	50B.030.L	23.10
4	40	67	8	50B.040.R	50B.040.L	19.10
5	40	67	8	50B.050.R	50B.050.L	15.75
6	40	67	8	50B.060.R	50B.060.L	16.15
8	40	67	8	50B.080.R	50B.080.L	17.40
10	40	67	8	50B.100.R	50B.100.L	19.35
11	40	67	8	50B.110.R	50B.110.L	20.60
12	40	67	8	50B.120.R	50B.120.L	21.35

Lip and spur | 50A

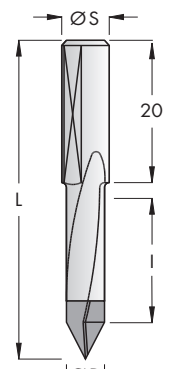
TCT Lip and spur dowel drills 8mm shank
4 flute 55.5mm overall length



D	I	L	S	Part no RH	Part no LH	£ Price
3	30	55.5	8	50A.030.R	50A.030.L	22.05
4	30	55.5	8	50A.040.R	50A.040.L	18.05
5	30	55.5	8	50A.050.R	50A.050.L	15.10
6	30	55.5	8	50A.060.R	50A.060.L	15.55
8	30	55.5	8	50A.080.R	50A.080.L	16.80
10	30	55.5	8	50A.100.R	50A.100.L	18.80
11	30	55.5	8	50A.110.R	50A.110.L	20.10
12	30	55.5	8	50A.120.R	50A.120.L	20.35

'V' point | 50J

TCT 'V' point 'through hole' drills
8mm shank
2 flute 55.5mm overall length

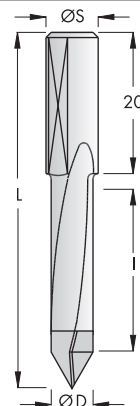
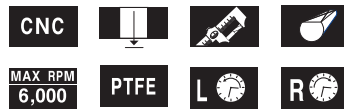


D	I	L	S	Part no RH	Part no LH	£ Price
3	25	55.5	8	50J.030.R	50J.030.L	23.65
4	25	55.5	8	50J.040.R	50J.040.L	20.50
5	25	55.5	8	50J.050.R	50J.050.L	19.65
6	25	55.5	8	50J.060.R	50J.060.L	20.32
8	25	55.5	8	50J.080.R	50J.080.L	20.60
10	25	55.5	8	50J.100.R	50J.100.L	20.60

'V' point | 50K

TCT 'V' point 'through hole' drills
10mm shank 70mm overall length
Use 50K range for fast swarf removal

Colour Code:
Black right hand
Orange left hand



Left hand rotation – 4 Flute

D	I	L	S	Part no	£ Price
3	35	70	10	50K.030.L/70Q.030.L	20.75
3.5	35	70	10	50K.035.L/70Q.035.L	26.10
4	35	70	10	50K.040.L	20.60
4.5	35	70	10	50K.045.L	20.60
5	35	70	10	50K.050.L	19.10
5.1	35	70	10	50K.051.L	19.85
5.5	35	70	10	50K.055.L	19.85
6	35	70	10	50K.060.L	19.40
6.35	35	70	10	50K.063.L	21.10
6.5	35	70	10	50K.065.L	21.10
7	35	70	10	50K.070.L	21.10
7.5	35	70	10	50K.075.L	24.40
8	35	70	10	50K.080.L	20.35
8.5	35	70	10	50K.085.L	30.80
9	35	70	10	50K.090.L	22.40
9.5	35	70	10	50K.095.L	30.80
10	35	70	10	50K.100.L	22.40
10.5	35	70	10	50K.105.L	33.10
11	35	70	10	50K.110.L	26.90
12	35	70	10	50K.120.L	28.45
13	35	70	10	50K.130.L	45.80
14	35	70	10	50K.140.L	48.70
15	30	70	10	50K.150.L	48.70
16	30	70	10	50K.160.L	48.70
17	30	70	10	50K.170.L	48.70
18	30	70	10	50K.180.L	55.65
19	30	70	10	50K.190.L	60.25
20	30	70	10	50K.200.L	68.05

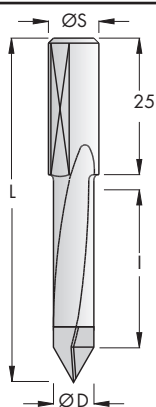
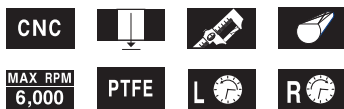
Right hand rotation – 4 Flute

D	I	L	S	Part no	£ Price
3	35	70	10	50K.030.R/70Q.030.R	20.75
3.5	35	70	10	50K.035.R/70Q.035.R	26.10
4	35	70	10	50K.040.R	20.60
4.5	35	70	10	50K.045.R	20.60
5	35	70	10	50K.050.R	19.10
5.1	35	70	10	50K.051.R	19.85
5.5	35	70	10	50K.055.R	19.85
6	35	70	10	50K.060.R	19.40
6.35	35	70	10	50K.063.R	21.10
6.5	35	70	10	50K.065.R	21.10
7	35	70	10	50K.070.R	21.10
7.5	35	70	10	50K.075.R	24.80
8	35	70	10	50K.080.R	20.35
8.5	35	70	10	50K.085.R	30.80
9	35	70	10	50K.090.R	22.40
9.5	35	70	10	50K.095.R	30.80
10	35	70	10	50K.100.R	22.40
10.5	35	70	10	50K.105.R	33.10
11	35	70	10	50K.110.R	26.90
12	35	70	10	50K.120.R	28.45
13	35	70	10	50K.130.R	45.80
14	35	70	10	50K.140.R	48.70
15	30	70	10	50K.150.R	48.70
16	30	70	10	50K.160.R	48.70
17	30	70	10	50K.170.R	48.70
18	30	70	10	50K.180.R	55.65
19	30	70	10	50K.190.R	60.25
20	30	70	10	50K.200.R	68.05

'V' point | 50W

TCT 'V' point 'through hole' drills
10mm shank
2 flute 77mm overall length

Colour Code:
Black right hand
Orange left hand



Left hand rotation

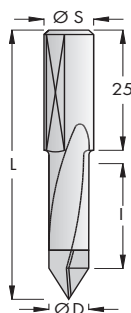
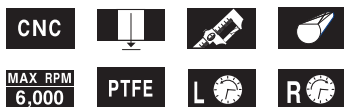
D	I	L	S	Part no	£ Price
4	40	77	10	50W.040.L	24.40
5	40	77	10	50W.050.L	24.40
6	40	77	10	50W.060.L	25.65
8	40	77	10	50W.080.L	25.90
10	40	77	10	50W.100.L	26.90
12	40	77	10	50W.120.L	32.85

Right hand rotation

D	I	L	S	Part no	£ Price
4	40	77	10	50W.040.R	24.40
5	40	77	10	50W.050.R	24.40
6	40	77	10	50W.060.R	25.65
8	40	77	10	50W.080.R	25.90
10	40	77	10	50W.100.R	26.90
12	40	77	10	50W.120.R	32.85

'V' point | 50H

TCT 'V' point 'through hole' drills
10mm shank
4 flute 58mm overall length



Left hand rotation

D	I	L	S	Part no	£ Price
3	20	58	10	50H.030.L	19.45
3.5	20	58	10	50H.035.L	19.60
4	25	58	10	50H.040.L	19.75
4.5	25	58	10	50H.045.L	19.75
5	25	58	10	50H.050.L	18.05
5.5	25	58	10	50H.055.L	19.75
6	25	58	10	50H.060.L	18.05
6.35	25	58	10	50H.063.L	19.35
6.5	25	58	10	50H.065.L	19.35
7	25	58	10	50H.070.L	19.35
8	25	58	10	50H.080.L	19.10
9	25	58	10	50H.090.L	19.75
10	25	58	10	50H.100.L	20.35
12	25	58	10	50H.120.L	24.60

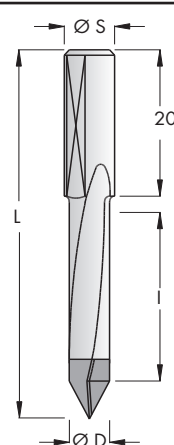
Right hand rotation

D	I	L	S	Part no	£ Price
3	20	58	10	50H.030.R	19.45
3.5	20	58	10	50H.035.R	19.60
4	25	58	10	50H.040.R	19.75
4.5	25	58	10	50H.045.R	19.75
5	25	58	10	50H.050.R	18.05
5.5	25	58	10	50H.055.R	19.75
6	25	58	10	50H.060.R	18.05
6.35	25	58	10	50H.065.R	19.35
6.5	25	58	10	50H.063.R	19.35
7	25	58	10	50H.070.R	19.35
8	25	58	10	50H.080.R	19.10
9	25	58	10	50H.090.R	19.75
10	25	58	10	50H.100.R	20.35
12	25	58	10	50H.120.R	24.60

'V' point | 50Z

TCT 'V' point 'through hole' drills
8mm shank
2 flute 67mm overall length

Colour Code:
Black right hand
Orange left hand



Left hand rotation

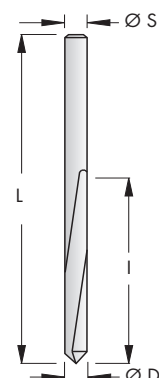
D	I	L	S	Part no	£ Price
5	35	67	8	50Z.050.L	21.70
6	35	67	8	50Z.060.L	21.95
8	35	67	8	50Z.080.L	22.90
10	35	67	8	50Z.100.L	22.80

Right hand rotation

D	I	L	S	Part no	£ Price
5	35	67	8	50Z.050.R	21.70
6	35	67	8	50Z.060.R	21.95
8	35	67	8	50Z.080.R	22.90
10	35	67	8	50Z.100.R	22.80

Carbide drills | 50V

Solid carbide 'V' point 'jobber drills' for use with adaptors



Left hand rotation

D	I	L	S	Part no	£ Price
2	24	49	2	50V.020.L	12.50
2.5	27	55	2.5	50V.025.L	13.85
3	27	55	3	50V.030.L	15.75
3.2	27	55	3.2	50V.032.L	17.40
3.5	27	55	3.5	50V.035.L	17.75
4	27	55	4	50V.040.L	19.15
5	27	55	5	50V.050.L	25.55

Right hand rotation

D	I	L	S	Part no	£ Price
2	24	49	2	50V.020.R	12.50
2.5	27	55	2.5	50V.025.R	13.85
3	27	55	3	50V.030.R	15.75
3.2	27	55	3.2	50V.032.R	17.40
3.5	27	55	3.5	50V.035.R	17.75
4	27	55	4	50V.040.R	19.15
5	27	55	5	50V.050.R	25.55

Our range of drills and boring tools are available on long shanks where the countersink is secured to the shank, and shorter shanks where the countersink is fixed to the drilling section.

See **50T** and **50S** range – page 27

TCT 'V' Point drill bits | 52H

4 flute 'V' point
'through hole' drills
10mm shank
85mm overall length

Colour code:
Black right hand
Orange left hand



D	L	S	I	Part no RH	Part no LH	£ Price
5	85	10	48	52H.050.R	52H.050.L	24.85
6	85	10	48	52H.060.R	52H.060.L	24.85
8	85	10	48	52H.080.R	52H.080.L	26.50
10	85	10	48	52H.100.R	52H.100.L	27.05
12	85	10	48	52H.120.R	52H.120.L	30.35



TCT 'V' Point drill bits | 51K

4 flute 'V' point
'through hole' drills
10mm shank
90mm overall length

Colour code:
Black right hand
Orange left hand



D	L	S	I	Part no RH	Part no LH	£ Price
5	90	10	53	51K.050.R	51K.050.L	24.85
6	90	10	53	51K.060.R	51K.060.L	24.85
8	90	10	53	51K.080.R	51K.080.L	26.50
10	90	10	53	51K.100.R	51K.100.L	28.05
12	90	10	53	51K.120.R	51K.120.L	30.35



TCT 'V' Point drill bits | 53K

4 flute 'V' point
'through hole' drills
10mm shank
115mm overall length

Colour code:
Black right hand
Orange left hand



D	L	S	I	Part no RH	Part no LH	£ Price
5	115	10	70	53K.050.R	53K.050.L	31.50
6	115	10	70	53K.060.R	53K.060.L	31.50
8	115	10	70	53K.080.R	53K.080.L	33.70
10	115	10	70	53K.100.R	53K.100.L	39.45



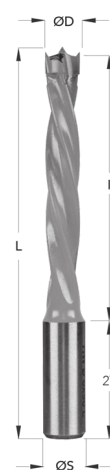
TCT dowel drill bits | 50D

4 flute lip and spur
dowell drills
10mm shank
90mm overall length

Colour code:
Black right hand
Orange left hand



D	L	S	I	Part no RH	Part no LH	£ Price
5	90	10	55	50D.050.R	50D.050.L	22.90
6	90	10	55	50D.060.R	50D.060.L	22.90
7	90	10	55	50D.070.R	50D.070.L	25.20
8	90	10	55	50D.080.R	50D.080.L	23.75
10	90	10	55	50D.100.R	50D.100.L	25.20
12	90	10	55	50D.120.R	50D.120.L	29.30



TCT 'V' point | 52K

TCT 'V' point
'deep through hole'
10mm Shank
105mm overall length
4 flute



D	L	S	I	Part no RH	Part no LH	£ Price
5	105	10	70	52K.050.R	52K.050.L	26.70
6	105	10	70	52K.060.R	52K.060.L	26.70
7	105	10	70	52K.070.R	52K.070.L	31.05
8	105	10	70	52K.080.R	52K.080.L	28.50
10	105	10	70	52K.100.R	52K.100.L	29.60
10.5	105	10	70	52K.105.R	52K.105.L	37.70
12	105	10	70	52K.120.R	52K.120.L	31.90



TCT 'V' point | 73Y

Long series STC spiral section brazed
into steel shank

For multi panel through hole drilling
With adjustable end screw
Feed rate 1-4 meters per minute



D	L	S	I	Part no RH	£ Price
8	160	10x30	120	73Y.080.R	72.50
10	160	10x30	120	73Y.100.R	85.00
12	160	10x30	120	73Y.120.R	92.00



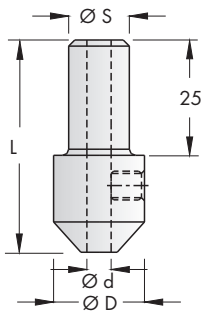
Drill adaptors | 0010

Adaptors to suit 10mm shank
Screw fixing

For TCT drills see page 24.

For HSS drills see page 30.

Also available with M5 end screw.

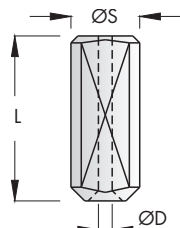


d	D	L	S	Part no	£ Price	£ M5
2	15	35	10	0010.020	8.95	13.65
2.5	15	35	10	0010.025	8.95	13.65
3	15	35	10	0010.030	8.95	13.65
3.2	15	35	10	0010.032	8.95	13.65
3.5	15	35	10	0010.035	8.95	13.65
4	15	35	10	0010.040	8.95	13.65
5	15	35	10	0010.050	8.95	13.65

Drill adaptors | 0011

Split Adaptors to suit
10mm shank

Split adaptors that tighten when pressure is
applied on the drill flat.

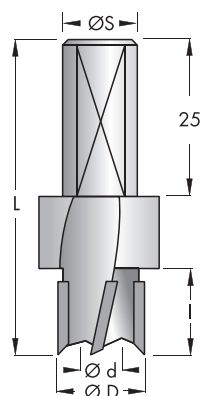


D	L	S	Part no	£ Price
2	25	10	0011.020	6.95
2.5	25	10	0011.025	6.95
3	25	10	0011.030	6.95
3.2	25	10	0011.032	6.95
3.5	25	10	0011.035	6.95
4	25	10	0011.040	6.95
5	25	10	0011.050	6.95

Counterbores | 52F

TCT Counterbores

Available in Right and Left Hand Rotation and
with 4.80 and 5.00 drill sizes.



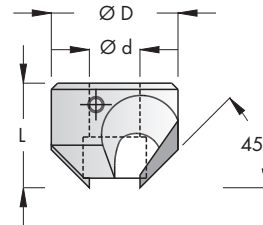
D	d	I	L	S	Part no	£ Price
9.5	4.8	16	55	10	52F.095.R	45.80
9.5	4.8	16	55	10	52F.095.L	45.80
10	4.8	16	55	10	52F.100.R	45.80
10	4.8	16	55	10	52F.100.L	45.80
9.5	5.0	16	55	10	52F.050.R	45.80
9.5	5.0	16	55	10	52F.050.L	45.80
10	5.0	16	55	10	52F.500.R	45.80
10	5.0	16	55	10	52F.500.L	45.80

Countersinks | 50S

TCT Shankless countersinks
to suit drill series

50A, 50B, 50C, 50F, 50G,
50K, 52C, 50H

These countersinks are fixed to the
spiral section.



Z=2

MAX RPM
6,000

L

R

Left hand rotation

d	D	L	Part no	£ Price
4	14	12	50S.040.L	21.50
4.5	14	12	50S.045.L	21.50
5	14	12	50S.050.L	21.50
6	16	14	50S.060.L	21.50
6.35	16	14	50S.063.L	21.50
7	16	14	50S.070.L	21.50
8	16	16	50S.080.L	21.50
9	18	16	50S.090.L	21.50
9.5	20	16	50S.095.L	21.50
10	20	18	50S.100.L	21.50
11	20	18	50S.110.L	21.50
12	20	18	50S.120.L	21.50

Right hand rotation

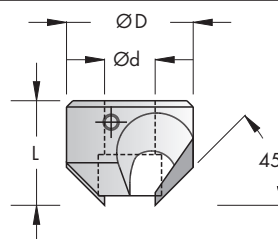
d	D	L	Part no	£ Price
4	14	12	50S.040.R	21.50
4.5	14	12	50S.045.R	21.50
5	14	12	50S.050.R	21.50
6	16	14	50S.060.R	21.50
6.35	16	14	50S.063.R	21.50
7	16	14	50S.070.R	21.50
8	16	16	50S.080.R	21.50
9	18	16	50S.090.R	21.50
9.5	20	16	50S.095.R	21.50
10	20	18	50S.100.R	21.50
11	20	18	50S.110.R	21.50
12	20	18	50S.120.R	21.50

Countersinks | 50T

TCT Shankless countersinks
to suit drill series

50L, 50M, 50N, 50Q,
50W, 50X, 60L, 60M,
70L, 70M

These particular countersinks sit on the
10mm shank.



Z=2

MAX RPM
6,000

L

R

Left hand rotation

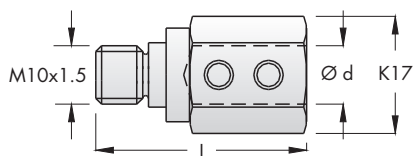
d	D	L	Part no	£ Price
4-10	20	15	50T.000.L	23.75
11-12	22	16	50T.001.L	23.75

Right hand rotation

d	D	L	Part no	£ Price
4-10	20	15	50T.000.R	23.75
11-12	20	16	50T.001.R	23.75

Square end machine chucks | 0012/13

Combination chucks for Morbidelli, Biesse Weeke, SCM



Left hand rotation

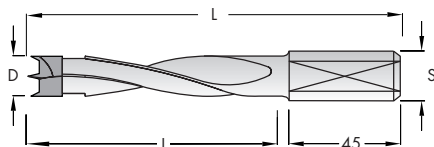
d	L	Thread	Part no	£ Price
8	40	M8 x 1.5	0012.080.L	10.95
10	40	M8 x 1.5	0012.100.L	10.95
8	40	M10 x 1.5	0013.080.L	10.95
10	40	M10 x 1.5	0013.100.L	10.95

Right hand rotation

d	L	Thread	Part no	£ Price
8	40	M8 x 1.5	0012.080.R	10.95
10	40	M8 x 1.5	0012.100.R	10.95
8	40	M10 x 1.5	0013.080.R	10.95
10	40	M10 x 1.5	0013.100.R	10.95

TCT Lip and spur | 52D

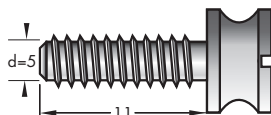
TCT Long series range of lip and spur drills



D	I	L	S	Part no	£ Price
8	105	120	10	52D.080.R	42.35
9	105	125	10	52D.090.R	46.10
10	105	130	10	52D.100.R	51.35
12	105	150	10	52D.120.R	57.35
13	105	150	10	52D.130.R	57.35
14	105	150	10	52D.140.R	60.25
15	105	150	10	52D.150.R	63.20
16	105	150	10	52D.160.R	68.05
17	105	150	10	52D.170.R	68.05
18	105	150	10	52D.180.R	73.60
19	105	150	10	52D.190.R	73.60
20	105	150	10	52D.200.R	75.90
22	105	150	10	52D.220.R	78.75
25	105	150	10	52D.250.R	95.50

M5 Pull Studs

The quick release pull stud fits all drills shown in the drill section of the catalogue.



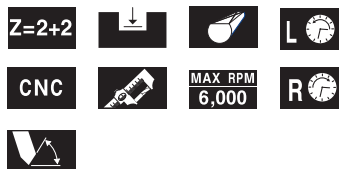
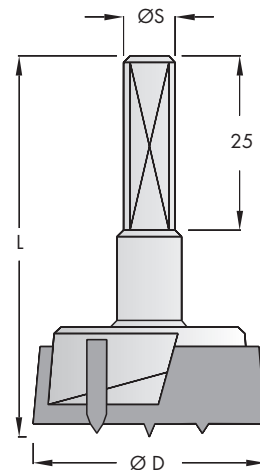
Right hand rotation

D	d	I	L	Part no	£ Price
8	5	11	17	M5.Pull	8.00

Hinge boring | 14A

TCT Boring bit, 2 wing, 2 spur and centre point 57.5mm overall length

Colour Code:
Black right hand
Orange left hand

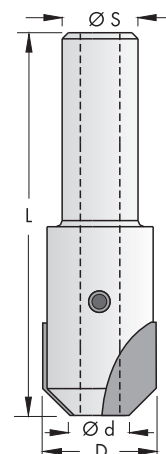


D	L	S	Left hand Part no	Right hand Part no	£ Price
15	57.5	10	14A.150.L	14A.150.R	27.50
16	57.5	10	14A.160.L	14A.160.R	28.25
18	57.5	10	14A.180.L	14A.180.R	28.25
19	57.5	10	14A.190.L	14A.190.R	28.25
20	57.5	10	14A.200.L	14A.200.R	28.25
21	57.5	10	14A.210.L	14A.210.R	28.25
22	57.5	10	14A.220.L	14A.220.R	29.40
24	57.5	10	14A.240.L	14A.240.R	29.40
25	57.5	10	14A.250.L	14A.250.R	29.40
26	57.5	10	14A.260.L	14A.260.R	29.40
28	57.5	10	14A.280.L	14A.280.R	30.15
30	57.5	10	14A.300.L	14A.300.R	30.70
32	57.5	10	14A.320.L	14A.320.R	30.70
34	57.5	10	14A.340.L	14A.340.R	30.70
35	57.5	10	14A.350.L	14A.350.R	30.70
36	57.5	10	14A.360.L	14A.360.R	34.75
38	57.5	10	14A.380.L	14A.380.R	38.10
40	57.5	10	14A.400.L	14A.400.R	40.05

Countersinks | 52N

TCT Countersinks
Z=2

Can be supplied with flat on shank for use on multi-boring machines.
Countersinks with 10mm shank ideal for pillar drills and due to secure fixing may be used on portable drill.

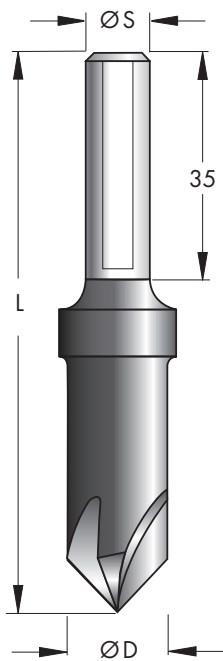


D	d	A	L	S	Part no	£ Price
12.7	3.2	45°	50	10	52N.032.R	52.50
12.7	4	45°	50	10	52N.040.R	52.50
16.0	4.8	45°	50	10	52N.048.R	52.50
16.0	5	45°	50	10	52N.050.R	52.50
16.0	5.5	45°	50	10	52N.055.R	52.50
16.0	6.3	45°	50	10	52N.063.R	52.50

Solid carbide countersink | 53SC

One piece drill
Z=3

Steel shank with carbide body
Designed to give a clean countersunk finish
on all holes from 3mm to 10mm dia.
Ideal for MFC, veneered and foil faced board.



L

R

CNC

MAX RPM
10,000

1-5M

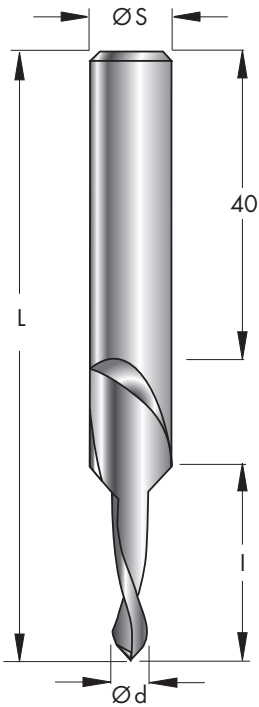
Z=3

D	A	L	S	Part no	£ Price
14	45°	70	10	53SC.140.L	78.75
14	45°	70	10	53SC.140.R	78.75

Solid carbide one piece countersink | 52SC

One piece STC
Z=2

Designed to give a clean hole and
good chip removal.
10mm shank + flat.
Fast feed on chipboard and MDF.
To suit 15 – 18mm board.



L

R

CNC

MAX RPM
10,000

1-3M

Z=2

D	d	A	I	L	S	Part no	£ Price
10	5	90°	19	70	10	52SC.510.L	78.75
10	5	90°	19	70	10	52SC.510.R	78.75
9.5	4.8	90°	19	70	10	52SC.4895.L	78.75
9.5	4.8	90°	19	70	10	52SC.4895.R	78.75



Hinge boring | 14F

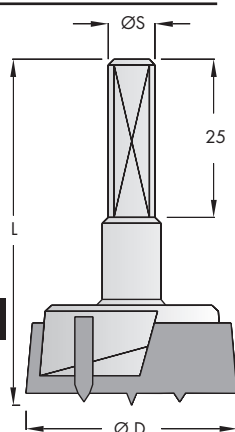
TCT Boring bits, 2 wing,
2 spur + centre point
70mm overall length
Z=2 + V2 + CP

Z=2+2

CNC



MAX RPM
6,000



Left hand rotation

D	L	S	Part no	£ Price
15	70	10	14F.150.L	30.80
16	70	10	14F.160.L	30.80
18	70	10	14F.180.L	37.70
19	70	10	14F.190.L	37.70
20	70	10	14F.200.L	33.35
21	70	10	14F.210.L	37.70
22	70	10	14F.220.L	37.70
25	70	10	14F.250.L	34.80
26	70	10	14F.260.L	34.80
30	70	10	14F.300.L	36.10
32	70	10	14F.320.L	39.40
35	70	10	14F.350.L	38.00
40	70	10	14F.400.L	46.90

Right hand rotation

D	L	S	Part no	£ Price
15	70	10	14F.150.R	30.80
16	70	10	14F.160.R	30.80
18	70	10	14F.180.R	37.70
19	70	10	14F.190.R	37.70
20	70	10	14F.200.R	33.35
21	70	10	14F.210.R	37.70
22	70	10	14F.220.R	37.70
25	70	10	14F.250.R	34.80
26	70	10	14F.260.R	34.80
30	70	10	14F.300.R	36.10
32	70	10	14F.320.R	39.40
35	70	10	14F.350.R	38.00
40	70	10	14F.400.R	46.90

Hinge boring | 14B

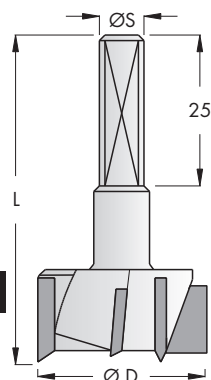
TCT Boring bit, 3 wing,
3 spur + centre point
57mm overall length
Z=3 + V3 + CP

Z=3+3

CNC



MAX RPM
6,000



Left hand rotation

D	L	S	Part no	£ Price
25	57.5	10	14B.250.L	43.25
26	57.5	10	14B.260.L	43.25
30	57.5	10	14B.300.L	45.85
35	57.5	10	14B.350.L	47.25
40	57.5	10	14B.400.L	49.85

Right hand rotation

D	L	S	Part no	£ Price
25	57.5	10	14B.250.R	43.25
26	57.5	10	14B.260.R	43.25
30	57.5	10	14B.300.R	45.85
35	57.5	10	14B.350.R	47.25
40	57.5	10	14B.400.R	49.85



Hinge boring | 14D

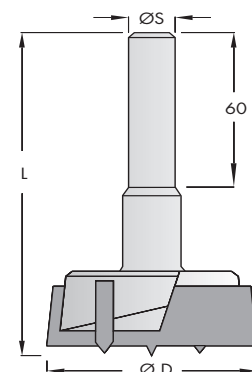
TCT Boring bits, 2 wing,
2 spur + centre point
90mm overall length
Z=2 + V2 + CP

Z=2+2

CNC



MAX RPM
6,000

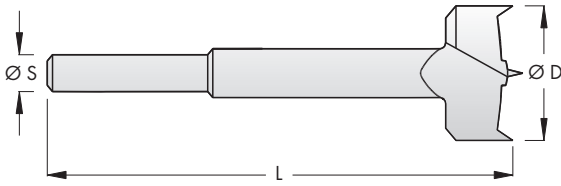


Right hand rotation

D	L	S	Part no	£ Price
15	90	10	14D.150	30.80
16	90	10	14D.160	30.80
18	90	10	14D.180	33.35
20	90	10	14D.200	33.35
22	90	10	14D.220	33.35
24	90	10	14D.240	34.80
25	90	10	14D.250	34.80
26	90	10	14D.260	34.80
28	90	10	14D.280	34.80
30	90	10	14D.300	36.10
32	90	10	14D.320	36.10
34	90	10	14D.340	37.70
35	90	10	available in 1/2" shank 14D.350	37.70
36	90	10	14D.360	44.00
38	90	10	14D.380	45.25
40	90	10	14D.400	48.10
45	90	10	14D.450	55.65
50	90	10	14D.500	71.85
55	90	10	14D.550	93.85
60	90	10	14D.600	104.30
65	90	12.7	14D.650	114.10

HSS Boring Bit | 130A

HSS Two wing, 2 Spur + centre point
8mm and 10mm shanks



MAX RPM
3,000



Designed for drilling pine, low density timbers and hardwoods at slower speeds.

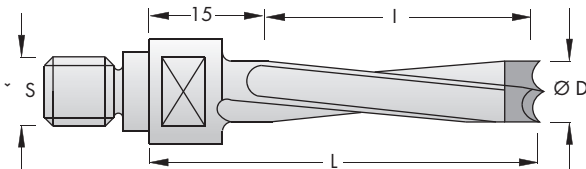
Right hand rotation

D	L	S	Part no	£ Price
15	105	8	130A.150	22.10
16	105	8	130A.160	22.10
18	105	8	130A.180	19.45
20	105	8	130A.200	23.80
22	105	8	130A.220	24.15
24	105	8	130A.240	27.95
25	105	8	130A.250	29.85
26	105	8	130A.260	36.20
28	105	10	130A.280	35.90
30	105	10	130A.300	37.00
35	105	10	130A.350	48.20

Lip and Spur x M10 Thread | 50R

TCT 50R Range of three drill lengths
Left and right hand on a metric 10mm thread
4 flute

A range of threaded shank Lip and Spur drills used on Multi bores and Point to Point machines. Ideal for close centre drilling. Please state make of machine.



CNC



PTFE

Also available in tapered threaded shanks.

MAX RPM
6,000

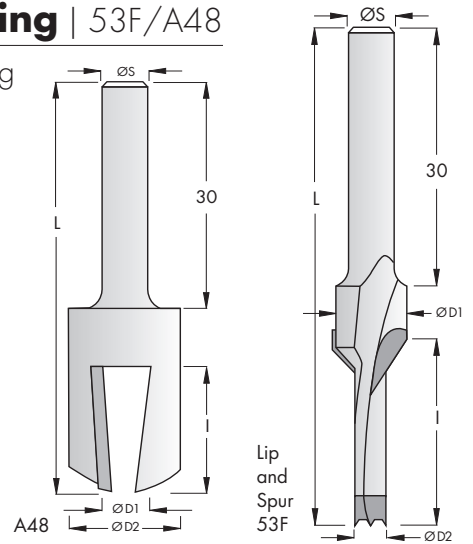


D	I	L	S	Left hand rotation Part no	Right hand rotation Part no	£ Price
5	30	45	M10x1.5	50R.050.LB	50R.050.RB	30.50
5	40	55	M10x1.5	50R.050.LC	50R.050.RC	32.00
5	50	65	M10x1.5	50R.050.LD	50R.050.RD	34.65
6	30	45	M10x1.5	50R.060.LB	50R.060.RB	30.95
6	40	55	M10x1.5	50R.060.LC	50R.060.RC	32.25
6	50	65	M10x1.5	50R.060.LD	50R.060.RD	37.85
8	30	45	M10x1.5	50R.080.LB	50R.080.RB	32.00
8	40	55	M10x1.5	50R.080.LC	50R.080.RC	34.35
8	50	65	M10x1.5	50R.080.LD	50R.080.RD	39.85
10	30	45	M10x1.5	50R.100.LB	50R.100.RB	36.45
10	40	55	M10x1.5	50R.100.LC	50R.100.RC	33.15
10	50	65	M10x1.5	50R.100.LD	50R.100.RD	44.80
12	30	45	M10x1.5	50R.120.LB	50R.120.RB	37.10
12	40	55	M10x1.5	50R.120.LC	50R.120.RC	38.85
12	50	65	M10x1.5	50R.120.LD	50R.120.RD	46.10

Plug making | 53F/A48

TCT Plug making
drill sets
Z=2

A drill and countersink
with matching plug
making cutters.



Z=2



MAX RPM
9,000

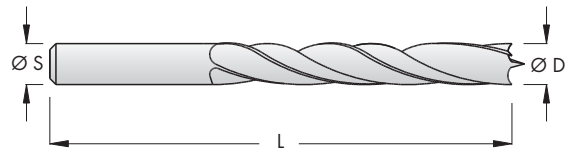
3M

D1	D2	I	L	S	Part no	£ Price
9.5	4.8	20	65	6.35	53F.095	52.60
12	5.5	20	65	6.35	53F.012	52.60
16	6.35	20	65	6.35	53F.016	52.60

D1	D2	I	L	S	Part no	£ Price
9.5	16	16	58	6.35	A48.95	55.60
12	22	16	58	6.35	A48.12	55.60
16	25	18	58	6.35	A48.16	55.60

Lip and spur jobber drills | 120A

HSS lip and spur twist drills



MAX RPM
6,000



Can be used in conjunction with the drill adaptors, page 27.

D	L	S	Part no	£ Price
3	60	3	120A.030	6.45
3.5	70	3.5	120A.035	7.35
4	75	4	120A.040	7.35
4.5	80	4.5	120A.045	7.65
5	85	5	120A.050	7.65
5.5	90	5.5	120A.055	7.65
6	95	6	120A.060	7.65
6.5	100	6.5	120A.065	8.95
7	110	7	120A.070	11.05
7.5	110	7.5	120A.075	11.05
8	115	8	120A.080	9.95
8.5	115	8.5	120A.085	11.55
9	125	9	120A.090	11.05
9.5	125	9.5	120A.095	11.55
10	130	10	120A.100	11.55
11	140	10	120A.110	12.25
12	150	10	120A.120	12.25
14	150	10	120A.140	19.20
15	150	10	120A.150	19.20
16	150	10	120A.160	19.20

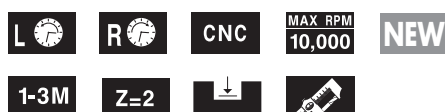
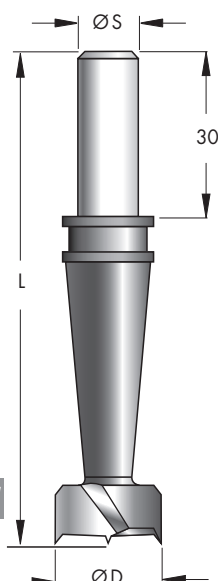
High Performance Drills

Solid carbide hinge boring tools | 15A/15F

15mm – 35mm cutter
2W2S + centre point

Solid carbide head gives extra relief and high feed rates and performance.

Radius spur design gives superb quality finish.



Left hand rotation

D	L	S	Part no	£ Price
15	57	10	15A.150.L	41.60
20	57	10	15A.200.L	56.05
25	57	10	15A.250.L	62.15
30	57	10	15A.300.L	72.00
35	57	10	15A.350.L	100.05

Right hand rotation

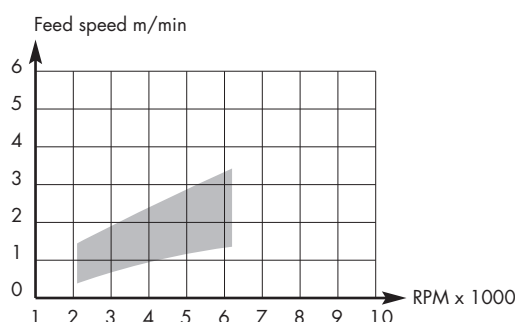
D	L	S	Part no	£ Price
15	57	10	15A.150.R	41.60
20	57	10	15A.200.R	56.05
25	57	10	15A.250.R	62.15
30	57	10	15A.300.R	72.00
35	57	10	15A.350.R	100.05

Left hand rotation

D	L	S	Part no	£ Price
15	70	10	15F.150.L	42.50
20	70	10	15F.200.L	57.95
25	70	10	15F.250.L	63.70
30	70	10	15F.300.L	76.90
35	70	10	15F.350.L	102.35

Right hand rotation

D	L	S	Part no	£ Price
15	70	10	15F.150.R	42.50
20	70	10	15F.200.R	57.95
25	70	10	15F.250.R	63.70
30	70	10	15F.300.R	76.90
35	70	10	15F.350.R	102.35

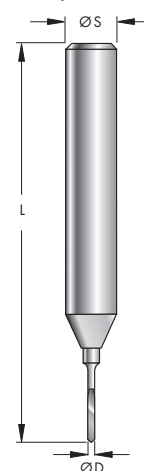


Use feed and RPM speeds within shaded area.



Spotting drills dual rotation | SPL/SPM

These drills are design to run left or right hand rotation and are for 'spotting' or marking panel material and are for 'spotting' or discretionary pilot holes in kitchen end panels or flat pack furniture.



D	I	L	S	Part no	£ Price
1.5	10	57	10	SPL15	28.50

D	I	L	S	Part no	£ Price
1.5	10	70	10	SPM15	32.45

Lip and Spur | 60L

Fast feed TCT Special Lip and Spur drills

Radius spurs give clean 'stop' holes on veneers, foils and gloss finish boards.

Feed Rate: 1-5 metre per minute.

With end adjusting screws.

Quick release pull studs available for this range.



Left hand rotation				Part no	£ Price
D	I	L	S		
5	30	57.5	10	60L.050.L	16.70
6	30	57.5	10	60L.060.L	16.70
8	30	57.5	10	60L.080.L	18.45
10	30	57.5	10	60L.100.L	19.75
12	30	57.5	10	60L.120.L	22.65

Right hand rotation				Part no	£ Price
D	I	L	S		
5	30	57.5	10	60L.050.R	16.70
6	30	57.5	10	60L.060.R	16.70
8	30	57.5	10	60L.080.R	18.45
10	30	57.5	10	60L.100.R	19.75
12	30	57.5	10	60L.120.R	22.65

Lip and Spur | 60M

Fast feed TCT Special Lip and Spur drills

Radius spurs give clean 'stop' holes on veneers, foils and gloss finish boards.

Feed Rate: 1-5 metre per minute.

With end adjusting screws.

Quick release pull studs available for this range.



Left hand rotation				Part no	£ Price
D	I	L	S		
5	35	70	10	60M.050.L	17.65
6	35	70	10	60M.060.L	18.55
7	35	70	10	60M.070.L	23.90
8	35	70	10	60M.080.L	19.50
10	35	70	10	60M.100.L	20.90
12	35	70	10	60M.120.L	23.90

Right hand rotation				Part no	£ Price
D	I	L	S		
5	35	70	10	60M.050.R	17.65
6	35	70	10	60M.060.R	18.55
7	35	70	10	60M.070.R	23.90
8	35	70	10	60M.080.R	19.50
10	35	70	10	60M.100.R	20.90
12	35	70	10	60M.120.R	23.90

Lip and Spur | 70L

Solid carbide STC spiral section brazed into a steel shank

These tools give an exact diameter hole with no vibration or deflection. Super fast feed rates are possible. Part of the new generation of Calibre/Ful drills that will give a perfect finish in any materials. Minimum 10 times longer sharpening life.

Feed rate: 1-6 metres per minute.

Colour coded rings:

Black right hand | Orange left hand.

With end adjusting screws.



Left hand rotation				Part no	£ Price
D	I	L	S		
3	18	57.5	10	70L.030.L	19.45
3.5	18	57.5	10	70L.035.L	20.35
4	27	57.5	10	70L.040.L	20.20
5	27	57.5	10	70L.050.L	20.90
6	27	57.5	10	70L.060.L	21.50
8	27	57.5	10	70L.080.L	23.10
10	27	57.5	10	70L.100.L	52.15

Right hand rotation				Part no	£ Price
D	I	L	S		
3	18	57.5	10	70L.030.R	19.45
3.5	18	57.5	10	70L.035.R	20.35
4	27	57.5	10	70L.040.R	20.20
5	27	57.5	10	70L.050.R	20.90
6	27	57.5	10	70L.060.R	21.50
8	27	57.5	10	70L.080.R	23.10
10	27	57.5	10	70L.100.R	52.15

Lip and Spur | 70M

Solid carbide STC spiral section brazed into a steel shank

These tools give an exact diameter hole with no vibration or deflection. Super fast feed rates are possible. Part of the new generation of Calibre/Ful drills that will give a perfect finish in any materials.

Feed rate: 1-6 metres per minute.

Colour coded rings: Black right hand | Orange left hand.

With end adjusting screws.

Quick release pull studs available for this range.



Left hand rotation				Part no	£ Price
D	I	L	S		
3	30	70	10	70M.030.L	20.75
3.5	30	70	10	70M.035.L	22.90
4	37	70	10	70M.040.L	21.65
5	37	70	10	70M.050.L	22.40
6	37	70	10	70M.060.L	24.60
7	37	70	10	70M.070.L	27.30
8	37	70	10	70M.080.L	25.30
10	37	70	10	70M.100.L	66.65

Right hand rotation				Part no	£ Price
D	I	L	S		
3	30	70	10	70M.030.R	20.75
3.5	30	70	10	70M.035.R	22.90
4	37	70	10	70M.040.R	21.65
5	37	70	10	70M.050.R	22.40
6	37	70	10	70M.060.R	24.60
7	37	70	10	70M.070.R	27.30
8	37	70	10	70M.080.R	25.30
10	37	70	10	70M.100.R	66.65

'V' point | 70Q

Solid carbide STC spiral section
brazed into steel shank

These tools will drill exact through holes
without break out or 'blown effect'.
The solid carbide prevents vibration or deflection.
These drills will run at 5-6m feed rate.
Colour coded rings:
Black right hand | Orange left hand.
60° 'V' point.

Quick release pull studs available for this range.

Less deflection
Less vibration
Longer tool life



Left hand rotation

D	I	L	S	Part no	£ Price
3	35	70	10	70Q.030.L	20.75
3.5	35	70	10	70Q.035.L	26.15
4	35	70	10	70Q.040.L	21.60
5	35	70	10	70Q.050.L	22.40
6	35	70	10	70Q.060.L	24.60
7	35	70	10	70Q.070.L	27.30
8	35	70	10	70Q.080.L	25.30
10	35	70	10	70Q.100.L	66.65

Right hand rotation

D	I	L	S	Part no	£ Price
3	35	70	10	70Q.030.R	20.75
3.5	35	70	10	70Q.035.R	26.15
4	35	70	10	70Q.040.R	21.60
5	35	70	10	70Q.050.R	22.40
6	35	70	10	70Q.060.R	24.60
7	35	70	10	70Q.070.R	27.30
8	35	70	10	70Q.080.R	25.30
10	35	70	10	70Q.100.R	66.65

'V' point | 70W

Solid carbide long series
'V' point drills

These tools will drill exact through holes without
break out or 'blown effect'. The solid carbide
prevents vibration or deflection.
These drills will run at 5-6m feed rate.

Colour coded rings:
Black right hand | Orange left hand.

60° 'V' point.

Ideal for drilling High Pressure Laminates.

Quick release pull studs available for this range.

Less deflection
Less vibration
Longer tool life



Left hand rotation

D	I	L	S	Part no	£ Price
5	42	77	10	70W.050.L	28.60
6	42	77	10	70W.060.L	28.80
8	42	77	10	70W.080.L	29.90

Right hand rotation

D	I	L	S	Part no	£ Price
5	42	77	10	70W.050.R	28.60
6	42	77	10	70W.060.R	28.80
8	42	77	10	70W.080.R	29.90

Special 'V' point | 61Q

TCT double 'V' point drill section

These drills are excellent when drilling foil, powder coated
chipboard and MDF. The double 'V' Point allows for clean
entry and exit of the board.

45°/60° 'V' point.

Quick release pull studs
available for this range.

Less deflection
Less vibration
Longer tool life



Left hand rotation

D	I	L	S	Part no	£ Price
5	43	70	10	61Q.050.L	30.35
6	43	70	10	61Q.060.L	31.20
7	43	70	10	61Q.070.L	34.00
8	43	70	10	61Q.080.L	32.00
10	43	70	10	61Q.100.L	39.30

Right hand rotation

D	I	L	S	Part no	£ Price
5	43	70	10	61Q.050.R	30.35
6	43	70	10	61Q.060.R	31.20
7	43	70	10	61Q.070.R	34.00
8	43	70	10	61Q.080.R	32.00
10	43	70	10	61Q.100.R	39.30

Special 'V' point | 71Q

Solid carbide
special double 'V' point long shank

Less deflection, less vibration,
longer sharpening life.

Colour coded rings:
Black right hand | Orange left hand.

5°/60° 'V' point

Ideal for drilling
high pressure laminates.

Quick release pull studs
available for this range.

Less deflection
Less vibration
Longer tool life



Left hand rotation

D	I	L	S	Part no	£ Price
5	35	70	10	71Q.050.L	40.05
6	35	70	10	71Q.060.L	42.50
8	35	70	10	71Q.080.L	49.65

Right hand rotation

D	I	L	S	Part no	£ Price
5	35	70	10	71Q.050.R	40.05
6	35	70	10	71Q.060.R	42.50
8	35	70	10	71Q.080.R	49.65

Drills for CNC Routing Machines

(For Collet Use Only)

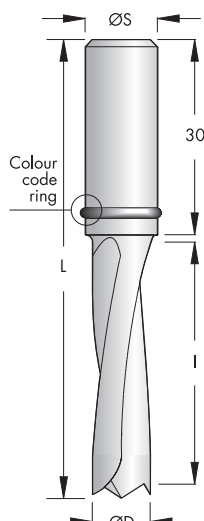
Lip and Spur | 80M

Solid carbide STC spiral section brazed into a steel shank

These tools give an exact diameter hole with no vibration or deflection. Super fast feed rates are possible. Part of the new generation of Calibre/Ful drills that will give a perfect finish in any materials. Feed rate: 1–6 metres per minute.

Colour coded rings:
Black right hand
Orange left hand

For use in collet chuck systems.



A range of lip and spur drills with no flat on the shank



Left hand rotation

D	I	L	S	Part no	£ Price
3	30	70	10	80M.030.L	24.85
3.5	30	70	10	80M.035.L	25.35
4	37	70	10	80M.040.L	25.95
5	37	70	10	80M.050.L	26.50
6	37	70	10	80M.060.L	27.60
7	37	70	10	80M.070.L	28.15
8	37	70	10	80M.080.L	28.15
10	37	70	10	80M.100.L	68.40

Right hand rotation

D	I	L	S	Part no	£ Price
3	30	70	10	80M.030.R	24.85
3.5	30	70	10	80M.035.R	25.35
4	37	70	10	80M.040.R	25.95
5	37	70	10	80M.050.R	26.50
6	37	70	10	80M.060.R	27.60
7	37	70	10	80M.070.R	28.15
8	37	70	10	80M.080.R	28.15
10	37	70	10	80M.100.R	68.40

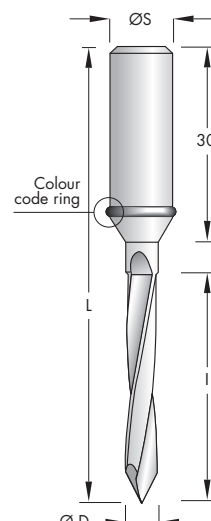
'V' point | 80Q

Solid carbide STC spiral section brazed into steel shank

These tools will drill exact through holes without break out or 'blown effect'. The solid carbide prevents vibration or deflection. These drills will run at 1–6m feed rate.

Colour coded rings:
Black right hand
Orange left hand

For use in collet chuck systems.



A range of 'V' point drills with no flat on the shank



Left hand rotation

D	I	L	S	Part no	£ Price
3	35	70	10	80Q.030.L	24.85
3.5	35	70	10	80Q.035.L	25.35
4	35	70	10	80Q.040.L	25.95
5	35	70	10	80Q.050.L	26.50
6	35	70	10	80Q.060.L	27.60
7	35	70	10	80Q.070.L	28.15
8	35	70	10	80Q.080.L	28.15
10	35	70	10	80Q.100.L	68.40

Right hand rotation

D	I	L	S	Part no	£ Price
3	35	70	10	80Q.030.R	24.85
3.5	35	70	10	80Q.035.R	25.35
4	35	70	10	80Q.040.R	25.95
5	35	70	10	80Q.050.R	26.50
6	35	70	10	80Q.060.R	27.60
7	35	70	10	80Q.070.R	28.15
8	35	70	10	80Q.080.R	28.15
10	35	70	10	80Q.100.R	68.40

These drills are to suit 10mm collets ER and ORT type

For our full range of collets see page 40



Solid carbide special dowell drill bits | 72C

Solid carbide STC spiral section
brazed into steel shank
105mm overall length

These tools give an exact diameter hole with no vibration or deflection. Super fast feed rates are possible. Part of the new generation of Calibre/Ful drills that will give a perfect finish in any materials.

Feed rate: 1-6 metres per minute.

Colour coded rings:

Black right hand

Orange left hand

With end adjusting screws.

Quick release pull studs available for this range.

See below for 'V' point version.



D	L	S	I	Part no RH	Part no LH	£ Price
3	105	10X30	70	72C.030.R	72C.030.L	52.95
4	105	10X30	70	72C.040.R	72C.040.L	52.95
5	105	10X30	70	72C.050.R	72C.050.L	52.95
6	105	10X30	70	72C.060.R	72C.060.L	56.85
8	105	10X30	70	72C.080.R	72C.080.L	60.65
10	105	10X30	70	72C.100.R	72C.100.L	93.75

Solid carbide special dowell drill bits | 73M

Solid carbide deep flute
for fast chip removal
105mm overall length

Ideal for solid timber drilling



D	L	S	I	Part no RH	Part no LH	£ Price
4	105	10	70	73M.040.R	73M.040.L	57.35
5	105	10	70	73M.050.R	73M.050.L	60.65
6	105	10	70	73M.060.R	73M.060.L	63.45
8	105	10	70	73M.080.R	73M.080.L	67.00
10	105	10	70	73M.100.R	73M.100.L	97.65
12	105	10	70	73M.120.R	73M.120.L	102.05

Solid carbide special 'V' point drill bits | 72Y

Solid carbide STC spiral section
brazed into steel shank
105mm overall length

These tools give an exact diameter hole with no vibration or deflection. Super fast feed rates are possible. Part of the new generation of Calibre/Ful drills that will give a perfect finish in any materials.

Feed rate: 1-6 metres per minute.

Colour coded rings:

Black right hand

Orange left hand

With end adjusting screws.

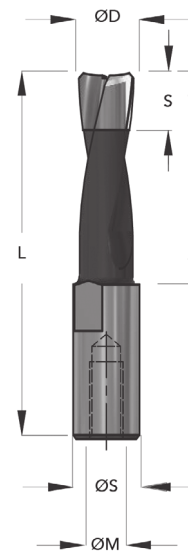
Quick release pull studs available for this range



D	L	S	I	Part no RH	Part no LH	£ Price
3	105	10X30	70	72Y.030.R	72Y.030.L	52.95
4	105	10X30	70	72Y.040.R	72Y.040.L	52.95
5	105	10X30	70	72Y.050.R	72Y.050.L	52.95
6	105	10X30	70	72Y.060.R	72Y.060.L	56.85
8	105	10X30	70	72Y.080.R	72Y.080.L	60.65
10	105	10X30	70	72Y.100.R	72Y.100.L	93.75

TCT Router Domino Drill Bits | 54A/54AA

A dedicated range of drilling and slotting bits
that produces the apertures to take the various
Domino dowel pieces.

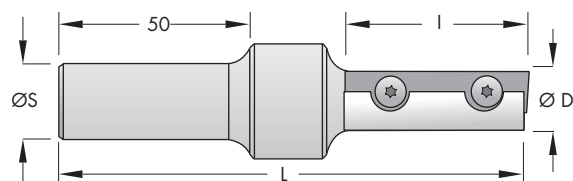


D	S	M	I	L	Part Number	£ Price
4	10	M6x0.75	11	38	54A.040.R	26.50
5	10	M6x0.75	20	49	54A.050.R	24.85
6	10	M6x0.75	28	49	54A.060.R	25.60
8	10	M6x0.75	28	49	54A.080.R	25.95
8	14	M8x1	50	90	54AA.080.R	31.75
10	10	M6x0.75	28	49	54A.100.R	29.30
10	14	M8x1	70	90	54AA.100.R	33.00
12	14	M8x1	70	90	54AA.120.R	35.90
14	14	M8x1	70	90	54AA.140.R	41.90

Replacement tip cutters

TC single flute - light duty | 2C

Replacement tip cutters for CNC machines
Z=2



CNC **MAX RPM 24,000** **Light duty**

D	L	S	Part no	£ Price
12.7	30	75	2C.127.F	POA
14	30	75	2C.140.F	POA
14	50	100	2C.141.F	POA
16	30	75	2C.160.F	POA
16	50	100	2C.161.F	POA
18	30	75	2C.180.F	POA
18	50	100	2C.181.F	POA

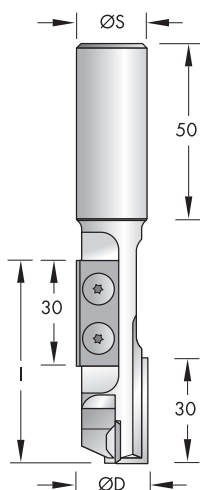
Replacement Tips Cutter Size	Tip Size	Part no	£ Price
12.7 x 30	30 x 6.5 x 1.5	1P.230	POA
14 x 30	30 x 9 x 1.5	1N.319	12.25
14 x 50	50 x 9 x 1.5	1N.519	12.25
16-18 x 30	30 x 12 x 1.5	1N.311	10.20
16-18 x 50	50 x 12 x 1.5	1N.511	8.15

Screws to suit	Part no	£ Price
Screws to suit 10 - 12.7 diameter	IV.002	2.95
Screws to suit 14 - 22 diameter	IV.018	2.95
Torx Screwdrivers	IZ.000	5.25

TC compression | 2F

Up/downcut replacement tip
high performance cutter

These tools use the economical 30 x 12 TC
replacement tips and offer lower costs on
tip replacements.



CNC **Z=1+1** **MAX RPM 18,000** **5-8M**

D	L	S	Tip part no	Part no	£ Price
20	58	20	1N.311	2F.200	POA

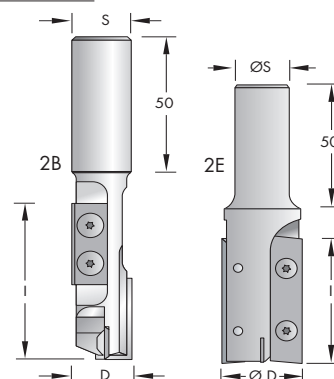
Replacement Tip Size	Tip part no	£ Price
30 x 12 x 1.5	1N.311	10.20

Screw to suit	Tip part no	£ Price
M3.5	IV.018	2.95

TC double flute | 2B/2E

Replacement tip cutters
for CNC machines
double flute

Ideal for finishing panels to a
high finish ready for edging.



CNC **Z=2+1** **MAX RPM 18,000** **5-10M** **Z=1+1**

D	L	S	Tip part no	Part no	£ Price
16	50	20	1N.401	2B.161.R (Z=1+1)	191.10
18	50	20	1N.401	2B.181.R (Z=1+1)	208.40
20	50	20	1N.401	2B.201.R (Z=1+1)	214.20
22	50	20	1N.401	2B.221.R (Z=1+1)	217.00
25	50	20	1N.509	2E.250 (Z=2+1)	317.00
30	50	20	1N.501	2E.300 (Z=2+1)	232.00

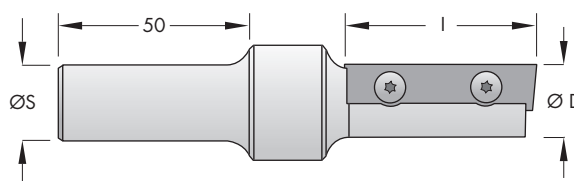
Replacement Tip Size	Tip part no	£ Price
40 x 12 x 1.5	1N.401	7.25
50 x 9 x 1.5	1N.519	12.25
50 x 12 x 1.5	1N.501	7.20
24 x 10 x 1.5 (Plunge Tip)	1N.241	16.85

Replacement Screws	Screw part no	£ Price
M4	IV.002	2.95
M3.5	IV.018	2.95

TC single flute | 2D

Replacement tip cutters for CNC machines
single flute

These tools are balanced for vibration-free cutting.
Single flute RT cutter, ideal for aperture cutting.



CNC **Z=1** **MAX RPM 18,000** **5-10M** **Heavy duty**

D	L	S	Tip part no	Part no	£ Price
12	23	20	1N.319	2D.120	145.00
14	23	20	1N.319	2D.140	145.00
16	30	20	1N.311	2D.160	152.00
16	50	20	1N.519	2D.160.A	163.00
18	30	20	1N.311	2D.180	153.50
18	50	20	1N.511	2D.180.A	168.00
20	30	20	1N.311	2D.200	163.00
20	50	20	1N.511	2D.200.A	175.00

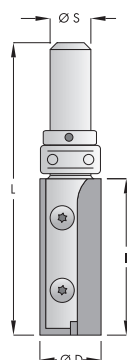
Replacement Tip Size	Tip part no	£ Price
30 x 9 x 1.5	1N.319	12.25
30 x 12 x 1.5	1N.311	10.20
50 x 9 x 1.5	1N.519	12.25
50 x 12 x 1.5	1N.511	8.15

Replacement Screws	Screw part no	£ Price
M3.5	IV.018	2.95

Double flute top bearing guide | 1A60

Replacement tip
top bearing guided trimmers
Z=2

Top bearing guide allows for easy set up on trimming.
For use on portable machines of 800 watts and over.

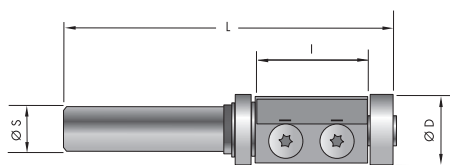


Z=2 **MAX RPM**
18,000

°	D	I	L	S	Part no	£ Price
90°	19	30	75	12.7	1A60.05	112.25
90°	19	50	95	12.7	1A60.06	114.70
Replacement bearing					RR11212ZZ	8.75

Double flute dual bearing guide trimmer 2H.190/2H.191

Replacement tip,
top and bottom
bearing guide trimmer
for use on portable routers
Ideal for 2000 watt machines.



Z=2 **MAX RPM**
18,000

D	I	L	S	Part no	£ Price
19	30	90	12.7	2H.190.F	102.00
19	50	110	12.7	2H.191.F	127.00

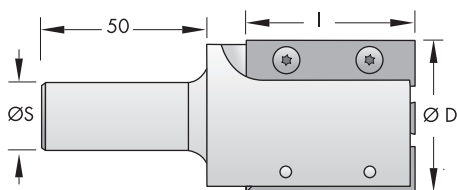
Spares

Replacement knives	30x12	Z=2	1N.301	5.75
Replacement knives	50x12	Z=2	1N.501	8.05
Replacement bearing	19x12.7		RR11212ZZ	8.75
Replacement bearing	19x6mm		626ZZ	7.35
Replacement screw	M4		1V.002	2.95
Replacement screw	M4 (c/sink)		1V.006	2.95

Double flute rebate and edging | 3B

Replacement tip rebate and sizing cutters
Z=2+2

For sizing veneered MDF and MFC giving a clean finish on top and bottom of the material.



CNC **5-12M**
MAX RPM
18,000 **R**

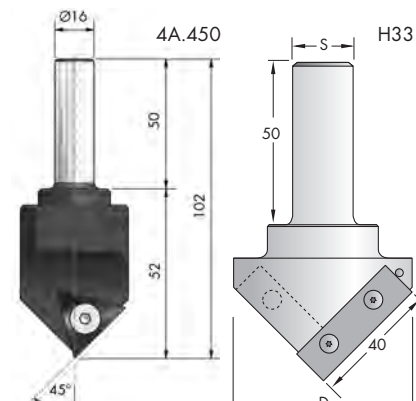
D	I	S	Part no	£ Price
50	30	20 x 50	3B.300	POA
50	50	20 x 50	3B.500	POA
50	60	20 x 50	3B.600	POA

Replacement tip 90° 'V' groove | H33/4A

For 'V' grooving
and bevelling

4A.450 is ideal for
'V' grooving acrylics
and plastics.

Will produce a perfect
'V' groove without a
bottom flat.



CNC **5-8M**

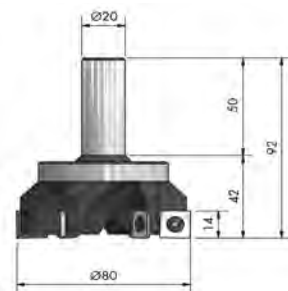
MAX RPM
18,000 **R**

°	D	I	L	S	Z	Part no	£ Price
90°	38	18	70	16	1	4A.450	POA
Replacement tip							22x22x22x2
Replacement torx screw							M5x8
90°	24	12	95	20	1	HR24.450	POA
90°	48	20	100	20	2	H33.450	POA
90°	60	25	105	20	2	H33.450L	POA
Replacement tip							HR24.450
Replacement tip							H33.450
Replacement tip							H33.450
Replacement tip							H33.450L
Replacement tip							H33.450L
Replacement torx screw							M3.5

RT trepanning and surfacing | 4C

6 wing surfacing cutter

Ideal for large rebating and
heavy stock removal.
Designed for spoil board re cutting.
Balanced for high feed rates.



CNC **8-15M** **Z=6**

MAX RPM
12,000 **R**

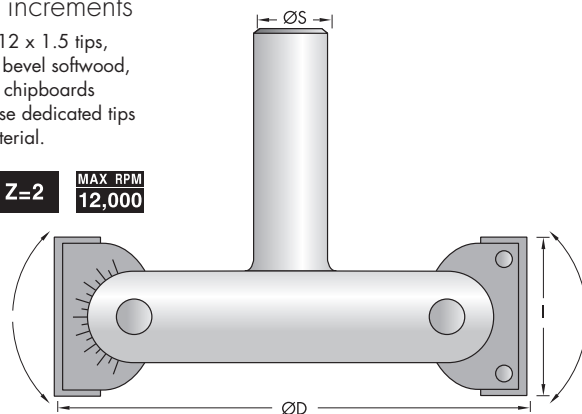
D	I	L	S	Z	Part no	£ Price
55	12	70	16	3	4C.550	POA
80	14	75	20	6	4C.800.G	POA
Replacement tip						14 x 14 x 2

RT vari angle block | H77

With 1° increments

Using 40 x 12 x 1.5 tips,
this tool will bevel softwood,
hardwoods, chipboards
and MDF. Use dedicated tips
for each material.

CNC **Z=2** **MAX RPM**
12,000



D	I	L	S	Part no	£ Price
85	40	100	20	H77.180	POA
Replacement tip size					Tip part no
40 x 12 x 1.5					1N.411

Window and door tooling

Replacement tip euro groove | 5C

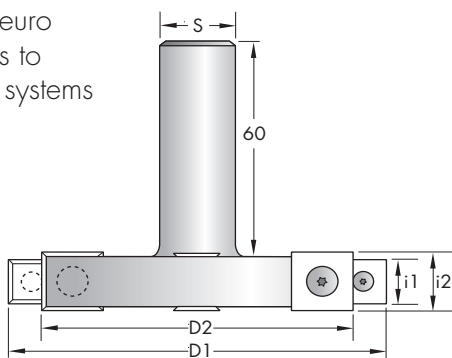
For machining euro groove in doors to accept locking systems

CNC 5-10M

MAX RPM
12,000



Z=2+V2



D1	D2	i1	i2	S	Part no	£ Price
100	81.4	16.3	12.3	20	5C.100	POA
Complete set of replacement knives					5CT.100	POA

RT door bevelling set | 6C

For sizing and chamfering GRP composite faced doors

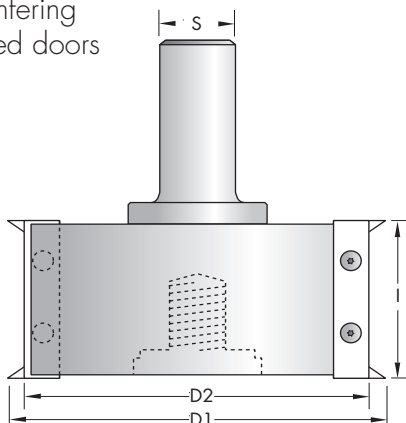
CNC 5-8M

MAX RPM
12,000



Z=2+4

LA



D1	D2	I	S	Part no	£ Price
100		45	20	6C.100	POA
100		50	20	6C.110	POA
100		60	20	6C.120	POA

RT door radius set | 7C

Adjustable from 30 – 50 thickness for soft finishing and sizing doors

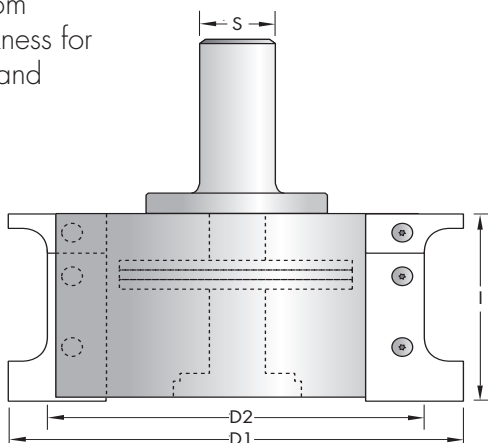
CNC 5-8M

MAX RPM
12,000



Z=2+4

LA



D1	D2	I	S	Part no	£ Price
120		30-50	20	7C.100	POA

Double flute sizing | 4B

Compression sizing cutter

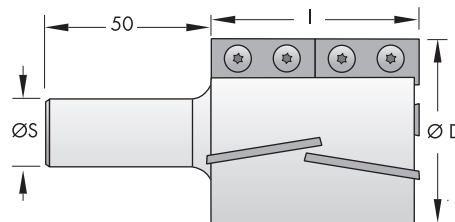
Z=2+2

Fitted with scribes for clean finish on rebate.

A perfect tool for door and panel sizing, up and down shear action leaves a burr free finish.

CNC 5-12M

MAX RPM
12,000



D	I	S	Part no	£ Price
80	56	20 x 50	4B.800	POA
Replacement tip size			Tip part no	£ Price
14 x 14 x 2			1N.141	4.10
30 x 12 x 1.5			1N.301	5.80
50 x 12 x 1.5			1N.501	8.05
60 x 12 x 1.5			1N.601	7.95

3B.500 cutter



Precision collets | 5 micron accuracy

Spring collets for CNC machines

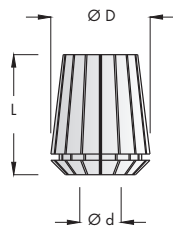
For range of chucks to suit these collets see page 38.

Remember to replace your collets regularly to avoid cutter breakage and vibration.

Poor collets give a poor finish and cause premature breakages.

All collets tested to run at 25,000.

Using collets below 5 micron accuracy can cause vibration and elliptical cutting action.



All collets now coated to prevent corrosion

Type ER16 collets

d	D	L	Part no	£ Price
3	17	28	0069.030	37.70
4	17	28	0069.040	37.70
5	17	28	0069.050	37.70
6	17	28	0069.060	37.70
NEW 6.35	17	28	0069.635	37.70
7	17	28	0069.070	37.70
8	17	28	0069.080	37.70
9	17	28	0069.090	37.70
10	17	28	0069.100	37.70

Type ER25 collets

d	D	L	Part no	£ Price
3	26	34	0067.030	37.70
4	26	34	0067.040	37.70
5	26	34	0067.050	37.70
6	26	34	0067.060	37.70
6.35	26	34	0067.635	37.70
7	26	34	0067.070	37.70
8	26	34	0067.080	37.70
9	26	34	0067.090	37.70
10	26	34	0067.100	37.70
12	26	34	0067.120	37.70
12.7	26	34	0067.127	37.70
16	26	34	0067.160	37.70

Type ER32 collets

d	D	L	Part no	£ Price
3	33	40	0070.030	35.10
4	33	40	0070.040	35.10
5	33	40	0070.050	35.10
6	33	40	0070.060	35.10
6.35	33	40	0070.635	35.10
7	33	40	0070.070	35.10
8	33	40	0070.080	35.10
9	33	40	0070.090	35.10
9.5	33	40	0070.095	35.10
10	33	40	0070.100	35.10
11	33	40	0070.110	35.10
12	33	40	0070.120	35.10
12.7	33	40	0070.127	35.10
13	33	40	0070.130	35.10
14	33	40	0070.140	35.10
15	33	40	0070.150	35.10
16	33	40	0070.160	35.10
17	33	40	0070.170	35.10
18	33	40	0070.180	35.10
19	33	40	0070.190	35.10
20	33	40	0070.200	35.10

Type ETS32 and ETS40 collets

Type	Part no	£ Price
ETS32 All sizes	0073	72.40
ETS40 All sizes	0074	78.25

Type ER20 collets

d	D	L	Part no	£ Price
3	21	31.5	0068.030	37.70
4	21	31.5	0068.040	37.70
5	21	31.5	0068.050	37.70
6	21	31.5	0068.060	37.70
6.35	21	31.5	0068.635	37.70
7	21	31.5	0068.070	37.70
8	21	31.5	0068.080	37.70
9	21	31.5	0068.090	37.70
10	21	31.5	0068.100	37.70
12	21	31.5	0068.120	37.70
12.7	21	31.5	0068.127	37.70

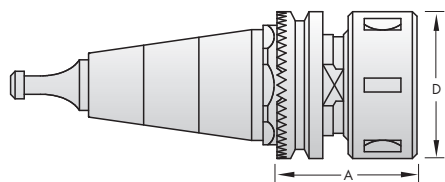
Type ER40 collets

d	D	L	Part no	£ Price
3	41	46	0071.030	48.70
4	41	46	0071.040	48.70
5	41	46	0071.050	48.70
6	41	46	0071.060	48.70
6-35	41	46	0071.635	48.70
7	41	46	0071.070	48.70
8	41	46	0071.080	48.70
9	41	46	0071.090	48.70
9.5	41	46	0071.095	48.70
10	41	46	0071.100	48.70
11	41	46	0071.110	48.70
12	41	46	0071.120	48.70
12.7	41	46	0071.127	48.70
13	41	46	0071.130	48.70
14	41	46	0071.140	48.70
15	41	46	0071.150	48.70
16	41	46	0071.160	48.70
17	41	46	0071.170	48.70
18	41	46	0071.180	48.70
19	41	46	0071.190	48.70
20	41	46	0071.200	48.70
25	41	46	0071.250	48.70
30	41	46	0071.300	48.70

Type ORT/462E collets

d	D	L	Part no	£ Price
3	35	52	0072.030	50.40
4	35	52	0072.040	50.40
5	35	52	0072.050	50.40
6	35	52	0072.060	50.40
6.35	35	52	0072.635	50.40
7	35	52	0072.070	50.40
8	35	52	0072.080	50.40
9	35	52	0072.090	50.40
10	35	52	0072.100	50.40
11	35	52	0072.110	50.40
12	35	52	0072.120	50.40
12.7	35	52	0072.127	50.40
13	35	52	0072.130	50.40
14	35	52	0072.140	50.40
15	35	52	0072.150	50.40
16	35	52	0072.160	50.40
17	35	52	0072.170	50.40
18	35	52	0072.180	50.40
19	35	52	0072.190	50.40
20	35	52	0072.200	50.40
25	35	52	0072.250	50.40

CNC ISO and HSK chucks



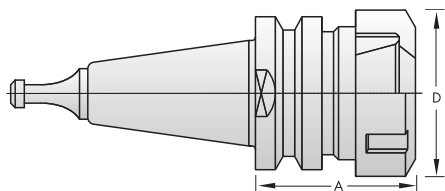
Chucks for CNC routing machines 0062/150 30

Right and left hand

S	D	A	Collet Type	Part no	£ price
ISO30	50	55	ER32/0070	0080.700.R	182.00
ISO30	50	55	ER32/0070	0080.700.L (L.H.)	182.00
ISO30	50	55	ER32/0070	0080.702.R (with bearing)	258.30
ISO30	60	72	ORT/0072	0080.701.R	250.95
ISO30	60	72	ORT/0072	0080.711.L (L.H.)	250.95
ISO30	60	72	ORT/0072	0080.711.R (with bearing)	324.45

For SCM and Morbidelli machines.

Chuck prices include pull studs, see below.



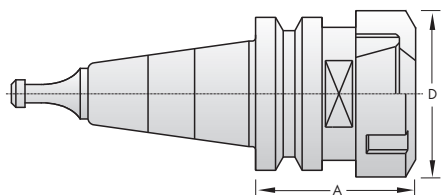
Chucks for CNC routing machines 0063/150 30

Right and left hand

S	D	A	Collet Type	Part no	£ price
ISO30	50	50	ER32/0070	0080.800.R	146.20
ISO30	50	50	ER32/0070	0080.800.L (L.H.)	146.20
ISO30	50	50	ER32/0070	0080.802.R (with bearing)	291.90
ISO30	63	50	ER40/0071	0080.830.R	209.50
ISO30	63	50	ER40/0071	0080.830.L (L.H.)	209.50
ISO30	63	50	ER40/0071	0080.832.R (with bearing)	313.95

For Biesse, Masterwood and Bulleri.

Chuck prices include pull studs, see next column.



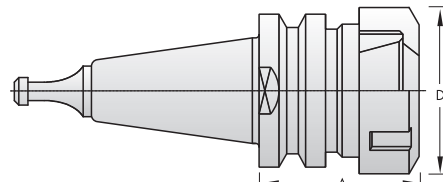
Chucks for CNC routing machines 0064/150 30

Right and left hand

S	D	A	Collet Type	Part no	£ price
ISO30	50	60	ER32/0070	0080.810.R	148.90
ISO30	50	60	ER32/0070	0080.810.L (L.H.)	148.90
ISO30	50	60	ER32/0070	0080.812.R (with bearing)	291.90
ISO30	63	60	ER40/0071	0080.814.R	214.20
ISO30	63	60	ER40/0071	0080.814.L (L.H.)	214.20
ISO30	63	60	ER40/0071	0080.816.R	313.95
ISO30	50	60	ER32/0070	0080.820.R	148.85
ISO30	50	60	ER32/0070	0080.820.L (L.H.)	148.85
ISO30	50	60	ER32/0070	0080.820.R (with bearing)	291.90
ISO30	63	60	ER40/0071	0080.820.R	214.20
ISO30	63	60	ER40/0071	0080.820.L (L.H.)	214.20
ISO30	63	60	ER40/0071	0080.820.R	313.95

For Alberti, Vitap, Masterwood, Busellato, Weeke, and Reichenbacher

Chuck prices include pull studs, see next column.



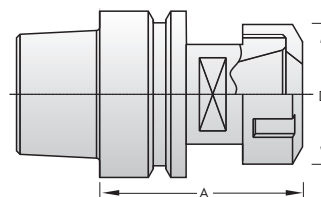
Chucks for CNC routing machines 0065/150 30

Right and left hand

S	D	A	Collet Type	Part no	£ price
ISO40	50	50	ER32/0070	0080.850.R	308.70
ISO40	50	50	ER32/0070	0080.850.L (L.H.)	308.70
ISO40	50	50	ER32/0070	0080.852.R (with bearing)	324.45
ISO40	63	60	ER40/0071	0080.870.R	341.25
ISO40	63	60	ER40/0071	0080.872.R (with bearing)	374.85

For Ima, Weeke, Maka, and Reichenbacher.

Chuck prices include pull studs, see below.



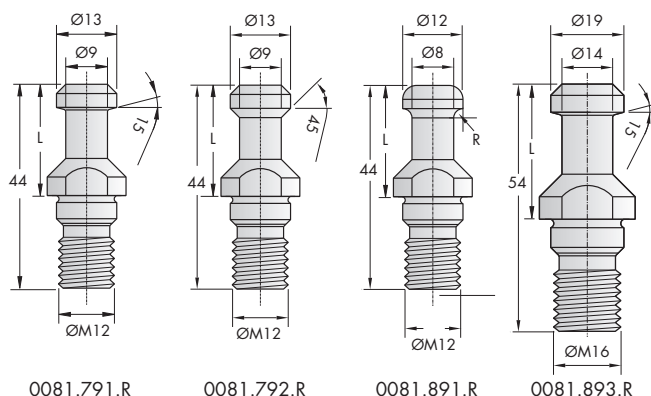
HSK chucks for CNC routing machines

Right and left hand

S	D	A	Collet Type	Part no	£ price
HSK63F	50	76	ER32/0070	0080.976.R	157.50
HSK63F	50	76	ER32/0070	0080.976.L	157.50
HSK63F	50	76	ER32/0070	0080.978.R•	168.00
HSK63F	63	76	ER40/0071	0080.980.R	173.30
HSK63F	63	76	ER40/0071	0080.980.L	173.30
HSK63F	63	76	ER40/0071	0080.982.R•	178.50
HSK63F	60	76	ORT/0072	0080.984.R•	231.00
HSK63F	63	76	ETS40/0074	0080.988.R	262.50

For SCM, Biesse, Weeke • with lock nut bearing

Pull studs for CNC chucks



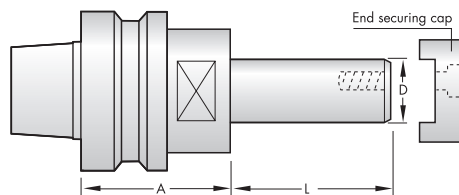
S	L	Machine	Part no	£ Price
ISO30	22	Morbidelli, SCM	0081.790.R	25.95
ISO30	24	Ima, Busellato, Biesse, Weeke	0081.791.R	25.95
ISO30	24	Alberti, Masterwood, Bulleri	0081.792.R	25.95
ISO30	24	Masterwood, Bulleri, Biesse	0081.891.R	25.95
ISO40	26	SCM, Reichenbacher, Maka, IMA	0081.893.R	25.95

Please state make and model of machine to ensure correct pull stud selection.

Arbor system | HSK63F

When purchasing arbor systems please give exact depth of cutting tool to ensure correct spacer length and accurate securing of the cutting tool. Arbor supplied with End Securing Cap.

- Ideal for mounting Euro-Block



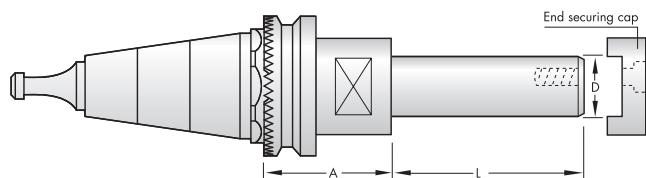
D1	D	L	A	Type	Part no	£ price
63	30	40	42	HSK63F	• 0080.110.000	POA
63	30	70	42	HSK63F	0080.110.001	POA
63	30	100	42	HSK63F	0080.110.002	POA

Spacers to suit D=40mm

Arbor system | ISO30

For SCM/Morbidelli

When purchasing arbor systems please give exact depth of cutting tool to ensure correct spacer length and accurate securing of the cutting tool. Arbor supplied with End Securing Cap.

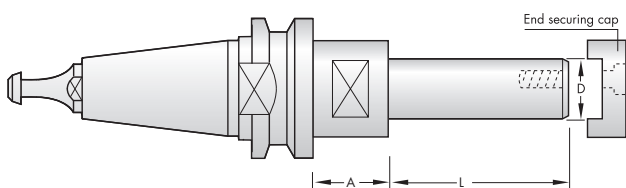


D	L	A	Type	Part no	£ price
30	70	35	ISO30 Taper	0080.100.001	POA
30	100	35	ISO30	0080.100.002	POA

Arbor system | ISO30

For machine centres

When purchasing please state machine type.
Also available in ISO40 Taper (please state machine).



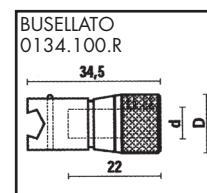
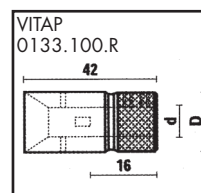
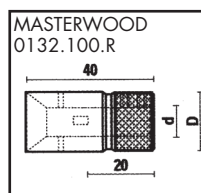
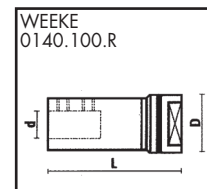
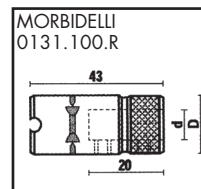
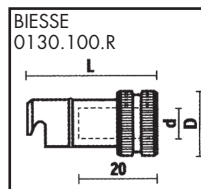
D	L	A	Type	Part no	£ price
30	70	35	ISO30	0080.111	POA
30	100	35	ISO30	0080.112	POA

Toolholders for ISO30 and HSK63F chucks available, POA.

Quick release chucks | 0131-0140

Quick release chucks designed to suit all makes of boring machines.

d	D	L	Left hand Part no	Right hand Part no	Machine	£ Price
10	20	37	0130.100.L	0130.100.R	BIESSE	32.55
10	20	30	0130.101.L	0130.101.R	BIESSE	32.55
10	20	43	0131.102.L	0131.102.R	MORBIDELLI	32.55
10	20	43	–	0131.100.R	MORBIDELLI	32.55
10	20	40	–	0132.100.R	MASTERWOOD, MAGGI, GRIGGO	32.55
10	18	42	–	0133.100.R	VITAP	32.55
10	19	34.5	–	0134.100.R	BUSELLATO	32.55
10	20	46	–	0140.100.R	WEEKE	32.55



Variable hydraulic drill chuck | HSK63F

A very useful addition to any CNC machine, a hydraulic locking three jaw chuck system that takes drills from 1mm to 13mm diameter.

Ideal for prototype and special one off production work.

Using low cost jobber drills, components can be drilled and evaluated prior to the development of a production schedule.



S	D	Drill range	Part no	£ price
NEW HSK63F	50	1 – 13	0080.900	POA

HSK63F
variable hydraulic drill chuck
Drill bit range 1mm – 13mm



	page		page		page
Aluminium cutters	13	Hinge boring bits 3W3S + CP	30	Staggertooth cutters	3
Ball nose roughing Z=3	14	HSS boring bits	31	Stair housing cutter	5
Ball nose Z=2	12	HSS Drills	31	Super spiral range	16 – 20
Ball nose Z=2, long series	12	HSS Lip & spur twist drills	31	op bearing profile cutters	4
Boring bits & carbide drills RH & LH	22 – 34	Laminate trimmer replacement tip	4	Trepanning cutter	38
Chamfer cutter	5	Laminate trimmer with bearing	3,4	Triple flute guided bearing	4
Chamfer spiral finishing 60°	14	Lip & spur oal 55mm – 8mm shank	24	Upcut spiral Z=1/Z=2	11
Chamfer spiral roughing 60° Z=3	14	Lip & spur oal 67mm – 8mm shank	24	Upcut spiral Z=2	3
Chamfer trimmer with bearing	4	Lip & spur oal 57.5mm	22	Upcut Spiral Z=3	12
Classic cutter bottom profiling	9	Lip & spur oal 70mm	22	'V' grooving cutter	5,38
Classic cutter with bearing	8	Lip & spur oal 77mm	23	'V' point drills oal 55mm - 8mm shank	24
CNC machine chucks	41 – 42	Lip & spur oal 85mm	23	'V' point drills oal 67mm - 8mm shank	25
Collets	40	Lip & spur oal 90mm	26	'V' point drills oal 58mm	25
Combination chucks	28	Lip & spur oal 105mm	23	'V' point drills oal 70mm	24
Compression spiral high feed rate	15	Lip and spur long series	28	'V' point drills oal 77mm	25
Compression spiral Z=2+2	14	Lip & Spur special STC NEW	36	'V' point drills oal 85mm	26
Compression spiral Z=2+2 slotted	15	Lip & spur deep flute NEW	36	'V' point drills oal 90mm	26
Compressions spiral Z=3+3	15	Mini groove arbor	10	'V' point drills oal 105mm	26
Corner beading	9	Mini groover 2 & 4 wing undercut	10	'V' point drills oal 115mm	26
Countersinks & counterbores	27 – 29	Ogee cutter with bearing	8	'V' point drills oal 160mm	26
Cove cutter with bearing	7	Ovolo cutter	6 – 8	'V' point jobber drills	25
Domino bits NEW	36	PCD RH	21	'V' point special double & long shank	34
Door tooling	39	Plug making drill sets	31	'V' point special STC NEW	36
Double flute straight	1,2	Plunge & trim	3	Window tooling	39
Double flute trimmer replacement tip	4	Pull studs to suit CNC chucks	41		
Double ovolo with bearing	8	Pull studs for drills	28		
Dovetail cutter	5	Rebate cutter	5		
Downcut Spiral Z=1/Z=2	11	Replacement tip	37 – 38		
Downcut spiral Z=3	12	Reverse radius with bearing	8		
Drill adaptors 10mm shank	27	Roman ogee with bearing	7		
Drill adaptors split shank	27	Round nose	6		
Engraving cutter	5	Rounding over with bearing	6,7		
Finger pull cutter NEW	7	Rounding over, long cut	9		
Flat ogee with bearing	8	Scotia cutter with bearing	8		
Guttering cutter	6	Single flute	1		
Guttering cutter long series	6	Spiral fast feed downcut Z=3	13		
HD groover bearing	10	Spiral fast feed upcut Z=3	13		
High performance drills	32 – 36	Spiral long reach Z=3	14		
Hinge boring 2W2S + CP	28 – 30	Staff bead cutter	9		

Index of part numbers

	page		page		page		page
0010	27	4C	38	80M	35	ER32	40
0011	27	50A	24	80Q	35	ER40	40
0062	41	50B	24	9B	12	H0	2
0063	41	50C	23	9BB	12	H0/8A	2
0064	41	50D	26	9D	11	H1	5
0065	41	50F	22	9E	11	H11/33A	6
0012-0013	28	50G	22	9E	3	H118	9
0131-0140	42	50H	25	9F	12	H13/32AA	6
120A	31	50J	24	9FV	14	H13L/H13LB	9
130A	31	50K	24	9G	11	H13LB	9
14A	28	50R	31	9H	11	H18/32AD	9
14B	30	50S	27	9I	12	H19	10
14D	30	50T	27	9L	13	H22	10
14F	30	50V	25	9M	14	H24/H31/H36	4
15A/15F	32	50W	25	9MC	15	H28	7
18D	13	50X	23	9MH	14	H3/VHM	5
19D	13	50Z	25	9MP	16	H30	8
1A60	38	51K	26	9N	13	H33	7
1C/1D	4	52C	23	9NT 9FT 9IT	17	H33/4A	38
230A	21	52D	28	9NV/9NB	14	H35	7
240A	21	52F	27	9P	14	H37	8
248A	21	52H	26	9R	15	H38	8
250A	21	52K	26	9RP	16	H39	8
2B/2E	37	52N	28	A03/SQC	1	H40	5
2C	37	52SC	29	A04/A05	1	H7/H1	5
2D	37	53F/A48	31	A07	1	H77	38
2F	37	53K	26	A08	3	HD19	10
2H.190/2H.191	38	53SC	29	A11	6	HD22	10
300A	17	54A/54AA	36	A13	5	HD22.27	10
300B	17	5C	39	A15	3	HPL	21
310A	18	60L	33	A15/A16	3	HSK63F	42
310B	18	60M	33	A25/A20	3	HSK63F	42
320A	19	61Q	34	A26	4	ISO30	42
320B	19	6C	39	A29	7	ISO30	42
330A	19	70L	33	A30	7	ORT/462E	40
330B	19	70M	33	A31/C150	6	SPL/SPM	32
340A	20	70Q	34	A37	9	SRS	16
350A	20	70W	34	A55	8		
35A	2	71Q	34	A60	4		
360A	20	72C	36	C176	8		
370A	20	72Y	36	ER16	40		
3B	38	73M	36	ER20	40		
4B	39	73Y	26	ER25	40		
		7C	39				

Important Safety information

- 1 Ensure chucks and collets are in good condition and free from resin.
- 2 Always make sure the cutters are sharp.
- 3 Wear goggles, ear defenders, masks and protective gloves when using portable machines.
- 4 When operating CNC routing machines, carry out suitable 'risk assessment' to evaluate safety equipment required.
- 5 Do not exceed recommended RPM.
- 6 Always ensure that 3/4 of shank length is inserted into the collet.
- 7 Do not exceed recommended feed rate.
- 8 For operator's health ensure all machines have adequate dust extraction.
- 9 Before commencing cut, ensure the machine is running at full revs.
- 10 Ensure a reputable saw doctor re-sharpens the cutters.

Should you require a copy of the main FUL catalogue please contact our sales office or e-mail us at sales@calibretooling.co.uk

Ø →	6mm	8mm	10mm	12mm	14mm	16mm	18mm	20mm
RPM								
9,000								
9,500								
10,000								
10,500								
11,000								
11,500								
12,000								
12,500								
13,000		The RPM here is too slow for an acceptable finish						
13,500								
14,000								
14,500								
15,000								
15,500								
16,000						6-8	8	8-10
16,500						6-8	8	8-10
17,000						6-8	8	8-10
17,500						6-8	8	8-10
18,000	4-5	5-6	6	8-10	8-10	8-10	10-12	12
18,500	4-5	5-6	6	8-10	8-10	8-10	10-12	12-14
19,000	4-5	5-6	6	8-10	8-10	10	12-14	12-14
19,500	4-5	5-6	6	8-10	8-10	10	12-14	12-14
20,000	5	6	8	8-10	10	10	15	16
20,500	5	6	8	8-10	10	10-12		
21,000	5	6	8	8-10	10-12	12		
21,500	5	6	8	10	10-12	12		
22,000	6	8	8	10	12	12-14		
22,500	6	8	8					
23,000	6	8	8					
23,500	6	8	8	RPM too high can cause premature wear				
24,000	6	8	10					

For specific information please contact our technical department:
technical@calibretooling.co.uk

Z=2
Upcut spiral



Feed rate in metres per minute (MPM).

The yellow area gives the ideal RPM and feed rate.

Standard 2 flute spirals example:

Ø 12mm

RPM 18,000

MPM 6-8

This chart is only to be used as a guide.



Trepanning Cutter
for details see page 38

Calibre Tooling Limited

The Weltech Business Centre
Ridgeway
Welwyn Garden City
Herts AL7 2AA

t 01707 386111

sales@calibretooling.co.uk
www.calibretooling.co.uk

