

INDUSTRIAL TOOLING

DEDICATED WEBSITE

Trend have a website for our range of industrial tooling for the manufacturing industry.

This website offers full product details on our Sawblades, Spindle Tooling, Drilling Tools and CNC Machining Tools including our Modular Window System.

Search for your nearest Industrial Tooling Centre or Dealer using our Dealer locator by typing in your postcode.

www.trend-industrial.com



TECHNICAL SUPPORT TEAM

Our experienced engineers and former tradesmen are available for practical advice on cutter selection, setting-up, jig-making and routing techniques. They also offer a leading design service for tooling made to order for specific applications.

For Technical Support:

Tel: 0044(0)1923 249911

(8.45am - 5.30pm Monday - Friday)

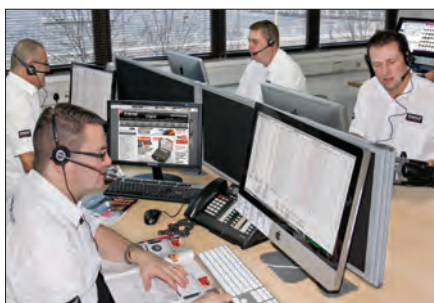
Fax: 0044(0)1923 228657

Email: technical@trendm.co.uk



SUPPORT

Try our online technical support



ASSOCIATIONS

Trend are members of the following associations:



QUALITY CONTROL

Consistently high standards are guaranteed by strict quality control procedures and inspection by our quality controllers. Our quality system is BS EN ISO 9001: 2008 registered to comply with international standards. Items described in this catalogue may not necessarily be manufactured under a registered ISO 9001: 2008 management system.



RS 28982

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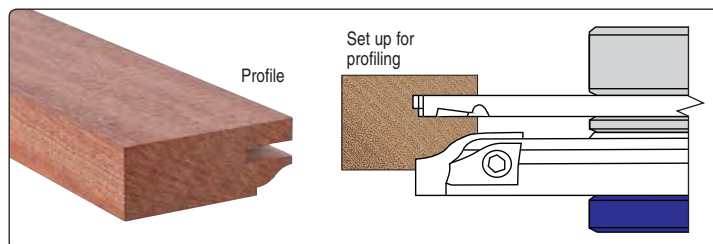
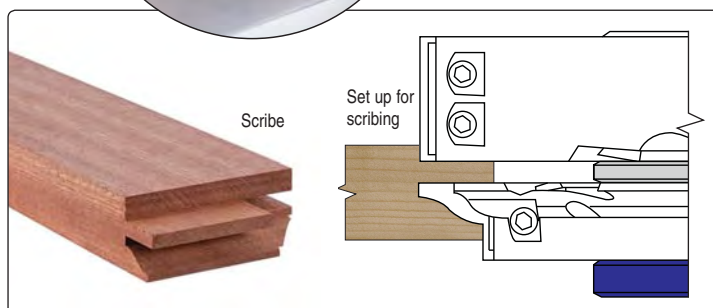


SOLID CABINET DOOR SYSTEM

Produces nine styles of wooden cabinet doors or internal doors quickly and accurately in minimal time with one spindle moulder and one set-up.

- Allows both profile and scribes to be machined.
- 30mm bore size.
- Disposable Tungsten Carbide knives for minimal down-time and consistent cut.

See pages 93 - 97



MODULAR WINDOW SYSTEM



Produces 8 wooden window styles quickly and accurately on a spindle moulder with one set-up in minimal time.

- You can manufacture any size of window in 2 - 3 hours.
- Dispenses with lengthy set-up and costly test cuts
- Even small quantities of windows can be manufactured in a very cost effective way.

See pages 98 - 101



Full range available in separate brochure Ref. CAT/MWS

Also available for viewing online.

www.trend-industrial.com



INDUSTRIAL SAWBLADES

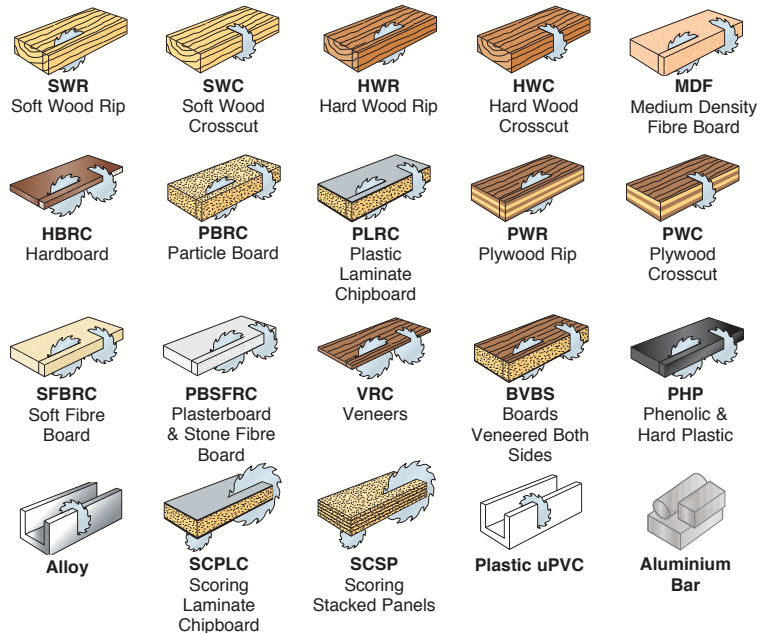
TREND'S LINE OF TUNGSTEN CARBIDE TIPPED CIRCULAR SAWBLADES MEET ALL THE REQUIREMENTS OF THE MODERN WOODWORKING INDUSTRY

SUITABLE FOR:

- Panel sizing machines
- Multi-rip machines
- Horizontal panel sizing machines
- Table sawing machines
- Aluminium/uPVC cutting machines

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KEY TO SAWBLADE SYMBOLS



All sawblades are subjected to straightening, balancing and tensioning using a unique technology to ensure high cutting quality and longer lifetime.

MANUFACTURING TECHNOLOGY

BALANCE
Geometrical balanced shape resulting in less vibration, better cutting quality, longer lifetime and noise reduction.

DYNAMIC BALANCING
Unique balancing procedure according to ISO 1940 performed on special dedicated dynamic balancing machines, producing the best performance as a result of minimal vibration.

STRAIGHTENING
Fully automatic process for straightening sawblades without hammering.

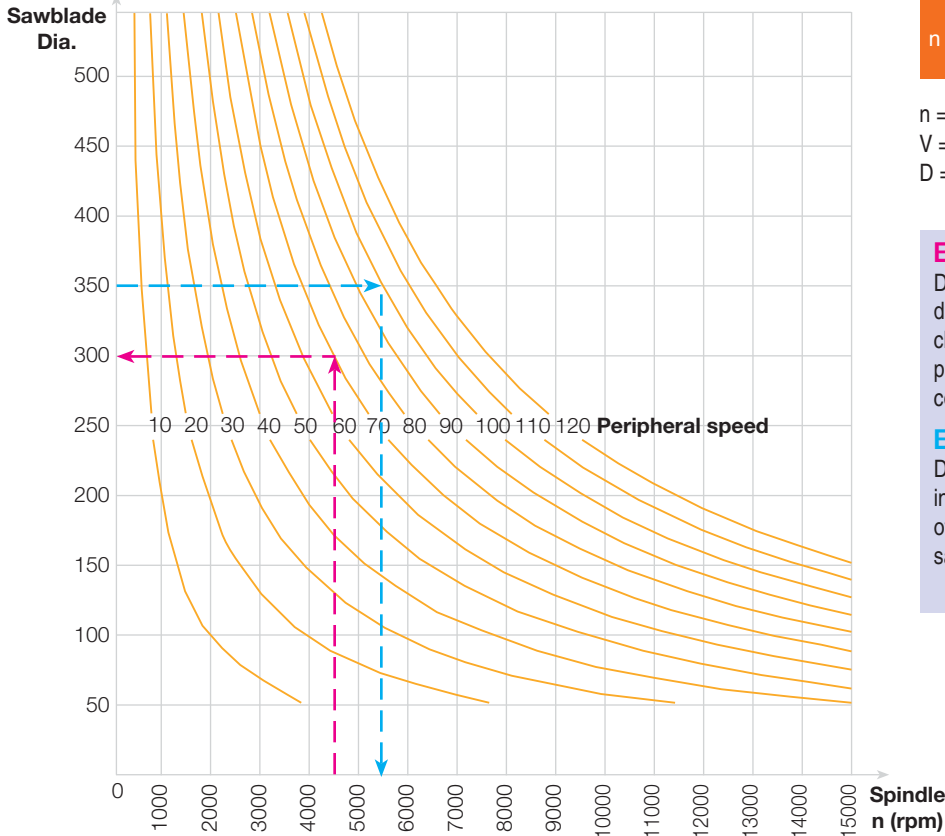
DYNAMIC STRAIGHTNESS
Fully automated, high performance, dynamic operation for straightening the sawblade, assuring long-lasting straightness and quality cutting for the lifetime of the blade even after re-sharpening.

TENSIONING
Mechanical procedure that affects the internal material structure of the blade to improve stiffness.

DETERMINING CUTTING SPEED

	Material	Cutting	Cutting Speed (m/sec)
Natural Wood	Soft Wood	along	60 - 100
		across	60 - 100
	Hard Wood	along	60 - 100
		across	60 - 100
	Veneers	along	70 - 100
		across	70 - 100
Boards	Plywoods		50 - 80
	MDF		60 - 100
	Particle Board with PVC Coating		60 - 80
	Particle Board with Melamine Coating		60 - 80
	Particle Board with Veneer Coating		60 - 80
	High Pressure Laminated Particle Board		60 - 80
	Soft Fibre Board		70 - 100
	Cemented Bonded Board	50 - 80	
	Hard Paper / Hard Fibre	45 - 70	
	Duroplastic® Board, Corian®	15 - 50	
Plastics	High Pressure Laminated Bakelite®		30 - 70
	Thermoplastic Profiles		50 - 80
	Aluminium		
Aluminium Profiles			40 - 70

DETERMINING SAWBLADE DIAMETER OR RPM



$$n \text{ (rpm)} = \frac{1000 \times 60 \times V}{3.14 \times D}$$

n = Spindle rpm
 V = Peripheral speed m/sec
 D = Diameter mm

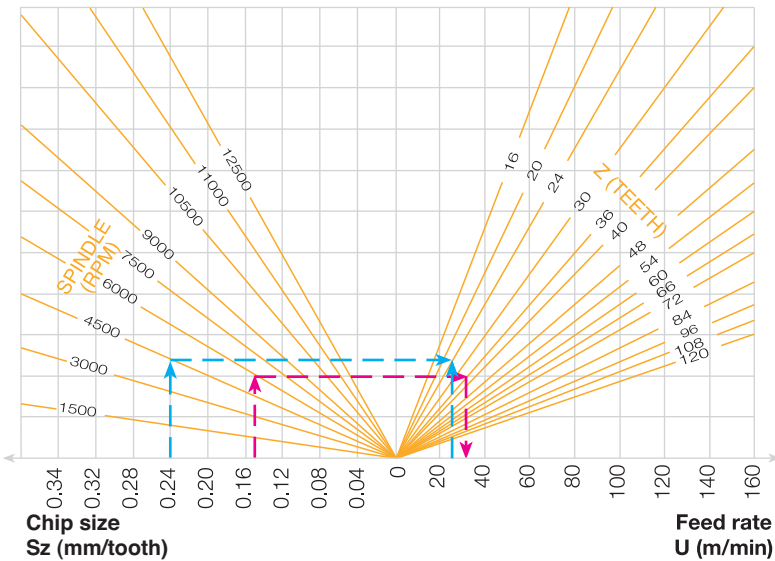
EXAMPLE 1:

Determining the correct sawblade diameter to cut melamine-coated chipboard with a rpm of 4500 and a peripheral speed of 70m/sec. The correct blade diameter is 300mm.

EXAMPLE 2:

Determining the correct machine rpm in order to cut at a peripheral speed of 100m/sec with a 350mm diameter sawblade. The correct rpm is 5500.

DETERMINING NUMBER OF TEETH OR FINDING FEED RATE



EXAMPLE 1:

Determining the Correct Feed Rate:
 Solid wood - chip size 0.15
 Spindle rpm - 6000
 Number of teeth - 36
 You should use a feed rate of - 32m/min

EXAMPLE 2:

Determining Number of Teeth
 Chipboard - chip size 0.24
 Spindle rpm - 4500
 Feed rate - 22m/min
 Therefore the number of teeth = 24

RECOMMENDED CHIP SIZE SZ (MM/TOOTH)

Material	Recommended Chip Size Sz (mm/tooth)
Solid wood	0.10 - 0.20
Chipboard and plywood	0.05 - 0.25
Boards with plastic lamination	0.03 - 0.06
Boards veneered on both sides	0.03 - 0.08
Hardboard	0.03 - 0.08
Duroplastic® boards	0.02 - 0.05
Thermoplastic boards	0.05 - 0.08

SAWBLADE FLANGES

Sawblade Diameter	Sawblade Bore Diameter						
	30mm	40mm	60mm	80mm	100mm	120mm	150mm
180 ≤ 190	50/40		80/60		-	-	-
190 ≤ 300			80/60	120/90	140/110	-	-
300 ≤ 400			120/90		140/110	160/130	200/160
400 ≤ 450		120/90		140/110		160/130	200/160
450 ≤ 550			140/110			160/130	200/160
550 ≤ 630				160/130			200/160
630 ≤ 800					200/160		

The size of the flange is determined by the saw diameter and bore diameter.



TCT
TUNGSTEN
CARBIDE
TIPPED

THE ULTIMATE SAWING BLADES

- Special dynamic balancing.
- Unique straightening operation.
- Long-lasting quality cut.
- Low noise level.
- Every panel saw documented with full traceability.
- Increased sharpness compared to industry standard.

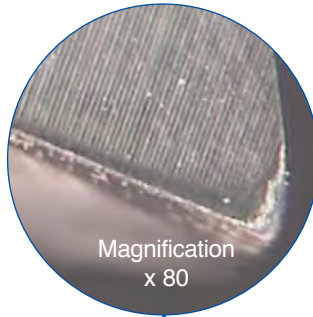
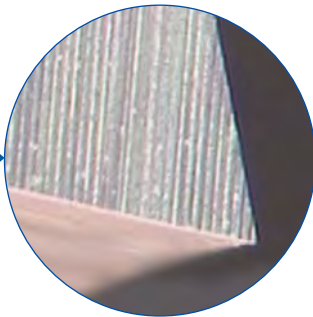
See pages 9, 10, 11, 18 and 19.



REGULAR TOOTH



MAX TOOTH



Magnification
x 80

100%

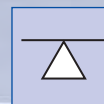
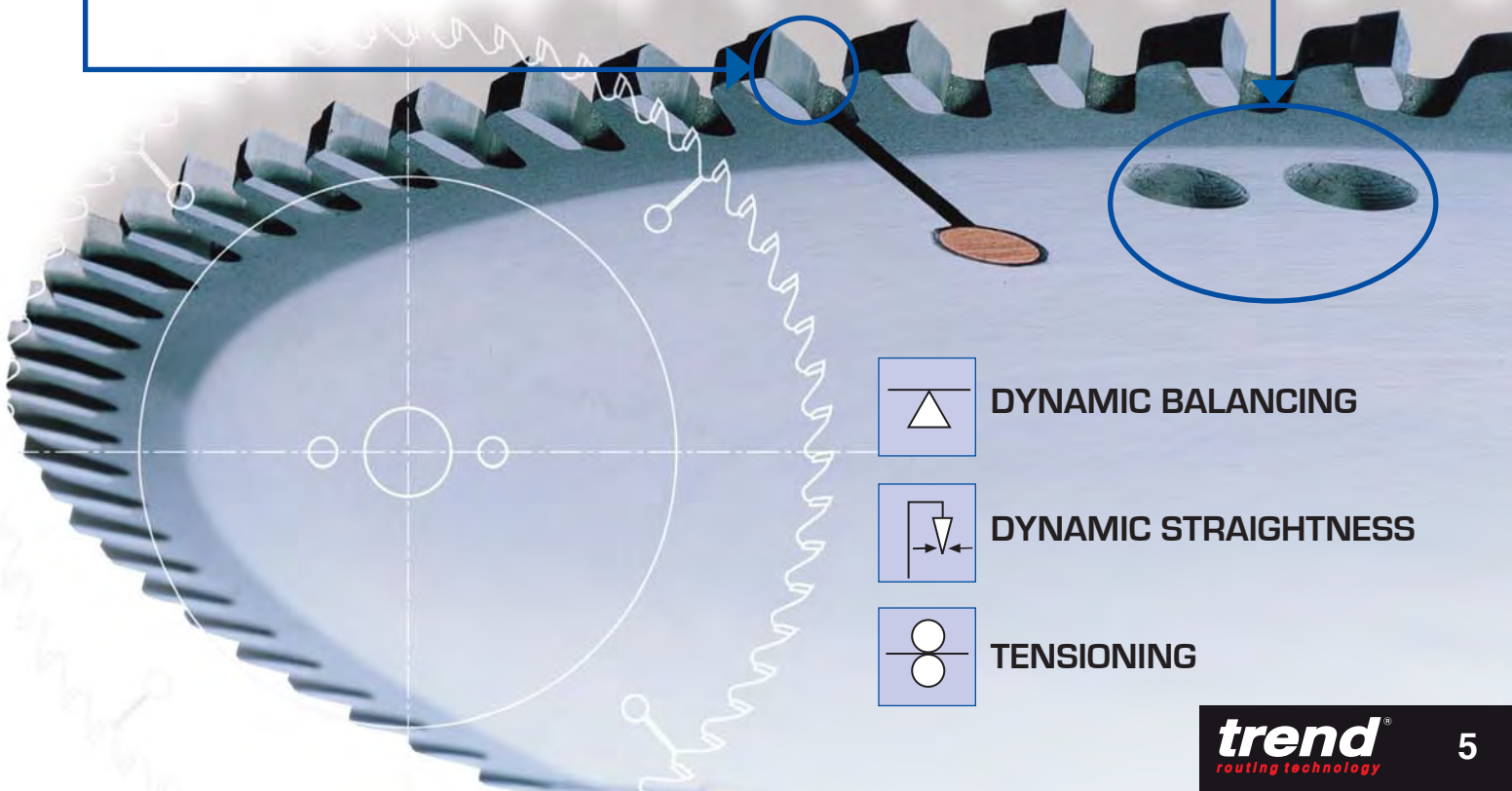


Magnification
x 80

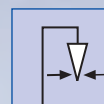
200%

STARTING
POINT

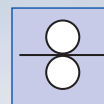
DYNAMIC BALANCING MARKS



DYNAMIC BALANCING



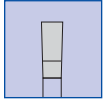
DYNAMIC STRAIGHTNESS



TENSIONING

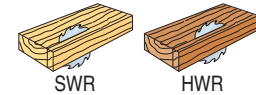
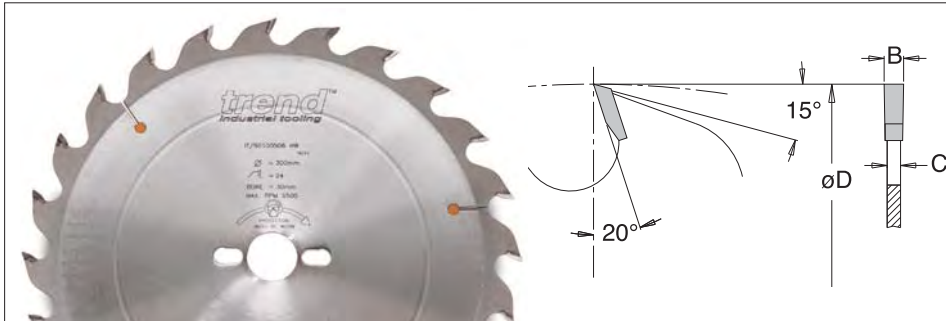
RIP SAWBLADES

- Suitable for rip cutting with a coarse finish on solid soft and hard woods.
- Flat tooth with large gullet for fast chip removal.
- For use on a bench, table or rip saw.
- Other bore sizes available, see page 17.

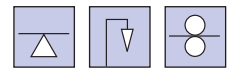


**SOLID WOOD
FLAT TEETH
COARSE FINISH**

TCT

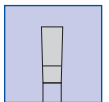


øD	Teeth	B	C	ø bore	Product Ref.	Stock	Price
250	20	3.2	2.2	30	IT/901 00 30 6	N	£44.41
250	24	3.2	2.2	30	IT/901 00 40 6	Y	£46.24
300	24	3.2	2.2	30	IT/901 00 50 6	Y	£55.15
300	30	3.2	2.2	30	IT/901 00 60 6	Y	£61.20
350	28	3.5	2.5	30	IT/901 00 70 6	Y	£68.95
400	32	3.5	2.5	30	IT/901 00 80 6	Y	£79.29
450	32	4.0	2.8	30	IT/901 00 84 6	Y	£89.12
500	36	4.4	3.0	30	IT/901 00 85 6	Y	£108.76



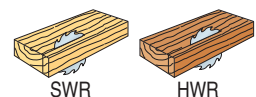
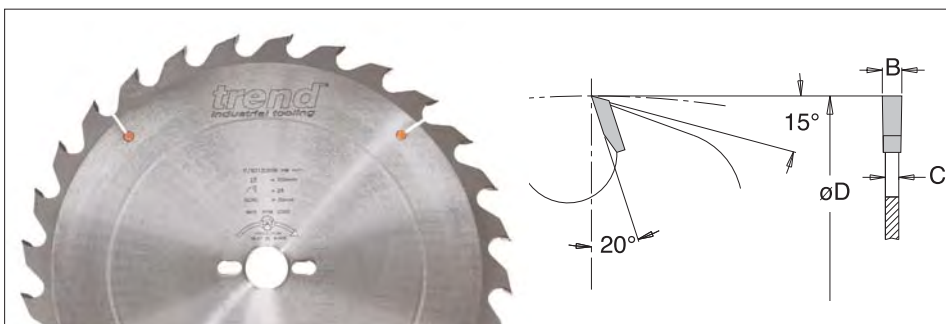
RIP SAWBLADES - THICKER TIP & PLATE

- Suitable for rip cutting with a coarse finish on solid soft and hard woods.
- Thicker Tungsten Carbide Tips and saw body for heavy duty applications.
- For use on a bench, table or rip saw.
- Other bore sizes available, see page 17.

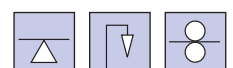


**SOLID WOOD
FLAT TEETH
COARSE FINISH**

TCT



øD	Teeth	B	C	ø bore	Product Ref.	Stock	Price
300	24	4.0	2.8	30	IT/901 20 20 6	N	£71.92
300	24	4.4	2.8	30	IT/901 20 30 6	N	£71.92
350	28	4.0	2.8	30	IT/901 20 60 6	N	£87.57
350	28	4.4	2.8	30	IT/901 20 50 6	Y	£87.57
400	32	4.0	3.0	30	IT/901 21 10 6	N	£100.13
400	32	4.4	3.0	30	IT/901 20 90 6	N	£100.13



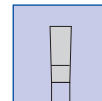
KEY

Stock - Y means normally kept in stock for next day delivery.

N means not normally held in stock, delivery in a short time.

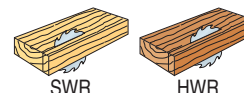
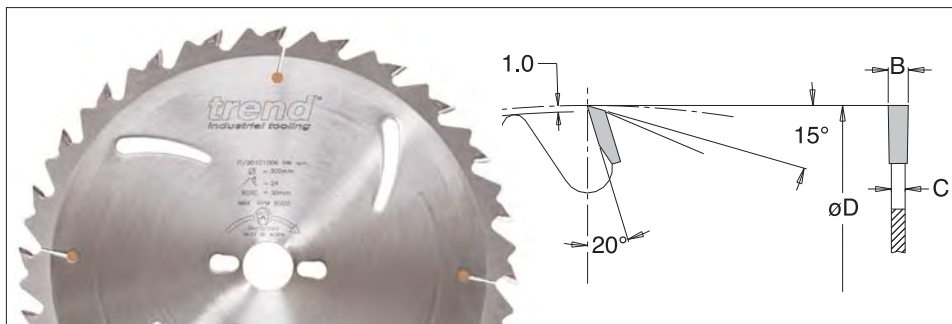
RIP SAWBLADES WITH COOLING SLOTS

- Suitable for rip cutting with a coarse finish on solid soft and hard woods.
- Flat tooth with large gullet for fast chip removal and chip limiters to reduce kick-back.
- Cooling slots to prevent blade overheating.
- For use on a bench, table or rip saw.
- Other bore sizes available, see page 17.

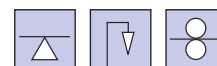


**SOLID WOOD
FLAT TEETH
COARSE FINISH**

TCT

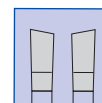


øD	Teeth	B	C	ø bore	Product Ref.	Stock	Price
250	24	3.2	2.2	30	IT/901 00 95 6	Y	£54.57
300	24	3.2	2.2	30	IT/901 01 00 6	Y	£64.74
300	28	3.2	2.2	30	IT/901 01 04 6	Y	£68.96
315	24	3.2	2.2	30	IT/901 01 08 6	Y	£68.95
350	32	3.5	2.5	30	IT/901 01 13 6	Y	£87.00
400	28	3.5	2.5	30	IT/901 01 15 6	Y	£88.72
450	40	4.0	2.8	30	IT/901 01 16 6	Y	£122.28
500	44	4.4	3.0	30	IT/901 01 18 6	Y	£147.50



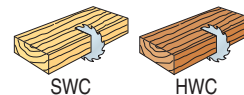
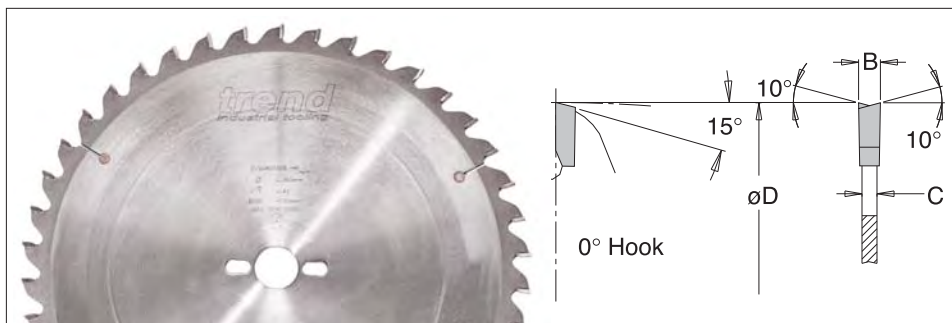
CROSS CUT SAWBLADES

- Suitable for cross cutting with a coarse finish to fine finish on solid soft and hard woods.
- Alternate bevel tooth with zero or negative degree angle to minimise material 'pick-up' or 'snatching'.
- For use on a radial arm or mitre saw.
- Other bore sizes available, see page 17.

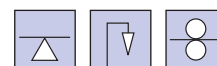


**SOLID WOOD
ALTERNATE BEVEL TEETH
MEDIUM/FINE FINISH**

TCT



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215	48	2.8	1.8	30	IT/912 04 11 6	Y	£71.92
215	60	2.8	1.8	30	IT/912 05 45 6	Y	£81.06
215	80	2.8	1.8	30	IT/SB/912 00 16+	Y	£83.34
250	24	3.4	2.4	30	IT/908 01 10 6	Y	£62.33
250	42	3.4	2.4	30	IT/908 01 20 6	Y	£100.13
250	72	3.2	2.4	30	IT/901 40 60 6	N	£90.54
260	60	3.2	2.2	30	IT/SB/912 00 26	N	£93.62
300	36	3.8	2.8	30	IT/908 01 30 6	Y	£87.00
305	48	3.2	2.2	30	IT/SB/912 00 36	Y	£77.64
305	60	3.2	2.2	30	IT/SB/912 00 46	Y	£107.32
350	42	4.2	2.8	30	IT/908 01 50 6	Y	£106.17
400	48	4.2	3.0	30	IT/908 01 70 6	Y	£121.15



MANUFACTURING TECHNOLOGY



Balance



Dynamic Balance



Straightening



Dynamic Straightness



Tension



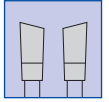
Low Noise

+ While stocks last

trend
routing technology

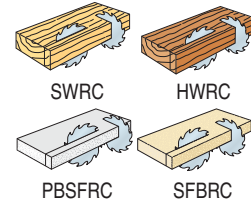
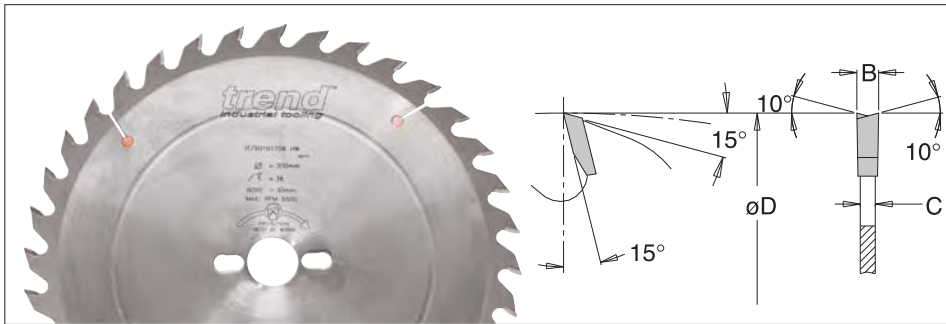
RIP & CROSS CUT SAWBLADES

- Suitable for rip and cross cutting with a coarse to medium finish on solid soft and hard woods.
- Alternate bevel tooth.
- For use on table saw.
- Other bore sizes available, see page 17.

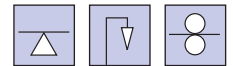


SOLID WOOD
ALTERNATE BEVEL TEETH
COARSE/MEDIUM FINISH

TCT

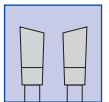


øD	Teeth	B	C	ø bore	Product Ref.	Stock	Price
230	24	3.0	2.0	30	IT/901 01 50 6	Y	£51.38
250	30	3.2	2.2	30	IT/901 01 60 6	Y	£54.57
300	36	3.2	2.2	30	IT/901 01 70 6	Y	£65.42
350	36	3.5	2.5	30	IT/901 01 79 6	Y	£78.55
350	42	3.5	2.5	30	IT/901 01 80 6	Y	£79.82
400	48	3.5	2.5	30	IT/901 01 90 6	Y	£89.40
450	54	4.0	2.8	30	IT/901 02 00 6	Y	£122.28
500	60	4.4	3.0	30	IT/901 02 05 6	Y	£145.68



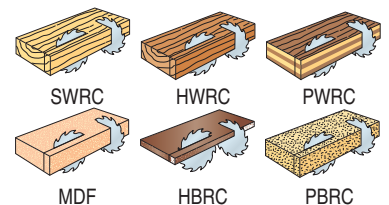
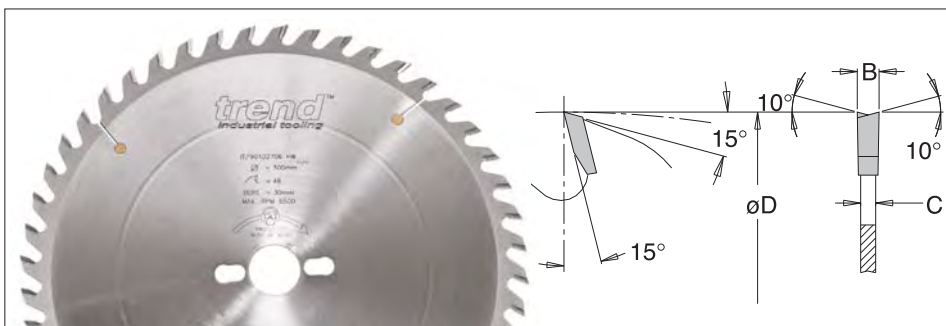
RIP & CROSS CUT SAWBLADES

- Suitable for trimming and cross cutting with a medium fine finish on solid soft and hard woods and man-made boards.
- Alternate bevel tooth.
- For use on table saw.
- Other bore sizes available, see page 17.

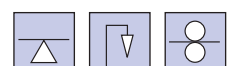


SOLID WOOD & BOARDS
ALTERNATE BEVEL TEETH
MEDIUM/FINE FINISH

TCT



øD	Teeth	B	C	ø bore	Product Ref.	Stock	Price
230	40	3.0	2.0	30	IT/901 02 50 6	Y	£66.22
250	40	3.2	2.2	30	IT/901 02 60 6	Y	£63.03
250	48	3.2	2.2	30	IT/901 02 63 6	Y	£68.39
300	48	3.2	2.2	30	IT/901 02 70 6	Y	£74.33
315	48	3.2	2.2	30	IT/SB/901 00 16	Y	£101.61
350	54	3.5	2.5	30	IT/901 02 80 6	Y	£91.79
400	60	3.5	2.5	30	IT/901 02 90 6	Y	£101.95
450	66	4.0	2.8	30	IT/901 03 00 6	Y	£137.91
500	72	4.4	3.0	30	IT/901 03 20 6	Y	£146.94



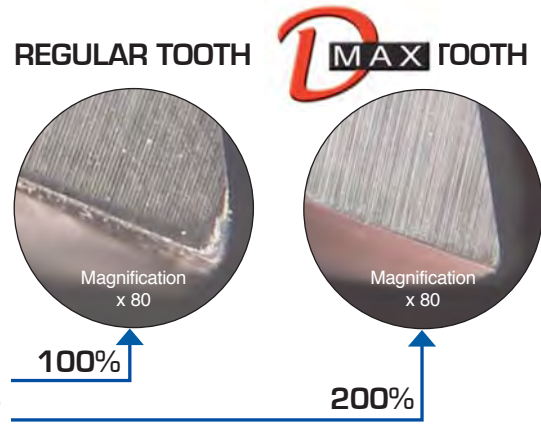
KEY

Stock - Y means normally kept in stock for next day delivery.

N means not normally held in stock, delivery in a short time.

MAX THE ULTIMATE SAWING BLADES

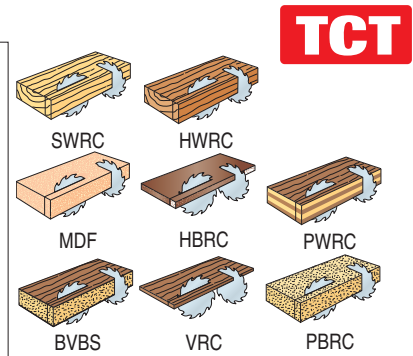
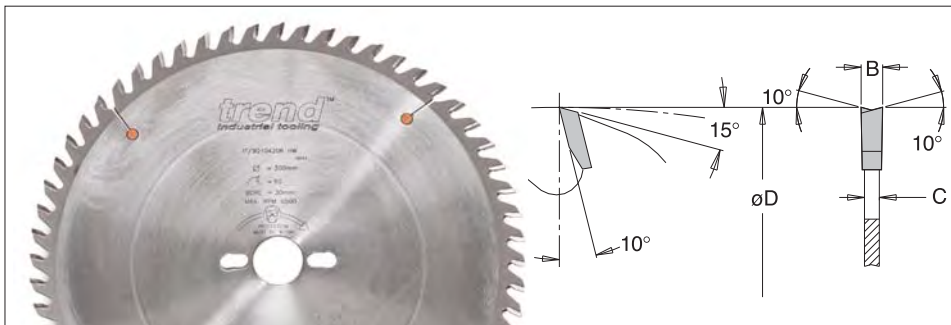
- Special dynamic balancing.
- Unique straightening operation.
- Long-lasting quality cut.
- Low noise level.
- Every panel saw documented with full traceability.
- Increased sharpness compared to industry standard.



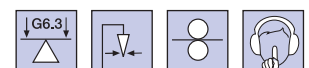
TRIMMING AND SIZING SAWBLADES

- Suitable for trimming and sizing cross cutting with a fine finish on solid soft, hard woods and man-made veneered boards.
- Alternate bevel tooth.
- For use on a table saw.
- Marked blades are **MAX** quality for long lasting durability.
- Other bore sizes available, see page 17.

BOARDS & VENEERED BOARDS ALTERNATE BEVEL TEETH FINE FINISH



øD	Teeth	B	C	ø bore	Product Ref.	Stock	Price
200	64	3.0	2.0	30	IT/901 05 50 6	Y	£78.77
250	60	3.2	2.2	30	IT/901 04 10 6	Y	£78.55
250	MAX 60	3.2	2.2	30	IT/950 04 10 6	N	£94.20
250	80	3.2	2.2	30	IT/901 05 70 6	Y	£90.54
250	MAX 80	3.2	2.2	30	IT/950 05 70 6	N	£111.55
300	60	3.2	2.2	30	IT/901 04 20 6	Y	£84.61
300	72	3.2	2.2	30	IT/901 04 30 6	Y	£95.33
300	MAX 72	3.2	2.2	30	IT/950 04 30 6	Y	£116.35
300	96	3.2	2.2	30	IT/901 05 80 6	Y	£106.75
300	MAX 96	3.2	2.2	30	IT/950 05 80 6	N	£130.15
315	72	3.2	2.2	30	IT/SB/901 00 26	Y	£113.03
350	72	3.5	2.5	30	IT/901 04 40 6	Y	£102.53
350	MAX 72	3.5	2.5	30	IT/950 04 40 6	Y	£125.36
350	84	3.5	2.5	30	IT/901 04 50 6	Y	£116.35
350	MAX 84	3.5	2.5	30	IT/950 04 50 6	N	£142.15
350	108	3.5	2.5	30	IT/901 05 90 6	Y	£128.90
350	MAX 108	3.5	2.5	30	IT/950 05 90 6	N	£157.68
400	96	3.5	2.5	30	IT/901 04 60 6	Y	£133.69
400	120	3.5	2.5	30	IT/901 06 00 6	Y	£154.12
450	132	4.0	2.8	30	IT/901 06 03 6	Y	£178.11
500	120	4.4	3.0	30	IT/901 04 63 6	Y	£199.69



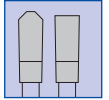
MANUFACTURING TECHNOLOGY

- Balance
- Dynamic Balance
- Straightening
- Dynamic Straightness
- Tension
- Low Noise

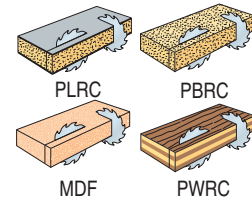
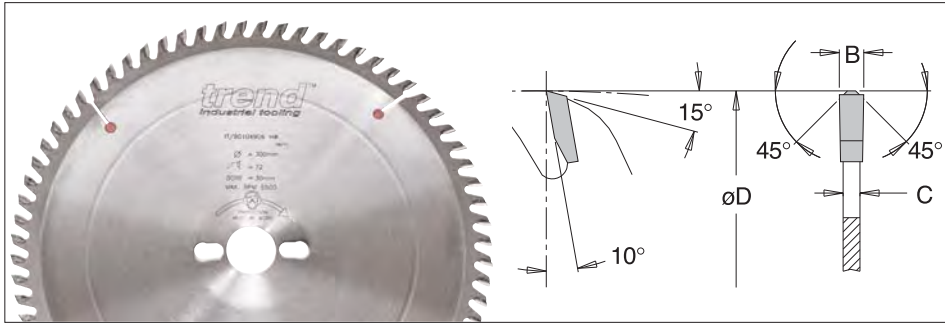


PANEL TRIMMING & SIZING SAWBLADES FOR USE WITH SCORERS

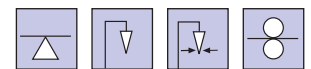
- Suitable for trimming and cross cutting with a medium to fine finish on single-sided laminated boards (chipboard, MDF etc).
- Triple chip tooth.
- For use on a table or panel saw.
- Marked blades are **MAX** quality for long lasting durability.
- Other bore sizes available, see page 17.



BOARDS & LAMINATED BOARDS
TRIPLE CHIP TEETH
MEDIUM/FINE FINISH



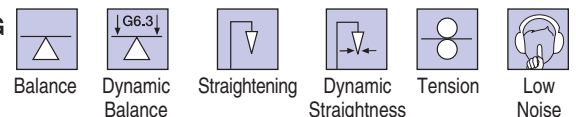
øD	Teeth	B	C	ø bore	Product Ref.	Stock	Price
200	64	3.0	2.0	30	IT/901 06 08 6	Y	£86.77
220	64	3.0	2.0	30	IT/901 06 12 6	Y	£91.91
250	40	3.2	2.2	30	IT/901 04 75 6	Y	£71.92
250	60	3.2	2.2	30	IT/901 04 80 6	N	£84.61
250	MAX 60	3.2	2.2	30	IT/950 04 80 6	Y	£102.53
250	80	3.2	2.2	30	IT/901 06 10 6 *	Y	£90.54
250	MAX 80	3.2	2.2	30	IT/950 06 10 6	Y	£118.74
300	60	3.2	2.2	30	IT/901 04 85 6	N	£90.54
300	72	3.2	2.2	30	IT/901 04 90 6 *	Y	£101.95
300	MAX 72	3.2	2.2	30	IT/950 04 90 6	Y	£125.36
300	96	3.2	2.2	30	IT/901 06 20 6 *	Y	£106.17
300	MAX 96	3.2	2.2	30	IT/950 06 20 6	Y	£139.06
350	72	3.5	2.5	30	IT/901 04 95 6	N	£109.72
350	MAX 72	3.5	2.5	30	IT/950 04 95 6	Y	£134.26
350	84	3.5	2.5	30	IT/901 05 00 6 *	Y	£125.36
350	MAX 84	3.5	2.5	30	IT/950 05 00 6	Y	£152.30
350	108	3.5	2.5	30	IT/901 06 30 6 *	Y	£138.49
350	MAX 108	3.5	2.5	30	IT/950 06 30 6	Y	£160.64
400	96	3.5	2.5	30	IT/901 05 10 6 *	Y	£138.68
400	120	3.5	2.5	30	IT/901 06 40 6 *	Y	£164.86
450	66	4.0	2.8	30	IT/901 02 98 6	Y	£147.50
450	132	4.0	2.8	30	IT/901 06 41 6 *	Y	£190.66
500	120	4.4	3.0	30	IT/901 05 17 6 *	Y	£214.64



KEY

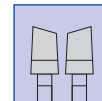
Stock - Y means normally kept in stock for next day delivery.
 N means not normally held in stock, delivery in a short time.

MANUFACTURING TECHNOLOGY

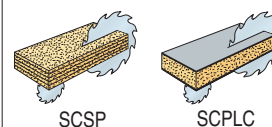
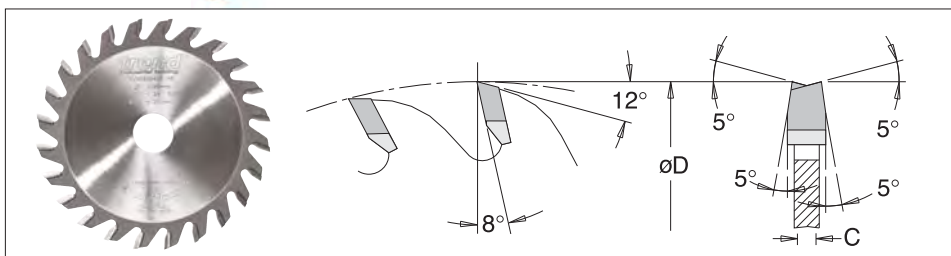


CONICAL SCORING SAWBLADES

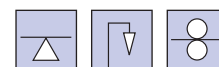
- Suitable for scoring the underside of single or stacked laminated man-made boards (chipboard, MDF etc).
- Used in conjunction with a panel blade for a fine finish on double-sided laminated boards.
- Conical alternate bevel tooth.
- Scoring width adjusted by raising or lowering the blade.
- For use on a table or panel saw.
- Marked blades are **T_{MAX}** quality for long lasting durability.



LAMINATED BOARDS
CONICAL ALTERNATE
BEVEL TEETH

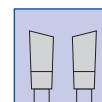


$\varnothing D$	Teeth	B	C	\varnothing bore	Product Ref.	Stock	Price
100	20	3.2	2.2	20	IT/906 00 41 3	Y	£94.76
100	20	3.2	2.2	22	IT/906 00 41 4	N	£94.76
100	20	3.0	2.2	20	IT/906 00 51 3	N	£94.76
100	20	3.0	2.2	22	IT/906 00 51 4	N	£94.76
120	24	2.8	2.2	20	IT/906 00 44 3	Y	£94.76
120	24	2.8	2.2	22	IT/906 00 44 4	Y	£94.76
120	24	3.2	2.2	20	IT/906 00 45 3	Y	£94.76
120	T_{MAX} 24	3.2	2.2	20	IT/956 00 45 3	Y	£115.09
120	24	3.2	2.2	22	IT/906 00 45 4	Y	£94.76
120	T_{MAX} 24	3.2	2.2	22	IT/956 00 45 4	Y	£115.09
125	24	3.2	2.8	20	IT/906 00 69 3	N	£94.76
125	24	3.2	2.8	22	IT/906 00 69 4	Y	£94.76

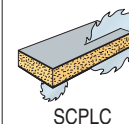
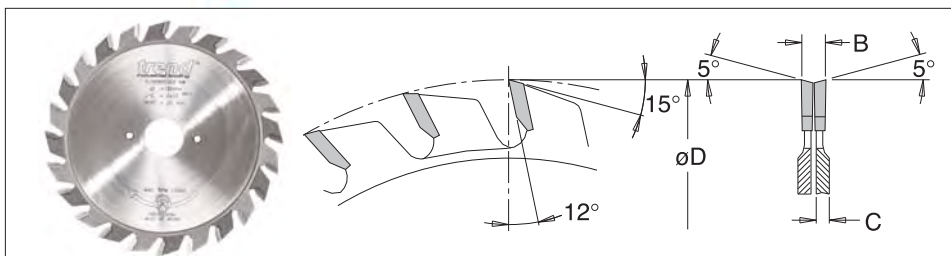


ADJUSTABLE/SPLIT SCORING SAWBLADES

- Suitable for scoring the underside of single or stacked laminated man-made boards (chipboard, MDF etc).
- Used in conjunction with a panel blade for a fine finish on double-sided laminated boards.
- Alternate bevel tooth.
- Scoring width adjusted by adding or removing shims from between the scoring blades.
- For use on a table or panel saw.
- Marked blades are **T_{MAX}** quality for long lasting durability.



LAMINATED BOARDS
ALTERNATE BEVEL
TEETH

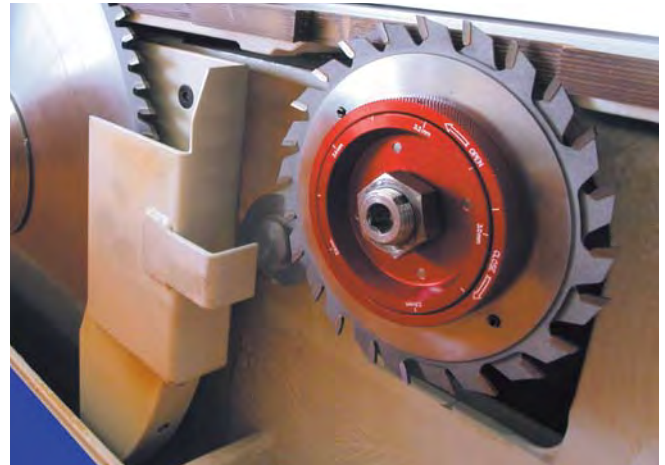


$\varnothing D$	Teeth	B	C	\varnothing bore	Product Ref.	Stock	Price
80	2x10	2.8 - 3.6	2.0	20	IT/906 00 09 3	Y	£86.30
100	2x12	2.8 - 3.6	2.0	20	IT/906 00 10 3	Y	£86.30
100	2x12	2.8 - 3.6	2.0	22	IT/906 00 10 4	Y	£86.30
120	T_{MAX} 2x12	2.8 - 3.6	2.0	20	IT/956 00 30 3	Y	£122.28
120	T_{MAX} 2x12	2.8 - 3.6	2.0	22	IT/956 00 30 4	Y	£122.28
120	2x12	2.8 - 3.6	2.0	20	IT/906 00 30 3	Y	£91.79
120	2x12	2.8 - 3.6	2.0	22	IT/906 00 30 4	Y	£91.79
125	2x12	2.8 - 3.6	2.0	20	IT/906 00 40 3	Y	£91.79
125	2x12	2.8 - 3.6	2.0	22	IT/906 00 40 4	Y	£91.79

D LEADER THE INNOVATIVE SCORING SYSTEM

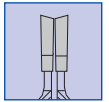
ELIMINATES THE NEED FOR SPACERS, ENDLESS MEASURING, RE-ASSEMBLING, TESTING AND ADJUSTING TO OBTAIN THE REQUIRED SCORING WIDTH.

- Unique patented blade
- Adjusts easily from 2.8mm - 3.6mm, even when mounted on the machine.
- Easy to read scale.
- Massive cost saving benefits.
- Fits all common panel saws.



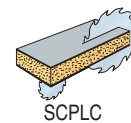
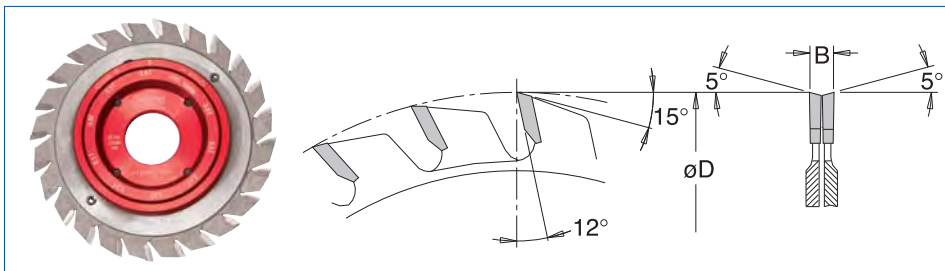
D LEADER SPLIT SCORER

- Suitable for scoring the underside of single or stacked laminated man-made boards (chipboard, MDF etc).
- Used in conjunction with a panel blade for a fine finish on double-sided laminated boards.
- Alternate bevel tooth.
- Scoring width adjusted by moving dial gauge.
- For use on a table or panel saw.
- Other bore sizes available, see page 17.



LAMINATED BOARDS
ALTERNATE BEVEL TEETH

TCT



øD	B	Teeth	ø bore	Product Ref.	Stock	Price
100	2.8-3.6	24	20	IT/956 101 03	N	£245.24
120	2.8-3.6	24	20	IT/956 203 03+	Y	£254.13
120	2.8-3.6	24	22	IT/956 103 04❖	Y	£254.13
125	2.8-3.6	24	20	IT/956 104 03	N	£254.13
125	2.8-3.6	24	22	IT/956 104 04❖	N	£254.13

❖ Supplied with 15mm fitting ring for Altendorf machines.

+ Special DLeader scorer with a chamfer gauge for use on the SCM panel saw.
Chamfer gauge enables the scorer to be tilted without touching the saw table.



SPARE SAWBLADES

øD	Teeth	Product Ref.	Stock	Price
100	12+12	IT/956 101 0Z	N	£98.31
120	12+12	IT/956 103 0Z	Y	£107.90
125	12+12	IT/956 104 0Z	Y	£107.90

SPARE PARTS

Product Ref.	Spring Ring	Washer	Torx Screw	Torx Key	Hex Screw	Hex Key	Roll Pin
IT/956 101 03	IT/195 084 0 £7.99	IT/196 352 3 £8.79	IT/193 041 4 £1.60	IT/194 102 0 £5.14	IT/193 035 1 £1.03	IT/194 008 0 £2.06	IT/192 070 0 £1.14
IT/956 103 04	IT/195 085 0 £7.99	IT/196 352 4 £11.31	IT/193 041 4 £1.60	IT/194 102 0 £5.14	IT/193 035 1 £1.03	IT/194 008 0 £2.06	IT/192 070 0 £1.14
IT/956 104 03	IT/195 085 0 £7.99	IT/196 352 3 £8.79	IT/193 041 4 £1.60	IT/194 102 0 £5.14	IT/193 035 1 £1.03	IT/194 008 0 £2.06	IT/192 070 0 £1.14
IT/956 104 04	IT/195 085 0 £7.99	IT/196 352 4 £11.31	IT/193 041 4 £1.60	IT/194 102 0 £5.14	IT/193 035 1 £1.03	IT/194 008 0 £2.06	IT/192 070 0 £1.14
IT/956 203 03	IT/195 085 0 £7.99	IT/196 352 3 £8.79	IT/193 041 4 £1.60	IT/194 102 0 £5.14	IT/193 035 1 £1.03	IT/194 008 0 £2.06	IT/192 070 0 £1.14

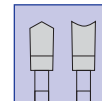
KEY

Stock - Y means normally kept in stock for next day delivery.
N means not normally held in stock, delivery in a short time.

Grinding attachment for DLeader scorer, (63mm dia. x 20mm bore).
Enables spare blades to be reground as a pair. Ref. IT/551 0701 £24.66

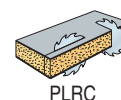
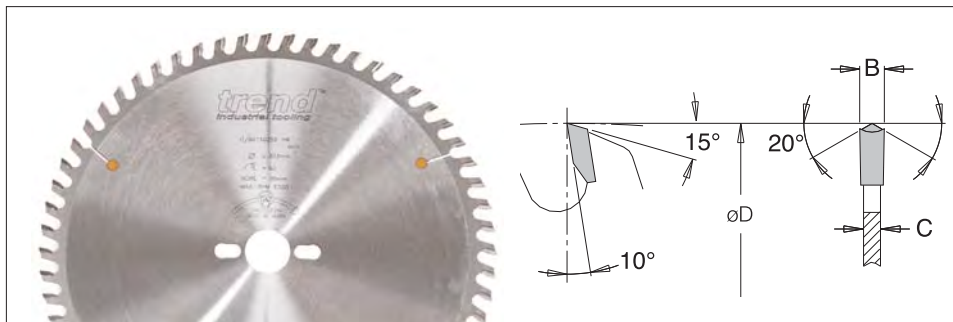
PANEL TRIMMING & SIZING SAWBLADES WITHOUT SCORER

- Suitable for trimming and sizing with a super fine finish on single and double-sided laminated boards (chipboard, MDF etc).
- Hollow pointed tooth.
- Special tooth form allows blade to machine double-sided laminated board without a scorer.
- For use on a table or panel saw.
- Other bore sizes available, see page 17.



LAMINATED BOARDS
HOLLOW/POINT TEETH
SUPER FINE FINISH

TCT



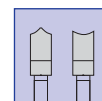
øD	Teeth	B	C	ø bore	Product Ref.	Stock	Price
253	48	3.2	2.2	30	IT/901 10 10 6	N	£94.20
303	60	3.3	2.4	30	IT/901 10 25 6	Y	£109.15
350	72	3.2	2.2	30	IT/901 10 30 6	Y	£136.66



Above
250 Ø

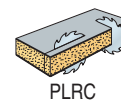
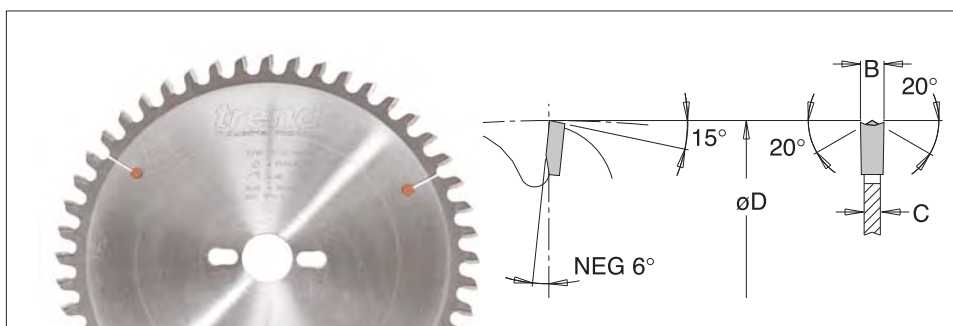
VERTICAL PANEL TRIMMING & SIZING SAWBLADES

- Suitable for trimming and sizing with a super fine finish on single and double-sided laminated boards (chipboard, MDF etc).
- Hollow pointed tooth, negative hook.
- Special tooth form allows blade to machine double-sided laminated board without a scorer.
- For use on a vertical panel sizing machine.
- Other bore sizes available, see page 17.

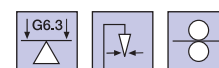


LAMINATED BOARDS
HOLLOW/POINT TEETH
SUPER FINE FINISH

TCT



øD	Teeth	B	C	ø bore	Product Ref.	Stock	Price
220	42	3.2	2.2	30	IT/901 10 65 6	N	£78.55
253	48	3.2	2.2	30	IT/901 10 13 6	Y	£94.20
303	60	3.2	2.2	30	IT/901 10 85 6	Y	£109.15



MANUFACTURING
TECHNOLOGY



Balance



Dynamic
Balance



Straightening



Dynamic
Straightness



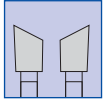
Tension



Low
Noise

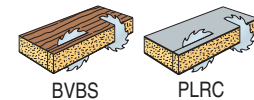
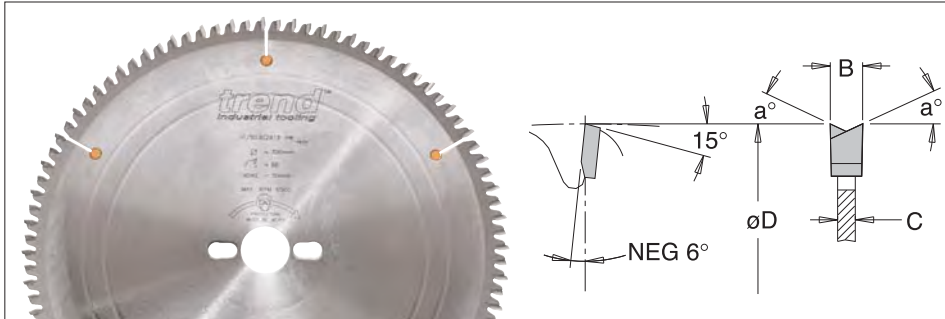
PANEL TRIMMING & SIZING SAWBLADES WITHOUT SCORER

- Suitable for trimming and sizing with a super fine finish on single and double-sided laminated boards (chipboard, MDF etc).
- High bevel angle alternate bevel tooth, negative hook.
- Special tooth form allows blade to machine double-sided laminated board without a scorer.
- For use on a table or panel saw.
- Other bore sizes available, see page 17.

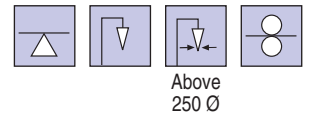


LAMINATED BOARDS & VENEERED BOARDS
ALTERNATE BEVEL TEETH
SUPER FINE FINISH

TCT

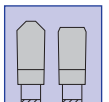


øD	Teeth	B	C	a	ø bore	Product Ref.	Stock	Price
200	64	3.0	2.2	25°	30	IT/903 02 60 6	N	£89.40
250	80	3.4	2.6	25°	30	IT/903 02 70 6	N	£109.15
300	96	3.0	2.2	35°	30	IT/903 02 84 6	Y	£124.10
300	96	3.4	2.6	25°	30	IT/903 02 80 6	N	£127.77
330	102	3.4	2.6	25°	30	IT/903 02 85 6	N	£154.70
350	108	3.4	2.6	25°	30	IT/903 02 90 6	N	£154.70
400	120	4.0	3.2	25°	30	IT/903 03 00 6	N	£172.62



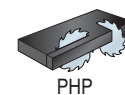
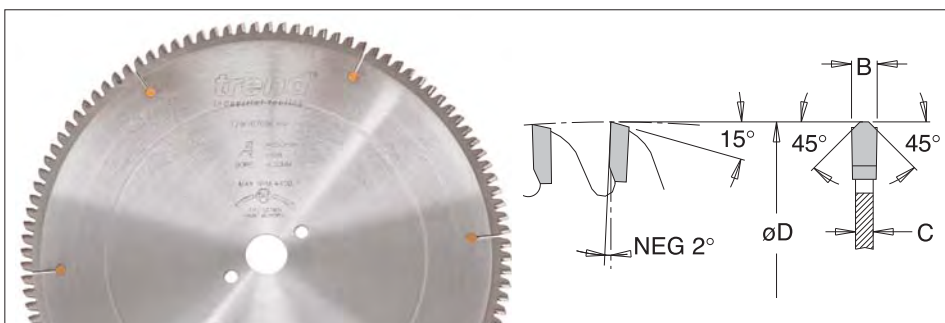
PLASTIC TRIMMING & SIZING SAWBLADES

- Suitable for trimming and sizing acrylic sheets, Plexiglas® and thermoplastic profiles.
- Triple chip, negative hook.
- Special tooth form reduces the possibility of "chip weld" or melting of material.
- For use on a table or panel saw.
- Other bore sizes available, see page 17.



PLASTIC SHEETS
TRIPLE CHIP TEETH
MEDIUM/FINE FINISH

TCT

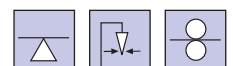


øD	Teeth	B	C	ø bore	Product Ref.	Stock	Price
250	80	2.5	1.8	30	IT/901 07 03 6	N	£121.71
300	96	3.3	2.6	30	IT/901 07 06 6	Y	£131.29
350	108	3.7	3.0	30	IT/901 07 09 6	Y	£178.11

KEY

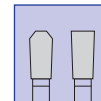
Stock - Y means normally kept in stock for next day delivery.

N means not normally held in stock, delivery in a short time.



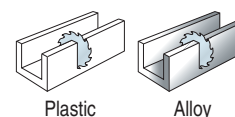
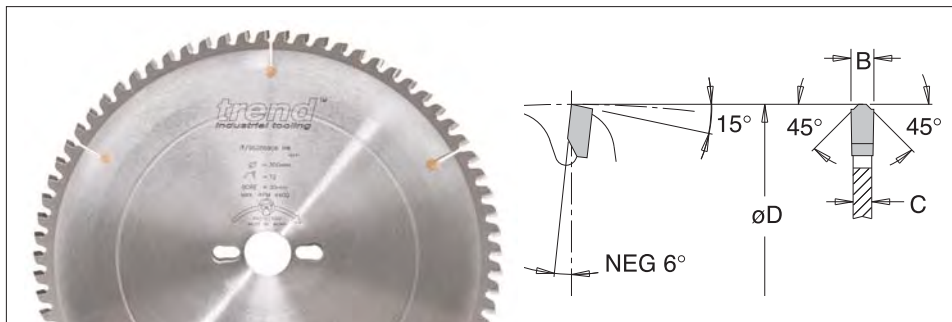
NON-FERROUS SAWBLADES

- Suitable for trimming with a medium/fine finish on aluminium and plastic profiles.
- Triple chip, negative hook.
- Material must be firmly clamped on both sides of cut and sawblade should be lubricated during use.
- For use on mitre, double cross-cutting and sizing machines.
- Other bore sizes available, see page 17.

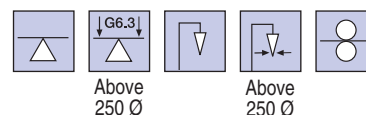


**PLASTIC & ALUMINIUM
TRIPLE CHIP TEETH
MEDIUM/FINE FINISH**

TCT



øD	Teeth	B	C	ø bore	Product Ref.	Stock	Price
216	64	2.8	2.2	30	IT/902 02 56 6	Y	£90.17
250	60	3.2	2.6	30	IT/902 00 80 6	Y	£88.72
250	80	3.2	2.6	30	IT/902 02 70 6	Y	£103.79
250	100	3.2	2.6	30	IT/902 02 75 6	Y	£116.91
275	72	3.2	2.6	32	IT/902 00 85 7	Y	£109.15
300	72	3.2	2.6	30	IT/902 00 90 6	Y	£116.35
300	96	3.2	2.6	30	IT/902 02 80 6	Y	£122.97
330	80	3.2	2.6	32	IT/902 00 95 7	Y	£122.97
330	102	3.2	2.6	30	IT/902 02 85 6	Y	£136.66
330	102	3.2	2.6	32	IT/902 02 85 7	Y	£136.66
350	84	3.2	2.6	30	IT/902 01 00 6	Y	£128.33
350	108	3.2	2.6	30	IT/902 02 90 6	Y	£148.65
380	100	2.8	2.2	30	IT/902 02 95 6	Y	£157.68
380	110	3.8	3.2	32	IT/SB/902 00 17	N	£199.79
400	96	3.8	3.2	30	IT/902 01 10 6	Y	£154.12
400	96	3.8	3.2	50	IT/902 01 10 N	Y	£161.24
400	120	3.8	3.2	30	IT/902 03 00 6	Y	£166.12
420	96	4.0	3.4	30	IT/902 03 40 6	N	£166.12
450	108	4.0	3.4	30	IT/902 04 00 6	Y	£170.23
450	120	4.0	3.4	30	IT/902 04 10 6	Y	£182.91
500	120	4.4	3.8	30	IT/902 04 20 6	Y	£224.81



MANUFACTURING TECHNOLOGY



Balance



Dynamic Balance



Straightening



Dynamic Straightness



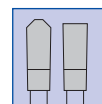
Tension



Low Noise

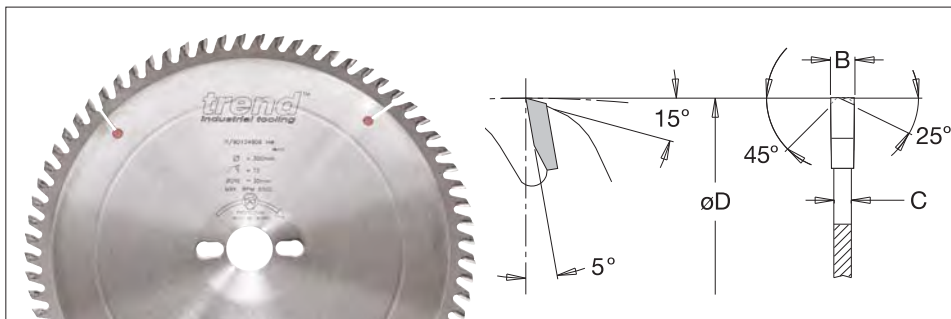
NON-FERROUS SAWBLADES

- Suitable for trimming with a medium/fine finish on solid aluminium bars.
- Triple chip tooth.
- Material must be firmly clamped on both sides of cut and sawblade should be lubricated during use.
- For use on mitre, double cross-cutting and sizing machines.
- Other bore sizes available, see page 17.



**ALUMINIUM
TRIPLE CHIP TEETH
MEDIUM/FINE FINISH**

TCT



ϕD	Teeth	B	C	ϕ bore	Product Ref.	Stock	Price
300	60	3.4	2.8	30	IT/902 50 10 6	N	£123.31
300	80	3.4	2.8	30	IT/902 54 00 6	N	£144.99
350	80	3.6	3.0	30	IT/902 50 20 6	N	£157.55
350	100	3.6	3.0	30	IT/902 54 30 6	N	£180.39
400	80	3.8	3.2	30	IT/902 50 30 6	N	£174.69
400	120	3.8	3.2	30	IT/902 54 50 6	N	£194.09
450	80	4.0	3.4	30	IT/902 56 00 6	Y	£207.79
450	100	4.0	3.4	30	IT/902 50 40 6	N	£216.92
500	80	4.2	3.5	30	IT/902 56 03 6	N	£229.48
500	100	4.2	3.5	30	IT/902 50 50 6	N	£255.73
550	100	4.4	3.8	30	IT/902 56 06 6	Y	£313.97
550	120	4.4	3.8	30	IT/902 50 60 6	Y	£323.10



KEY

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N means not normally held in stock, delivery in a short time.

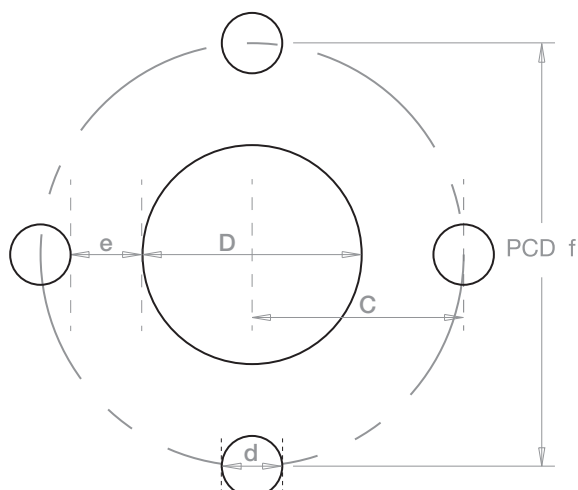
SAWBLADE RE-BORING & PIN-HOLES

- Industrial sawblades can be re-bored and pin-holed in-house with next day delivery. Please contact our Technical Support (01923 249911) for full details.
- Sawblade bore enlargement from 30mm bore and minimum dia. 200mm - for prices please contact your Stockist.
- Sawblade pin holes per hole - for prices please contact your Stockist.



Required information, see drawing:

- Diameter of bore (D).
- Quantity of pin-holes and diameter of pin-holes (d).
- Centre of sawblade to centre of pin-hole dimension (C), or edge of sawblade bore to edge of pin-hole (e) or PCD (f).

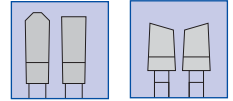


MAX THE ULTIMATE SAWING BLADES

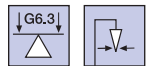
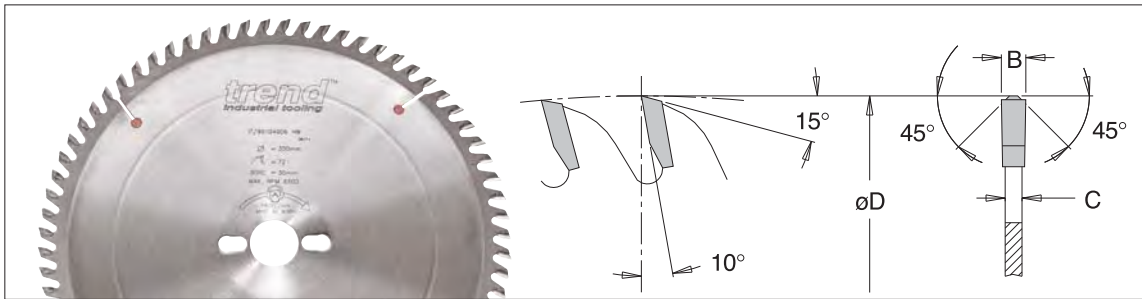
MAIN SAWBLADE FOR PANEL SIZING LAMINATED BOARDS

- Suitable for sizing single or stacked boards (chipboard, MDF etc.) with laminate coating on both sides.
- Used in conjunction with the relevant scoring sawblade.
- Triple chip tooth.
- For use on a panel sizing machine with pressure beam.
- **MAX** quality for long lasting durability.
- Contact us for other machines not listed.

TOOTH TYPE 1 TOOTH TYPE 3



BOARDS & LAMINATED BOARDS



Machine	Saw Type	OD	Teeth	B	Ød	Pin Holes	Tooth Type	Product Ref.	Stock	Price
Giben	Main Blade	355	54	4.4	75	-	1	IT/955 311 0T	N	£155.26
	Main Blade	355	72	4.4	75	-	1	IT/955 311 5T	N	£181.07
	Scorer	125	24	4.4-5.3	45	-	3	IT/956 007 9M	N	£120.56
	Main Blade	400	72	4.4	75	4/15/105	1	IT/955 313 0T	N	£197.29
	Scorer	160	36	4.4-5.3	45	3/11/70	3	IT/956 019 5M	N	£128.90
	Main Blade	430	72	4.4	75	4/15/105	1	IT/955 315 0T	N	£224.24
	Main Blade	430	96	4.4	75	4/15/105	1	IT/955 315 5T	N	£255.97
	Scorer	216	42	4.4-5.3	50	3/15/80	3	IT/956 027 0N	N	£152.88
	Scorer	300	48	4.4-5.3	50	3/15/80	3	IT/956 028 0N	N	£172.06
	Main Blade	550	72	5.0	100	-	1	IT/955 323 0Z	N	£292.51
	Scorer	180	30	5.0-5.7	55	-	3	IT/956 021 5C	N	£125.36
	Main Blade	565	72	5.0	100	-	1	IT/955 323 2Z	N	£335.66
Scorer	180	30	5.0-5.7	55	-	3	IT/956 021 5C	N	£125.36	
Holzma	Main Blade	355	72	4.4	60	2/14/100	1	IT/955 311 5R	N	£181.07
	Scorer	180	30	4.4-5.3	45	-	3	IT/956 021 0M	N	£125.05
	Main Blade	380	72	4.8	60	2/14/100	1	IT/955 312 3R	Y	£179.82
	Scorer	200	36	4.8-6.0	45	-	3	IT/956 026 1M	N	£153.32
	Main Blade	450	72	4.8	60	2/14/125 - 2/10/80	1	IT/955 317 0R	N	£242.84
	Scorer	180	30	4.8-6.0	45	-	3	IT/956 021 6M	Y	£129.47
	Scorer	340	108	5.0	45	-	1	IT/955 110 9M	N	£292.51
	Main Blade	500	60	4.8	60	2/11/115	1	IT/955 318 5R	N	£241.02
	Main Blade	500	72	4.8	60	2/11/115	1	IT/955 319 5R	N	£261.33
	Scorer	200	36	4.8-6.0	45	-	3	IT/956 026 1M	N	£153.32
	Scorer	340	108	5.0	45	-	1	IT/955 110 9M	N	£292.51
	Main Blade	520	72	4.8	60	2/11/115 - 2/19/120	1	IT/955 320 5R	N	£310.98
Scorer	200	36	4.8-6.0	45	-	3	IT/956 026 1M	N	£153.32	
Main Blade	600	72	5.8	60	2/11/115 - 2/19/120	1	IT/955 330 1R	N	£332.68	
Scorer	200	36	5.8-6.6	45	-	3	IT/956 026 8M	N	£160.93	
Schelling	Main Blade	355	72	4.4	30	-	1	IT/955 311 56	N	£175.02
	Scorer	200	36	4.4-5.3	20	-	3	IT/956 026 53	Y	£145.12
	Main Blade	400	72	4.4	30	-	1	IT/955 313 06	N	£193.63
	Scorer	200	36	4.4-5.3	20	-	3	IT/956 026 53	Y	£145.12
	Main Blade	450	72	4.4	30	-	1	IT/955 316 06	N	£217.61
	Scorer	200	36	4.4-5.3	20	-	3	IT/956 026 53	Y	£145.12

KEY

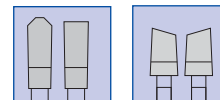
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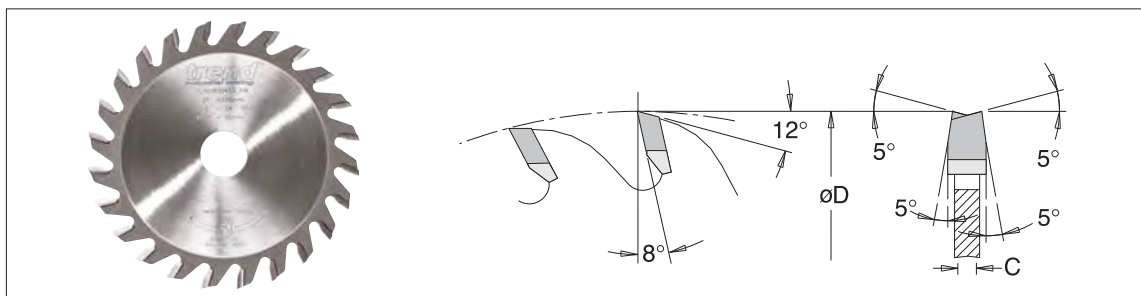
SCORING SAWBLADE FOR PANEL SIZING LAMINATED BOARDS

- Suitable for sizing single or stacked boards (chipboard, MDF etc.) with laminate coating on both sides.
- Used in conjunction with the relevant main sawblade.
- Alternate bevel conical tooth.
- For use on a panel sizing machine with pressure beam.
- **MAX** quality for long lasting durability.
- Contact us for other machines not listed.

TOOTH TYPE 1 TOOTH TYPE 3



BOARDS & LAMINATED BOARDS



Machine	Saw Type	OD	Teeth	B	Ød	Pin Holes	Tooth Type	Product Ref.	Stock	Price
Schelling (contd.)	Main Blade	500	72	4.4	30	-	1	IT/955 319 06	N	£242.47
	Scorer	200	36	4.4-5.3	20	-	3	IT/956 026 53	Y	£145.12
	Main Blade	550	72	5.0	40	-	1	IT/955 323 09	N	£281.76
	Scorer	200	36	4.4-5.3	20	-	3	IT/956 026 53	Y	£145.12
SCM/ Gabbiani	Main Blade	305	60	4.4	80	2/14/110	-	IT/955 310 5U	N	£189.19
	Scorer	160	36	4.4-5.3	55	3/7/66	3	IT/956 019 5C	N	£120.56
	Main Blade	355	72	4.4	80	2/7/110 - 4/9/100	1	IT/955 311 5U	N	£184.04
						- 2/14/110				
	Scorer	160	36	4.4-5.3	55	3/7/66	3	IT/956 019 5C	N	£120.56
	Main Blade	380	72	4.4	80	2/7/110 - 4/9/100	-	IT/955 342 3U	N	£202.46
						- 2/14/110				
	Scorer	160	36	4.4-5.3	55	3/7/66	3	IT/956 019 5C	N	£120.56
	Main Blade	380	72	4.8	80	2/14/110	1	IT/955 312 3U	Y	£194.89
	Scorer	200	36	4.8-6.0	80	2/14/110	3	IT/956 026 1U	Y	£184.04
	Main Blade	400	72	4.4	80	2/7/110 - 4/9/100	1	IT/955 313 0U	N	£200.49
						- 2/14/110				
	Scorer	160	36	4.4-5.3	55	3/7/66	3	IT/956 019 5C	Y	£120.56
Selco	Main Blade	420	72	4.4	80	2/14/110	1	IT/955 313 5U	N	£207.45
	Scorer	160	36	4.4-5.3	55	3/7/66	3	IT/956 019 5C	Y	£120.56
	Main Blade	300	72	4.4	65	2/9/110	1	IT/955 310 4S	N	£165.43
	Scorer	200	36	4.4-5.3	65	2/9/100 - 2/9/110	3	IT/956 026 5S	N	£145.12
	Main Blade	320	72	4.4	65	2/9/110	1	IT/955 335 0S	N	£229.60
	Scorer	200	36	4.4-5.3	65	2/9/100 - 2/9/110	3	IT/956 026 5S	N	£145.12
	Main Blade	380	72	4.4	80	2/9/130 - 4/19/120	1	IT/955 312 1U	N	£254.13
	Scorer	200	36	4.4-5.3	65	2/9/100 - 2/9/110	3	IT/956 026 5S	N	£145.12
	Scorer	300	72	4.6	65	2/9/110	1	IT/955 110 6S	N	£227.19
	Main Blade	400	72	4.4	80	2/9/130 - 4/19/120	1	IT/955 313 2U	N	£199.00
	Scorer	200	36	4.4-5.3	65	2/9/100 - 2/9/110	3	IT/956 026 5S	N	£145.12
	Scorer	300	72	4.6	65	2/9/110	1	IT/955 110 6S	N	£227.19
	Main Blade	430	72	4.4	80	2/9/130 - 4/19/120	1	IT/955 315 0U	N	£224.24
	Scorer	200	36	4.4-5.3	65	2/9/100 - 2/9/110	3	IT/956 026 5S	N	£145.12
	Scorer	300	72	4.6	65	2/9/110	1	IT/955 110 6S	N	£227.19
	Main Blade	450	72	4.4	80	2/9/130 - 4/19/120	1	IT/955 316 0U	N	£227.19
	Scorer	200	36	4.4-5.3	65	2/9/100 - 2/9/110	3	IT/956 026 5S	Y	£145.12
	Main Blade	450	72	4.8	80	2/9/130 - 4/19/120	1	IT/955 317 0U	N	£242.84
Scorer	200	36	4.8-6.0	65	2/9/110	3	IT/956 026 1S	Y	£145.12	

MANUFACTURING TECHNOLOGY



Balance



Dynamic Balance



Straightening



Dynamic Straightness



Tension



Low Noise

SAWBLADES BY DIAMETER LOOK UP CHART

Diam.	Teeth	Bore	B Kerf	Form	Product Ref.	Price	Page	Diam.	Teeth	Bore	B Kerf	Form	Product Ref.	Price	Page
80	2x10	20	2.8-3.6	ATB	IT/906 00 09 3	£86.30	11	250	60	30	3.2	ATB	IT/901 04 10 6	£78.55	9
100	20	20	3.0-4.1	ATB Con	IT/906 00 51 3	£94.76	11	250	60	30	3.2	ATB	IT/950 04 10 6	£94.20	9
100	20	22	3.0-4.1	ATB Con	IT/906 00 51 4	£94.76	11	250	60	30	3.2	TCF	IT/901 04 80 6	£84.61	10
100	20	20	3.2-4.1	ATB Con	IT/906 00 41 3	£94.76	11	250	60	30	3.2	TCF Neg	IT/902 00 80 6	£88.72	15
100	20	22	3.2-4.1	ATB Con	IT/906 00 41 4	£94.76	11	250	60	30	3.2	TCF	IT/950 04 80 6	£102.53	10
100	2x12	20	2.8-3.6	ATB	IT/906 00 10 3	£86.30	11	250	72	30	3.2	ATB	IT/901 40 60 6	£90.54	7
100	2x12	20	2.8-3.6	ATB	IT/956 10 10 3	£245.24	12	250	80	30	3.2	ATB	IT/901 05 70 6	£90.54	9
100	2x12	22	2.8-3.6	ATB	IT/906 00 10 4	£86.30	11	250	80	30	3.2	ATB	IT/950 05 70 6	£111.55	9
120	24	20	2.8-3.6	ATB Con	IT/906 00 44 3	£94.76	11	250	80	30	3.2	TCF	IT/901 06 10 6	£90.54	10
120	24	22	2.8-3.6	ATB Con	IT/906 00 44 4	£94.76	11	250	80	30	3.2	TCF	IT/950 06 10 6	£118.74	10
120	24	20	3.2-4.1	ATB Con	IT/906 00 45 3	£94.76	11	250	80	30	2.5	TCF Neg	IT/901 07 03 6	£121.71	14
120	24	20	3.2-4.1	ATB Con	IT/956 00 45 3	£115.09	11	250	80	30	3.2	TCF Neg	IT/902 02 70 6	£103.79	15
120	24	22	3.2-4.1	ATB Con	IT/906 00 45 4	£94.76	11	250	80	30	3.4	ATB	IT/903 02 70 6	£109.15	14
120	24	22	3.2-4.1	ATB Con	IT/956 00 45 4	£115.09	11	250	100	30	3.2	TCF Neg	IT/902 02 75 6	£116.91	15
120	2x12	20	2.8-3.6	ATB	IT/906 00 30 3	£91.79	11	253	48	30	3.2	HP	IT/901 10 10 6	£94.20	13
120	2x12	20	2.8-3.6	ATB	IT/956 00 30 3	£122.28	11	253	48	30	3.2	HP Neg	IT/901 10 13 6	£94.20	13
120	2x12	20	2.8-3.6	ATB	IT/956 20 30 3	£254.13	12	260	60	30	3.2	ATB Neg	IT/SB/912 00 26	£93.62	7
120	2x12	22	2.8-3.6	ATB	IT/906 00 30 4	£91.79	11	275	72	32	3.2	TCF Neg	IT/902 00 85 7	£109.15	15
120	2x12	22	2.8-3.6	ATB	IT/956 00 30 4	£122.28	11	300	24	30	3.2	Flat	IT/901 00 50 6	£55.15	6
120	2x12	22	2.8-3.6	ATB	IT/956 10 30 4	£254.13	12	300	24	30	3.2	Flat	IT/901 01 00 6	£64.74	7
125	24	20	3.2-4.1	ATB Con	IT/906 00 69 3	£94.76	11	300	24	30	4.0	Flat	IT/901 20 20 6	£71.92	6
125	24	22	3.2-4.1	ATB Con	IT/906 00 69 4	£94.76	11	300	24	30	4.4	Flat	IT/901 20 30 6	£71.92	6
125	24	45	4.4-5.3	ATB Con	IT/956 00 79 M	£120.56	18	300	28	30	3.2	Flat	IT/901 01 04 6	£68.96	7
125	2x12	20	2.8-3.6	ATB	IT/906 00 40 3	£91.79	11	300	30	30	3.2	Flat	IT/901 00 60 6	£61.20	6
125	2x12	20	2.8-3.6	ATB	IT/956 10 40 3	£254.13	12	300	36	30	3.2	ATB	IT/901 01 70 6	£65.42	8
125	2x12	22	2.8-3.6	ATB	IT/906 00 40 4	£91.79	11	300	36	30	3.8	ATB Neg	IT/908 01 30 6	£87.00	7
125	2x12	22	2.8-3.6	ATB	IT/956 10 40 4	£254.13	12	300	48	30	3.2	ATB	IT/901 02 70 6	£74.33	8
160	36	45	4.4-5.3	ATB Con	IT/956 01 95 M	£128.90	18	300	48	50	4.4-5.3	ATB Con	IT/956 02 80 N	£172.06	18
160	36	55	4.4-5.3	ATB Con	IT/956 01 95 C	£120.56	19	300	60	30	3.2	ATB	IT/901 04 20 6	£84.61	9
180	30	45	4.8-6.0	ATB Con	IT/956 02 16 M	£129.47	18	300	60	30	3.2	TCF	IT/901 04 85 6	£90.54	10
180	30	55	5.0-5.7	ATB Con	IT/956 02 15 C	£125.36	18	300	60	30	3.4	TCF	IT/902 50 10 6	£123.31	16
200	36	20	4.4-5.3	ATB Con	IT/956 02 65 3	£145.12	19	300	72	30	3.2	ATB	IT/901 04 30 6	£95.33	9
200	36	20	5.0-5.7	ATB Con	IT/956 02 62 3	£146.94	18	300	72	30	3.2	ATB	IT/950 04 30 6	£116.35	9
200	36	45	4.8-6.0	ATB Con	IT/956 02 61 M	£153.32	18	300	72	30	3.2	TCF	IT/901 04 90 6	£101.95	10
200	36	45	5.8-6.6	ATB Con	IT/956 02 68 M	£160.93	18	300	72	30	3.2	TCF	IT/950 04 90 6	£125.36	10
200	36	65	4.4-5.3	ATB Con	IT/956 02 65 S	£145.12	19	300	72	30	3.2	TCF Neg	IT/902 00 90 6	£116.35	15
200	36	65	4.8-6.0	ATB Con	IT/956 02 61 S	£145.12	19	300	72	65	4.6	ATB	IT/955 11 06 S	£227.19	19
200	64	30	3.0	ATB	IT/901 05 50 6	£78.77	9	300	72	65	4.4	TCF	IT/955 31 04 S	£165.43	19
200	64	30	3.0	ATB	IT/903 02 60 6	£89.40	14	300	80	30	3.4	TCF	IT/902 54 00 6	£144.99	16
200	64	30	3.0	TCF	IT/901 06 08 6	£86.77	10	300	96	30	3.2	ATB	IT/901 05 80 6	£106.75	9
215	48	30	2.8	ATB Neg	IT/912 04 11 6	£71.92	7	300	96	30	3.2	ATB	IT/950 05 80 6	£130.15	9
215	60	30	2.8	ATB Neg	IT/912 05 45 6	£81.06	7	300	96	30	3.2	TCF	IT/901 06 20 6	£106.17	10
215	80	30	2.8	ATB Neg	IT/SB/912 00 16	£83.34	7	300	96	30	3.2	TCF	IT/950 06 20 6	£139.06	10
216	42	50	4.4-5.3	ATB Con	IT/956 02 70 N	£152.88	18	300	96	30	3.3	TCF Neg	IT/901 07 06 6	£131.29	14
216	64	30	2.8	TCF Neg	IT/902 02 56 6	£90.17	15	300	96	30	3.2	TCF Neg	IT/902 02 80 6	£122.97	15
220	42	30	3.2	HP Neg	IT/901 10 65 6	£78.55	13	300	96	30	3.4	ATB	IT/903 02 80 6	£127.77	14
220	64	30	3.0	TCF	IT/901 06 12 6	£91.91	10	300	96	30	3.0	ATB	IT/903 02 84 6	£124.10	14
230	24	30	3.0	ATB	IT/901 01 50 6	£51.38	8	303	60	30	3.2	HP Neg	IT/901 10 85 6	£109.15	13
230	40	30	3.0	ATB	IT/901 02 50 6	£66.22	8	303	60	30	3.3	HP	IT/901 10 25 6	£109.15	13
250	20	30	3.2	Flat	IT/901 00 30 6	£44.41	6	305	48	30	3.2	ATB Neg	IT/SB/912 00 36	£77.64	7
250	24	30	3.2	Flat	IT/901 00 40 6	£46.24	6	305	60	30	3.2	ATB Neg	IT/SB/912 00 46	£107.32	7
250	24	30	3.2	Flat	IT/901 00 95 6	£54.57	7	305	60	80	4.4	TCF	IT/955 31 05 U	£189.19	19
250	24	30	3.4	ATB Neg	IT/908 01 10 6	£62.33	7	315	24	30	3.2	Flat	IT/901 01 08 6	£68.95	7
250	30	30	3.2	ATB	IT/901 01 60 6	£54.57	8	315	48	30	3.2	ATB	IT/SB/901 00 16	£101.61	8
250	40	30	3.2	ATB	IT/901 02 60 6	£63.03	8	315	72	30	3.2	ATB	IT/SB/901 00 26	£113.03	9
250	40	30	3.2	TCF	IT/901 04 75 6	£71.92	10	320	72	65	4.4	TCF	IT/955 33 50 S	£229.60	19
250	42	30	3.4	ATB Neg	IT/908 01 20 6	£100.13	7	330	80	32	3.2	TCF Neg	IT/902 00 95 7	£122.97	15
250	48	30	3.2	ATB	IT/901 02 63 6	£68.39	8	330	102	30	3.2	TCF Neg	IT/902 02 85 6	£136.66	15



SAWBLADES BY DIAMETER LOOK UP CHART

Diam.	Teeth	Bore	B Kerf	Form	Product Ref.	Price	Page
330	102	30	3.4	ATB	IT/903 02 85 6	£154.70	14
330	102	32	3.2	TCF Neg	IT/902 02 85 7	£136.66	15
340	108	45	5.0	ATB	IT/955 11 09 M	£292.51	18
350	28	30	3.5	Flat	IT/901 00 70 6	£68.95	6
350	28	30	4.0	Flat	IT/901 20 60 6	£87.57	6
350	28	30	4.4	Flat	IT/901 20 50 6	£87.57	6
350	32	30	3.5	Flat	IT/901 01 13 6	£87.00	7
350	36	30	3.5	ATB	IT/901 01 79 6	£78.55	8
350	42	30	3.5	ATB	IT/901 01 80 6	£79.82	8
350	42	30	4.2	ATB Neg	IT/908 01 50 6	£106.17	7
350	54	30	3.5	ATB	IT/901 02 80 6	£91.79	8
350	72	30	3.2	HP	IT/901 10 30 6	£136.66	13
350	72	30	3.5	ATB	IT/901 04 40 6	£102.53	9
350	72	30	3.5	ATB	IT/950 04 40 6	£125.36	9
350	72	30	3.5	TCF	IT/901 04 95 6	£109.72	10
350	72	30	3.5	TCF	IT/950 04 95 6	£134.26	10
350	80	30	3.6	TCF	IT/902 50 20 6	£157.55	16
350	84	30	3.2	TCF Neg	IT/902 01 00 6	£128.33	15
350	84	30	3.5	ATB	IT/901 04 50 6	£116.35	9
350	84	30	3.5	ATB	IT/950 04 50 6	£142.15	9
350	84	30	3.5	TCF	IT/901 05 00 6	£125.36	10
350	84	30	3.5	TCF	IT/950 05 00 6	£152.30	10
350	100	30	3.6	TCF	IT/902 54 30 6	£180.39	16
350	108	30	3.2	TCF Neg	IT/902 02 90 6	£148.65	15
350	108	30	3.4	ATB	IT/903 02 90 6	£154.70	14
350	108	30	3.5	ATB	IT/901 05 90 6	£128.90	9
350	108	30	3.5	ATB	IT/950 05 90 6	£157.68	9
350	108	30	3.5	TCF	IT/901 06 30 6	£138.49	10
350	108	30	3.5	TCF	IT/950 06 30 6	£160.64	10
350	108	30	3.7	TCF Neg	IT/901 07 09 6	£178.11	14
355	54	75	4.4	TCF	IT/955 31 10 T	£155.26	18
355	72	30	4.4	TCF	IT/955 31 15 6	£175.02	18
355	72	60	4.4	TCF	IT/955 31 15 R	£181.07	18
355	72	75	4.4	TCF	IT/955 31 15 T	£181.07	18
355	72	80	4.4	TCF	IT/955 31 15 U	£184.04	19
380	72	60	4.8	TCF	IT/955 31 23 R	£179.82	18
380	72	80	4.4	TCF	IT/955 31 21 U	£254.13	19
380	72	80	4.4	TCF	IT/955 34 23 U	£202.46	19
380	100	30	2.8	TCF Neg	IT/902 02 95 6	£157.68	15
380	110	32	3.8	TCF Neg	IT/SB/902 00 17	£199.79	15
400	28	30	3.5	Flat	IT/901 01 15 6	£88.72	7
400	32	30	3.5	Flat	IT/901 00 80 6	£79.29	6
400	32	30	4.0	Flat	IT/901 21 10 6	£100.13	6
400	32	30	4.4	Flat	IT/901 20 90 6	£100.13	6
400	48	30	3.5	ATB	IT/901 01 90 6	£89.40	8
400	48	30	4.2	ATB Neg	IT/908 01 70 6	£121.15	7
400	60	30	3.5	ATB	IT/901 02 90 6	£101.95	8
400	72	30	4.4	TCF	IT/955 31 30 6	£193.63	18
400	72	75	4.4	TCF	IT/955 31 30 T	£197.29	18
400	72	80	4.4	TCF	IT/955 31 30 U	£200.49	19
400	72	80	4.4	TCF	IT/955 31 32 U	£199.00	19
400	80	30	3.8	TCF	IT/902 50 30 6	£174.69	16
400	96	30	3.5	ATB	IT/901 04 60 6	£133.69	9
400	96	30	3.5	TCF	IT/901 05 10 6	£138.68	10
400	96	30	3.8	TCF Neg	IT/902 01 10 6	£154.12	15
400	120	30	3.5	ATB	IT/901 06 00 6	£154.12	9

Diam.	Teeth	Bore	B Kerf	Form	Product Ref.	Price	Page
400	120	30	3.5	TCF	IT/901 06 40 6	£164.86	10
400	120	30	3.8	TCF Neg	IT/902 03 00 6	£166.12	15
400	120	30	3.8	TCF	IT/902 54 50 6	£194.09	16
400	120	30	4.0	ATB	IT/903 03 00 6	£172.62	14
420	72	80	4.4	TCF	IT/955 31 35 U	£207.45	19
420	96	30	4.0	TCF Neg	IT/902 03 40 6	£166.12	15
430	72	75	4.4	TCF	IT/955 31 50 T	£224.24	18
430	72	80	4.4	TCF	IT/955 31 50 U	£224.24	19
430	96	75	4.4	TCF	IT/955 31 55 T	£255.97	18
450	32	30	4.0	Flat	IT/901 00 84 6	£89.12	6
450	40	30	4.0	Flat	IT/901 01 16 6	£122.28	7
450	54	30	4.0	ATB	IT/901 02 00 6	£122.28	8
450	66	30	4.0	TCF	IT/901 02 98 6	£147.50	10
450	66	30	4.0	ATB	IT/901 03 00 6	£137.91	8
450	72	30	4.4	TCF	IT/955 31 60 6	£217.61	18
450	72	60	4.8	TCF	IT/955 31 70 R	£242.84	18
450	72	80	4.4	TCF	IT/955 31 60 U	£227.19	19
450	72	80	4.8	TCF	IT/955 31 70 U	£242.84	19
450	80	30	4.0	TCF	IT/902 56 00 6	£207.79	16
450	100	30	4.0	TCF	IT/902 50 40 6	£216.92	16
450	108	30	4.0	TCF Neg	IT/902 04 00 6	£170.23	15
450	120	30	4.0	TCF Neg	IT/902 04 10 6	£182.91	15
450	132	30	4.0	ATB	IT/901 06 03 6	£178.11	9
450	132	30	4.0	TCF	IT/901 06 41 6	£190.66	10
500	36	30	4.4	Flat	IT/901 00 85 6	£108.76	6
500	44	30	4.4	Flat	IT/901 01 18 6	£147.50	7
500	60	30	4.4	ATB	IT/901 02 05 6	£145.68	8
500	60	60	4.8	TCF	IT/955 31 85 R	£241.02	18
500	72	30	4.4	ATB	IT/901 03 20 6	£146.94	8
500	72	30	4.4	TCF	IT/955 31 90 6	£242.47	19
500	72	60	4.8	TCF	IT/955 31 95 R	£261.33	18
500	80	30	4.2	TCF	IT/902 56 03 6	£229.48	16
500	100	30	4.2	TCF	IT/902 50 50 6	£255.73	16
500	120	30	4.4	ATB	IT/901 04 63 6	£199.69	9
500	120	30	4.4	TCF	IT/901 05 17 6	£214.64	10
500	120	30	4.4	TCF Neg	IT/902 04 20 6	£224.81	15
520	72	60	4.8	TCF	IT/955 32 05 R	£310.98	18
550	72	40	5.0	TCF	IT/955 32 30 9	£281.76	19
550	72	100	5.0	TCF	IT/955 32 30 Z	£292.51	18
550	100	30	4.4	TCF	IT/902 56 06 6	£313.97	16
550	120	30	4.4	TCF	IT/902 50 60 6	£323.10	16
565	72	100	5.0	TCF	IT/955 32 32 Z	£335.66	18
600	72	60	5.8	TCF	IT/955 33 01 R	£332.68	18

SPINDLE TOOLING

THESE CUTTERS MEET ALL THE REQUIREMENTS OF THE MODERN WOODWORKING INDUSTRY

INCLUDING:

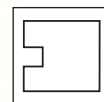
- Multi profile cutter heads with tool steel and Tungsten Carbide knives, Tungsten Carbide brazed tip tooling and disposable insert tooling.

DISPOSABLE INSERT TOOLING BRINGS THE FOLLOWING BENEFITS:

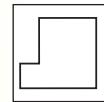
- A clean and accurate cut.
- Harder carbide grade than standard brazed tip tooling as no heat is used in the manufacturing process.
- Quick to set up.
- Saves tooling costs.
- No re-sharpening costs.
- Profile always remains the same.



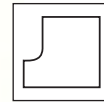
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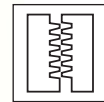
GROOVING



REBATING, PLANING & CHAMFERING



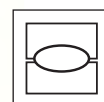
PROFILING



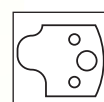
JOINTING



FRAME & PANEL DOOR



LAMELLO® BISCUIT BLADE



MULTI PROFILE SYSTEM

SAFETY STANDARD EN 847-1/2



The harmonisation of various woodworking safety standards in 1997 resulted in the EN 847 norm being introduced across Europe. This standard details technical safety requirements of machine tools for wood processing and is binding on all the EU countries and CEN member states. EN 847 replaced the standards that were previously in force in all the member states.

Limited cutter projection tooling (suitable for hand feed) dramatically reduces the severity of injury when hands come into contact with the rotating tool and the risk of material kickback.

MAN - HAND FEED REGULATIONS

The regulations state that hand feed is regarded as the holding and guiding of workpieces by hand. The term 'hand-feed' also applies to the use of demountable power feed units or using a hand-operated carriage on which the workpiece is placed manually or clamped.

Hand feed tools have the following characteristics:



- Chip thickness limitation: max 1.1mm knife projection for non-circular tools and 3mm for circular tools.
- Limited tooth gullet space.
- Mainly circular form.

Tools conforming to this standard are marked MAN or carry the hand feed logo.

ALL OF THE CUTTER BLOCKS IN THIS CATALOGUE ARE SUPPLIED WITH 30MM AND 1-1/4" BORE AS STANDARD.

OTHER BORE SIZES CAN BE SUPPLIED, PLEASE ASK FOR DETAILS.

MEC - MECHANICAL FEED REGULATIONS

Mechanical feed is the feeding of the material workpiece by mechanical means. Tools conform to general safety standards, but are not subject to standards concerning knife projection or tooth gullet width.

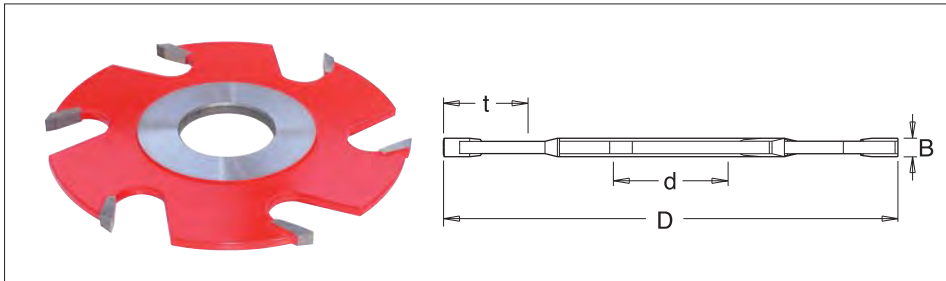
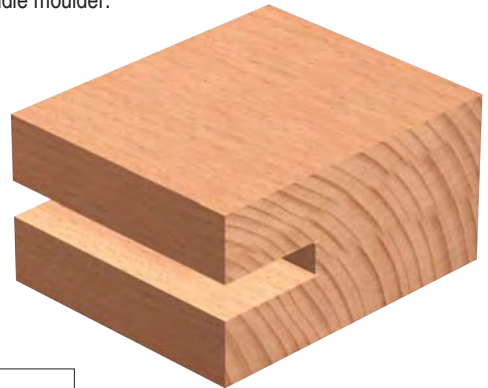
All the cutters in the spindle section are manufactured in accordance with the EN 847 standard and are marked with the following information:

Company Name	Trend Industrial Tooling
Feed Type	e.g. MAN or MEC
Dimensions	e.g. Cutting Diameter x Width of Cut x Bore in mm
RPM	e.g. nMin - nMax or nMax
Month/Year of manufacture	e.g. coded

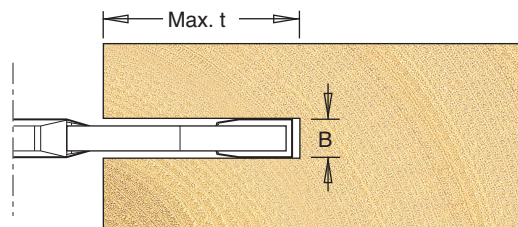


GROOVING CUTTERS 3-16MM

- Hard wearing steel body complete with 6 Tungsten Carbide Tips (z).
- Suitable for producing grooves and slots in softwood, hardwood and man-made boards on a spindle moulder.
- Tungsten Carbide teeth can be re-ground (will effect tool dimensions).
- Recommended RPM (n) 125mm diameter 6,100 – 10,500. 150mm diameter 5,200 - 8,900.
- Suitable for Hand Feeding (MAN).
- 180mm diameter available to special order.



D	B	z	max. t	30mm Bore d	1 1/4" Bore d	Stock	Price
125	3	6	32	IT/707 001 1	IT/707 001 7	Y	£72.50
125	4	6	32	IT/707 004 1	IT/707 004 7	Y	£72.50
125	5	6	32	IT/707 007 1	IT/707 007 7	Y	£74.55
125	6	6	32	IT/707 010 1	IT/707 010 7	Y	£78.09
125	8	6	32	IT/707 013 1	IT/707 013 7	Y	£82.20
125	10	6	32	IT/707 016 1	IT/707 016 7	Y	£88.36
125	12	6	32	IT/707 019 1	IT/707 019 7	Y	£93.51
125	14	6	32	IT/707 022 1	IT/707 022 7	Y	£102.30
125	16	6	32	IT/707 025 1	IT/707 025 7	Y	£132.44
150	4	6	45	IT/707 031 1	IT/707 031 7	Y	£79.12
150	5	6	45	IT/707 034 1	IT/707 034 7	Y	£83.23
150	6	6	45	IT/707 037 1	IT/707 037 7	Y	£86.77
150	8	6	45	IT/707 040 1	IT/707 040 7	Y	£87.57
150	10	6	45	IT/707 043 1	IT/707 043 7	Y	£100.24
150	12	6	45	IT/707 046 1	IT/707 046 7	Y	£105.84
150	14	6	45	IT/707 049 1	IT/707 049 7	Y	£117.59
150	16	6	45	IT/707 052 1	IT/707 052 7	Y	£147.40



KEY

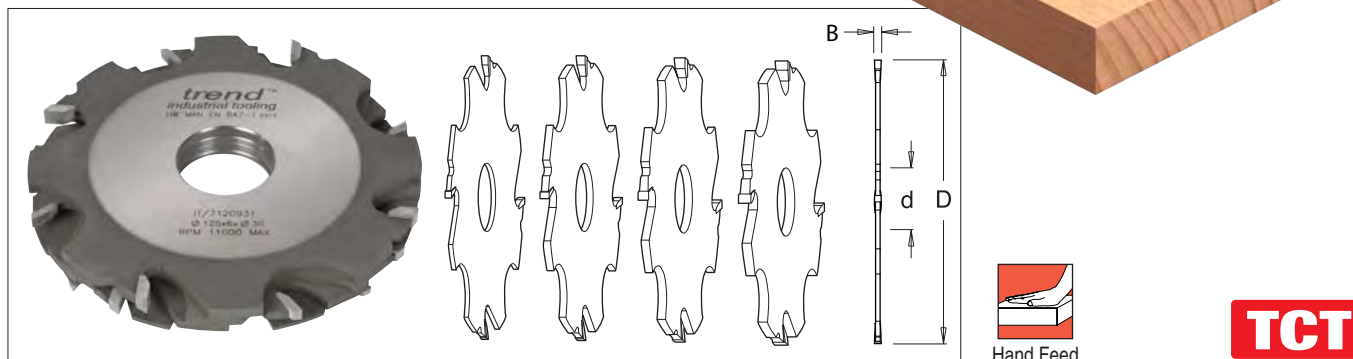
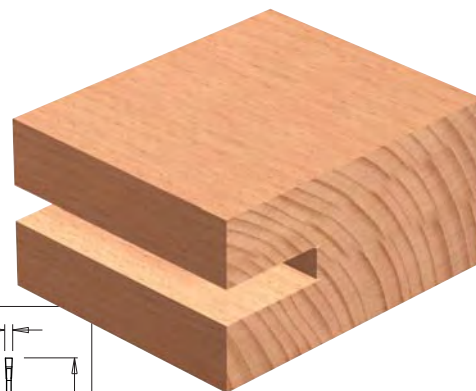
Spare Knives and Scorers - Product Reference ending in /10 are sold in packs of ten.

Stock - Y means normally kept in stock for next day delivery.

N means not normally held in stock, delivery in a short time.

ADJUSTABLE GROOVING CUTTER 3.0-18.0MM

- Hard wearing steel body complete with 4 Tungsten Carbide Tips (z).
- Suitable for producing various width grooves and slots in softwood, hardwood and man-made boards on a spindle moulder.
- By combining cutters and spacers from the set, cutting width can be adjusted from 3.0mm to 18.0mm. See table below for groove widths and required cutter/spacer combination.
- Groovers can be purchased separately.
- Recommended RPM (n) 6,100 – 10,500.
- Suitable for Hand Feeding (MAN).



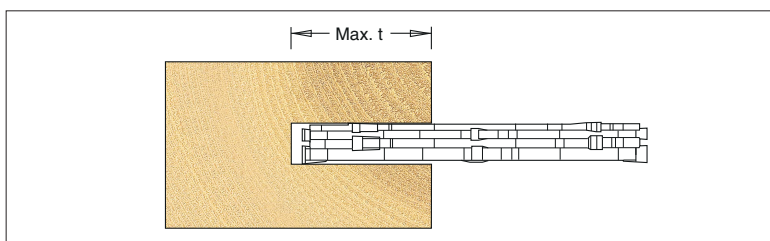
D	B	v	max. t	30mm Bore d	1 1/4" Bore d	Stock	Price
125	3.0 - 18.0	4	32	IT/712 094 1	IT/712 094 7	Y	£206.59

SPARE GROOVERS

D	B	v	max. t	30mm Bore d	1 1/4" Bore d	Stock	Price
125	3.0	4	32	IT/712 090 1	IT/712 090 7	Y	£46.38
125	4.0	4	32	IT/712 091 1	IT/712 091 7	Y	£48.06
125	5.0	4	32	IT/712 092 1	IT/712 092 7	Y	£49.68
125	6.0	4	32	IT/712 093 1	IT/712 093 7	Y	£52.96

SPACER SET

Description	Spacers	
Product Ref.	IT/192 705 1	IT/192 705 7
Size	50x3.8x30	50x3.8x1-1/4"
Price	£39.69	£39.69



Kerf (B)	Cutter No.	Spacer	Cutter No.	Spacer	Cutter No.	Spacer	Cutter No.
3	3						
4	4						
5	5						
6	6						
7	4	0.9	3				
8	5	1.2	3				
9	5	1.2	4				
10	6	1.3	4				
11	6	1.6	5				
12	5	1.2	4	0.9	3		
13	6	1.3	4	1.0	3		
14	6	1.6	5	1.2	3		
15	6	1.6	5	1.2	4		
16	6	1.1	5	0.2	4	0.6	3
17	6	1.1	5	1.2	4	0.6	3
18	6	1.6	5	1.2	4	1.0	3

KEY

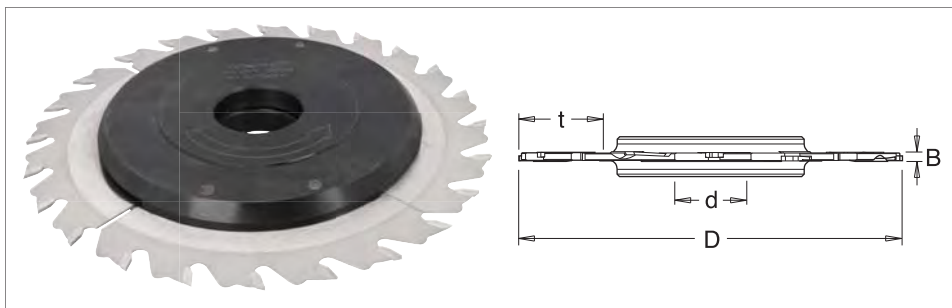
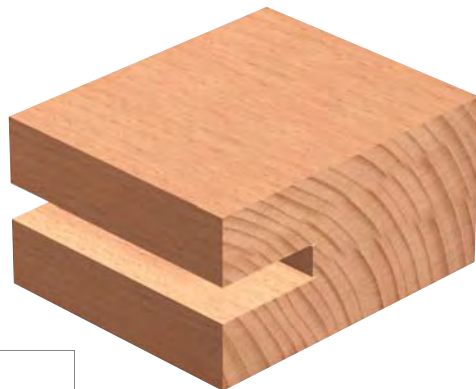
Spare Knives and Scorers - Product Reference ending in /10 are sold in packs of ten

Stock - Y means normally kept in stock for next day delivery.

N means not normally held in stock, delivery in a short time.

ADJUSTABLE THIN KERF GROOVING CUTTERS 24 TEETH 1.5-6.0MM

- Hard wearing steel body 'sawblade' style groover with 24 Tungsten Carbide teeth.
- Suitable for producing various width grooves and slots in softwood, hardwood and man-made board on a spindle moulder.
- Cutting width can be adjusted by 0.1mm by using supplied spacer rings.
- Special grinding shape on teeth for extremely clean cut.
- Same tool body suits both 1.5 - 3.0mm and 3.0 - 6.0mm groovers.
- Recommended RPM (n) 8,000.
- Suitable for hand feeding (MAN).



D	B	z	max. t	30mm Bore d	1 1/4" Bore d	Stock	Price
160	1.5 - 3.0	24	25	IT/712 314 1	IT/712 314 7	Y	£173.40
160	3.0 - 6.0	24	25	IT/712 218 1	IT/712 218 7	Y	£173.40

SPARE KNIVES

Description	T.C. Blade	
	Product Ref.	IT/712 217 8
Size	160x1.5 B=1.5 - 3.0mm	160x3.0 B=3.0 - 6.0mm
Price	£56.10	£60.18

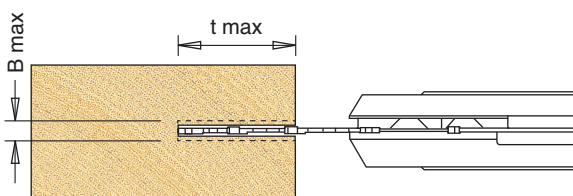
SPARE TOOL BODY inc. Spacers

Description	Tool Body	
	Product Ref.	IT/712 440 1
Size	110x30 B=1.5 - 6.0mm	110x1-1/4" B=1.5 - 6.0mm
Price	£145.86	£145.86

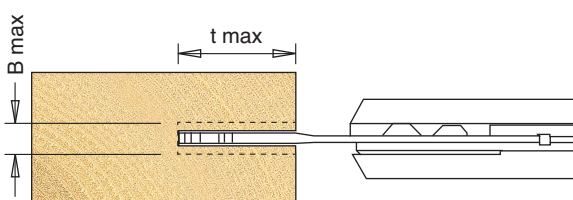
SPARE PARTS

Hex Screw	Hex Key
IT/193 078 5	IT/194 003 4
M5 x 10	S3
£1.59	£5.02

Ref. IT/712 314 1



Ref. IT/712 218 1

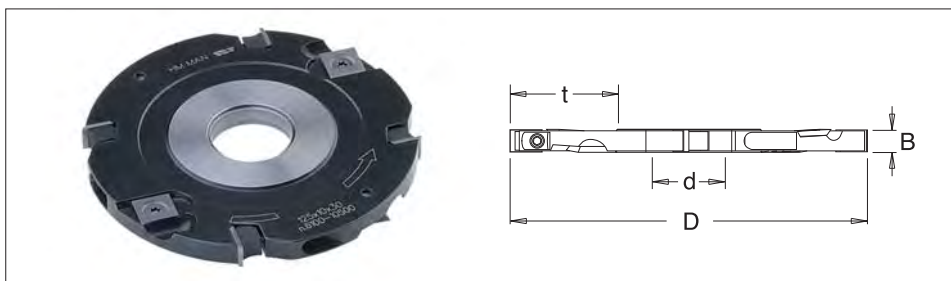
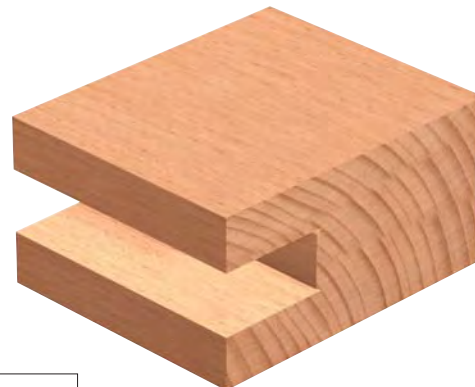


KEY

Stock - Y means normally kept in stock for next day delivery.
N means not normally held in stock, delivery in a short time.

DISPOSABLE INSERT GROOVING CUTTERS WITH SCORERS 4-12MM

- Hard wearing steel body complete with disposable Tungsten Carbide knives (z) and scorers (v).
- Suitable for producing grooves and slots in softwood, hardwood and man-made boards on a spindle moulder.
- Recommended RPM (n) 150mm diameter 5,200 – 8,900. 180mm diameter 4,200 - 7,200.
- Suitable for Hand Feeding (MAN).
- 125mm diameter available to special order.



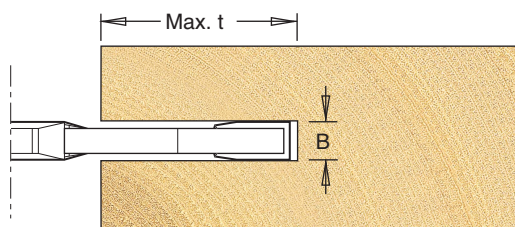
D	B	z	v	max. t	30mm Bore d	1 1/4" Bore d	Stock	Price
150	4	4	4	45	IT/721 004 1	IT/721 004 7	Y	£139.18
150	5	4	4	45	IT/721 005 1	IT/721 005 7	Y	£144.43
150	6	4	4	45	IT/721 006 1	IT/721 006 7	Y	£152.65
150	8	4	4	45	IT/721 013 1	IT/721 013 7	Y	£117.72
150	10	4	4	45	IT/721 014 1	IT/721 014 7	Y	£126.96
150	12	4	4	45	IT/721 015 1	IT/721 015 7	Y	£134.15
180	4	8	8	55	IT/721 007 1	IT/721 007 7	Y	£242.49
180	6	8	8	55	IT/721 009 1	IT/721 009 7	Y	£262.49
180	8	4	8	55	IT/721 016 1	IT/721 016 7	Y	£128.44
180	10	4	8	55	IT/721 017 1	IT/721 017 7	Y	£134.15
180	12	4	8	55	IT/721 018 1	IT/721 018 7	Y	£139.18

SPARE KNIVES

Description	T.C. Blade					
Product Ref.	IT/300 850 1/10	IT/300 850 4/10	IT/300 850 5/10	IT/310 751 2/10	IT/300 750 7/10	IT/300 750 9/10
Size	18x18x2 B=4mm	18x18x2.5 B=5mm	18x18x2.95 B=6mm	7.5x12x1.5 B=8mm	9.6x12x1.5 B=10mm	11.6x12x1.5 B=12mm
Price	£59.81	£70.69	£80.46	£33.46	£27.75	£38.07

SPARE SCORERS

Description	T.C.Blade	
Product Ref.	IT/300 850 2/10	IT/300 850 3/10
Size	14x14x1.2 B=4-6mm	14x14x2 B=8-12mm
Price	£27.75	£22.15



KEY

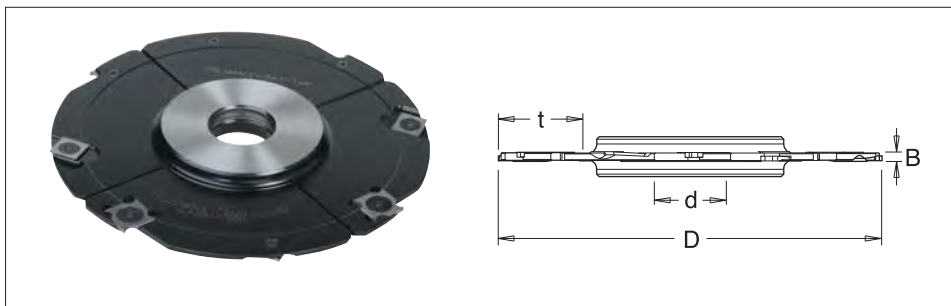
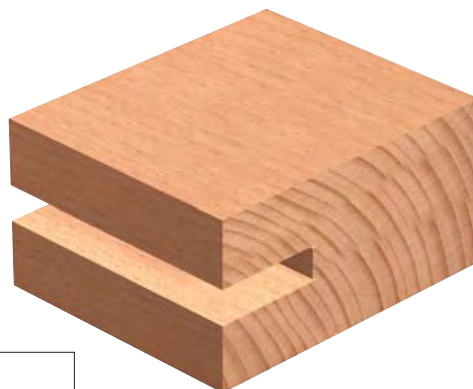
Spare Knives and Scorers - Product Reference ending in /10 are sold in packs of ten.

Stock - Y means normally kept in stock for next day delivery.

N means not normally held in stock, delivery in a short time.

DISPOSABLE INSERT ADJUSTABLE GROOVING CUTTERS WITH SCORERS 4-24MM

- Hard wearing steel body complete with disposable Tungsten Carbide knives (z) and scorers (v).
- Suitable for producing various width grooves and slots in softwood, hardwood and man-made boards on a spindle moulder.
- Cutting width can be adjusted by 0.1mm by using supplied spacer rings.
- Recommended RPM (n) 160mm diameter 4,800 – 8,300. 180mm diameter 4,300 – 7,500.
- Suitable for Hand Feeding (MAN).



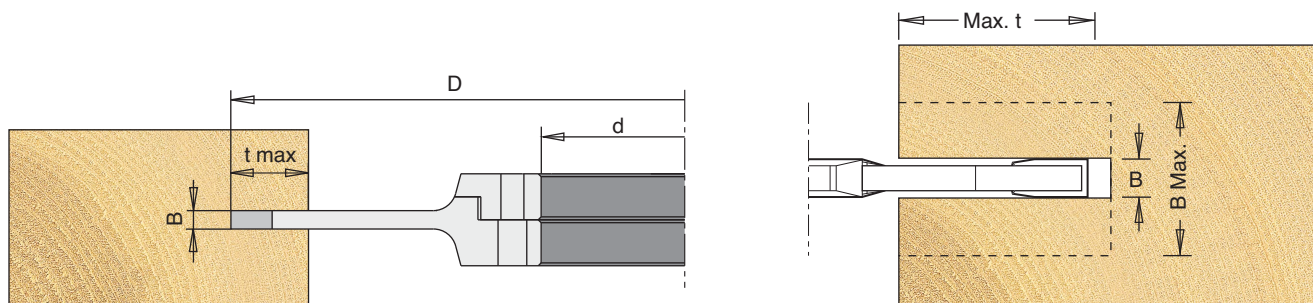
D	B	z	v	max. t	30mm Bore d	1 1/4" Bore d	Stock	Price
160	4.0 - 7.5	8	4	30	IT/722 001 1	IT/722 001 7	Y	£308.25
160	8.0 - 15.0	4	4	30	IT/722 002 1	IT/722 002 7	Y	£255.86
160	12.5 - 24.0	4	4	30	IT/722 003 1	IT/722 003 7	Y	£268.19
180	4.0 - 7.5	8	4	40	IT/722 010 1	IT/722 010 7	Y	£340.68
180	8.0 - 15.0	4	4	40	IT/722 004 1	IT/722 004 7	Y	£280.52
180	12.5 - 24.0	4	4	40	IT/722 005 1	IT/722 005 7	Y	£326.29

SPARE KNIVES

Description	T.C. Blade		
	Product Ref.	IT/310 751 2/10	IT/300 750 9/10
Size	18x18x2 B=4-7.5mm	7.5x12x1.5 B=8-15mm	11.6x12x1.5 B=12.5-24mm
Price	£59.81	£33.46	£38.07

SPARE SCORERS

Description	T.C. Blade	
	Product Ref.	IT/300 850 3/10
Size	14x14x1.2 B=4-7.5mm	14x14x2 B=8-24mm
Price	£27.75	£22.15



KEY

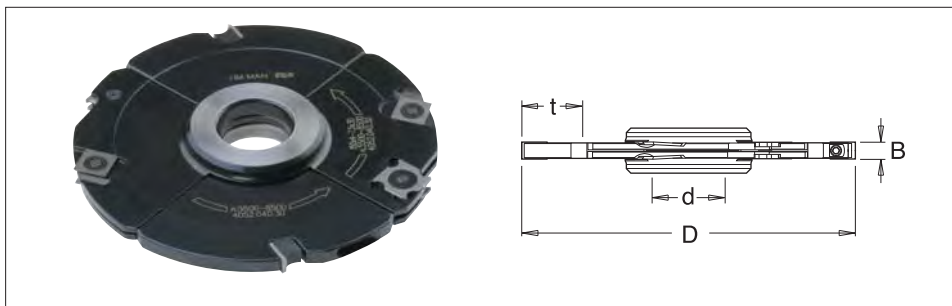
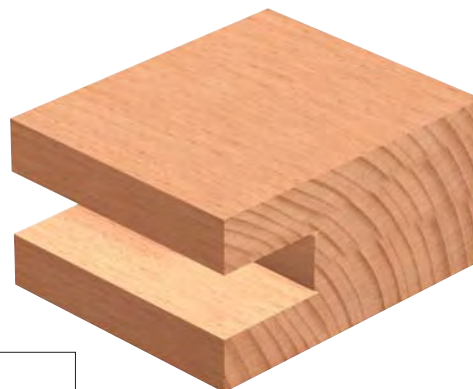
Spare Knives and Scorers - Product Reference ending in /10 are sold in packs of ten.

Stock - Y means normally kept in stock for next day delivery.

N means not normally held in stock, delivery in a short time.

3 PART DISPOSABLE INSERT ADJUSTABLE GROOVING CUTTERS WITH SCORERS 4-30MM

- Hard wearing steel body complete with disposable Tungsten Carbide knives (z) and scorers (v).
- Suitable for producing various width grooves and slots in softwood, hardwood and man-made boards on a spindle moulder.
- Cutting width can be adjusted by 0.1mm by using supplied spacer rings.
- Recommended RPM (n) 5,500 – 8,000.
- Suitable for Hand Feeding (MAN).



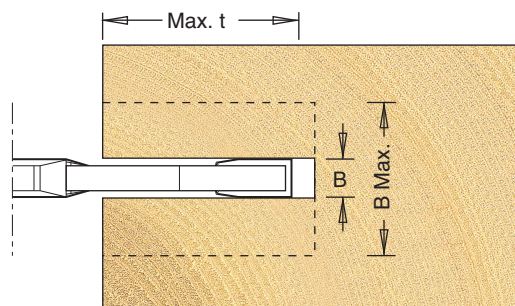
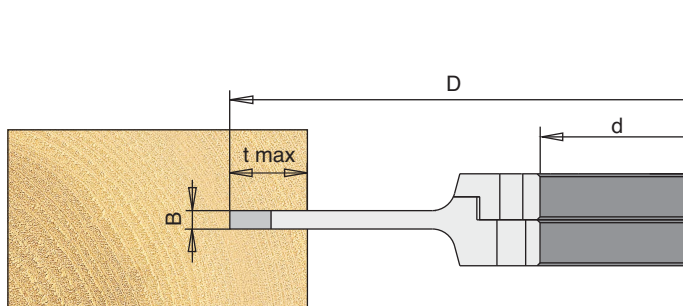
D	B	z	v	max. t	30mm Bore d	1 1/4" Bore d	Stock	Price
150	4.0 - 15.5	4+2	4	45	IT/722 030 1	IT/722 030 7	Y	£419.80
150	8.0 - 30.0	4+2	4	45	IT/ST/AG001	IT/ST/AG007	Y	£499.09

SPARE KNIVES

Description	T.C. Blade		
	Product Ref.	IT/ST/TC101	IT/310 751 2/10
Size	18x18x2 B=4-15.5mm	15x12x1.5 B=8-30mm	7.5x12x1.5 B=4-30mm
Price	£59.81	£4.89	£33.46

SPARE SCORERS

Description	T.C. Blade	
	Product Ref.	IT/300 850 3/10
Size	14x14x1.2 B=4-15.5mm	14x14x2 B=8-30mm
Price	£27.75	£22.15

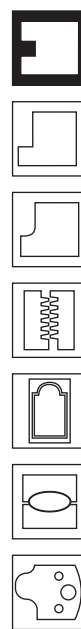


KEY

Spare Knives and Scorers - Product Reference ending in /10 are sold in packs of ten.

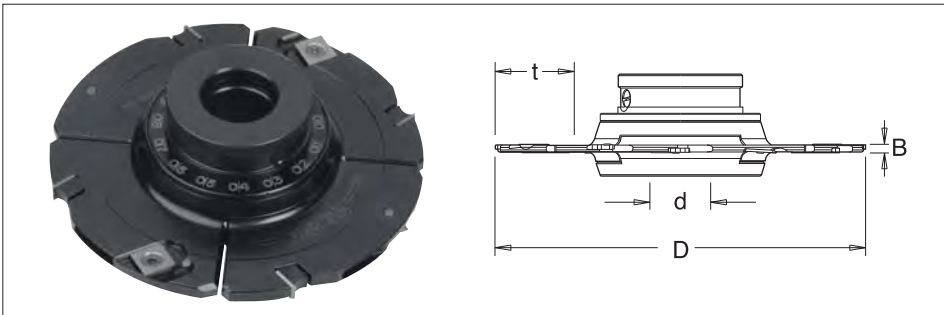
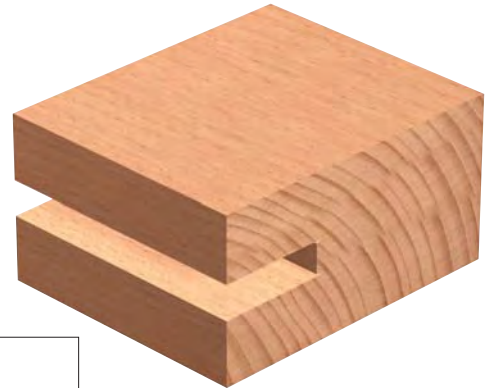
Stock - Y means normally kept in stock for next day delivery.

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DIAL ADJUSTABLE DISPOSABLE INSERT GROOVING CUTTERS WITH SCORERS 4-24MM

- Hard wearing steel body complete with disposable Tungsten Carbide knives (z) and scorers (v).
- Suitable for producing various width grooves and slots in softwood, hardwood and man-made boards on a spindle moulder.
- Cutting width can be adjusted by 0.1mm using adjustable dial gauge without removing tool from machine.
- Recommended RPM (n) 160mm diameter 4,800 – 8,300. 180mm diameter 4,300 – 7,500.
- Suitable for Hand Feeding (MAN).



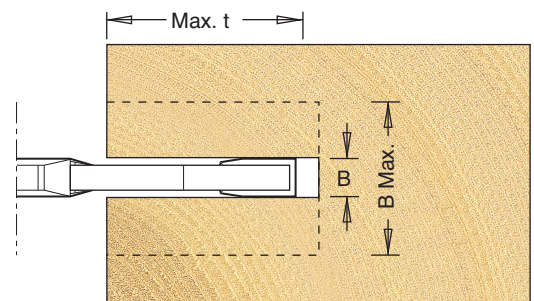
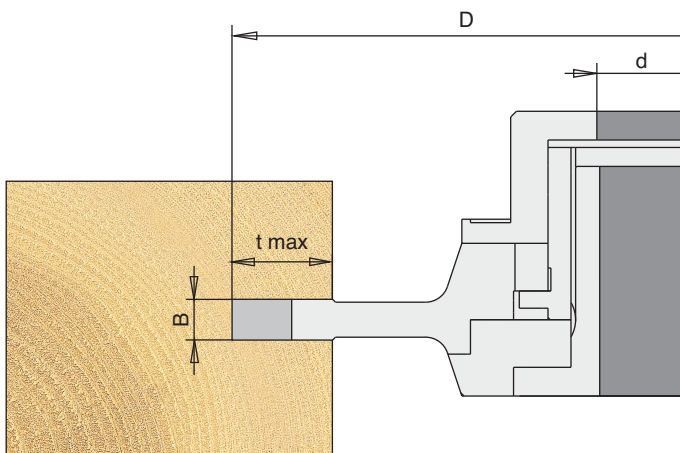
D	B	z	v	max. t	30mm Bore d	1 1/4" Bore d	Stock	Price
160	4.0 - 7.5	8	4	30	IT/722 016 1	IT/722 016 7	Y	£413.07
160	8.0 - 15.0	4	4	30	IT/722 008 1	IT/722 008 7	Y	£359.63
160	12.5 - 24.0	4	4	30	IT/722 009 1	IT/722 009 7	Y	£378.71
180	4.0 - 7.5	8	4	40	IT/722 017 1	IT/722 017 7	Y	£442.86
180	8.0 - 15.0	4	4	40	IT/722 011 1	IT/722 011 7	Y	£387.39
180	12.5 - 24.0	4	4	40	IT/722 012 1	IT/722 012 7	Y	£409.53

SPARE KNIVES

Description	T.C.Blade		
Product Ref.	IT/300 850 1/10	IT/310 751 2/10	IT/300 750 9/10
Size	18x18x2 B=4-7.5mm	7.5x12x1.5 B=8-15mm	11.6x12x1.5 B=12.5-24mm
Price	£59.81	£33.46	£38.07

SPARE SCORERS

Description	T.C. Blade	
Product Ref.	IT/300 850 2/10	IT/300 850 3/10
Size	14x14x1.2 B=4-7.5mm	14x14x2 B=8-24mm
Price	£27.75	£22.15



KEY

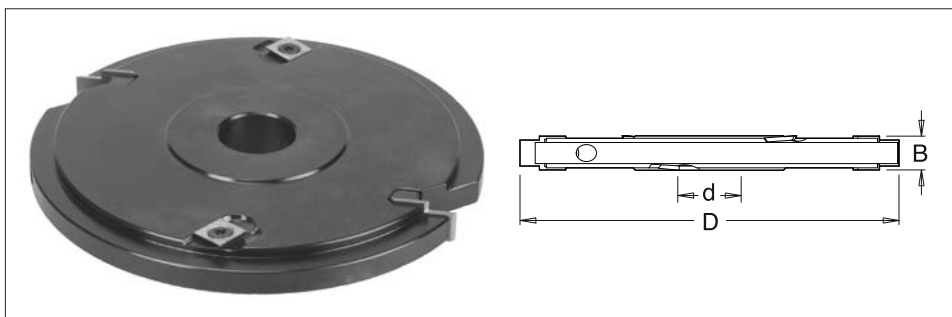
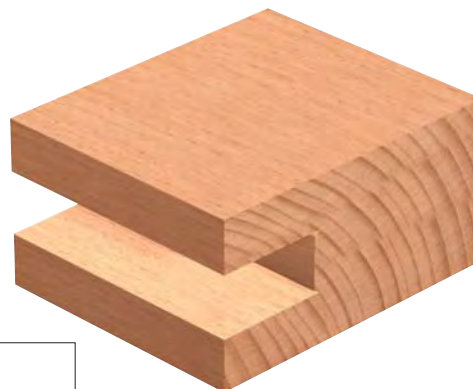
Spare Knives and Scorers - Product Reference ending in /10 are sold in packs of ten.

Stock - Y means normally kept in stock for next day delivery.

N means not normally held in stock, delivery in a short time.

DISPOSABLE INSERT ESPAGNOLETTE GROOVING CUTTER WITH SCORERS

- Hard wearing steel body complete with disposable Tungsten Carbide knives (z) and scorers (v).
- Suitable for producing a stepped groove in a softwood or hardwood window sash to accommodate an Espagnolette lock on a spindle moulder.
- Recommended RPM (n) 4,000 – 7,500.
- Suitable for Hand Feeding (MAN).



D	B	z	v	30mm Bore d	1 1/4" Bore d	Stock	Price
180	16.3	2	4	IT/752 210 1	IT/752 210 7	Y	£214.21

SPARE KNIFE

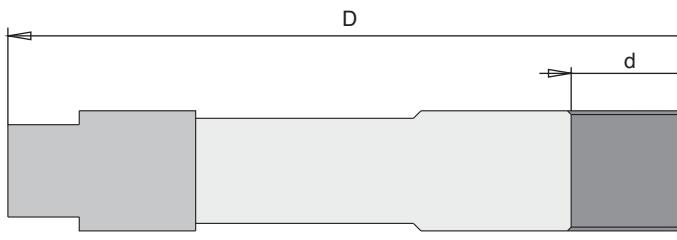
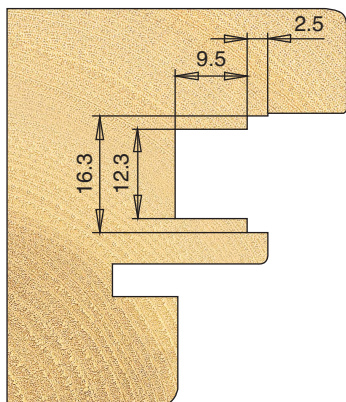
Description	T.C. Blade
Product Ref.	IT/310 814 0
Size	16x25x2 B=16.3mm
Price	£31.54

SPARE SCORER

Description	T.C. Blade
Product Ref.	IT/300 850 3/10
Size	14x14x2
Price	£22.15



Espagnolette Lock (please note extra groove needs to be routed to accommodate lock mechanism).



KEY

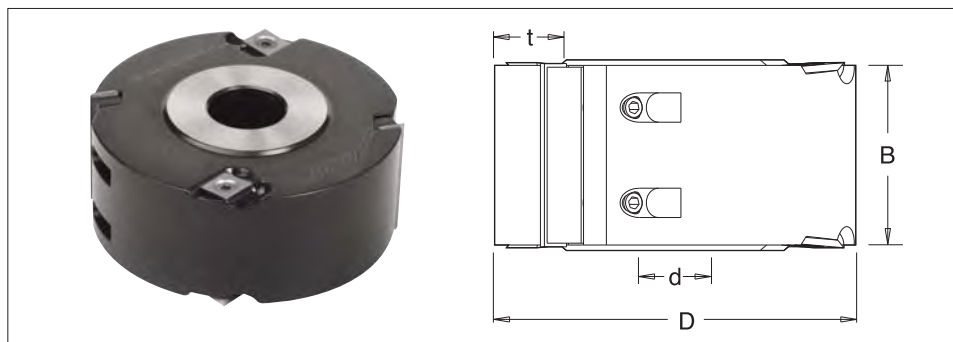
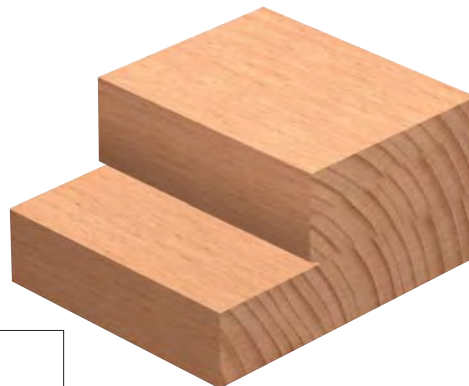
Spare Knives and Scorers - Product Reference ending in /10 are sold in packs of ten.

Stock - Y means normally kept in stock for next day delivery.

N means not normally held in stock, delivery in a short time.

DISPOSABLE INSERT REBATING CUTTER BLOCKS

- Hard wearing steel and alloy body complete with disposable Tungsten Carbide knives (z) and scorers (v).
- Suitable for producing various thickness rebates in softwood, hardwood and man-made boards on a spindle moulder.
- Recommended RPM (n) 90mm diameter 8,500 – 12,000. 100mm diameter 7,600 – 12,900. 125mm diameter 6,100 – 10,000.
- Suitable for Hand Feeding (MAN).



D	B	z	v	max. t	30mm Bore d	1 1/4" Bore d	Stock	Price
90	40	2	4	15	IT/733 201 1*	IT/733 201 7*	Y	£77.52
100	30	2	4	20	IT/733 105 1	IT/733 105 7	Y	£97.04
100	50	2	4	20	IT/733 106 1	IT/733 106 7	Y	£97.04
125	50	2	4	30	IT/733 302 1*	IT/733 302 7*	Y	£82.77
125	50	2	4	30	IT/733 102 1	IT/733 102 7	Y	£99.67
125	60	2	4	30	IT/733 103 1	IT/733 103 7	Y	£112.57

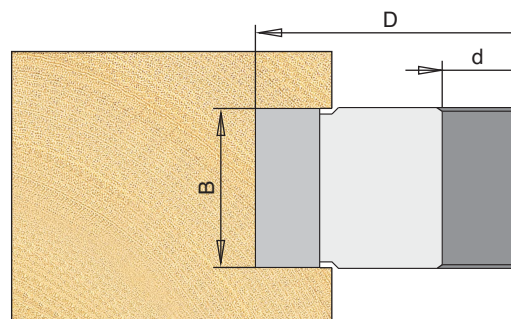
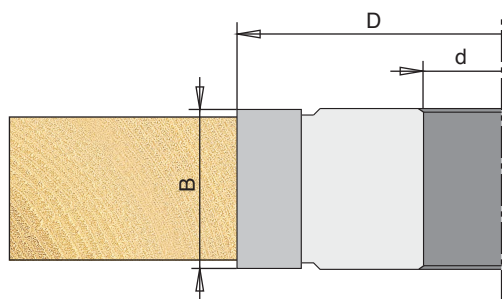
* Hard wearing alloy body.

SPARE KNIVES

Description	T.C. Blade				
	Product Ref.	IT/310 123 0/10	IT/300 052 8/10	IT/310 125 0/10	IT/300 053 1/10
Size	30x12x1.5 B=30mm	40x12x1.5 B=40mm	50x12x1.5 B=50mm	60x12x1.5 B=60mm	
Price	£22.15	£33.46	£33.46	£55.49	

SPARE SCORER

Description	T.C. Blade
Product Ref.	IT/300 850 3/10
Size	14x14x2 B=30-60mm
Price	£22.15



KEY

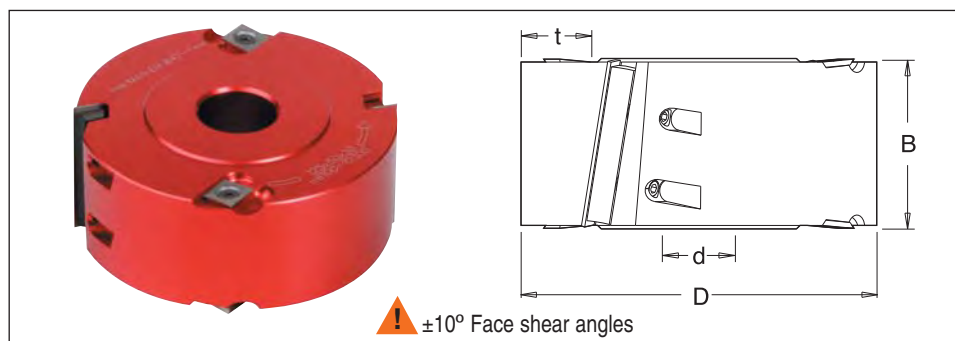
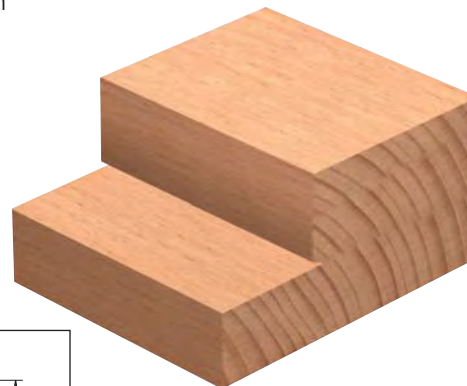
Spare Knives and Scorers - Product Reference ending in /10 are sold in packs of ten.

Stock - Y means normally kept in stock for next day delivery.

N means not normally held in stock, delivery in a short time.

DISPOSABLE INSERT SHEAR REBATING CUTTER BLOCKS

- Hard wearing alloy body complete with disposable Tungsten Carbide knives (z) and scorers (v).
- Suitable for producing various thickness rebates in softwood, hardwood and man-made boards on a spindle moulder.
- Shear angle reduces tear out and improves quality of cut.
- Recommended RPM (n) 125mm diameter 6,100 – 10,300. 150mm diameter 5,200 – 8,600.
- Suitable for Hand Feeding (MAN).



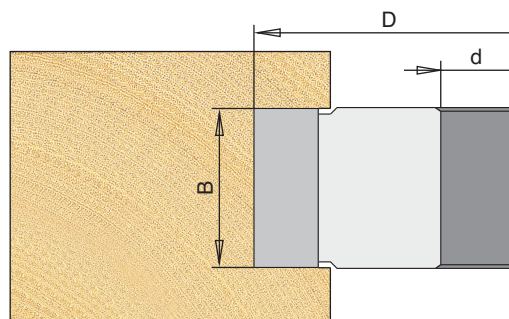
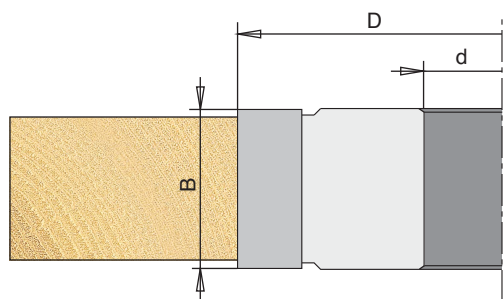
D	B	z	v	max. t	30mm Bore d	1 1/4" Bore d	Stock	Price
125	50	2	4	27	IT/733 004 1	IT/733 004 7	Y	£139.18
125	60	2	4	27	IT/733 005 1	IT/733 005 7	Y	£159.27
150	60	2	4	40	IT/733 006 1	IT/733 006 7	Y	£175.72

SPARE KNIVES

Description	T.C. Blade	
Product Ref.	IT/310 125 0/10	IT/300 053 1/10
Size	50x12x1.5 B=50mm	60x12x1.5 B=60mm
Price	£33.46	£55.49

SPARE SCORER

Description	T.C. Blade
Product Ref.	IT/300 850 3/10
Size	14x14x2 B=50-60mm
Price	£22.15

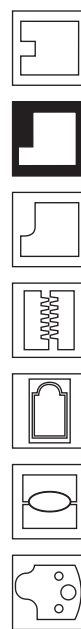


KEY

Spare Knives and Scorers - Product Reference ending in /10 are sold in packs of ten.

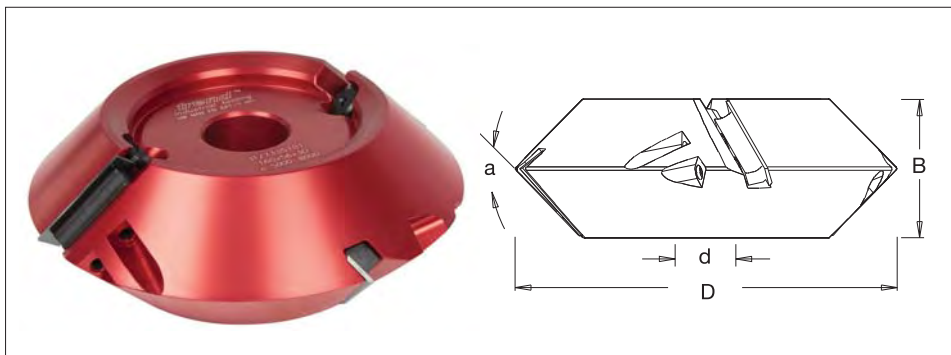
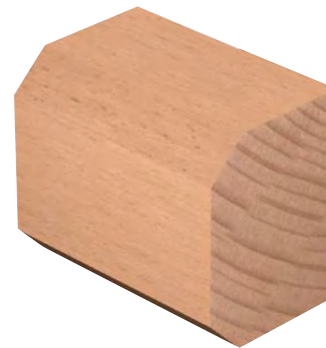
Stock - Y means normally kept in stock for next day delivery.

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DISPOSABLE INSERT 90° FOLDING, JOINTING & CHAMFERING CUTTER BLOCK

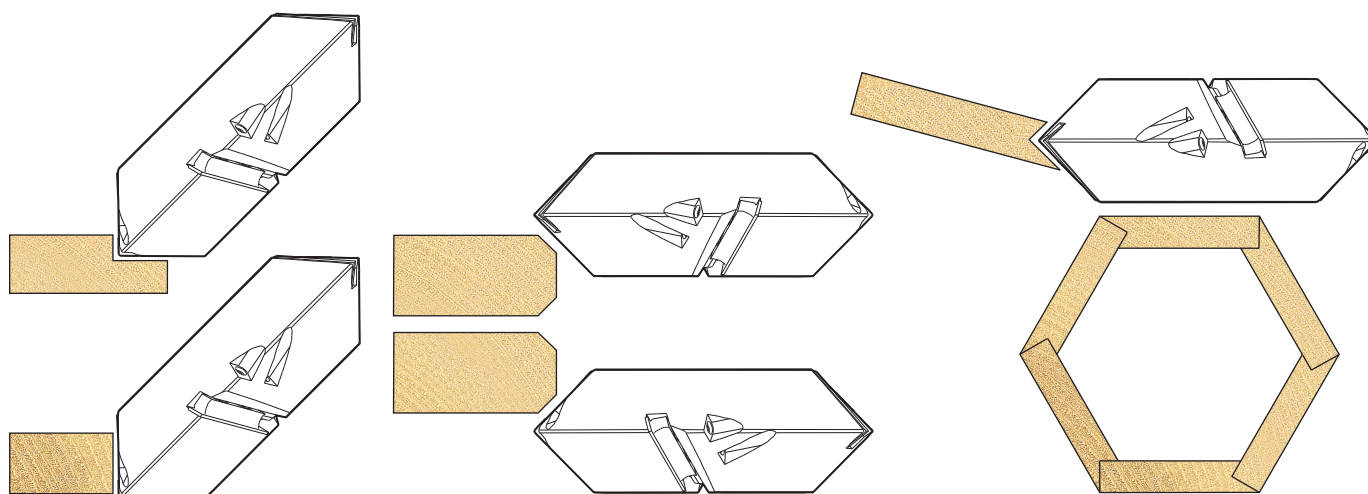
- Hard wearing alloy body complete with disposable Tungsten Carbide knives (z).
- Suitable for producing v-grooves, chamfers and rebates in softwood, hardwood on a tilting spindle moulder.
- Produces a very good quality cut almost like working with a hand plane.
- Recommended RPM (n) 5,000 – 8,000.
- Suitable for Hand Feeding (MAN).



D	B	z	a	30mm Bore d	1 1/4" Bore d	Stock	Price
160	56	2+2	90°	IT/733 510 1	IT/733 510 7	Y	£304.45

SPARE KNIFE

Description	T.C. Blade
Product Ref.	IT/300 052 8/10
Size	40x12x1.5
Price	£33.46



KEY

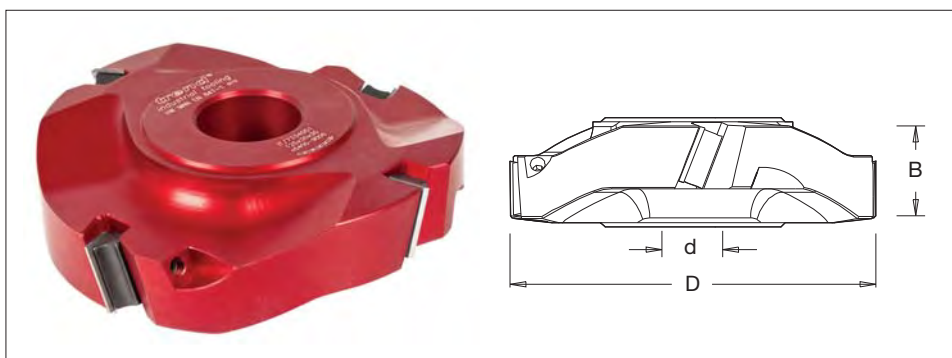
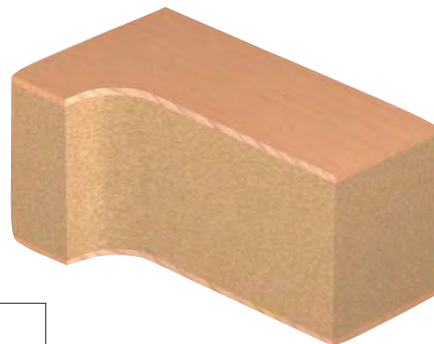
Spare Knives and Scorers - Product Reference ending in /10 are sold in packs of ten.

Stock - Y means normally kept in stock for next day delivery.

N means not normally held in stock, delivery in a short time.

DISPOSABLE INSERT UP & DOWN SHEAR PLANING CUTTER BLOCK

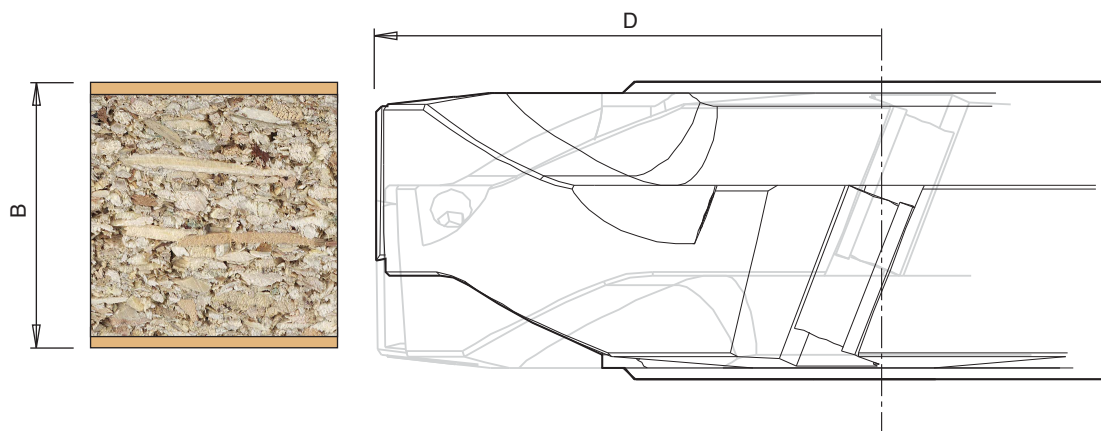
- Hard wearing alloy body complete with disposable Tungsten Carbide knives (z).
- Suitable for finish sizing board that is laminated on both top and bottom on a spindle moulder.
- Shear cutting angle on top and bottom ensures a very clean cut without chipping. Use on laminated board to clean edge after sawing and before edging.
- Cannot be used for rebating.
- Recommended RPM (n) 6,100 – 9,000.
- Suitable for Hand Feeding (MAN).



D	B	z	30mm Bore d	1 1/4" Bore d	Stock	Price
125	30	2+2	IT/733 405 1	IT/733 405 7	Y	£260.96

SPARE KNIFE

Description	T.C. Blade
Product Ref.	IT/311 122 0/10
Size	20x12x1.5
Price	£48.94

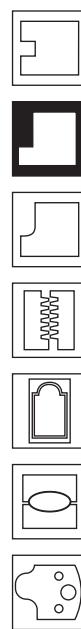


KEY

Spare Knives and Scorers - Product Reference ending in /10 are sold in packs of ten.

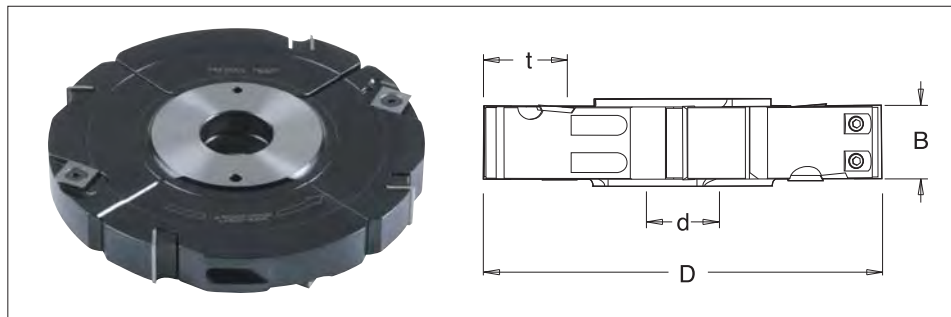
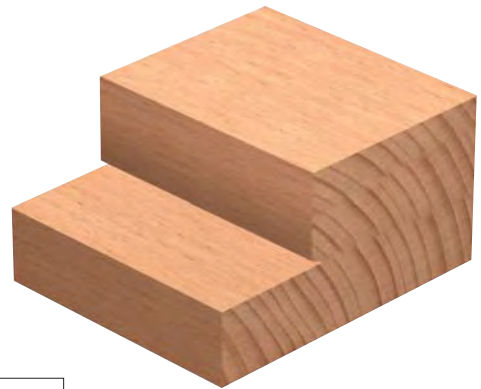
Stock - Y means normally kept in stock for next day delivery.

N means not normally held in stock, delivery in a short time.



DISPOSABLE INSERT ADJUSTABLE GROOVING & REBATING CUTTER BLOCK WITH SCORERS 20.6-100.0MM

- Hard wearing steel body complete with disposable Tungsten Carbide knives (z) and scorers (v).
- Suitable for producing various width grooves and rebates in softwood, hardwood and man-made boards on a spindle moulder.
- Cutting width can be adjusted by 0.1mm by using supplied spacer rings.
- Recommended RPM (n) 4,800 – 8,000.
- Suitable for Hand Feeding (MAN).
- 200mm diameter available to special order.



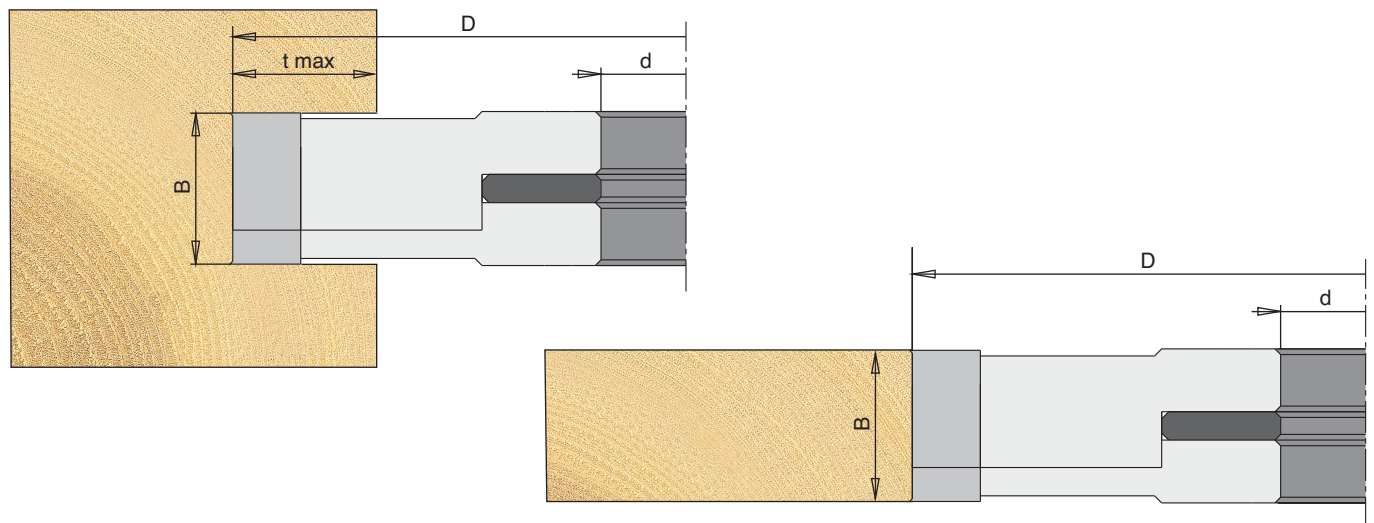
D	B	z	v	max. t	30mm Bore d	1 1/4" Bore d	Stock	Price
160	20.6 - 40.0	4	4	40	IT/722 007 1	IT/722 007 7	Y	£291.36
160	30.6 - 60.0	4	4	40	IT/722 032 1	IT/722 032 7	Y	£337.60
160	50.6 - 100.0	4	4	40	IT/722 033 1	IT/722 033 7	Y	£383.27

SPARE KNIVES

Description	T.C. Blade		
	Product Ref.	IT/310 122 0/10	IT/310 123 0/10
Size	20x12x1.5 B=20.6-40mm	30x12x1.5 B=30.6-60mm	50x12x1.5 B=50.6-100mm
Price	£22.15	£22.15	£33.46

SPARE SCORER

Description	T.C. Blade
Product Ref.!	IT/300 850 3/10
Size	14x14x2 B=20.6-100mm
Price	£22.15



KEY

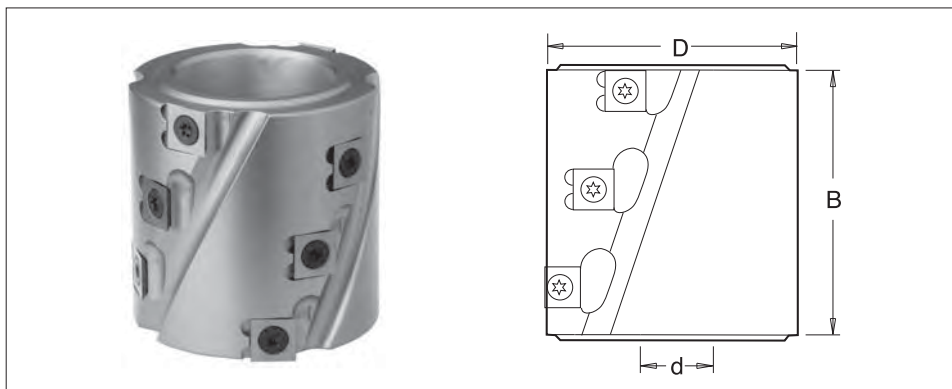
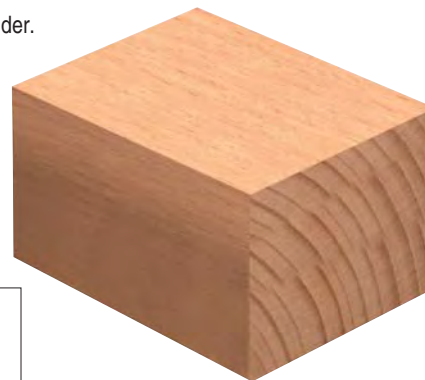
Spare Knives and Scorers - Product Reference ending in /10 are sold in packs of ten.

Stock - Y means normally kept in stock for next day delivery.

N means not normally held in stock, delivery in a short time.

DISPOSABLE INSERT SPIRAL PLANING CUTTER BLOCK

- Hard wearing alloy body complete with disposable Tungsten Carbide knives (z).
- Suitable for rough planing and routing of softwood, hardwood and man-made boards on a spindle moulder.
- Can also be used with a ball bearing guide for template work.
- Will leave slight witness lines on the edge of the material.
- Recommended RPM (n) 8,000 – 12,000.
- Suitable for Hand Feeding (MAN).



D	B	z	30mm Bore d	1 1/4" Bore d	Stock	Price
62	82	12	IT/ST/PH001	IT/ST/PH007	Y	£133.58
80	100	16	IT/ST/PH011	IT/ST/PH017	Y	£237.93

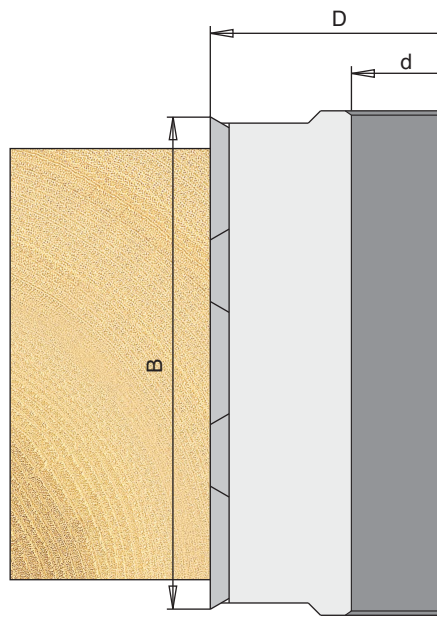
SPARE KNIFE

Description	T.C. Blade
Product Ref.	IT/300 850 3/10
Size	14x14x2 B=80-100mm
Price	£22.15

BALL BEARING GUIDE

Description	Ball Bearing	
Product Ref.	IT/B62X30	IT/B62X114
Size	62x16x30	62x15x1-1/4"
Price	£20.54	£58.12

* for details of 80mm ball bearing guide ring see page 91.

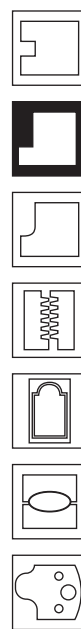


KEY

Spare Knives and Scorers - Product Reference ending in /10 are sold in packs of ten.

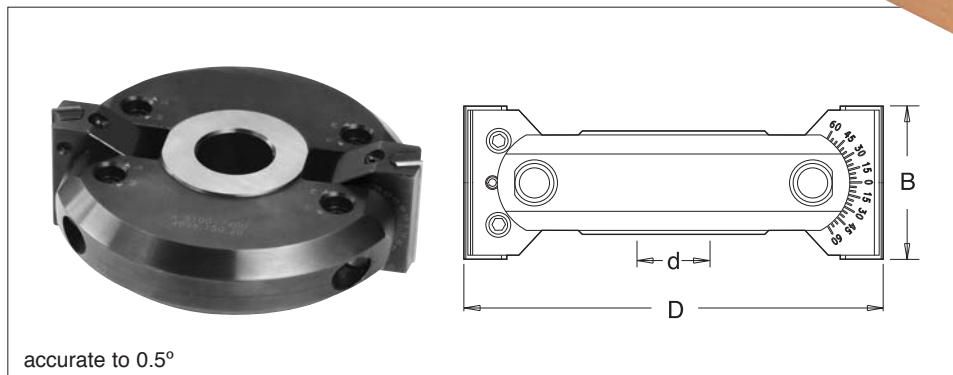
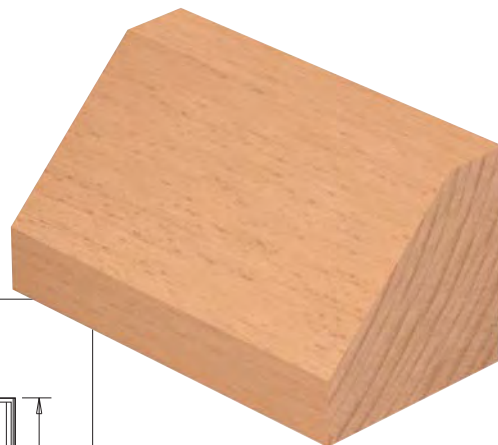
Stock - Y means normally kept in stock for next day delivery.

N means not normally held in stock, delivery in a short time.



DISPOSABLE INSERT ADJUSTABLE CHAMFER CUTTER BLOCKS

- Hard wearing steel and alloy body complete with disposable Tungsten Carbide knives (z).
- Suitable for producing chamfer cuts at various angles in softwood, hardwood and man-made boards on a spindle moulder.
- Cutting angle can be adjusted in 7.5° steps by using the notched scale. Fine adjustment of 1° is also possible.
- Recommended RPM (n) 110mm diameter 7,000 – 9,000. 120mm diameter 6,400 – 8,500. 130mm diameter 5,000 – 8,500. 150mm diameter 5,100 – 7,400.
- Suitable for Hand Feeding (MAN).



accurate to 0.5°

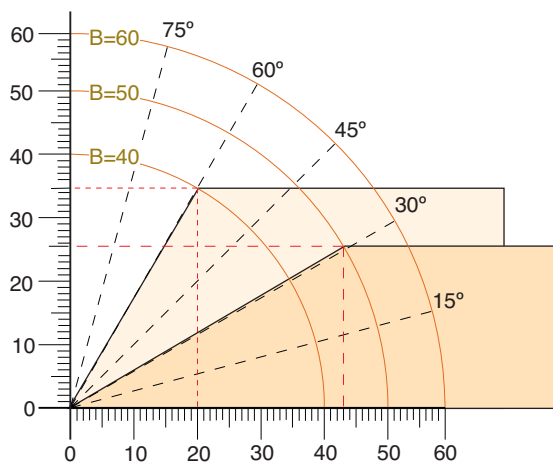
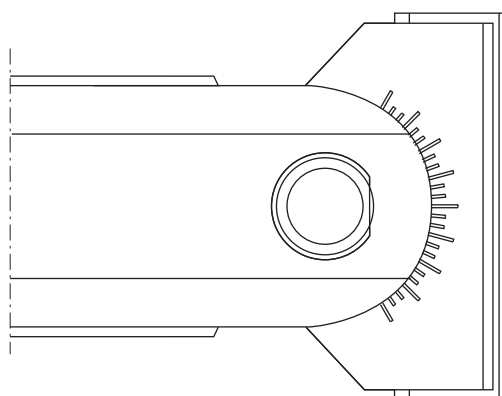


D	B	z	angle	30mm Bore d	1 1/4" Bore d	Stock	Price
110	40	2	-45° to +45°	IT/734 014 1	IT/734 014 7	Y	£289.76
120	40	2	-45° to +45°	IT/734 015 1*	IT/734 015 7*	Y	£195.80
130	50	2	-67.5° to +67.5°	IT/734 016 1	IT/734 016 7	Y	£329.38
150	50	2	-90° to +90°	IT/734 017 1	IT/734 017 7	Y	£342.73

* Hard wearing alloy body.

SPARE KNIVES

Description	T.C. Blade	
	Product Ref.	IT/300 052 8/10
Size	40x12x1.5 B=40mm	50x12x1.5 B=50mm
Price	£33.46	£33.46



KEY

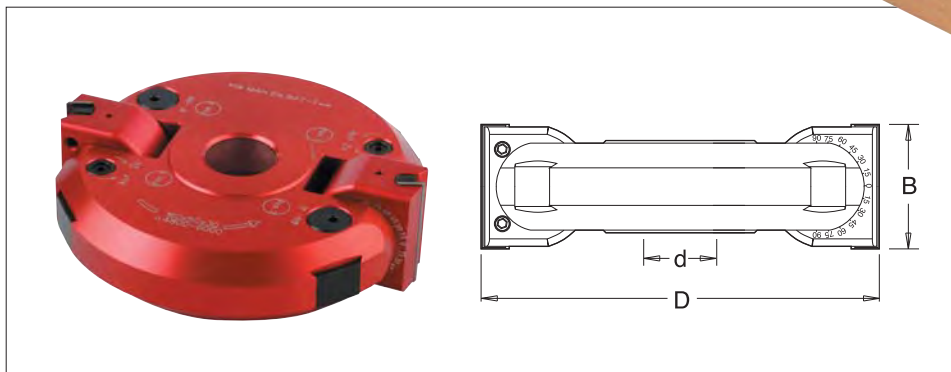
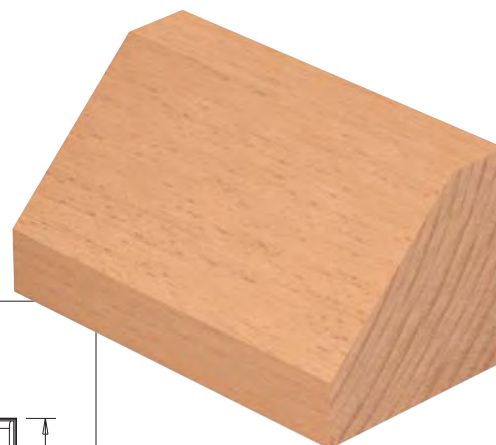
Spare Knives and Scorers - Product Reference ending in /10 are sold in packs of ten.

Stock - Y means normally kept in stock for next day delivery.

N means not normally held in stock, delivery in a short time.

DISPOSABLE INSERT ADJUSTABLE CHAMFER CUTTER BLOCKS

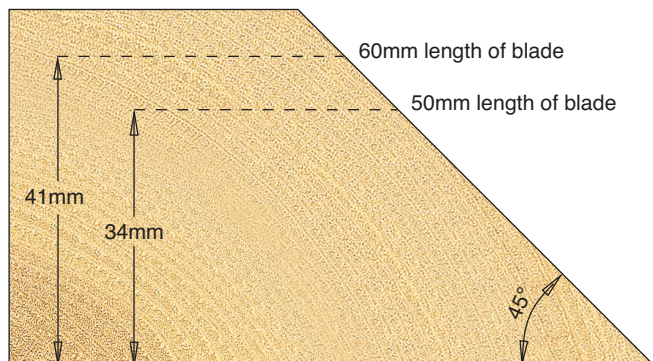
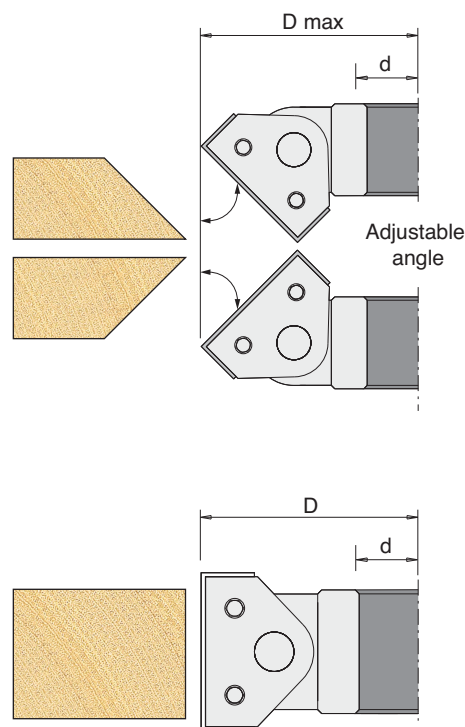
- Hard wearing alloy body complete with disposable Tungsten Carbide knives (z).
- Suitable for producing chamfer cuts at various angles in softwood, hardwood and man-made boards on a spindle moulder.
- Cutting angle can be adjusted in 1° steps by using the special geared mechanism.
- Can also be used as a panel raising block.
- Recommended RPM (n) 160mm diameter 4,800 – 6,000. 170mm diameter 4,500 – 6,000.
- Suitable for Hand Feeding (MAN).



D	B	z	angle	30mm Bore d	1 1/4" Bore d	Stock	Price
160	50	2	-90° to +90°	IT/734 030 1	IT/734 030 7	Y	£381.79
170	60	2	-90° to +90°	IT/734 035 1	IT/734 035 7	Y	£394.57

SPARE KNIVES

Description	T.C. Blade	
Product Ref.	IT/310 125 0/10	IT/300 053 1/10
Size	50x12x1.5 B=50mm	60x12x1.5 B=60mm
Price	£33.46	£55.49



KEY

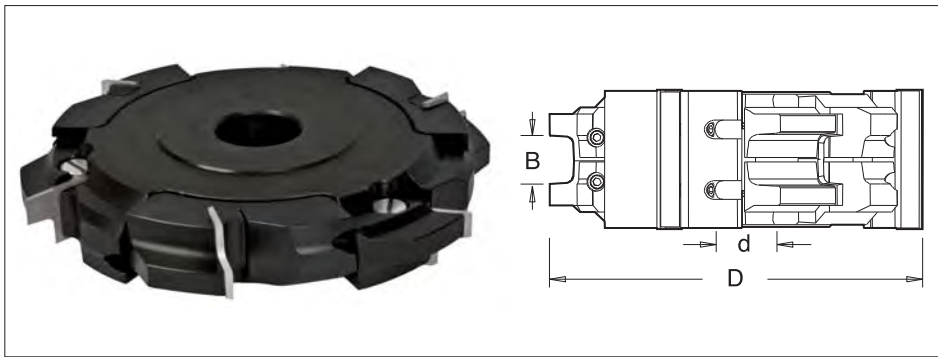
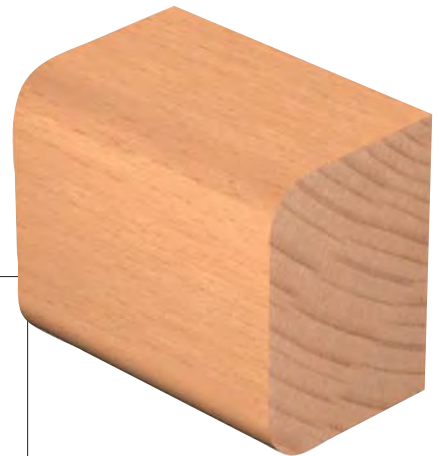
Spare Knives and Scorers - Product Reference ending in /10 are sold in packs of ten.

Stock - Y means normally kept in stock for next day delivery.

N means not normally held in stock, delivery in a short time.

DISPOSABLE INSERT ROUNDING OVER CUTTER BLOCK SET

- Hard wearing steel body complete with disposable Tungsten Carbide knives (z).
- Suitable for rounding over one side or both sides of softwood, hardwood and man-made boards on a spindle moulder.
- Cutter block supplied as standard with R3 knives, body will accept R1 to R10 knives.
- IT/752 033 1/7 is two part construction, IT/752 030 1/7 is three part construction.
- Recommended RPM (n) 4,500 – 7,500.
- Suitable for Hand Feeding (MAN).

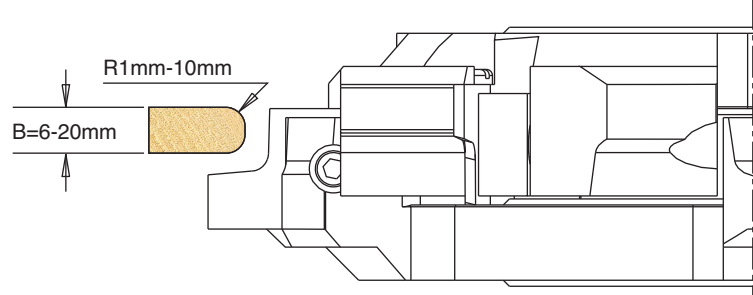


D	B	z	Set	30mm Bore d	1 1/4" Bore d	Stock	Price
170	6.0 - 20.0	3+3	1	IT/752 033 1	IT/752 033 7	Y	£542.58
170	20.0 - 60.0	3+3+3	2	IT/752 030 1	IT/752 030 7	Y	£694.80

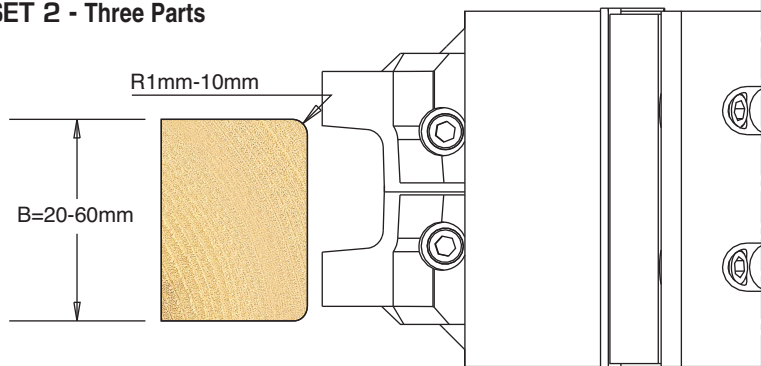
SPARE KNIVES*

	T.C. Blade RH	T.C. Blade LH
R=1	IT/310 890 1	IT/310 890 1L
	20x25x2	20x25x2
	£19.07	£19.07
R=2	IT/310 890 2	IT/310 890 2L
	20x25x2	20x25x2
	£19.07	£19.07
R=3	IT/310 890 3	IT/310 890 3L
	20x25x2	20x25x2
	£19.07	£19.07
R=4	IT/310 890 4	IT/310 890 4L
	20x25x2	20x25x2
	£19.07	£19.07
R=5	IT/310 890 5	IT/310 890 5L
	20x25x2	20x25x2
	£19.07	£19.07
R=6	IT/310 890 6	IT/310 890 6L
	20x25x2	20x25x2
	£19.07	£19.07
R=7	IT/310 890 7	IT/310 890 7L
	20x25x2	20x25x2
	£19.07	£19.07
R=8	IT/310 890 8	IT/310 890 8L
	20x25x2	20x25x2
	£19.07	£19.07
R=9	IT/310 890 9	IT/310 890 9L
	20x25x2	20x25x2
	£19.07	£19.07
R=10	IT/310 891 0	IT/310 891 0L
	20x25x2	20x25x2
	£22.15	£22.15

SET 1 - Two Parts



SET 2 - Three Parts



* Three RH and three LH knives are required for each radius produced.

KEY

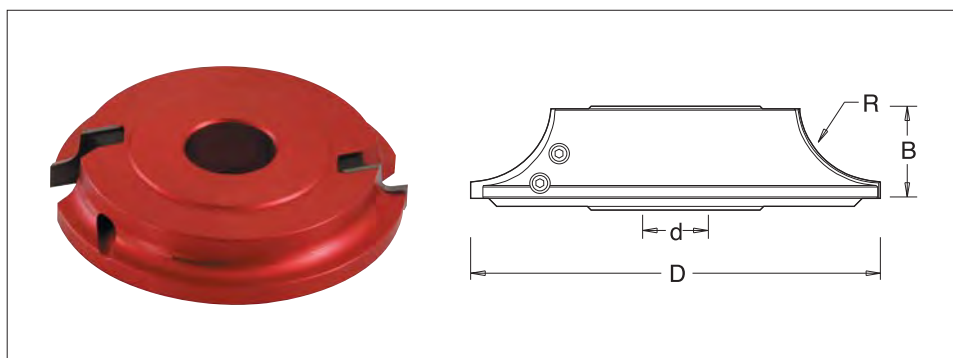
Spare Knives and Scorers - Product Reference ending in /10 are sold in packs of ten.

Stock - Y means normally kept in stock for next day delivery.

N means not normally held in stock, delivery in a short time.

DISPOSABLE INSERT ROUNDING OVER CUTTER BLOCKS

- Hard wearing alloy body complete with disposable Tungsten Carbide knives (z).
- Suitable for rounding over one side of softwood, hardwood and man-made boards on a spindle moulder.
- Cutter block supplied as standard with R8 knives, same body will accept R3 - R10 knives. R15 - R30 require separate blocks.
- Can be used with a 100mm diameter ball bearing guide ring.
- Recommended RPM (n) 120mm diameter 6,400 – 10,000. 130mm – 160mm diameter 5,400 – 9,000.
- Suitable for Hand Feeding (MAN).



D	R	z	B	30mm Bore d	1 1/4" Bore d	Stock	Price
120	8	2	20	IT/752 428 1	IT/752 428 7	Y	£181.40
120	3 - 10	2	20	IT/752 410 1*	IT/752 410 7*	Y	£347.31
130	15	2	20	IT/752 435 1	IT/752 435 7	Y	£205.04
140	20	2	25	IT/752 440 1	IT/752 440 7	Y	£205.04
150	25	2	30	IT/752 445 1	IT/752 445 7	Y	£205.04
160	30	2	35	IT/752 450 1	IT/752 450 7	Y	£205.04

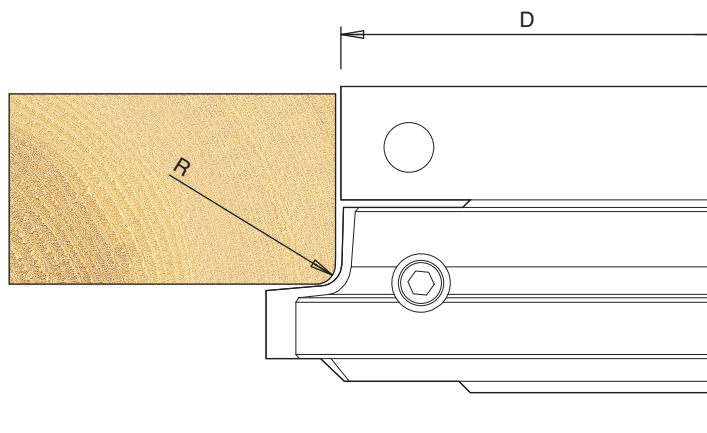
* Complete Set of Cutter Block and Knives, R3 - R10, supplied in a wooden box.

SPARE KNIVES

Description	T.C. Blade									
	R=3	R=4	R=5	R=6	R=8	R=10	R=15	R=20	R=25	R=30
Product Ref.	IT/310 890 3	IT/310 890 4	IT/310 890 5	IT/310 890 6	IT/310 890 8	IT/310 891 0	IT/310 891 5	IT/310 892 0	IT/310 892 5	IT/310 893 0
Price	£19.07	£19.07	£19.07	£19.07	£19.07	£22.15	£26.09	£32.62	£37.51	£42.41

BALL BEARING GUIDE TO SUIT R3 - R10 CUTTER BLOCKS

Description	Ball Bearing	
Product Ref.	IT/191 540 1	IT/191 540 7
Size	100x15x30	100x15x1-1/4"
Price	£34.48	£34.48



KEY

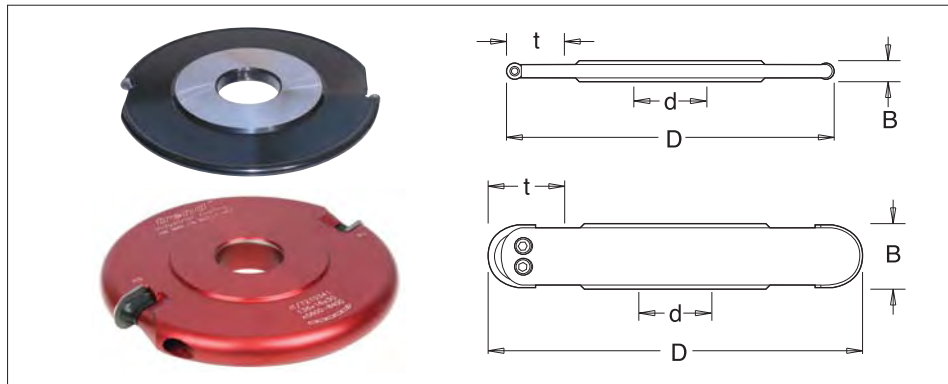
Spare Knives and Scorers - Product Reference ending in /10 are sold in packs of ten.

Stock - Y means normally kept in stock for next day delivery.

N means not normally held in stock, delivery in a short time.

DISPOSABLE INSERT COVE CUTTER BLOCKS

- R3 – R5 with hard wearing steel body. R6 – R20 with hard wearing alloy body, both complete with disposable Tungsten Carbide knives (z).
- Suitable for producing cove cuts in softwood, hardwood and man-made boards on a spindle moulder.
- Can be used with a 120mm diameter ball bearing guide ring for ring fence work. See page 91.
- Suitable for Hand Feeding (MAN).



Recommended RPM (n):

- 126 – 130mm dia. ____ 4,500 – 10,600
- 132mm dia. ____ 5,700 – 10,100
- 136mm dia. ____ 5,600 – 8,400
- 140mm dia. ____ 5,400 – 9,500
- 144mm dia. ____ 5,300 – 9,200
- 150mm dia. ____ 5,000 – 8,900
- 160mm dia. ____ 4,700 – 8,000



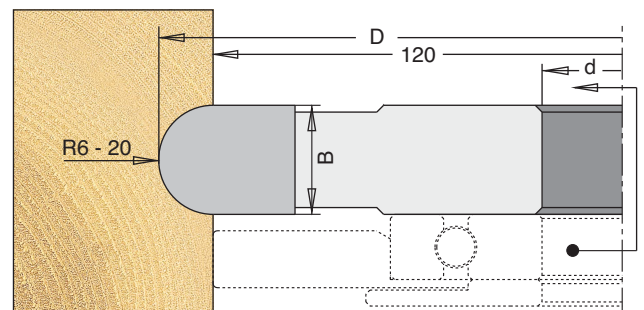
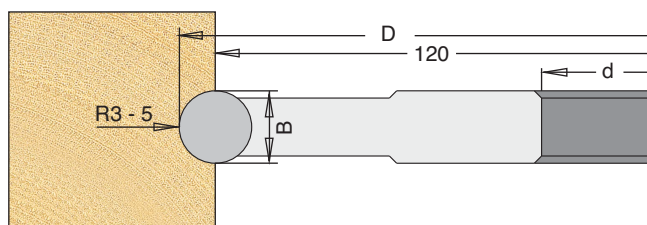
D	R	z	B	max. t	30mm Bore d	1 1/4" Bore d	Stock	Price
126	3	2	6	28	IT/721 030 1	IT/721 030 7	Y	£97.61
128	4	2	8	29	IT/721 031 1	IT/721 031 7	Y	£97.61
130	5	2	10	30	IT/721 032 1	IT/721 032 7	Y	£97.61
132	6	2	12	31	IT/721 033 1	IT/721 033 7	Y	£121.82
136	8	2	16	33	IT/721 034 1	IT/721 034 7	Y	£131.52
140	10	2	20	35	IT/721 035 1	IT/721 035 7	Y	£140.78
144	12	2	24	37	IT/721 036 1	IT/721 036 7	Y	£151.62
150	15	2	30	40	IT/721 037 1	IT/721 037 7	Y	£162.69
160	20	2	40	45	IT/721 038 1	IT/721 038 7	Y	£182.91

SPARE KNIVES

Description	T.C. Blade								
	R=3	R=4	R=5	R=6	R=8	R=10	R=12	R=15	R=20
Product Ref.	IT/300 040 0	IT/300 040 2	IT/300 040 3	IT/300 650 6	IT/300 650 8	IT/300 651 0	IT/300 651 2	IT/300 651 5	IT/300 652 0
Price	£16.79	£10.16	£10.51	£23.63	£23.63	£23.63	£25.93	£26.60	£29.58

BALL BEARING GUIDE TO SUIT R3 - R10 CUTTER BLOCKS

Description	Ball Bearing	
Product Ref.	IT/191 542 0	IT/191 542 7
Size	120x15x30	120x15x1 1/4"
Price	£34.48	£34.48



KEY

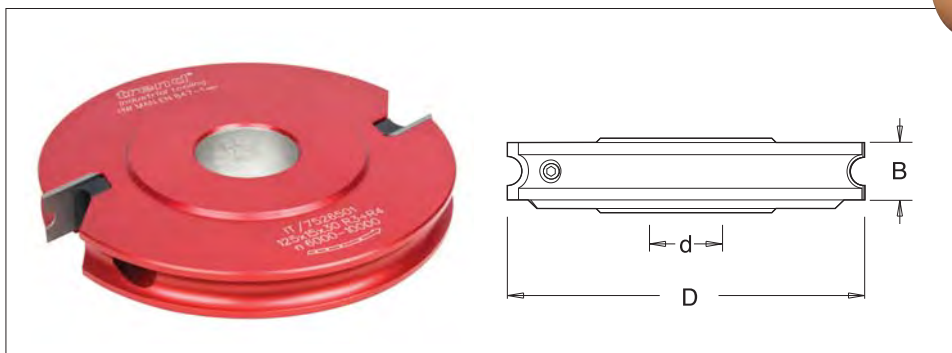
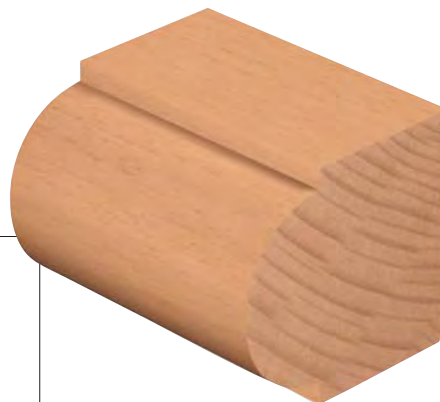
Spare Knives and Scorers - Product Reference ending in /10 are sold in packs of ten.

Stock - Y means normally kept in stock for next day delivery.

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DISPOSABLE INSERT BEADING CUTTER BLOCKS

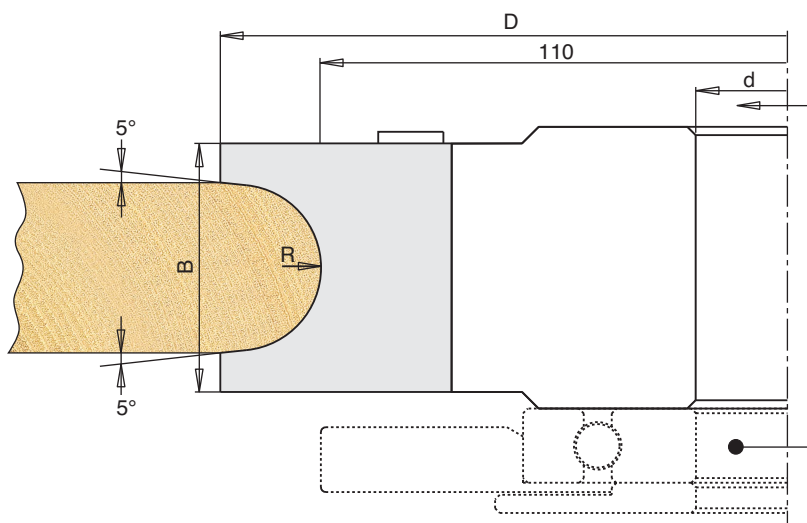
- Hard wearing alloy body complete with disposable Tungsten Carbide knives (z).
- Suitable for producing various radii beads in softwood, hardwood and man-made boards on a spindle moulder.
- R3 and R4 knives will fit in the same block. R5 and R6 knives will fit in the same block.
R8 and R10 knives will fit in the same block.
- Can be used with a 110mm diameter ball bearing guide ring for ring fence work. See page 91.
- Recommended RPM (n) 125mm diameter 6,000 – 10,000. 135mm diameter 5,500 – 9,000.
- Suitable for Hand Feeding (MAN).



D	R	z	B	30mm Bore d	1 1/4" Bore d	Stock	Price
125	3	2	15	IT/752 603 1	IT/752 603 7	N	£135.18
125	4	2	15	IT/752 604 1	IT/752 604 7	Y	£135.18
125	5	2	20	IT/752 605 1	IT/752 605 7	N	£144.88
125	6	2	20	IT/752 606 1	IT/752 606 7	Y	£144.88
125	8	2	30	IT/752 608 1	IT/752 608 7	N	£167.04
125	10	2	30	IT/752 610 1	IT/752 610 7	Y	£167.04
125	12	2	30	IT/752 612 1	IT/752 612 7	Y	£167.04
125	15	2	40	IT/752 615 1	IT/752 615 7	Y	£182.91
135	20	2	50	IT/752 620 1	IT/752 620 7	Y	£194.77

SPARE KNIVES

Description	T.C. Blade								
	R=3	R=4	R=5	R=6	R=8	R=10	R=12	R=15	R=20
Product Ref.	IT/312 400 3	IT/312 400 4	IT/312 400 5	IT/312 400 6	IT/312 400 8	IT/312 401 0	IT/312 401 2	IT/312 401 5	IT/312 402 0
Price	£13.05	£13.05	£14.14	£14.14	£26.09	£29.37	£30.45	£42.41	£44.55



KEY

Spare Knives and Scorers - Product Reference ending in /10 are sold in packs of ten.

Stock - Y means normally kept in stock for next day delivery.

N means not normally held in stock, delivery in a short time.

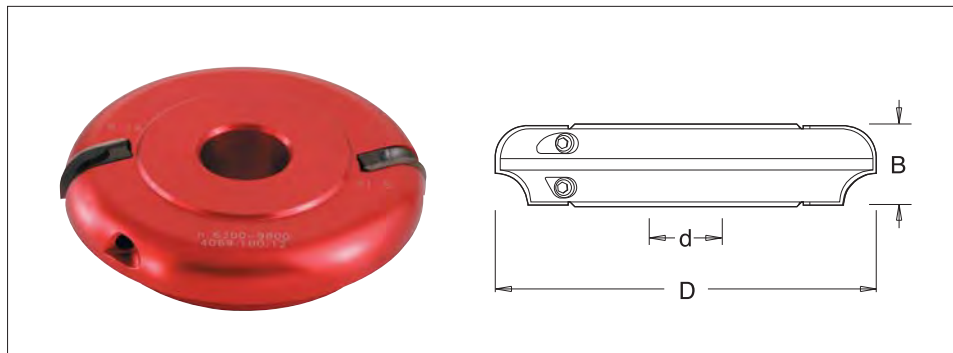
DISPOSABLE INSERT BEADING CUTTER BLOCKS

- Hard wearing alloy body complete with disposable Tungsten Carbide knives (z).
- Suitable for rounding over and producing matching cove joints in softwood, hardwood and man-made boards on a spindle moulder.
- Can be used with a 100mm diameter ball bearing guide ring for ring fence work. See page 91.
- Suitable for Hand Feeding (MAN).



Recommended RPM (n):

106mm dia.	7,300 – 10,100
110mm dia.	7,000 – 9,900
112mm dia.	6,900 – 9,700
116mm dia.	6,600 – 9,500
120mm dia.	6,400 – 10,000
124mm dia.	6,200 – 9,800
130mm dia.	5,900 – 9,500
140mm dia.	5,500 – 9,000
150mm dia.	5,100 – 6,000
160mm dia.	4,900 – 5,800



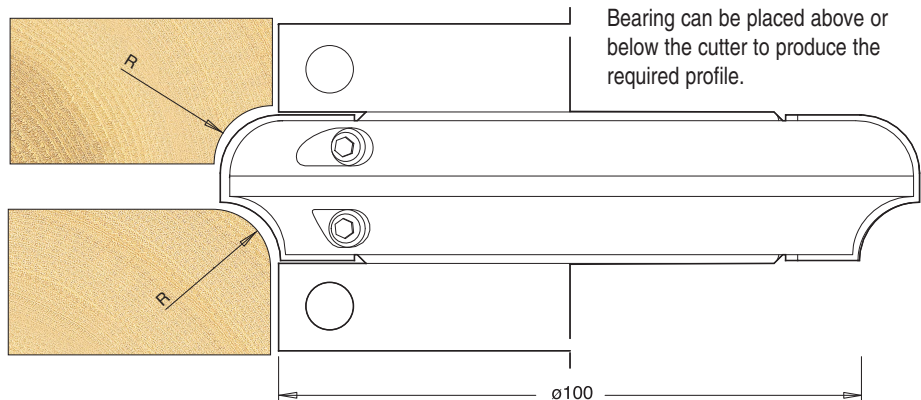
D	R	z	B	30mm Bore d	1 1/4" Bore d	Stock	Price
106	3	2	20	IT/751 103 1	IT/751 103 7	N	£136.66
110	5	2	20	IT/751 105 1	IT/751 105 7	N	£136.66
112	6	2	20	IT/751 106 1	IT/751 106 7	Y	£136.66
116	8	2	20	IT/751 108 1	IT/751 108 7	Y	£146.94
120	10	2	25	IT/751 110 1	IT/751 110 7	Y	£146.94
124	12	2	30	IT/751 112 1	IT/751 112 7	Y	£159.27
130	15	2	35	IT/751 115 1	IT/751 115 7	Y	£168.06
140	20	2	50	IT/751 120 1	IT/751 120 7	N	£205.04
150	25	2	60	IT/751 125 1	IT/751 125 7	Y	£237.36
160	30	2	80	IT/751 130 1	IT/751 130 7	N	£251.75

SPARE KNIVES

Description	T.C. Blade									
	R=3	R=5	R=6	R=8	R=10	R=12	R=15	R=20	R=25	R=30
Product Ref.	IT/310 894 4	IT/310 894 6	IT/310 894 7	IT/310 894 9	IT/310 895 0	IT/310 895 2	IT/310 895 3	IT/310 895 4	IT/310 895 5	IT/310 895 6
Price	£22.84	£22.84	£22.84	£26.09	£29.37	£29.91	£41.32	£44.58	£47.84	£53.28

BALL BEARING GUIDE TO SUIT R3 - R10 CUTTER BLOCKS

Description	Ball Bearing	
Product Ref.	IT/191 540 1	IT/191 540 7
Size	100x15x30	100x15x1-1/4"
Price	£34.48	£34.48



Bearing can be placed above or below the cutter to produce the required profile.

KEY

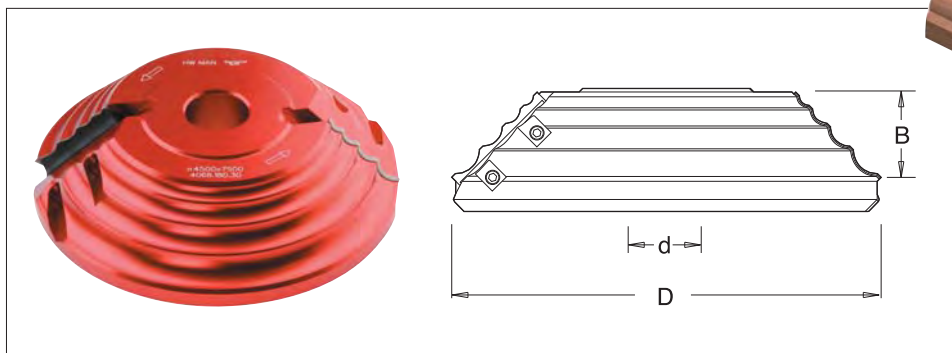
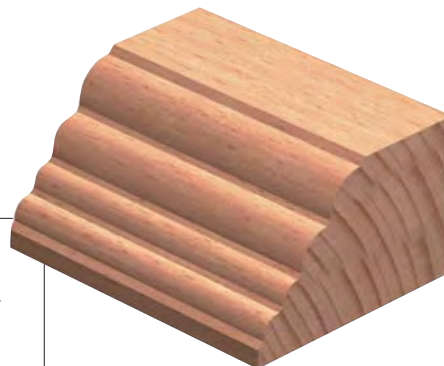
Spare Knives and Scorers - Product Reference ending in /10 are sold in packs of ten.

Stock - Y means normally kept in stock for next day delivery.

N means not normally held in stock, delivery in a short time.

DISPOSABLE INSERT MULTI ROUND OVER CUTTER BLOCKS

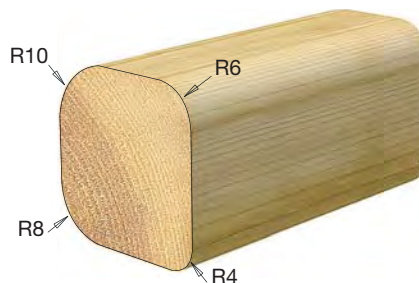
- Hard wearing alloy body complete with disposable Tungsten Carbide knives (z).
- Suitable for producing various radii in softwood, hardwood and man-made boards on a spindle moulder.
- Different radii can be achieved by adjusting the height of the spindle shaft.
- Recommended RPM (n) 140mm diameter 5,400 – 8,800. 180mm diameter 4,500 – 7,500.
- Suitable for Hand Feeding (MAN).



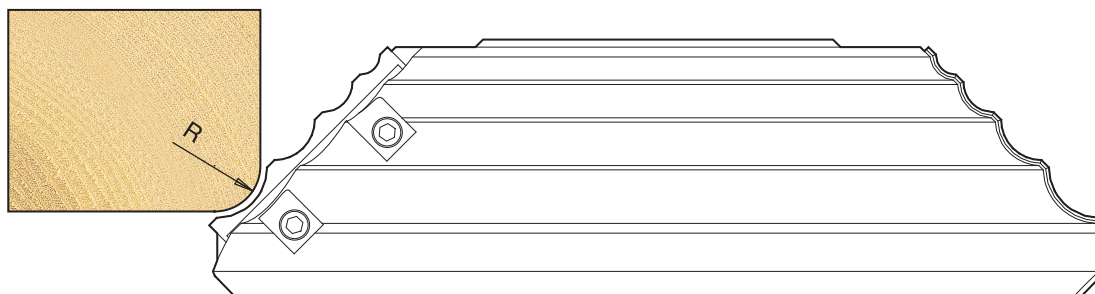
D	R	z	B	30mm Bore d	1 1/4" Bore d	Stock	Price
140	2,3,5	2	25	IT/752 109 1	IT/752 109 7	Y	£164.97
180	4,6,8,10	2	50	IT/752 110 1	IT/752 110 7	Y	£195.80

SPARE KNIVES

Description	T.C. Blade	
Product Ref.	IT/310 855 0	IT/310 854 9
Size	R=2,3,5	R=4,6,8,10
Price	£26.09	£39.15



Different radii that can be produced with block IT/752 110 1 (7).



KEY

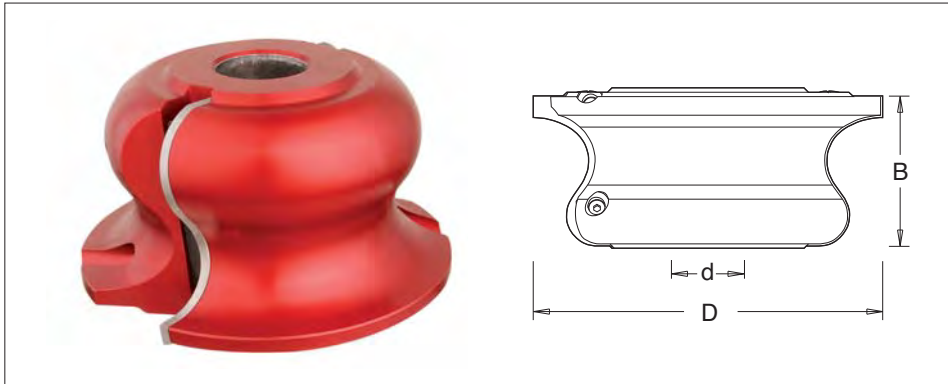
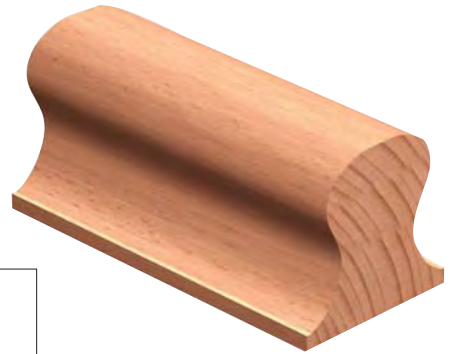
Spare Knives and Scorers - Product Reference ending in /10 are sold in packs of ten.

Stock - Y means normally kept in stock for next day delivery.

N means not normally held in stock, delivery in a short time.

DISPOSABLE INSERT HANDRAIL CUTTER BLOCKS

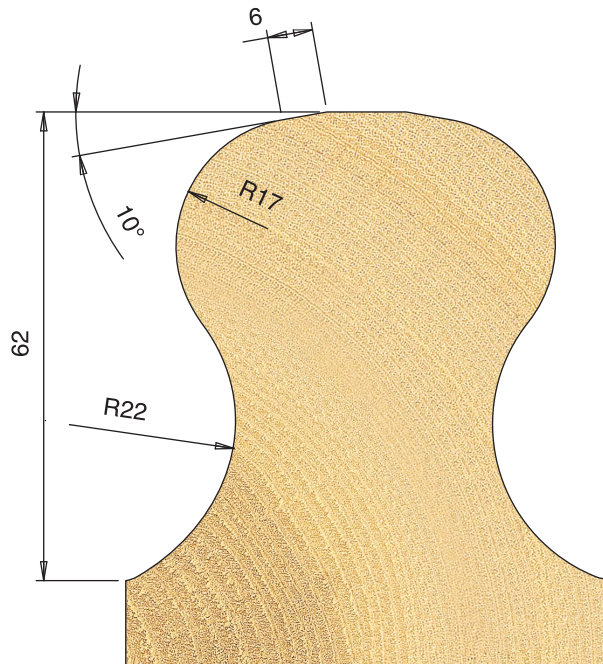
- Hard wearing alloy body complete with disposable Tungsten Carbide knives (z).
- Suitable for producing handrail profiles for stairs and banisters in softwood and hardwood on a spindle moulder.
- Other profile shapes are available to special order.
- Recommended RPM (n): 130mm diameter 5,800 – 7,700. 160mm diameter 4,700 – 7,200.
- Suitable for Hand Feeding (MAN).



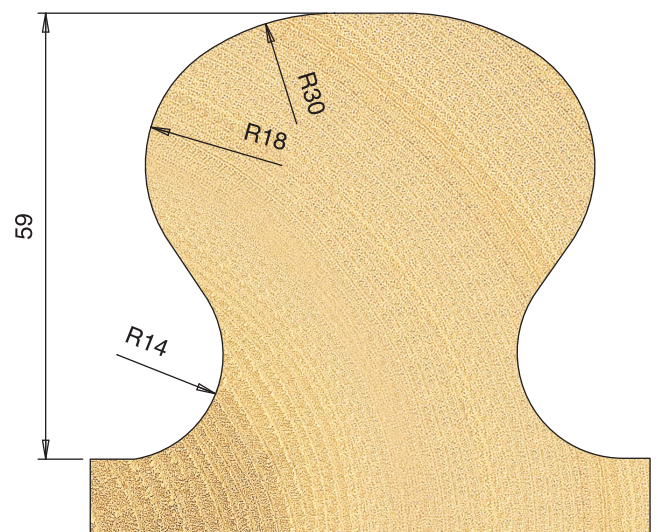
D	Profile	z	B	30mm Bore	1 1/4" Bore	Stock	Price
130	A	2	73	IT/752 510 1	IT/752 510 7	Y	£263.62
160	B	2	73	IT/752 515 1	IT/752 515 7	Y	£317.51

SPARE KNIVES

Description	T.C. Blade	
Product Ref.	IT/310 887 0	IT/310 887 1
Size	69.5x33.5x2 Profile A	70x34x2 Profile B
Price	£47.84	£53.83



Profile A



Profile B

KEY

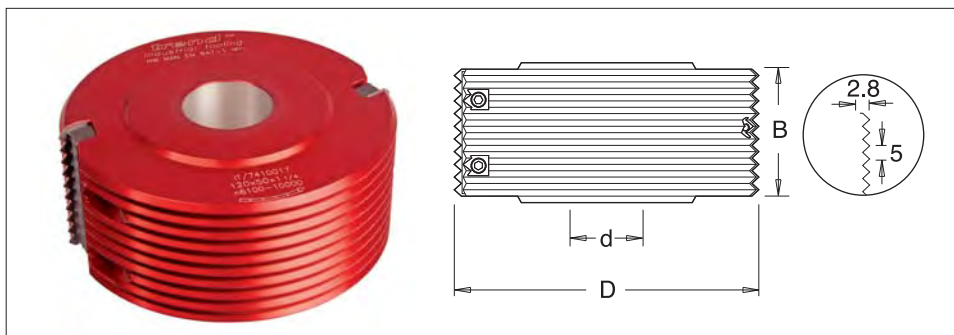
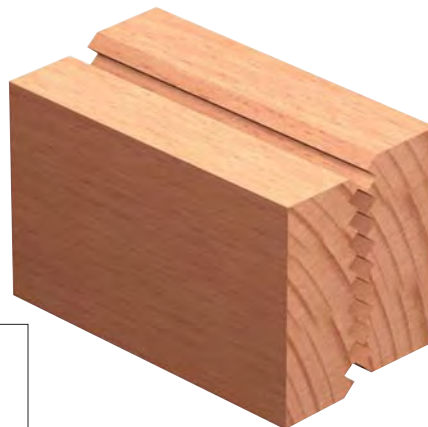
Spare Knives and Scorers - Product Reference ending in /10 are sold in packs of ten.

Stock - Y means normally kept in stock for next day delivery.

N means not normally held in stock, delivery in a short time.

DISPOSABLE INSERT GLUE JOINT CUTTER BLOCK

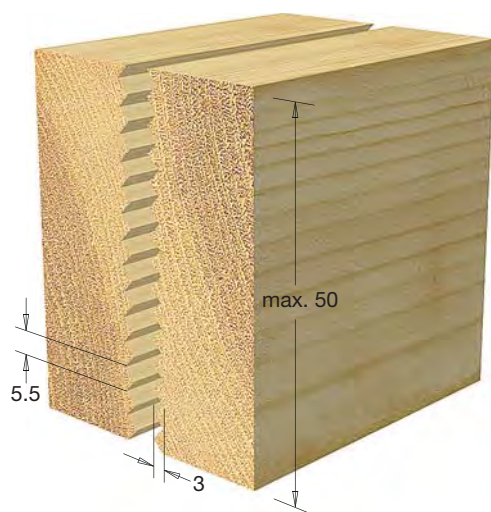
- Hard wearing alloy body complete with disposable Tungsten Carbide knives (z).
- Suitable for producing glue joints in softwood and hardwood on a spindle moulder.
- Recommended RPM (n) 6,100 – 10,00.
- Suitable for Hand Feeding (MAN).



D	B	z	30mm Bore d	1 1/4" Bore d	Stock	Price
120	50	2	IT/741 001 1	IT/741 001 7	Y	£131.02

SPARE KNIFE

Description	T.C. Blade
Product Ref.	IT/3108507
Size	50x12x1.5
Price	£23.92



KEY

Spare Knives and Scorers - Product Reference ending in /10 are sold in packs of ten.

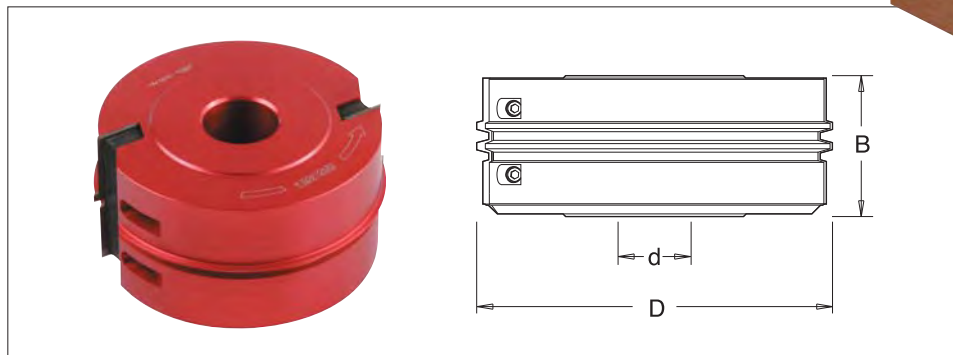
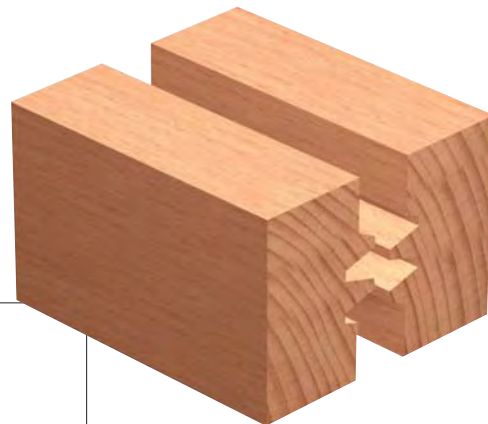
Stock - Y means normally kept in stock for next day delivery.

N means not normally held in stock, delivery in a short time.



DISPOSABLE INSERT GLUE JOINT CUTTER BLOCKS

- Hard wearing steel and alloy body complete with disposable Tungsten Carbide knives (z).
- Suitable for producing "finger style" reversible glue joints in softwood and hardwood on a spindle moulder.
- Recommended RPM (n): 120mm diameter 6,500 – 9,500. 140mm diameter 5,400 – 8,800.
- Suitable for Hand Feeding (MAN).

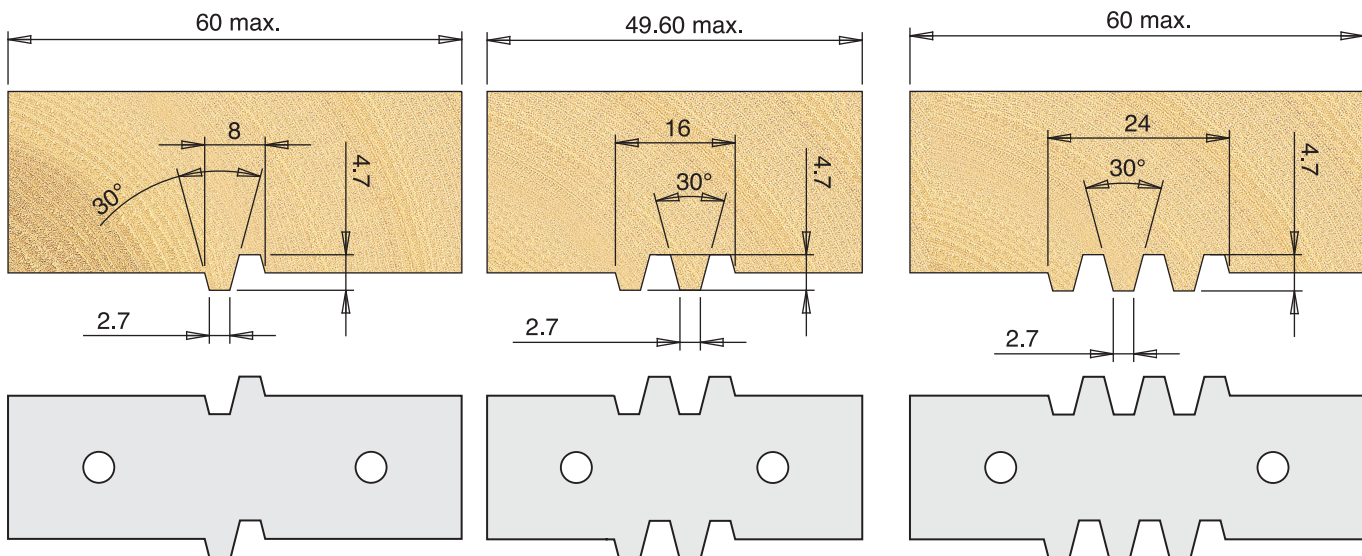


D	Profile	z	B	30mm Bore d	1 1/4" Bore d	Stock	Price
120	A	2	60	IT/741 004 1*	IT/741 004 7*	N	£229.70
140	B	2	50	IT/741 006 1	IT/741 006 7	Y	£248.21
140	C	2	60	IT/741 005 1	IT/741 005 7	Y	£273.90

* Hard wearing alloy body.

SPARE KNIVES

Description	T.C. Blade		
Product Ref.	IT/310 855 1	IT/310 855 2	IT/310 850 1
Size	60x24x2 1 tooth	50x24x2 2 teeth	60x24x2 3 teeth
Price	£45.67	£47.84	£53.28



PROFILE A

Scale 1:1

PROFILE B

PROFILE C

KEY

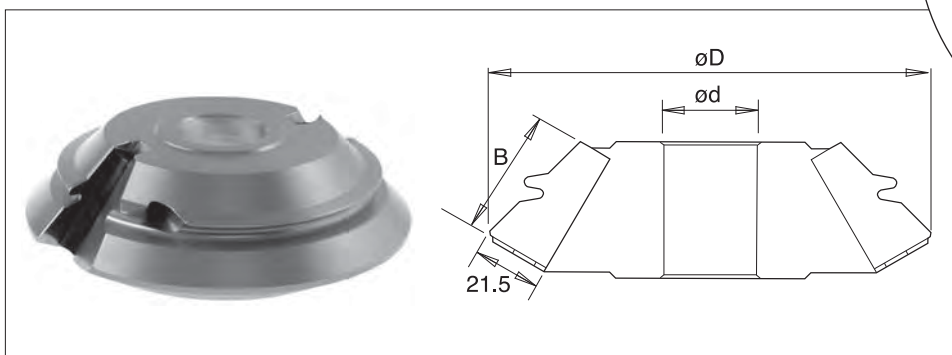
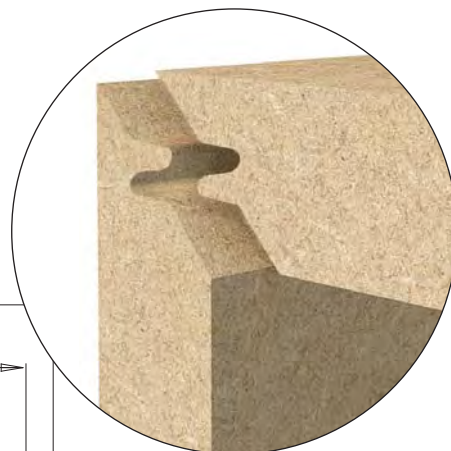
Spare Knives and Scorers - Product Reference ending in /10 are sold in packs of ten.

Stock - Y means normally kept in stock for next day delivery.

N means not normally held in stock, delivery in a short time.

DISPOSABLE INSERT 45° MITRE LOCK CUTTERS

- Hard wearing alloy body complete with disposable Tungsten Carbide knives (z).
- Suitable for producing 45° mitre lock joints in softwood, hardwood and man-made boards on a spindle moulder.
- A 45° joint is produced by machining one piece with the inside face on the table of the spindle moulder. The matching corner inside face is machined upright against the fence.
- Recommended RPM (n): 5,500 – 10,000.
- Suitable for Hand Feeding (MAN).



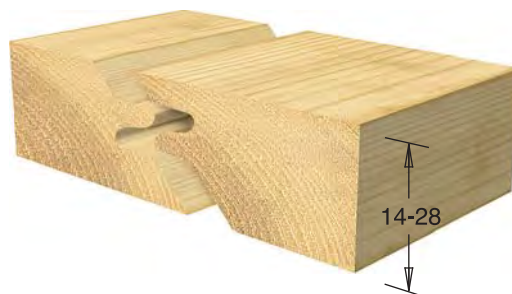
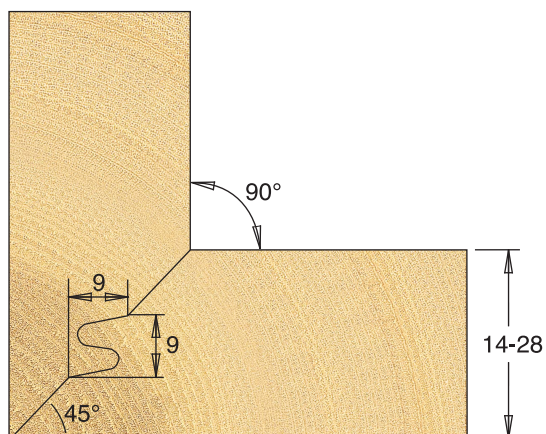
D	B	z	30mm Bore d	1 1/4" Bore d	Stock	Price
140	40	2	IT/ST/ML 001	IT/ST/ML 007	Y	£263.62

SPARE KNIFE

Description	T.C. Blade
Product Ref.	IT/ST/IB01
Size	40x12x1.5
Price	£44.52

SPARE PART

Description	Spare Top Screw
Product Ref.	IT/SS/01
Size	M4x6
Price	£1.83



KEY

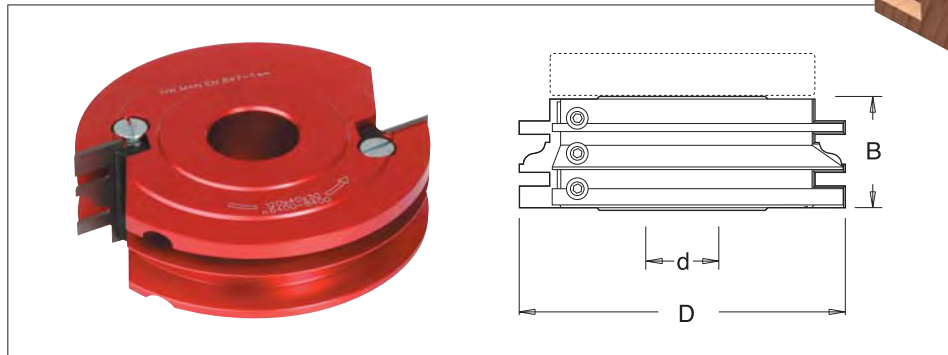
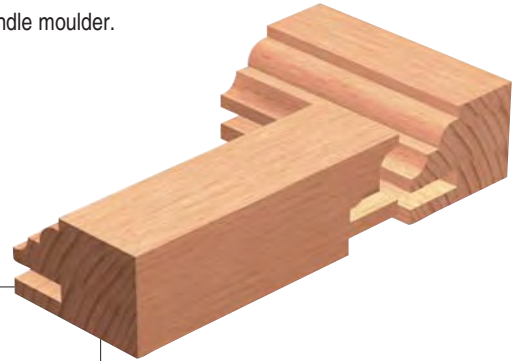
Spare Knives and Scorers - Product Reference ending in /10 are sold in packs of ten.

Stock - Y means normally kept in stock for next day delivery.

N means not normally held in stock, delivery in a short time.

DISPOSABLE INSERT PROFILE/COUNTER PROFILE CUTTER BLOCKS

- Hard wearing alloy body complete with disposable Tungsten Carbide knives (z).
- Suitable for producing various profile/counter profile joints in softwood and hardwood on a spindle moulder.
- Raising or lowering the cutter block on the spindle moulder produces both parts of the joint.
- All of the Tungsten Carbide inserts (profile A – D) can be used in the same block.
- Recommended RPM (n): 5,000 – 8,400.
- Suitable for Hand Feeding (MAN).



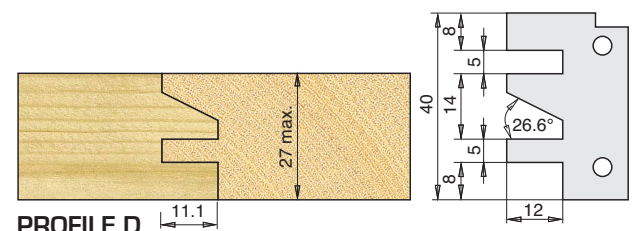
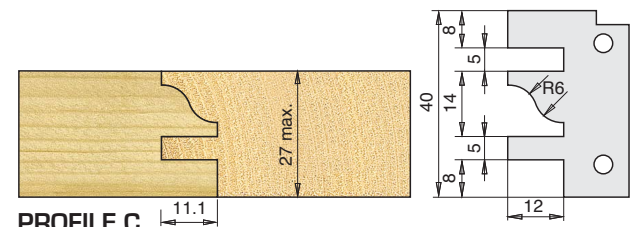
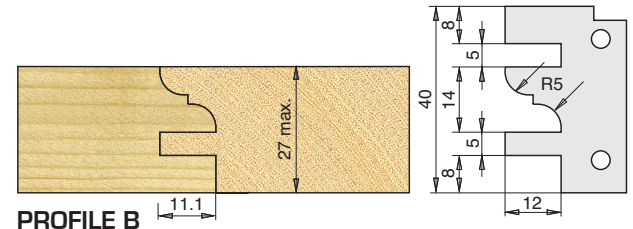
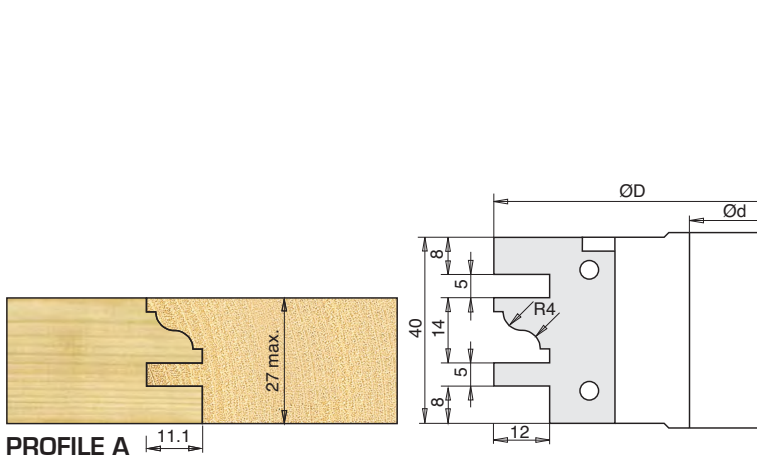
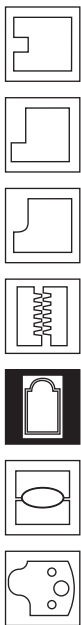
D	Profile	z	B	30mm Bore d	1 1/4" Bore d	Stock	Price
120	A	2	40	IT/742 031 1	IT/742 031 7	Y	£153.10
120	B	2	40	IT/742 032 1	IT/742 032 7	Y	£153.10
120	C	2	40	IT/742 033 1	IT/742 033 7	Y	£153.10
120	D	2	40	IT/742 034 1	IT/742 034 7	Y	£153.10

SPARE KNIVES

Description	T.C. Blade			
Product Ref.	IT/310 865 6	IT/310 866 6	IT/310 867 6	IT/310 868 6
Size	40x26x2 Profile A	40x26x2 Profile B	40x26x2 Profile C	40x26x2 Profile D
Price	£35.88	£35.88	£35.88	£35.88

BALL BEARING GUIDE

Description	Ball Bearing	
Product Ref.	IT/191 520 1	IT/191 520 7
Size	98x15x30	98x15x1-1/4"
Price	£34.48	£34.48



KEY

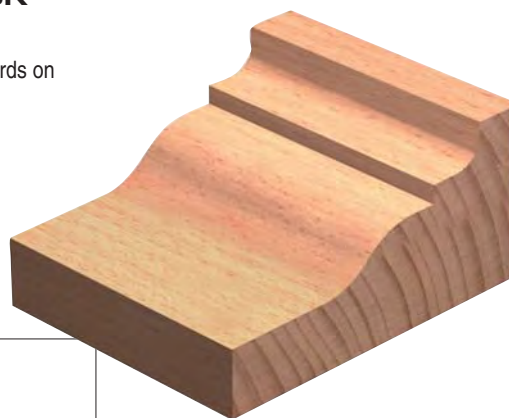
Spare Knives and Scorers - Product Reference ending in /10 are sold in packs of ten.

Stock - Y means normally kept in stock for next day delivery.

N means not normally held in stock, delivery in a short time.

DISPOSABLE INSERT PANEL RAISING CUTTER BLOCK

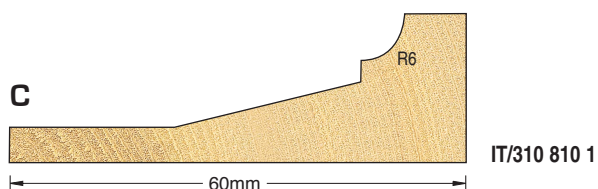
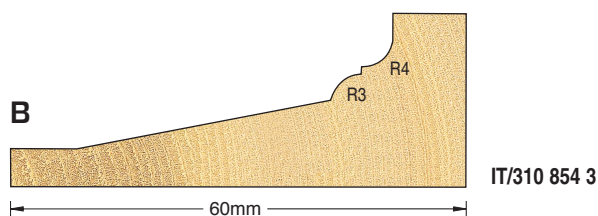
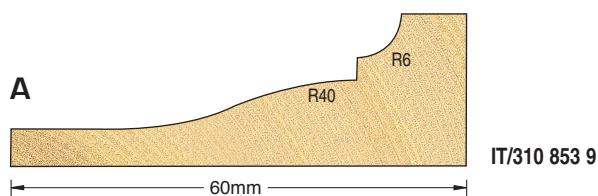
- Hard wearing alloy body complete with disposable Tungsten Carbide knives (z).
- Suitable for producing various raised panel profiles in softwood, hardwood and man-made boards on a spindle moulder.
- All of the Tungsten Carbide inserts (profile A - C) can be used in the same block.
- The cutter block works over the top of the timber.
- Recommended RPM (n): 4,200 - 7,000.
- Suitable for hand feeding (MAN).



D	Profile	z	B	t	30mm Bore d	1 1/4" Bore d	Stock	Price
180	A	2	25	57	IT/751 072 1	IT/751 072 7	Y	£160.96
180	B	2	25	57	IT/751 073 1	IT/751 073 7	Y	£160.96
180	C	2	25	57	IT/751 074 1	IT/751 074 7	Y	£160.96

SPARE KNIVES

Description	T.C. Blade		
Product Ref.	IT/310 853 9	IT/310 854 3	IT/310 810 1
Size	16x60x2 Profile A	16x60x2 Profile B	16x60x2 Profile C
Price	£35.33	£34.48	£34.48



KEY

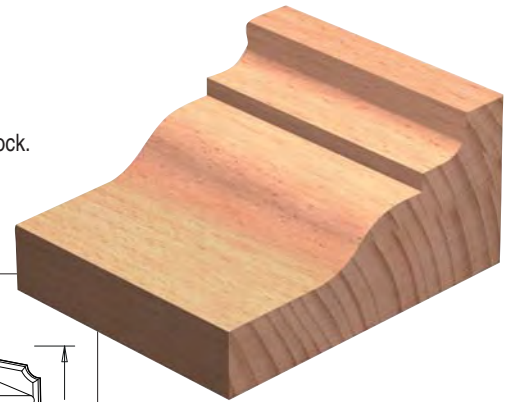
Spare Knives and Scorers - Product Reference ending in /10 are sold in packs of ten.

Stock - Y means normally kept in stock for next day delivery.

N means not normally held in stock, delivery in a short time.

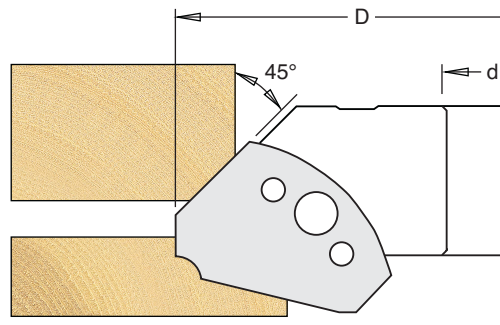
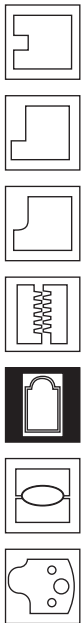
MULTI PROFILE PANEL RAISING CUTTER BLOCK

- Hard wearing alloy body only. Knives and limitors are purchased separately.
- Suitable for producing various raised panel profiles in softwood and hardwood boards on a spindle moulder.
- The cutter block works over the top of the timber for panel raising.
- Each knife will also produce a 45° chamfer with the timber running over the top of the knife.
- All of the tool steel knives and corresponding limitor plates (1 – 7) can be used in the same block.
- Recommended RPM (n): 4,500 – 7,000.
- Suitable for Hand Feeding (MAN).



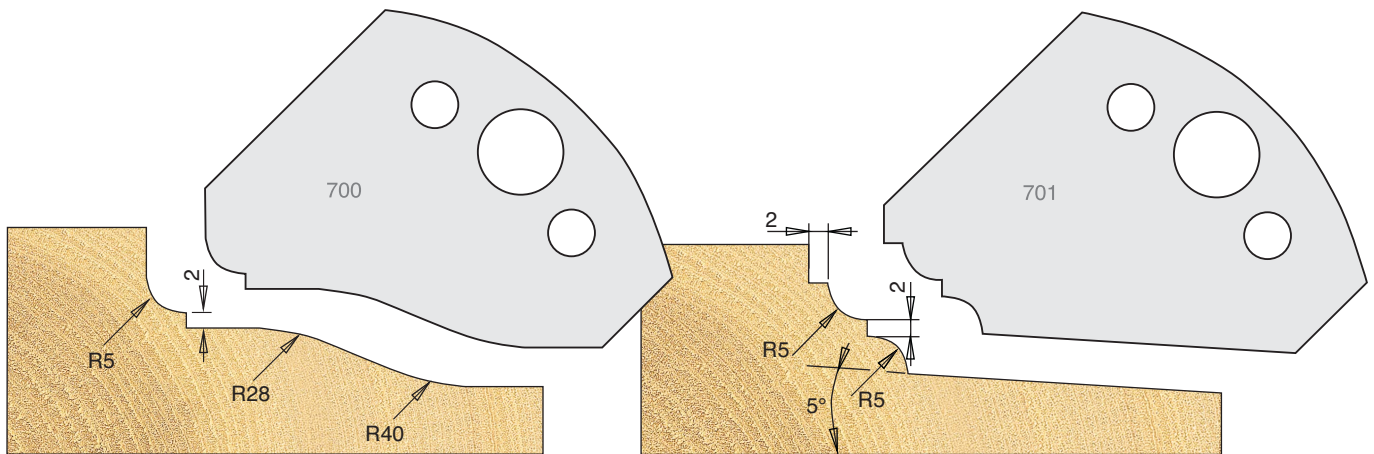
Please note: Cutter block is supplied **without** knives and limitors, and works over the top of the panel.

D	B	z	30mm Bore d	1 1/4" Bore d	Stock	Price
160	48	2	IT/778 101 1	IT/778 101 7	Y	£151.14



PANEL RAISING TOOL STEEL KNIVES

- Panel raising tool steel knives and corresponding limitor plates (700 - 701) to suit cutter block IT/778 101 1 and IT/778 101 7.



Tool Steel Knives	IT/33 700 40	£26.09
HSS Knives	IT/33 700 43	£59.81
Limitors	IT/34 700 40	£20.67

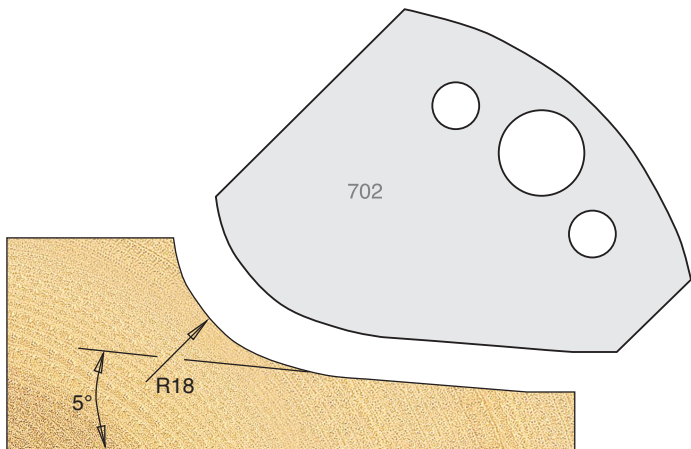
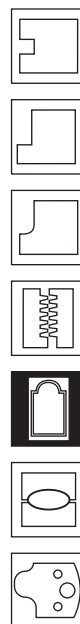
Tool Steel Knives	IT/33 701 40	£26.09
HSS Knives	IT/33 701 43	£59.81
Limitors	IT/34 701 40	£20.67

KEY

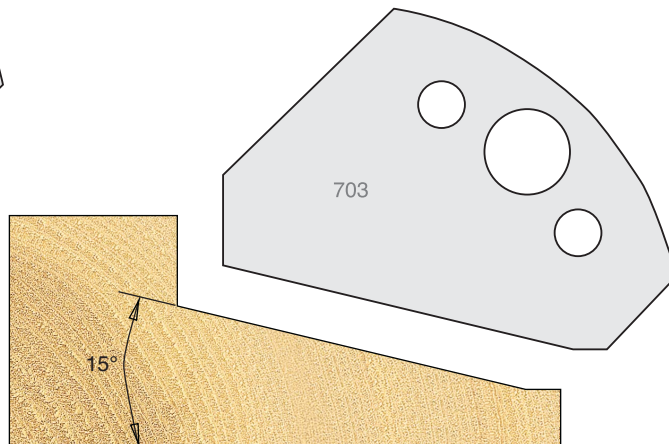
Stock - Y means normally kept in stock for next day delivery.
 N means not normally held in stock, delivery in a short time.

All knives and limitor plates sold as a pair

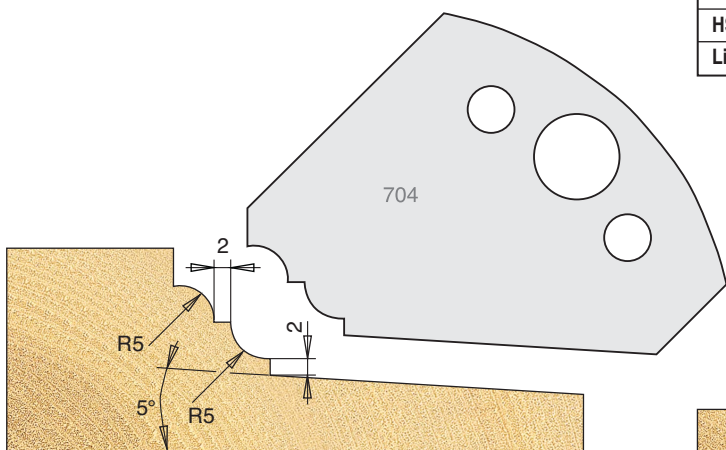
All prices are exclusive of VAT



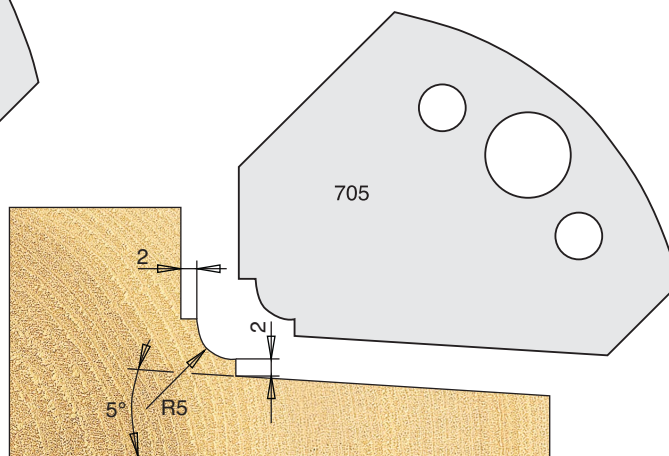
Tool Steel Knives	IT/33 702 40	£26.09
HSS Knives	IT/33 702 43	£59.81
Limitors	IT/34 702 40	£20.67



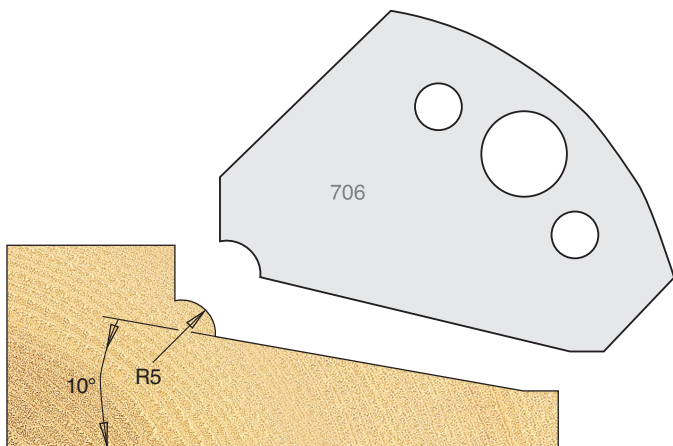
Tool Steel Knives	IT/33 703 40	£26.09
HSS Knives	IT/33 703 43	£59.81
Limitors	IT/34 703 40	£20.67



Tool Steel Knives	IT/33 704 40	£26.09
HSS Knives	IT/33 704 43	£59.81
Limitors	IT/34 704 40	£20.67



Tool Steel Knives	IT/33 705 40	£26.09
HSS Knives	IT/33 705 43	£59.81
Limitors	IT/34 705 40	£20.67



Tool Steel Knives	IT/33 706 40	£26.09
HSS Knives	IT/33 706 43	£59.81
Limitors	IT/34 706 40	£20.67

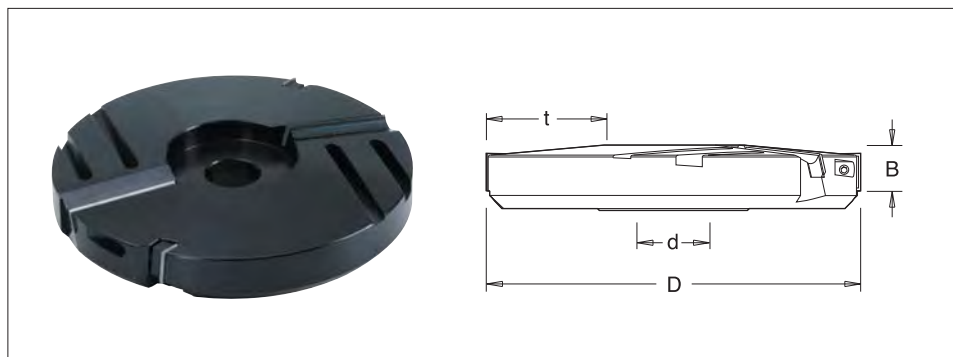
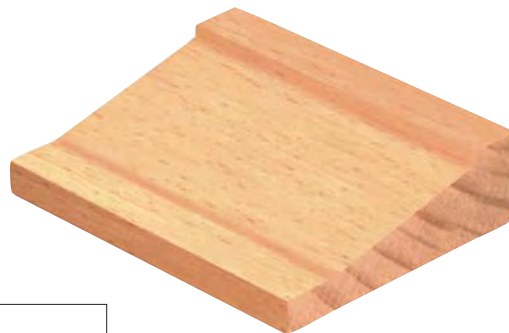
HSS knives available to special order (HSS knives last approximately six times longer than tool steel)

All knives and limiter plates sold as a pair

All prices are exclusive of VAT

DISPOSABLE INSERT PANEL RAISING CUTTER BLOCK

- Hard wearing alloy body complete with disposable Tungsten Carbide knives (z).
- Suitable for producing raised panel profiles in softwood, hardwood and man-made boards on a spindle moulder.
- The cutter block works over the top of the timber.
- Recommended RPM (n): 3,800 – 6,500.
- Suitable for Hand Feeding (MAN).



Hand Feed



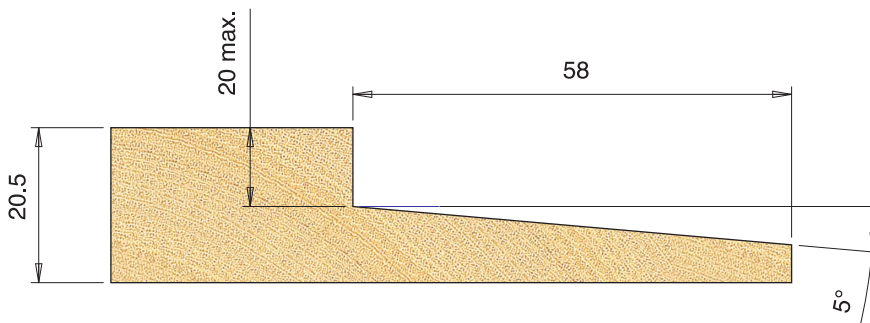
EN847-1/2



D	B	z	max. t	30mm Bore d	1 1/4" Bore d	Stock	Price
200	35	2+2	58	IT/751 010 1	IT/751 010 7	Y	£224.00

SPARE KNIVES

Description	T.C. Blade	
	Product Ref.	IT/310 722 0/10
Size	20x12x1.5	60x12x1.5
Price	£53.28	£55.49



KEY

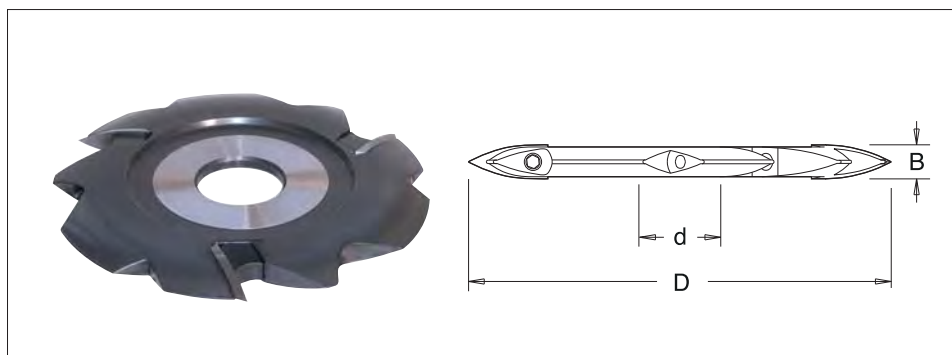
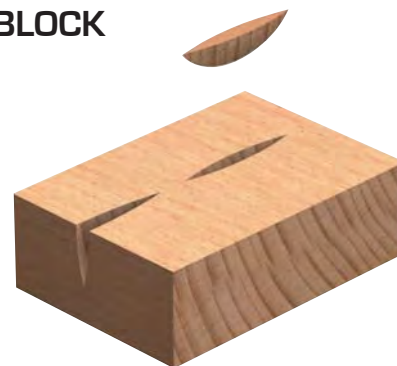
Spare Knives and Scorers - Product Reference ending in /10 are sold in packs of ten.

Stock - Y means normally kept in stock for next day delivery.

N means not normally held in stock, delivery in a short time.

LAMELLO® DISPOSABLE INSERT RESIN POCKET CUTTER BLOCK

- Hard wearing steel body complete with disposable Tungsten Carbide knives (z).
- Suitable for producing the slot in softwood and hardwood boards to take the No.2 wooden patches used in the Lamello® Minispot machine.
- Constant diameter and groove width through disposable tips. More cost effective than standard tipped cutter.
- Recommended RPM (n): 7,600 – 13,400.
- Suitable for Hand Feeding (MAN).



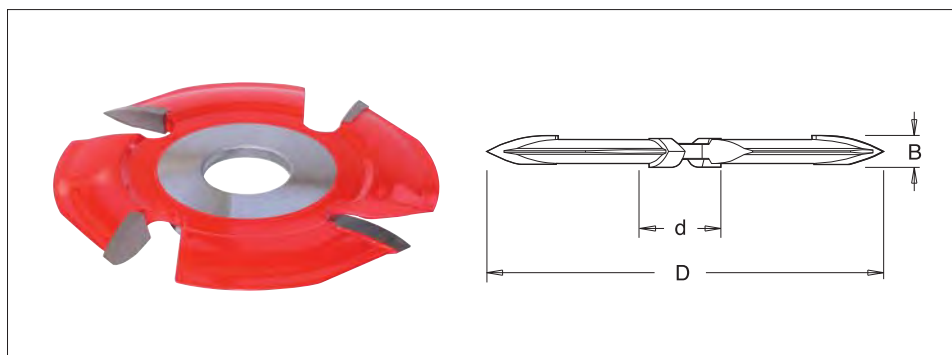
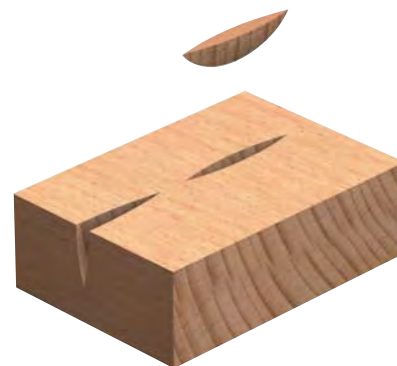
D	B	z	22mm Bore d	Stock	Price
100	8	3	IT/721 025 4	Y	£206.08

SPARE KNIFE

Description	T.C. Blade
Product Ref.	IT/310 858 2
Size	8x20x2
Price	£21.75

LAMELLO® RESIN POCKET CUTTER BLOCK

- Hard wearing steel body complete with Tungsten Carbide Tips (z).
- Suitable for producing the slot in softwood and hardwood boards to take the No.2 wooden patches used in the Lamello® Minispot machine.
- 15mm wide cutter block also available for No.4 wooden patches.
- Recommended RPM (n): 7,600 - 13,400.
- Suitable for Hand Feeding (MAN).



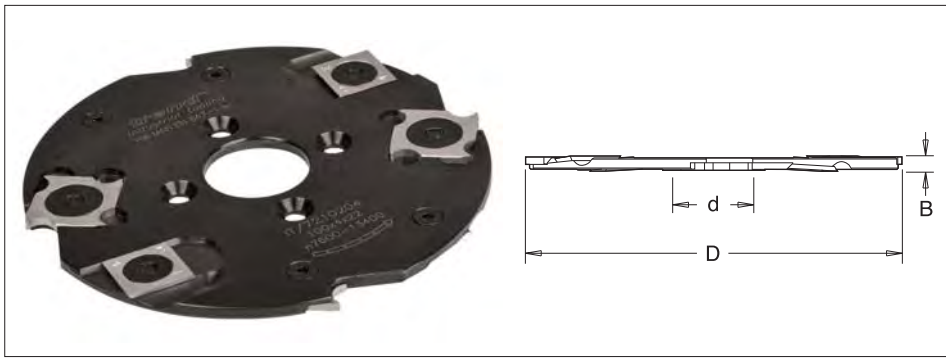
D	B	z	Minispot Patch Size	22mm Bore d	Stock	Price
100	8	4	No. 2	IT/707 520 4	Y	£78.09
100	15	4	No. 4	IT/707 525 4	Y	£107.65

KEY

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LAMELLO® DISPOSABLE INSERT BISCUIT JOINT CUTTER

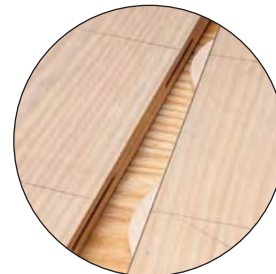
- Hard wearing steel body complete with disposable Tungsten Carbide knives (z) and scribes (v).
- Suitable for producing biscuit joint slots in softwood, hardwood and man-made boards with a biscuit jointing machine.
- Constant diameter and groove width through disposable tips. More cost effective than standard tipped cutter.
- Fits all standard biscuit jointers.
- Recommended RPM (n): 7,700 – 15,000.
- Suitable for Hand Feeding (MAN).



D	z	v	B	22mm Bore d	Stock	Price
100	4	4	4	IT/721 020 4	Y	£112.57

SPARE KNIVES & SCORERS

Description	T.C. Blade	
Product Ref.	IT/300 850 1/10	IT/300 850 2/10
Size	18x18x2	14x14x1.2
Price	£59.81	£27.75



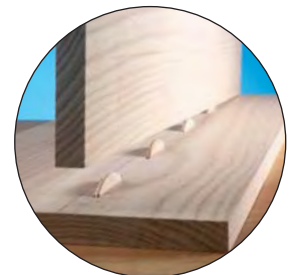
EDGE JOINTS



MITRE JOINTS



BEVEL JOINTS



T-JOINTS

For details of the T20K Biscuit Jointer please see the latest Trend Routing & Woodworking Catalogue.

KEY

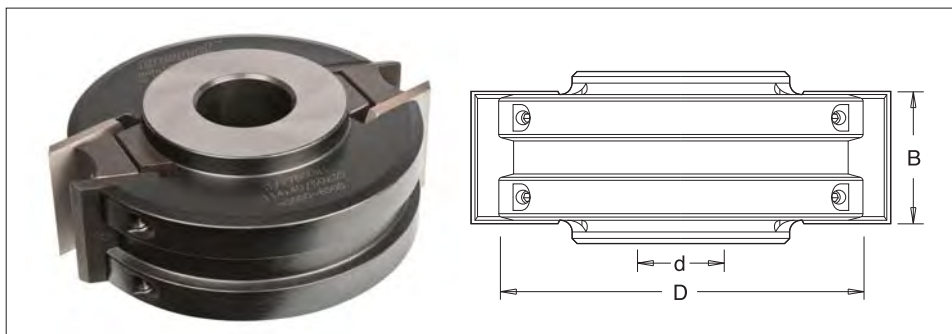
Spare Knives and Scorers - Product Reference ending in /10 are sold in packs of ten.

Stock - Y means normally kept in stock for next day delivery.

N means not normally held in stock, delivery in a short time.

MULTI PROFILE CUTTER BLOCKS

- Hard wearing steel and alloy (100mm diameter) body complete with two tool steel rebate knives and limiter plates.
- Suitable for jointing, rebating and profiling with 4mm thick knives and limitors in un-bonded softwood and hardwood boards on a spindle moulder.
- 14 profiles available in TCT suitable for abrasive hardwoods and man-made board.
- Over one hundred and fifty 40mm and seventy 50mm profiles and limitors available from stock.
- 114mm diameter cutter block suitable for 40mm and 50mm knives and limitors.
- Suitable for Hand Feeding (MAN).



Recommended RPM (n):

78mm dia.	7,000 – 9,000
93mm dia.	6,000 – 9,000
100mm dia.	5,000 – 8,000
114mm dia.	5,000 – 8,500
120mm dia.	5,100 – 8,000



Hand Feed

D	B	z	30mm Bore d	1 1/4" Bore d	Stock	Price
78	40	2	IT/776 010 1	-	Y	£103.34
93	40	2	IT/776 006 1	IT/776 006 7	Y	£67.26
100	40	2	IT/776 020 1*	IT/776 010 7*	Y	£79.12
120	40	2	IT/776 007 1	IT/776 007 7	Y	£79.12
114	40/50	2	IT/776 008 1**	IT/776 008 7**	Y	£79.12

*Alloy Body

**Suitable for 40mm and 50mm profile knives/limitor plates.

CUTTER DIAMETER WITH MOUNTED REBATE KNIVES SPARE PIN

Cutter Head Diameter	Diameter with Rebate Knives
78mm	90mm
93mm	105mm
100mm	112mm
114mm	128mm
120mm	132mm

Description	Location Pin
Product Ref.	IT/190 701 1
Size	6xM5x6
Price	£1.59

EMPTY WOODEN STORAGE BOXES FOR 40MM KNIVES, LIMITORS & CUTTER BLOCKS

- Empty wooden storage box suitable for cutter blocks listed above and 40mm profile knives and limitors shown on the following pages.
- Allows you to create your own sets.



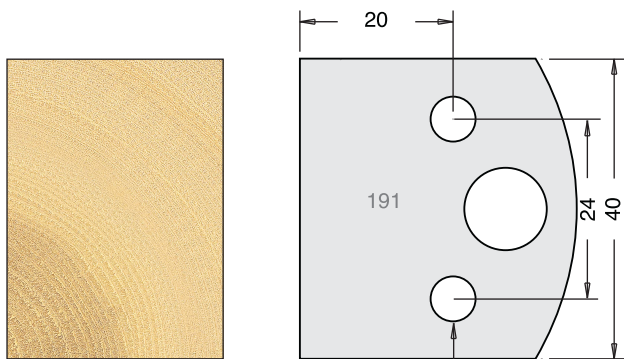
Max Dia. of Cutterhead	Box Size	Max. no. of Knives/Limitors	Product Ref.	Stock	Price
93	125x220x60	12 Pairs	IT/600 106 0	Y	£19.07
114	155x240x60	12 Pairs	IT/600 106 1	Y	£25.12
130	195x265x60	24 Pairs	IT/600 106 2	Y	£29.35

KEY

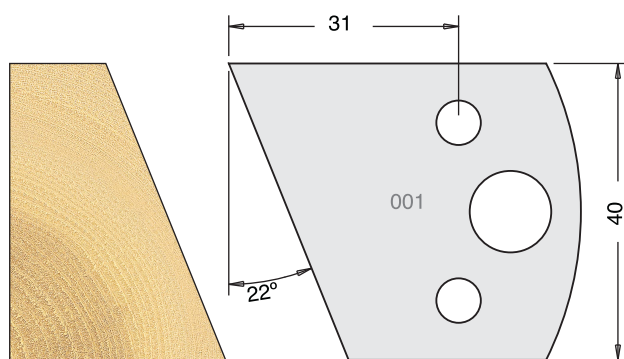
Stock - Y means normally kept in stock for next day delivery.
N means not normally held in stock, delivery in a short time.

All drawings are actual size
 Profile drawing shows back of knife

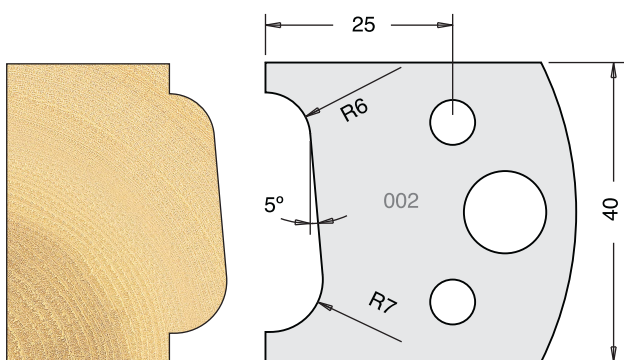
TOOL STEEL MULTI PROFILE CUTTERS - 40X4MM



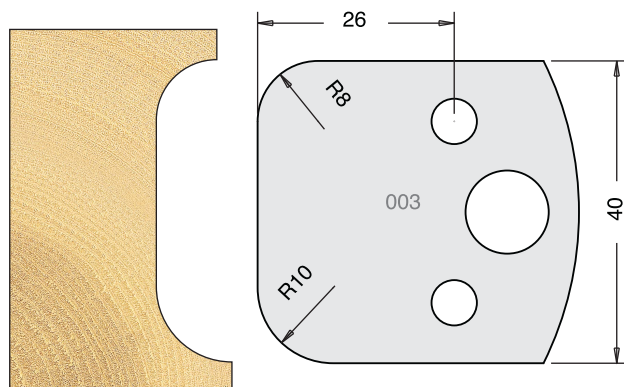
Knives	IT/33 191 40	£6.42
Limitors	IT/34 191 40	£9.90



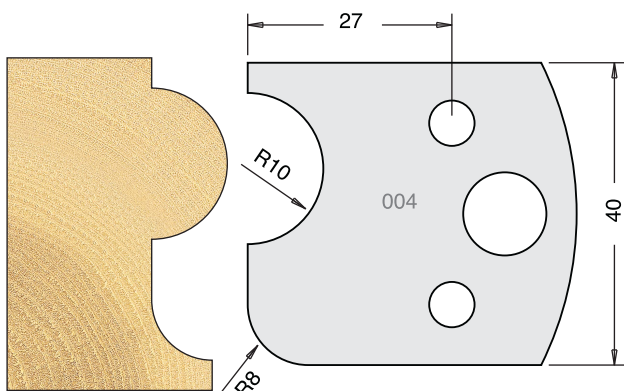
Knives	IT/33 001 40	£9.79
Limitors	IT/34 001 40	£9.24



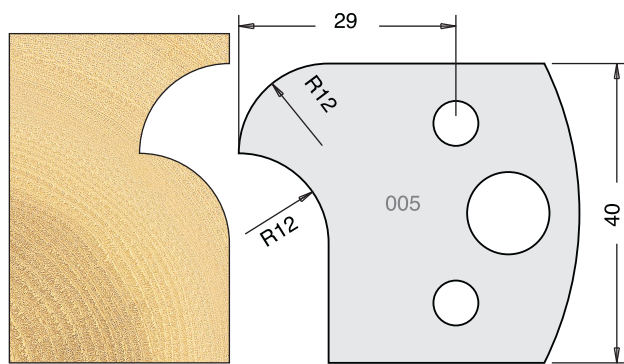
Knives	IT/33 002 40	£9.79
Limitors	IT/34 002 40	£9.24



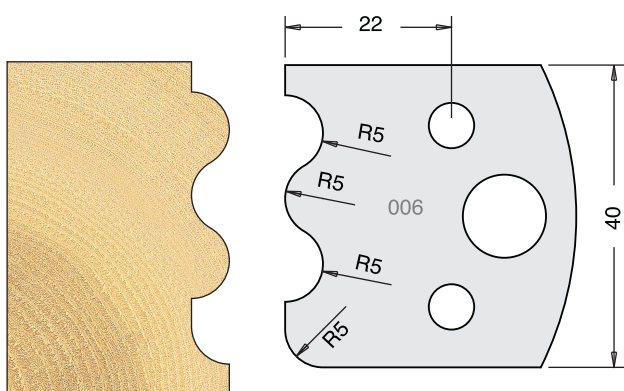
Knives	IT/33 003 40	£9.79
Limitors	IT/34 003 40	£9.24



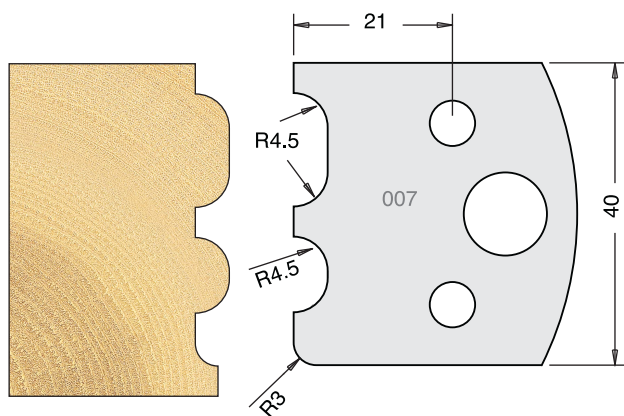
Knives	IT/33 004 40	£9.79
Limitors	IT/34 004 40	£9.24



Knives	IT/33 005 40	£9.79
Limitors	IT/34 005 40	£9.24



Knives	IT/33 006 40	£9.79
Limitors	IT/34 006 40	£9.24

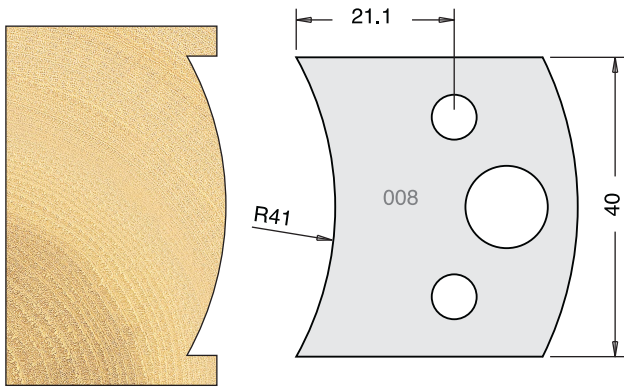


Knives	IT/33 007 40	£9.79
Limitors	IT/34 007 40	£9.24

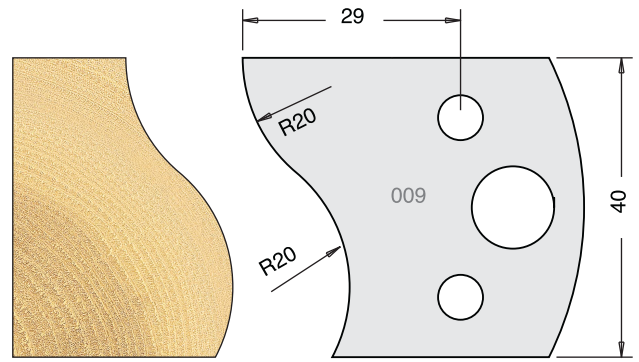


All drawings are actual size
Profile drawing shows back of knife

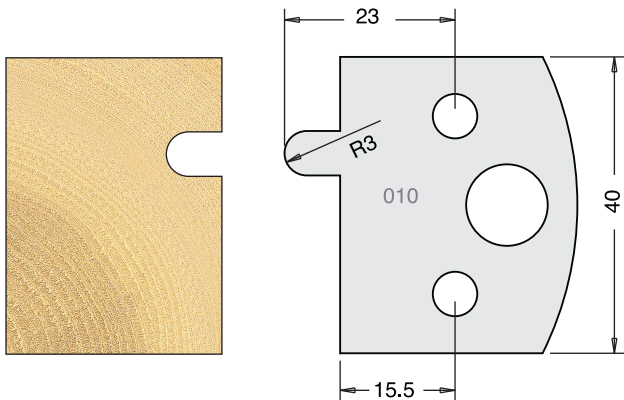
TOOL STEEL MULTI PROFILE CUTTERS - 40X4MM



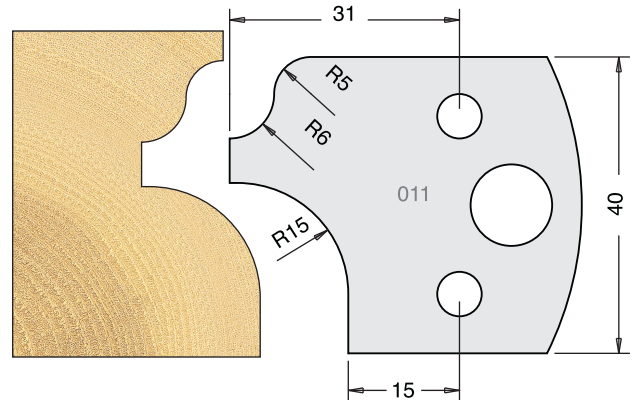
Knives	IT/33 008 40	£9.79
Limitors	IT/34 008 40	£9.24



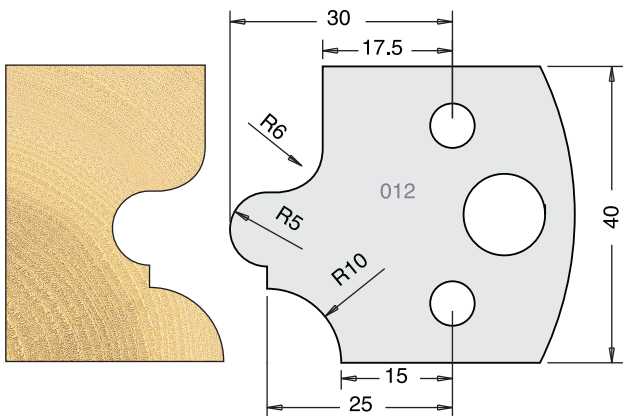
Knives	IT/33 009 40	£9.79
Limitors	IT/34 009 40	£9.24



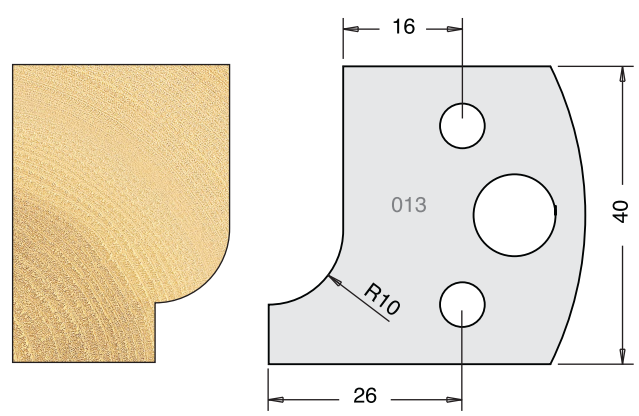
Knives	IT/33 010 40	£9.79
Limitors	IT/34 010 40	£9.24



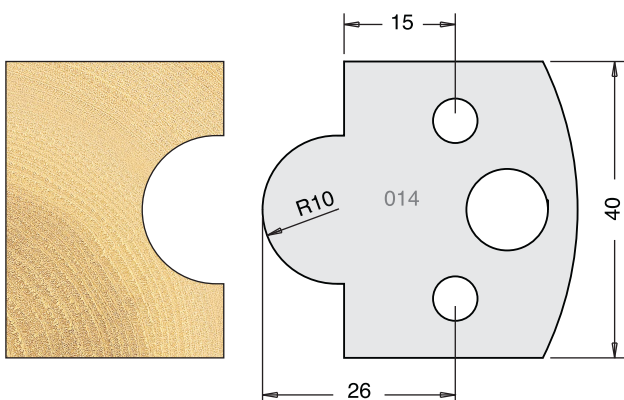
Knives	IT/33 011 40	£9.79
Limitors	IT/34 011 40	£9.24



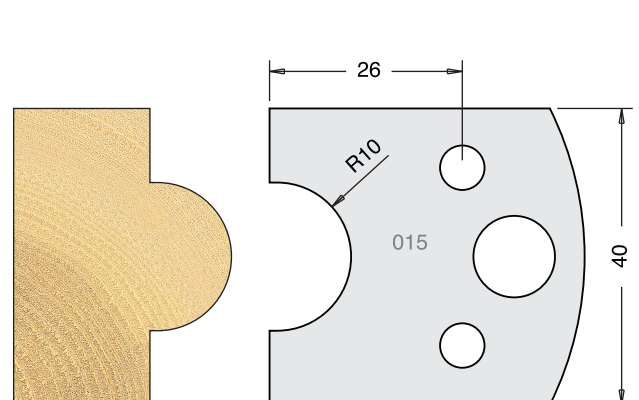
Knives	IT/33 012 40	£9.79
Limitors	IT/34 012 40	£9.24



Knives	IT/33 013 40	£9.79
Limitors	IT/34 013 40	£9.24

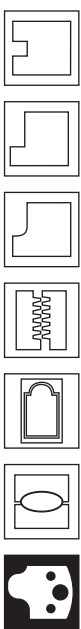


Knives	IT/33 014 40	£9.79
Limitors	IT/34 014 40	£9.24



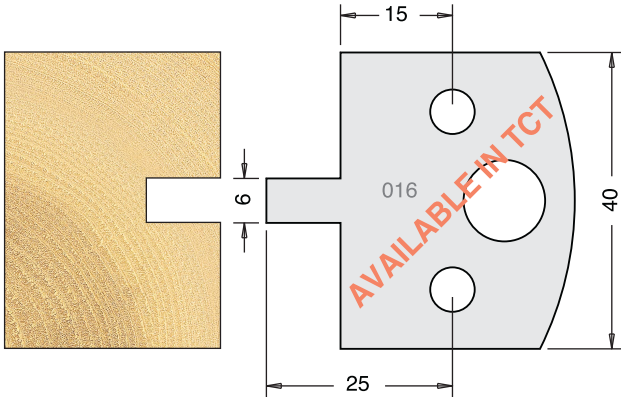
Knives	IT/33 015 40	£9.79
Limitors	IT/34 015 40	£9.24

All blades sold as a pair
All prices are exclusive of VAT

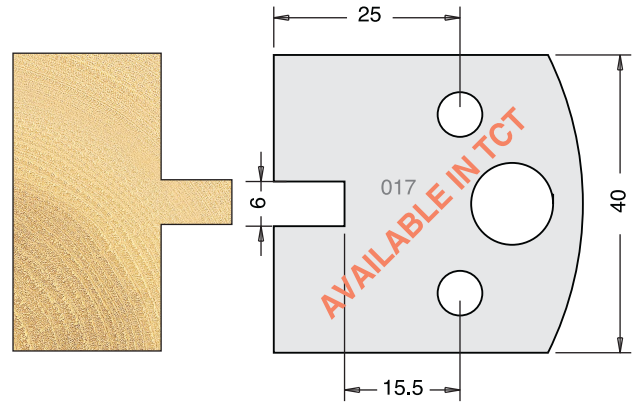


All drawings are actual size
Profile drawing shows back of knife

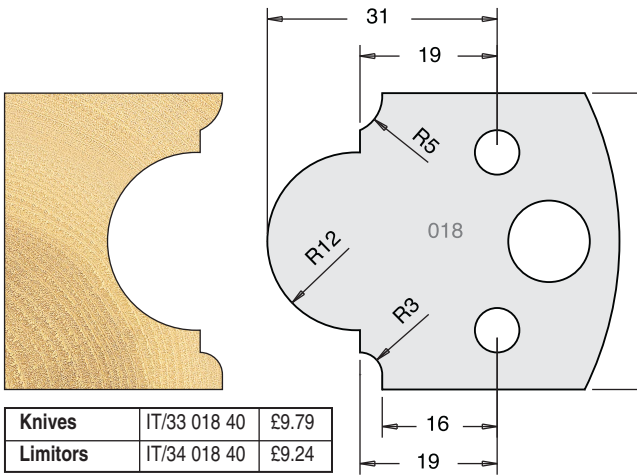
TOOL STEEL MULTI PROFILE CUTTERS - 40X4MM



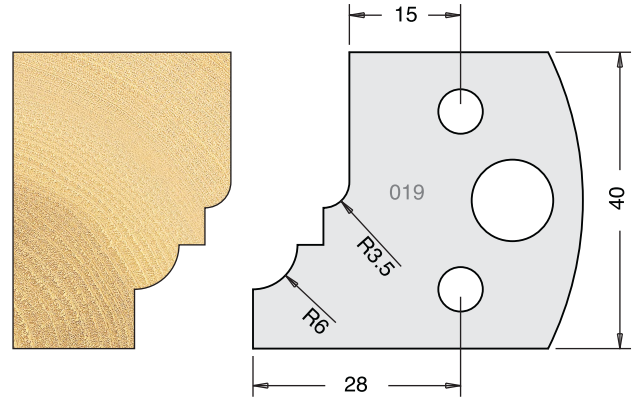
Knives	IT/33 016 40	£9.79	TCT	IT/33 016 42	£41.65
Limitors	IT/34 016 40	£9.24			



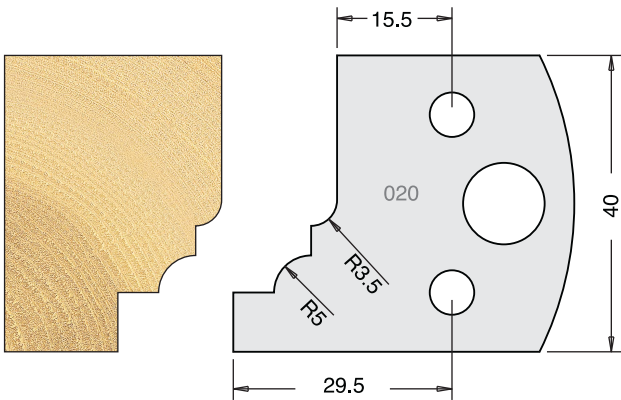
Knives	IT/33 017 40	£9.79	TCT	IT/33 017 42	£41.65
Limitors	IT/34 017 40	£9.24			



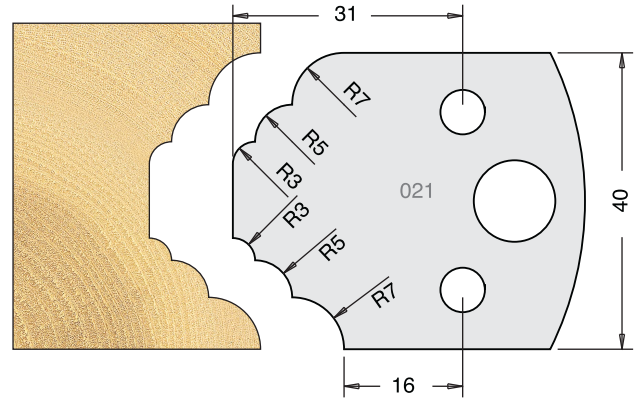
Knives	IT/33 018 40	£9.79
Limitors	IT/34 018 40	£9.24



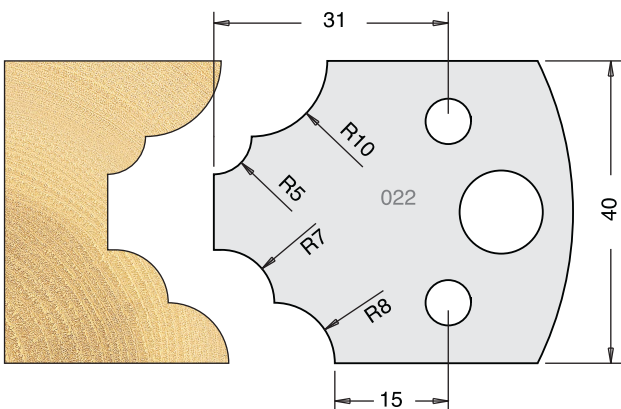
Knives	IT/33 019 40	£9.79
Limitors	IT/34 019 40	£9.24



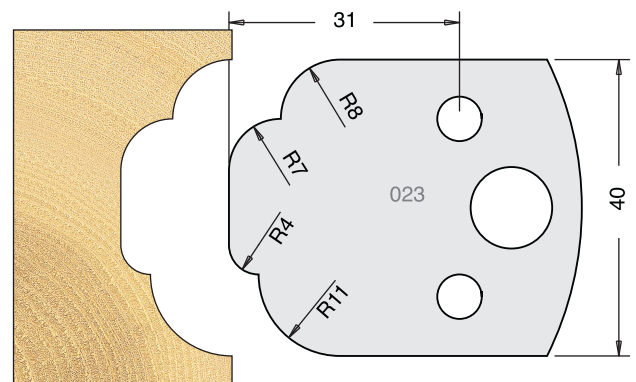
Knives	IT/33 020 40	£9.79
Limitors	IT/34 020 40	£9.24



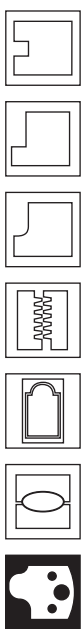
Knives	IT/33 021 40	£9.79
Limitors	IT/34 021 40	£9.24



Knives	IT/33 022 40	£9.79
Limitors	IT/34 022 40	£9.24



Knives	IT/33 023 40	£9.79
Limitors	IT/34 023 40	£9.24

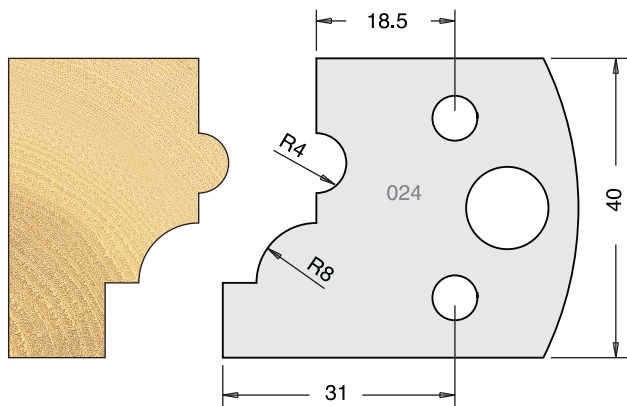


AVAILABLE IN TCT

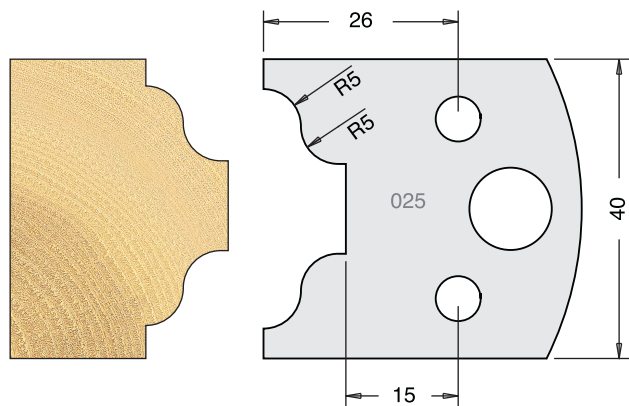
AVAILABLE IN TCT

All drawings are actual size
Profile drawing shows back of knife

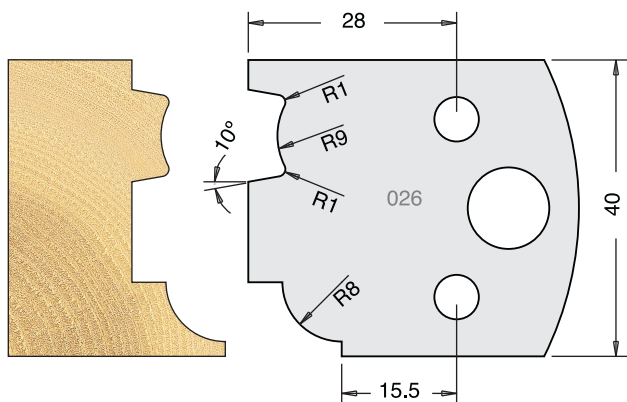
TOOL STEEL MULTI PROFILE CUTTERS - 40X4MM



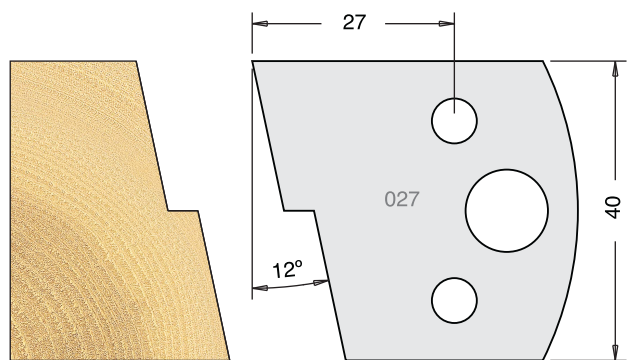
Knives	IT/33 024 40	£9.79
Limitors	IT/34 024 40	£9.24



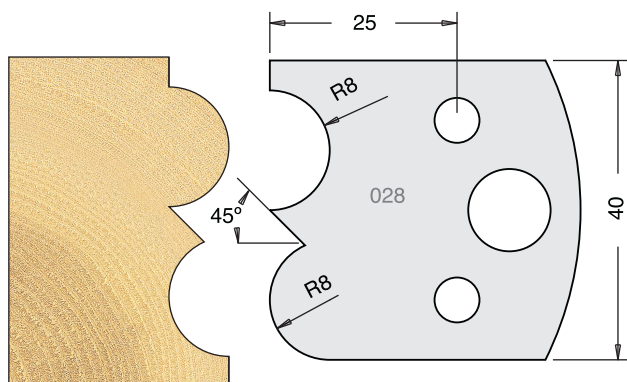
Knives	IT/33 025 40	£9.79
Limitors	IT/34 025 40	£9.24



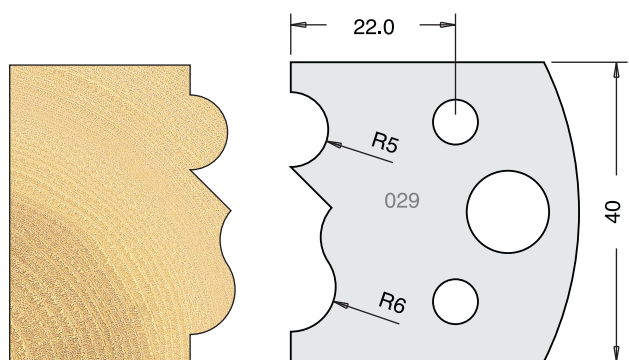
Knives	IT/33 026 40	£9.79
Limitors	IT/34 026 40	£9.24



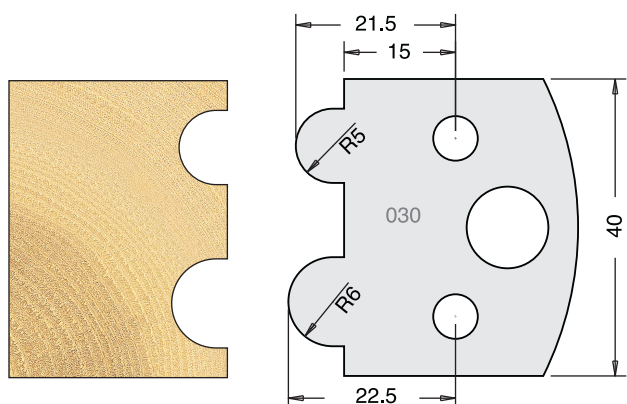
Knives	IT/33 027 40	£9.79
Limitors	IT/34 027 40	£9.24



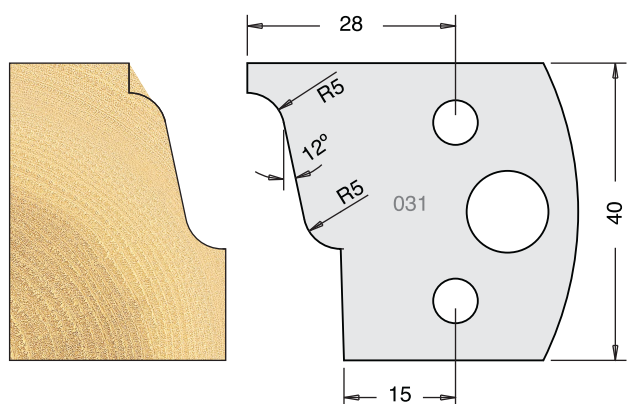
Knives	IT/33 028 40	£9.79
Limitors	IT/34 028 40	£9.24



Knives	IT/33 029 40	£9.79
Limitors	IT/34 029 40	£9.24



Knives	IT/33 030 40	£9.79
Limitors	IT/34 030 40	£9.24

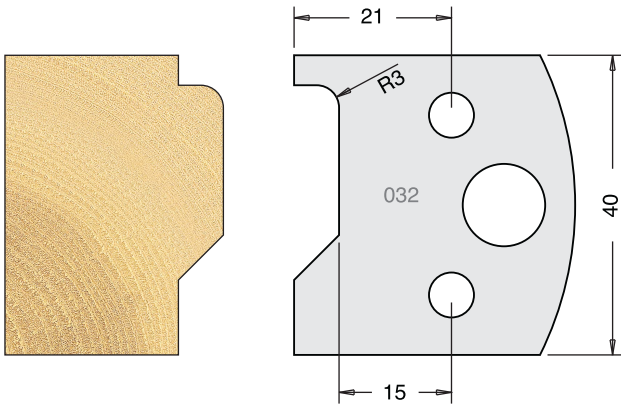


Knives	IT/33 031 40	£9.79
Limitors	IT/34 031 40	£9.24

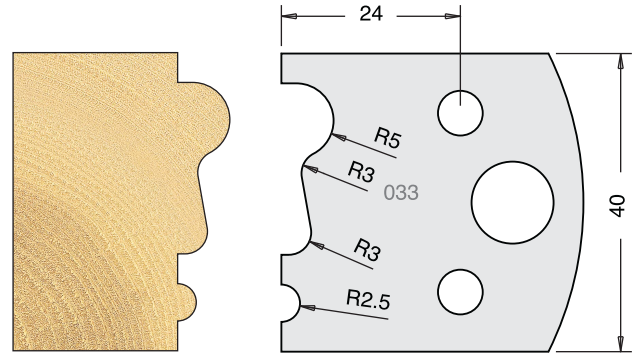
All blades sold as a pair
All prices are exclusive of VAT

All drawings are actual size
Profile drawing shows back of knife

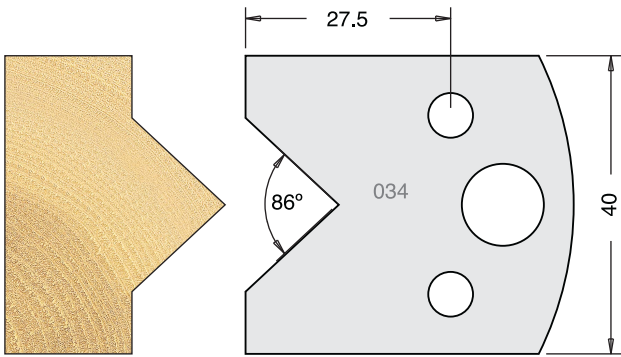
TOOL STEEL MULTI PROFILE CUTTERS - 40X4MM



Knives	IT/33 032 40	£9.79
Limitors	IT/34 032 40	£9.24

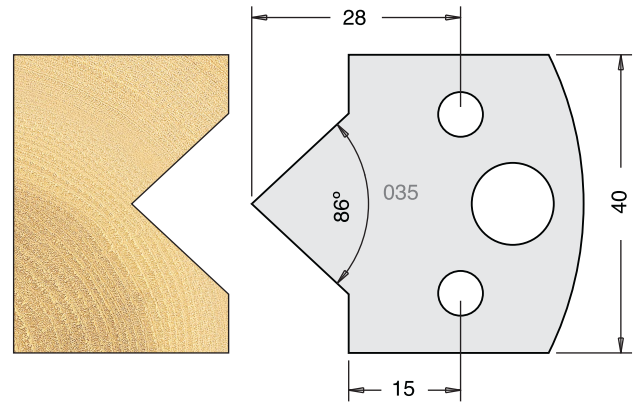


Knives	IT/33 033 40	£9.79
Limitors	IT/34 033 40	£9.24



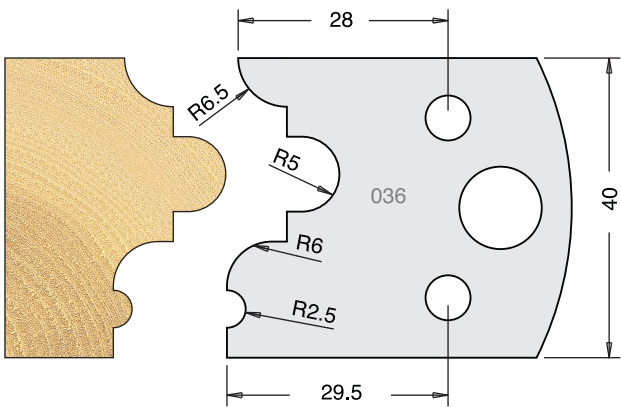
Knives	IT/33 034 40	£9.79
Limitors	IT/34 034 40	£9.24

Not for use to create a 45° mitre cut.

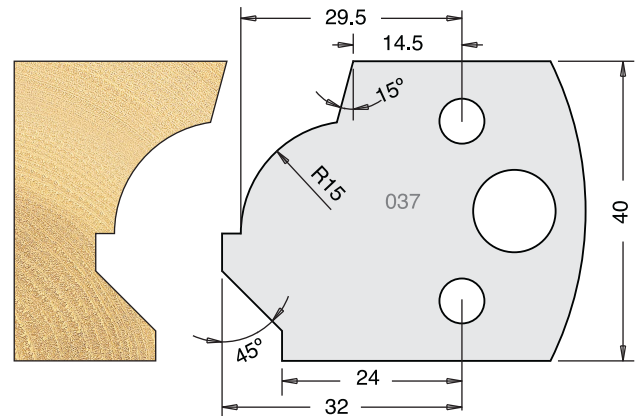


Knives	IT/33 035 40	£9.79
Limitors	IT/34 035 40	£9.24

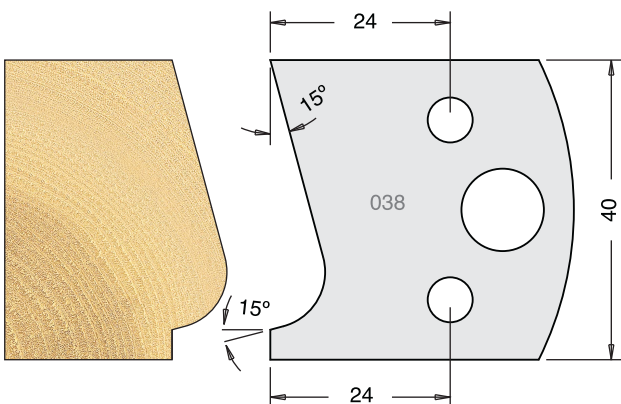
Not for use to create a 45° mitre cut.



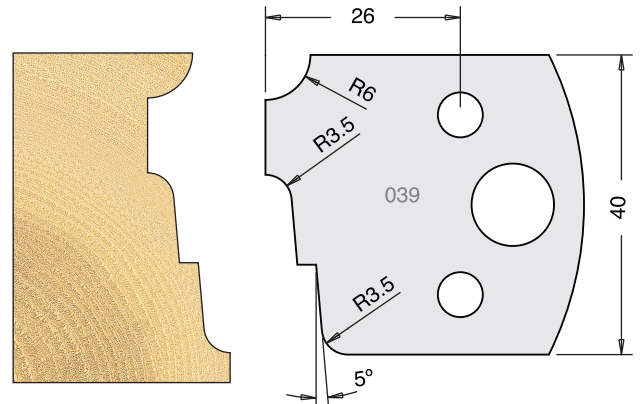
Knives	IT/33 036 40	£9.79
Limitors	IT/34 036 40	£9.24



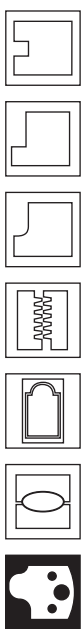
Knives	IT/33 037 40	£9.79
Limitors	IT/34 037 40	£9.24



Knives	IT/33 038 40	£9.79
Limitors	IT/34 038 40	£9.24

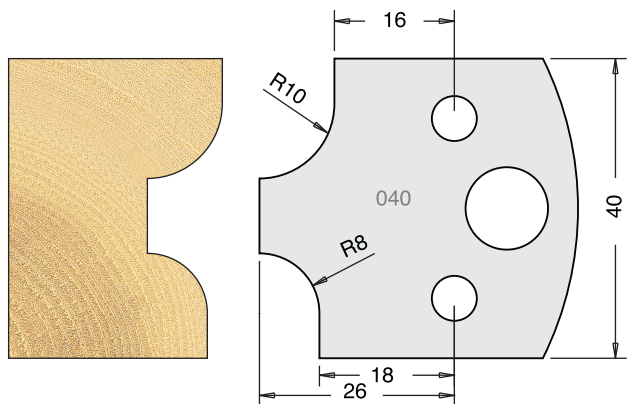


Knives	IT/33 039 40	£9.79
Limitors	IT/34 039 40	£9.24

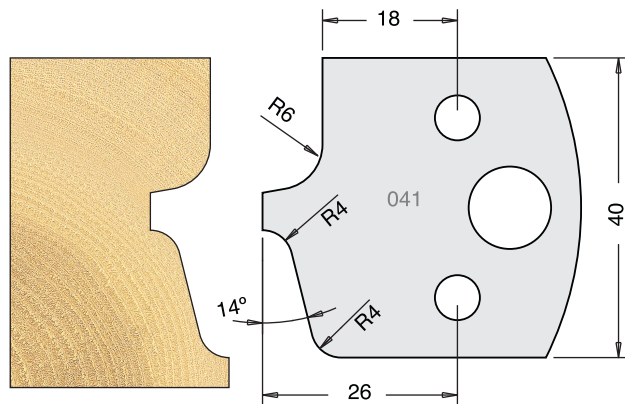


All drawings are actual size
Profile drawing shows back of knife

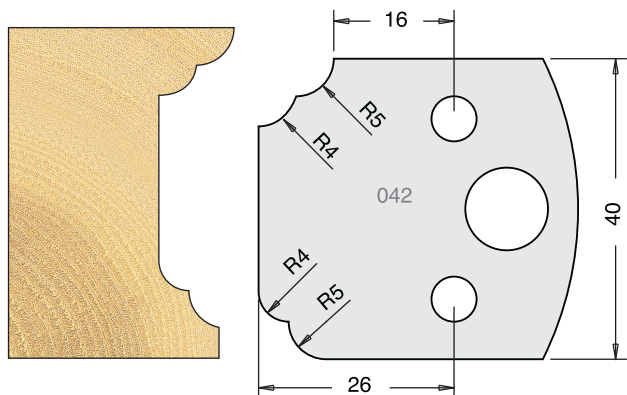
TOOL STEEL MULTI PROFILE CUTTERS - 40X4MM



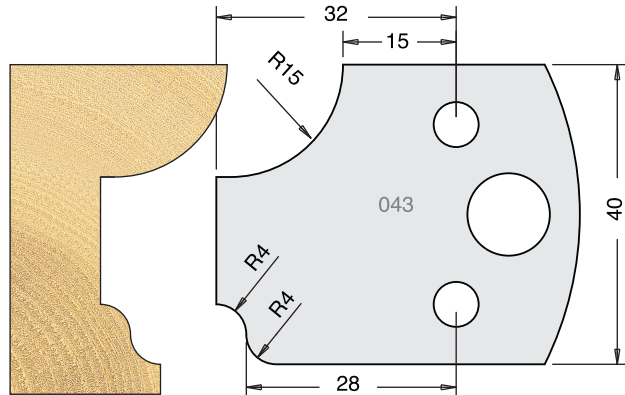
Knives	IT/33 040 40	£9.79
Limitors	IT/34 040 40	£9.24



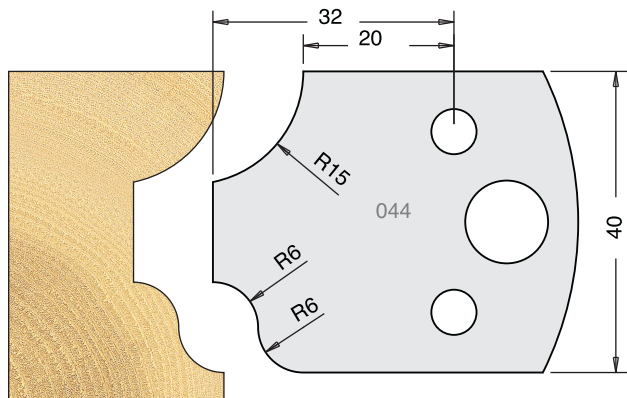
Knives	IT/33 041 40	£9.79
Limitors	IT/34 041 40	£9.24



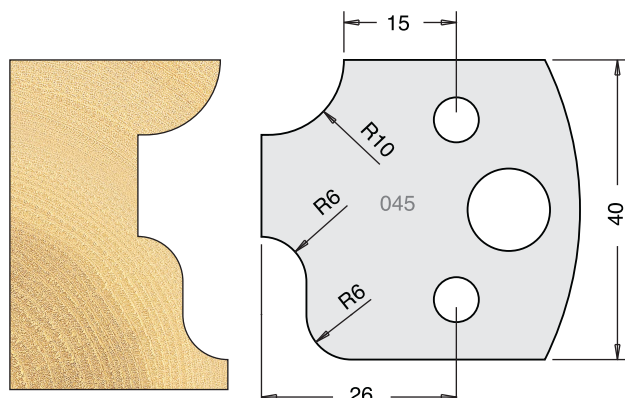
Knives	IT/33 042 40	£9.79
Limitors	IT/34 042 40	£9.24



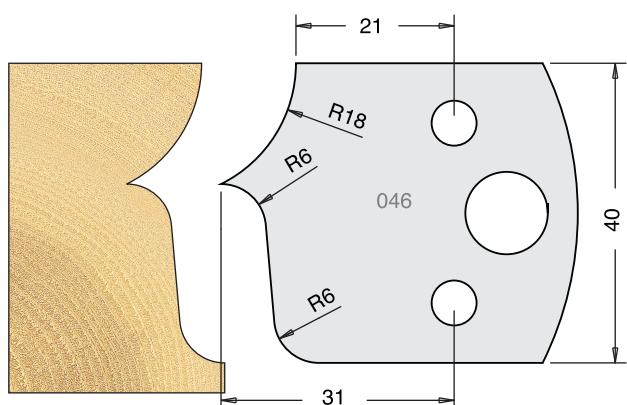
Knives	IT/33 043 40	£9.79
Limitors	IT/34 043 40	£9.24



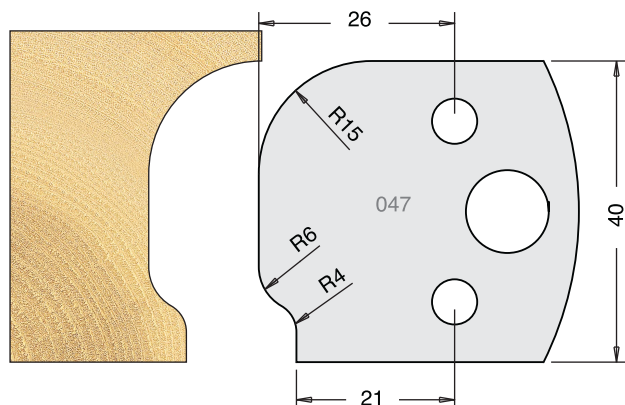
Knives	IT/33 044 40	£9.79
Limitors	IT/34 044 40	£9.24



Knives	IT/33 045 40	£9.79
Limitors	IT/34 045 40	£9.24



Knives	IT/33 046 40	£9.79
Limitors	IT/34 046 40	£9.24

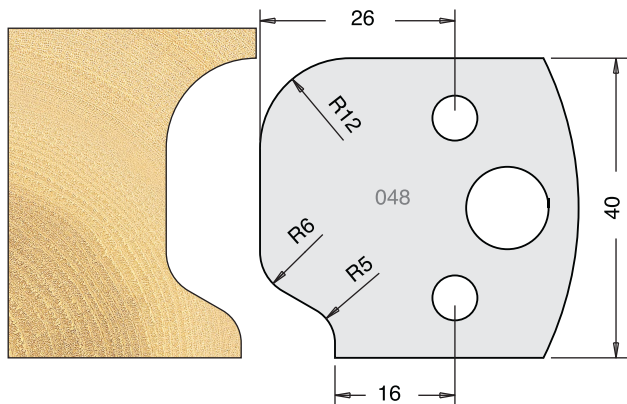


Knives	IT/33 047 40	£9.79
Limitors	IT/34 047 40	£9.24

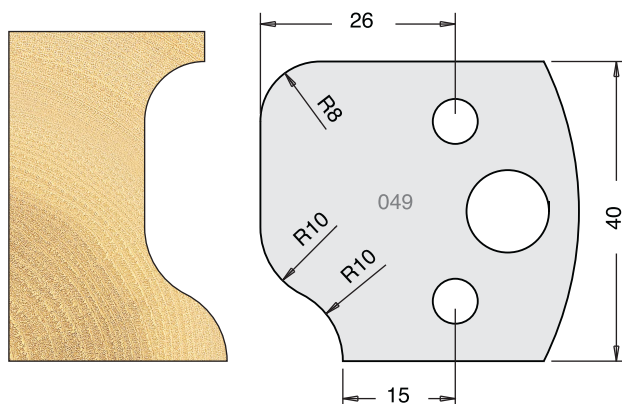
All blades sold as a pair
All prices are exclusive of VAT

All drawings are actual size
Profile drawing shows back of knife

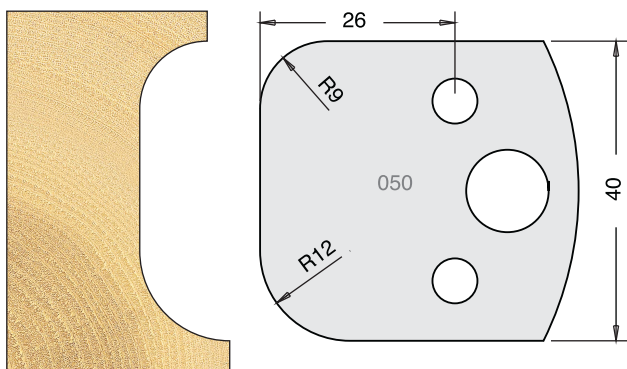
TOOL STEEL MULTI PROFILE CUTTERS - 40X4MM



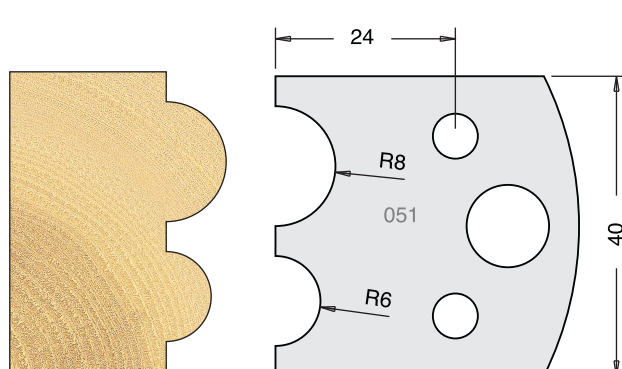
Knives	IT/33 048 40	£9.79
Limitors	IT/34 048 40	£9.24



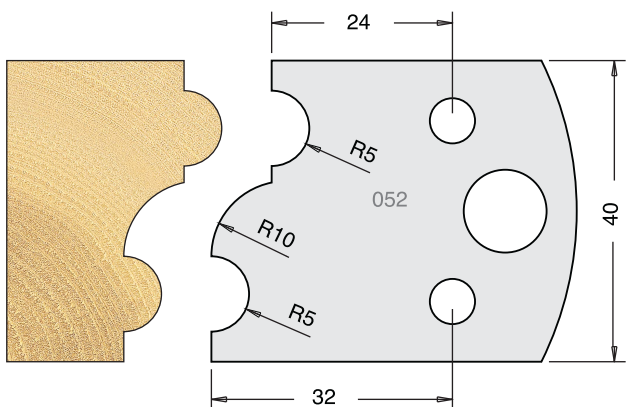
Knives	IT/33 049 40	£9.79
Limitors	IT/34 049 40	£9.24



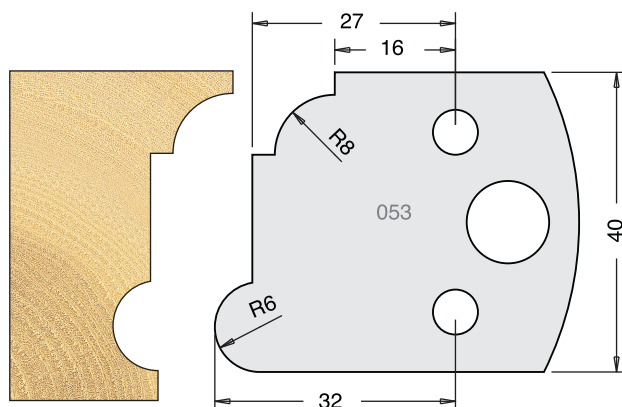
Knives	IT/33 050 40	£9.79
Limitors	IT/34 050 40	£9.24



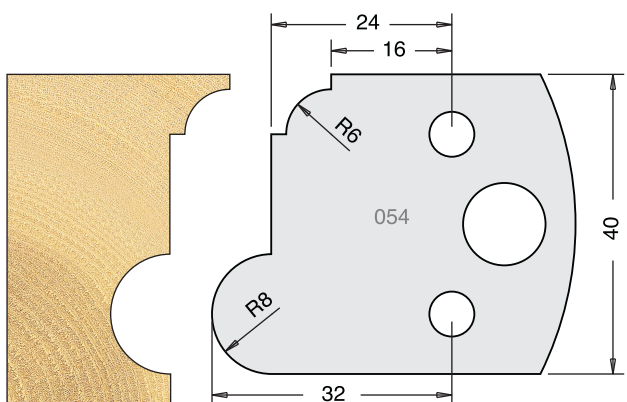
Knives	IT/33 051 40	£9.79
Limitors	IT/34 051 40	£9.24



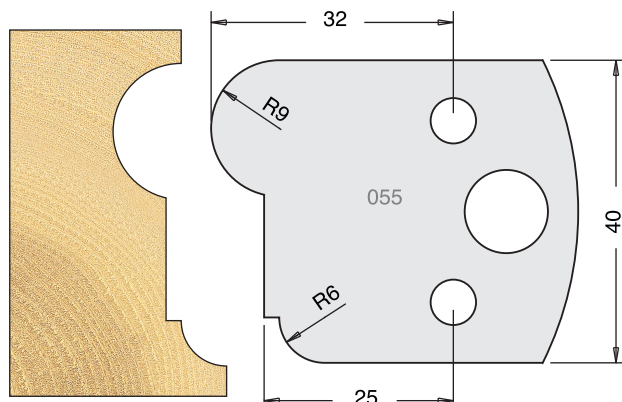
Knives	IT/33 052 40	£9.79
Limitors	IT/34 052 40	£9.24



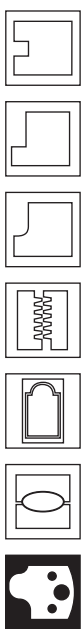
Knives	IT/33 053 40	£9.79
Limitors	IT/34 053 40	£9.24



Knives	IT/33 054 40	£9.79
Limitors	IT/34 054 40	£9.24

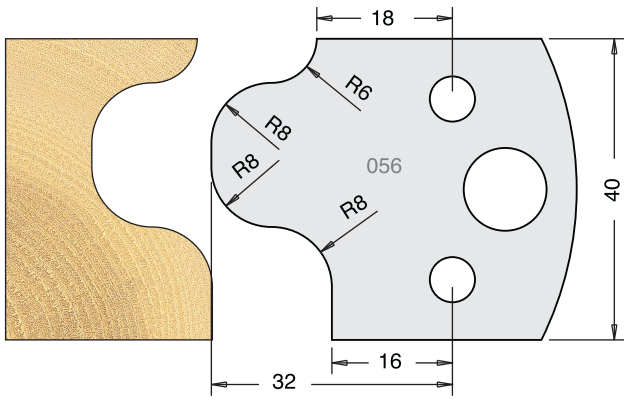


Knives	IT/33 055 40	£9.79
Limitors	IT/34 055 40	£9.24

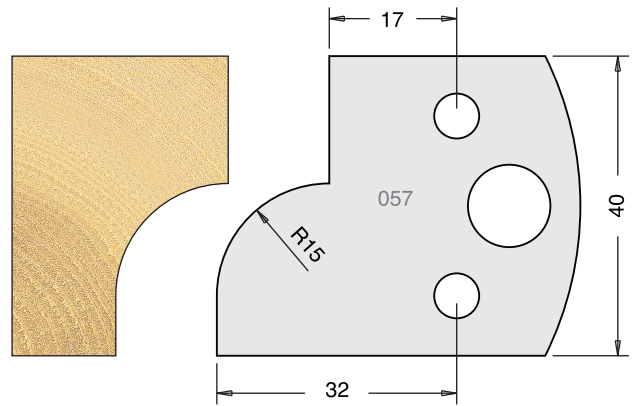


All drawings are actual size
Profile drawing shows back of knife

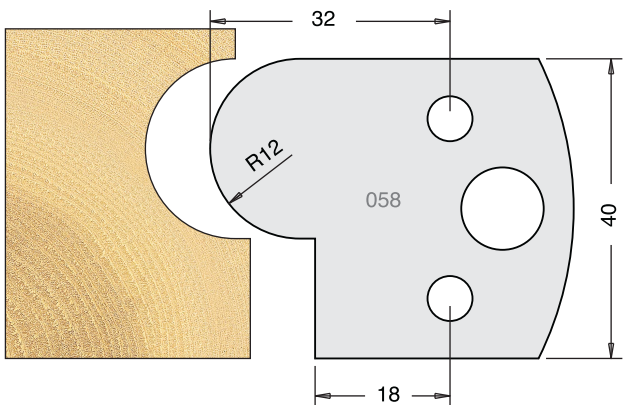
TOOL STEEL MULTI PROFILE CUTTERS - 40X4MM



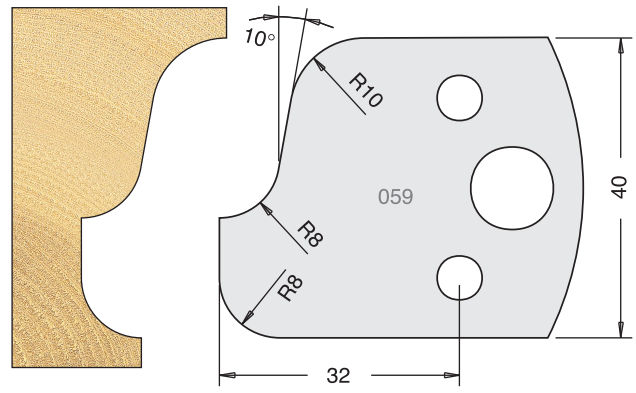
Knives	IT/33 056 40	£9.79
Limitors	IT/34 056 40	£9.24



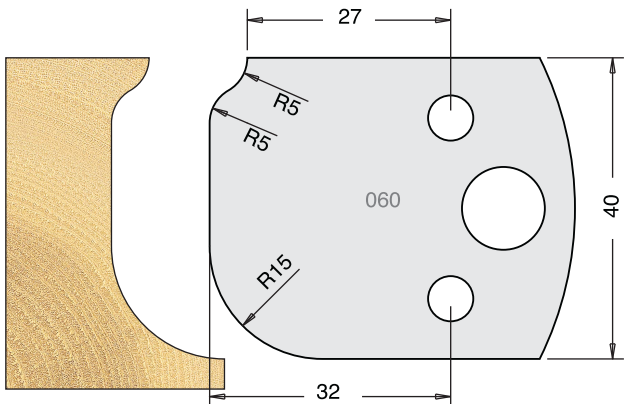
Knives	IT/33 057 40	£9.79
Limitors	IT/34 057 40	£9.24



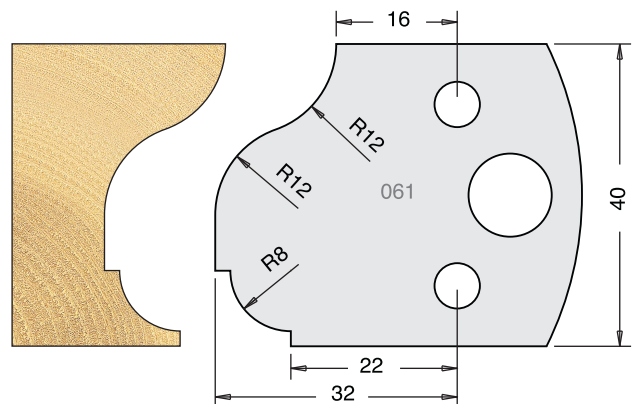
Knives	IT/33 058 40	£9.79
Limitors	IT/34 058 40	£9.24



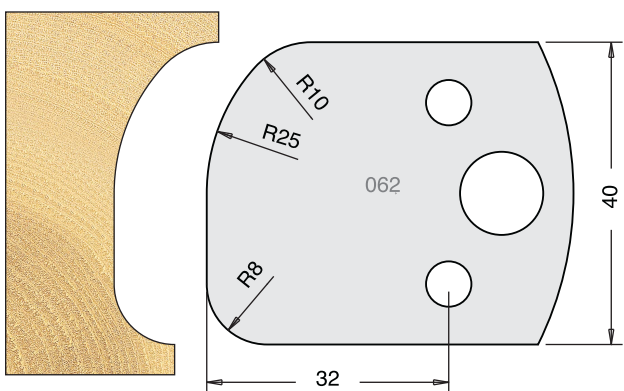
Knives	IT/33 059 40	£9.79
Limitors	IT/34 059 40	£9.24



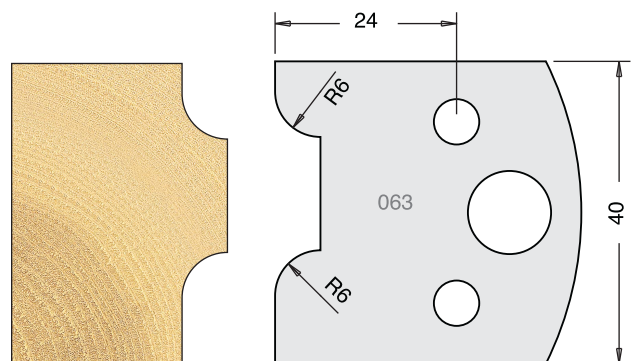
Knives	IT/33 060 40	£9.79
Limitors	IT/34 060 40	£9.24



Knives	IT/33 061 40	£9.79
Limitors	IT/34 061 40	£9.24



Knives	IT/33 062 40	£9.79
Limitors	IT/34 062 40	£9.24

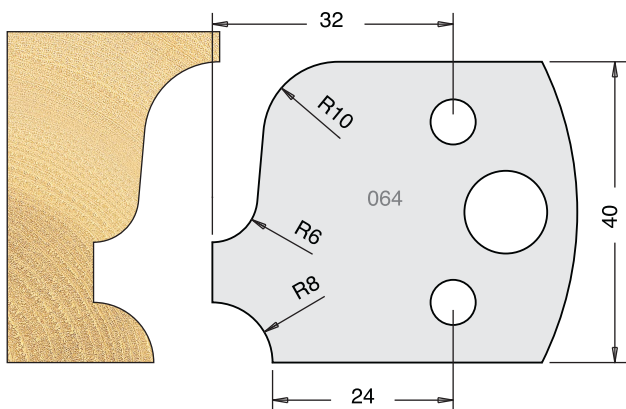


Knives	IT/33 063 40	£9.79
Limitors	IT/34 063 40	£9.24

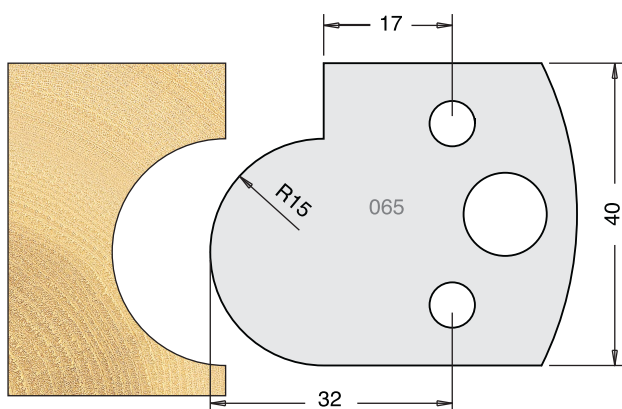
All blades sold as a pair
All prices are exclusive of VAT

All drawings are actual size
Profile drawing shows back of knife

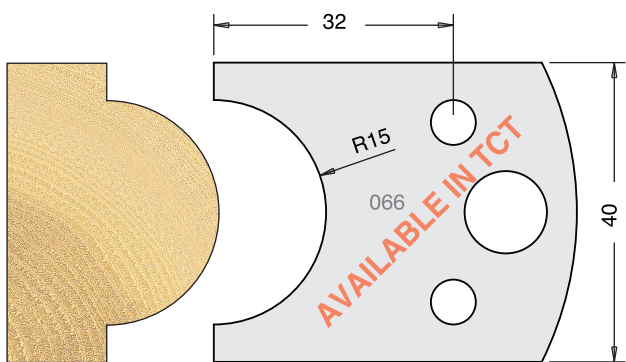
TOOL STEEL MULTI PROFILE CUTTERS - 40X4MM



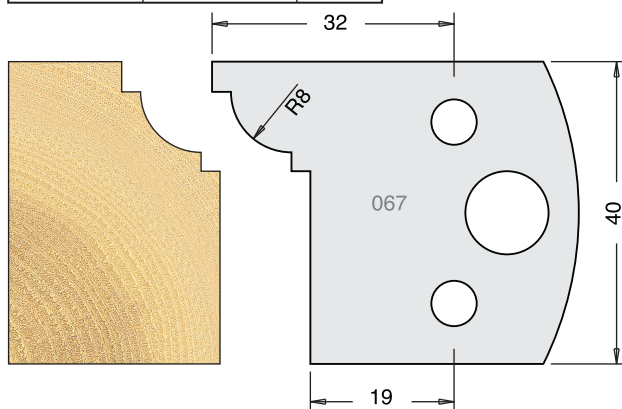
Knives	IT/33 064 40	£9.79
Limitors	IT/34 064 40	£9.24



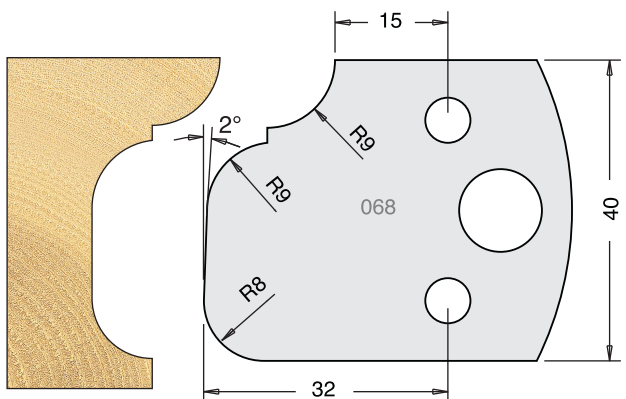
Knives	IT/33 065 40	£9.79
Limitors	IT/34 065 40	£9.24



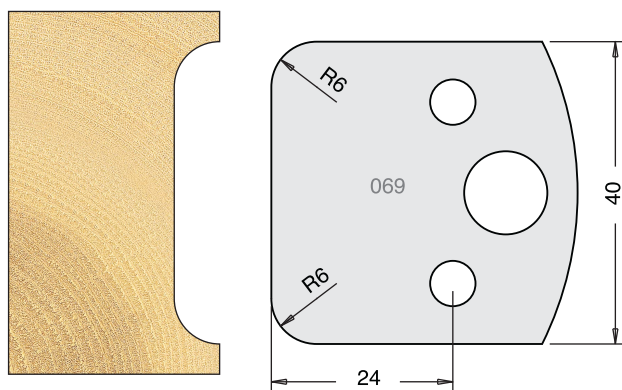
Knives	IT/33 066 40	£9.79	TCT	IT/33 066 42	£35.23
Limitors	IT/34 066 40	£9.24			



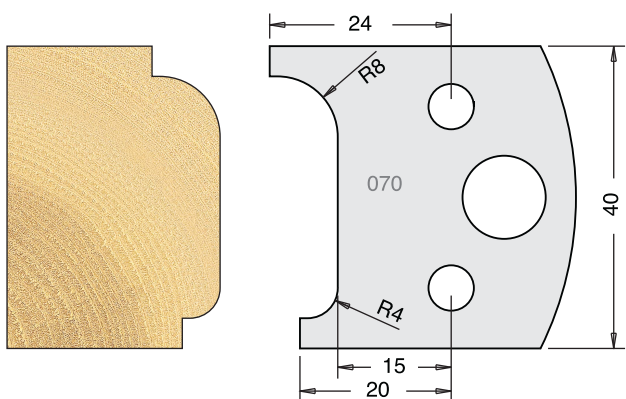
Knives	IT/33 067 40	£9.79
Limitors	IT/34 067 40	£9.24



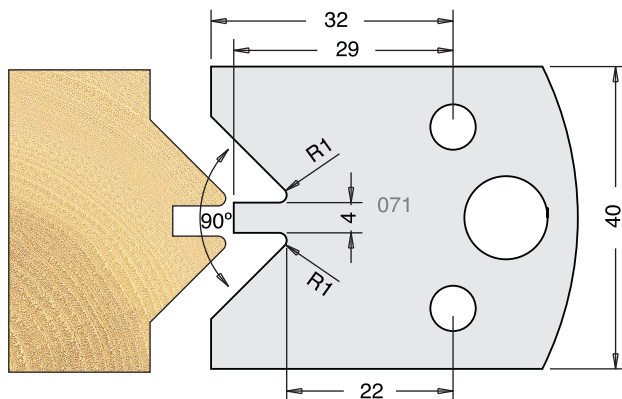
Knives	IT/33 068 40	£9.79
Limitors	IT/34 068 40	£9.24



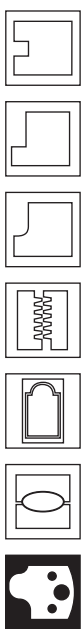
Knives	IT/33 069 40	£9.79
Limitors	IT/34 069 40	£9.24



Knives	IT/33 070 40	£9.79
Limitors	IT/34 070 40	£9.24

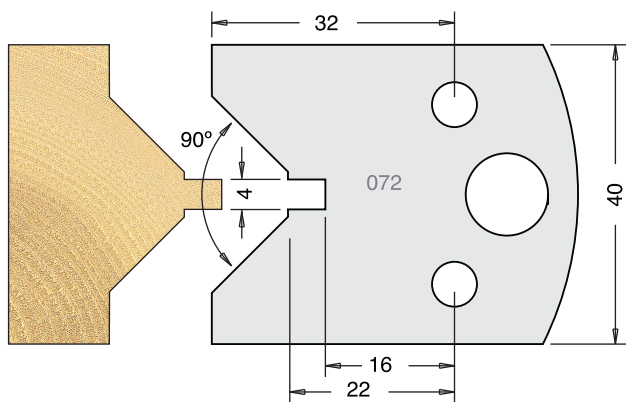


Knives	IT/33 071 40	£9.79
Limitors	IT/34 071 40	£9.24

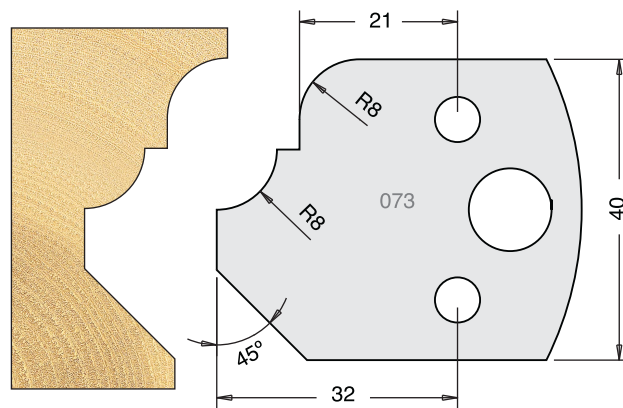


All drawings are actual size
Profile drawing shows back of knife

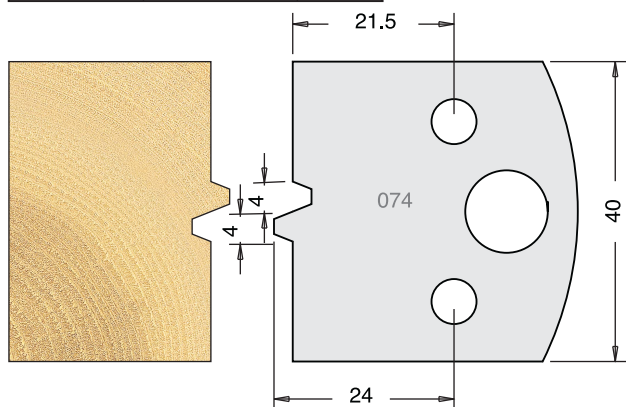
TOOL STEEL MULTI PROFILE CUTTERS - 40X4MM



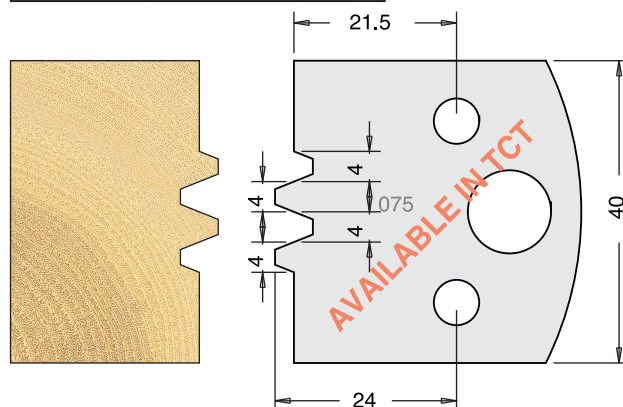
Knives	IT/33 072 40	£9.79
Limitors	IT/34 072 40	£9.24



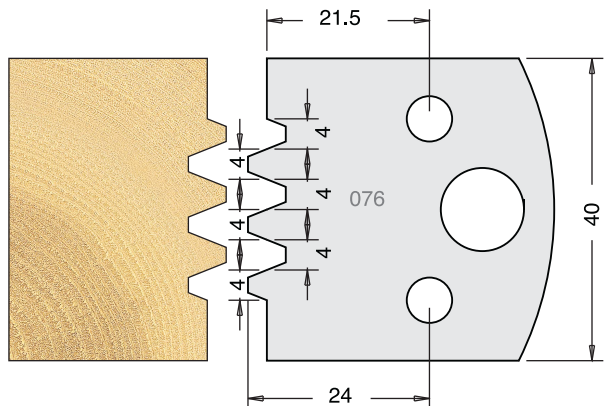
Knives	IT/33 073 40	£9.79
Limitors	IT/34 073 40	£9.24



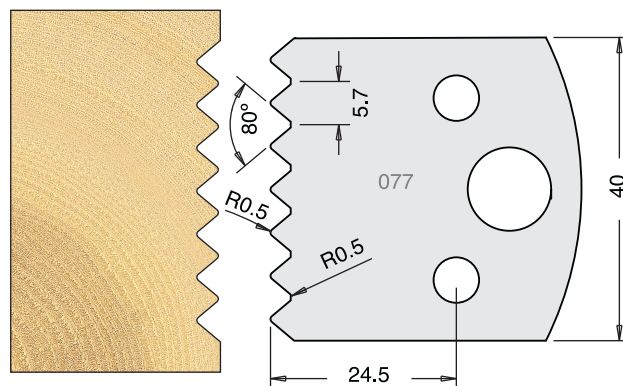
Knives	IT/33 074 40	£9.79
Limitors	IT/34 074 40	£9.24



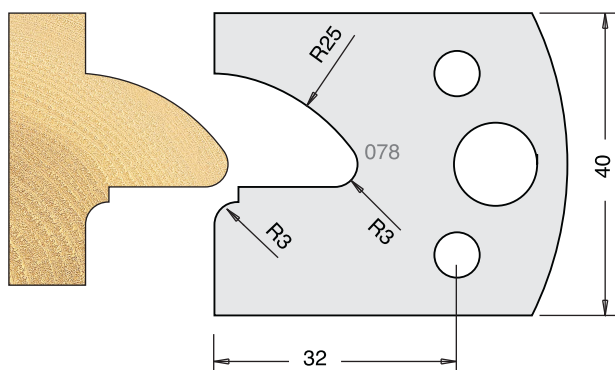
Knives	IT/33 075 40	£9.79	TCT	IT/33 075 42	£41.65
Limitors	IT/34 075 40	£9.24			



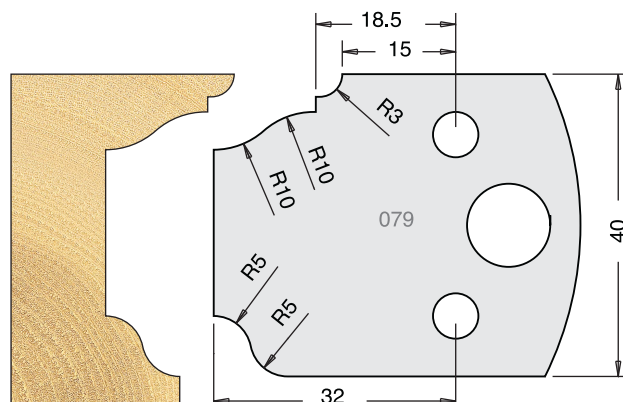
Knives	IT/33 076 40	£9.79
Limitors	IT/34 076 40	£9.24



Knives	IT/33 077 40	£9.79
Limitors	IT/34 077 40	£9.24



Knives	IT/33 078 40	£9.79
Limitors	IT/34 078 40	£9.24

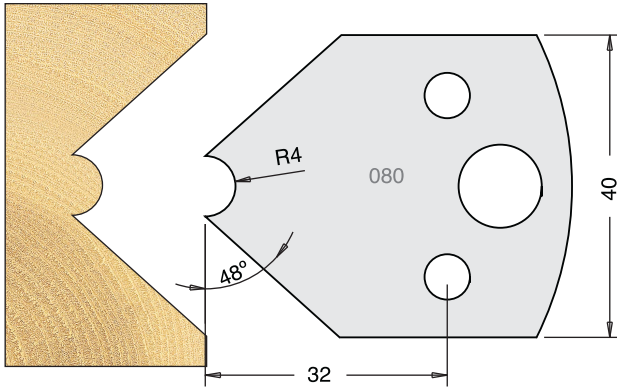


Knives	IT/33 079 40	£9.79
Limitors	IT/34 079 40	£9.24

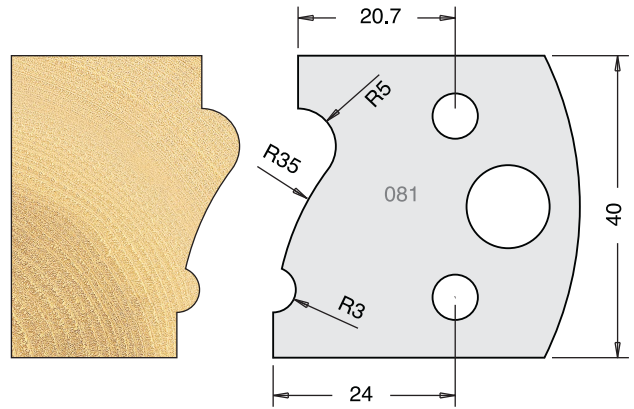
All blades sold as a pair
All prices are exclusive of VAT

All drawings are actual size
Profile drawing shows back of knife

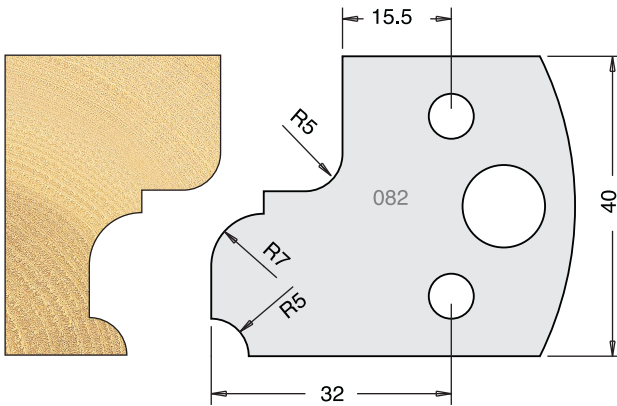
TOOL STEEL MULTI PROFILE CUTTERS - 40X4MM



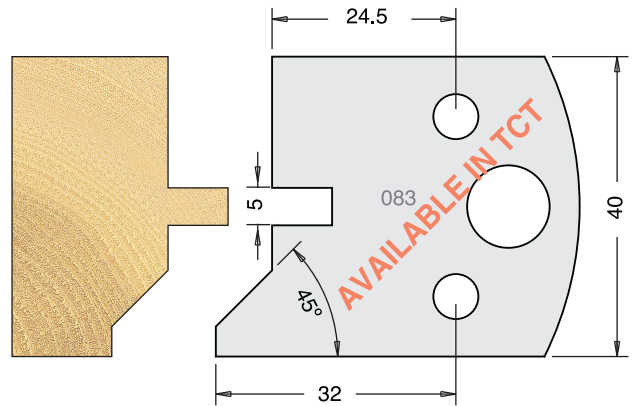
Knives	IT/33 080 40	£9.79
Limitors	IT/34 080 40	£9.24



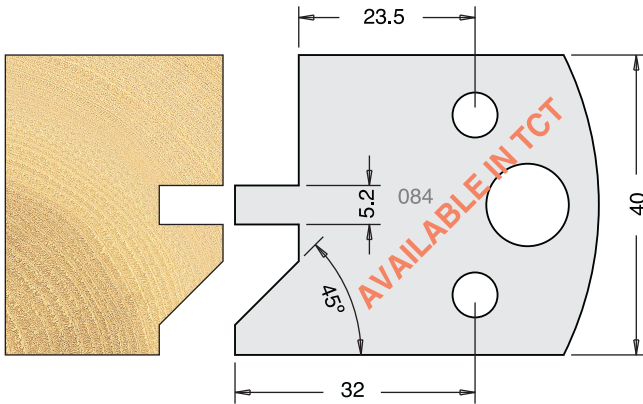
Knives	IT/33 081 40	£9.79
Limitors	IT/34 081 40	£9.24



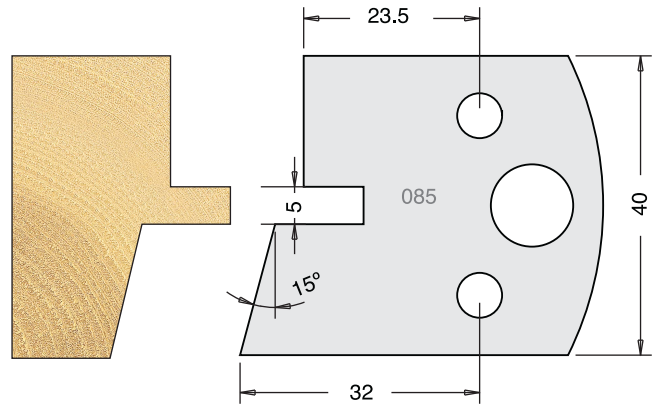
Knives	IT/33 082 40	£9.79
Limitors	IT/34 082 40	£9.24



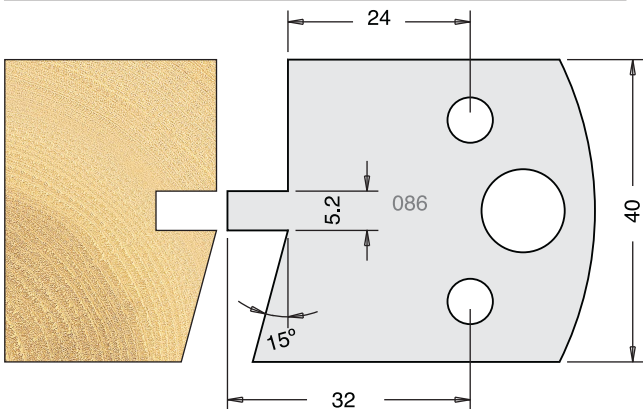
Knives	IT/33 083 40	£9.79	TCT	IT/33 083 42	£41.65
Limitors	IT/34 083 40	£9.24			



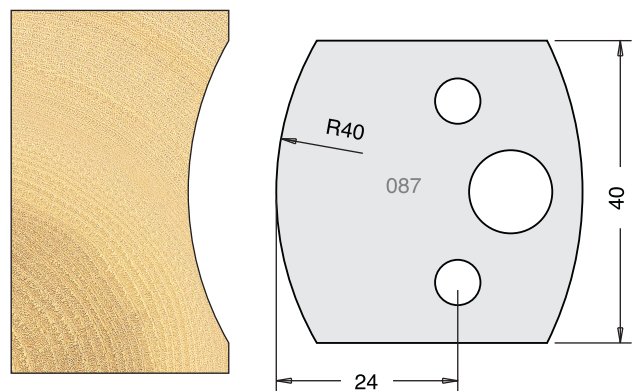
Knives	IT/33 084 40	£9.79	TCT	IT/33 084 42	£41.65
Limitors	IT/34 084 40	£9.24			



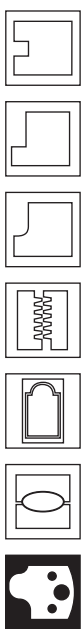
Knives	IT/33 085 40	£9.79
Limitors	IT/34 085 40	£9.24



Knives	IT/33 086 40	£9.79
Limitors	IT/34 086 40	£9.24

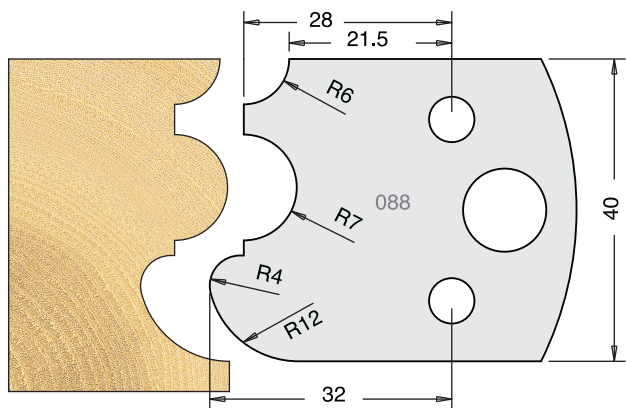


Knives	IT/33 087 40	£9.79
Limitors	IT/34 087 40	£9.24

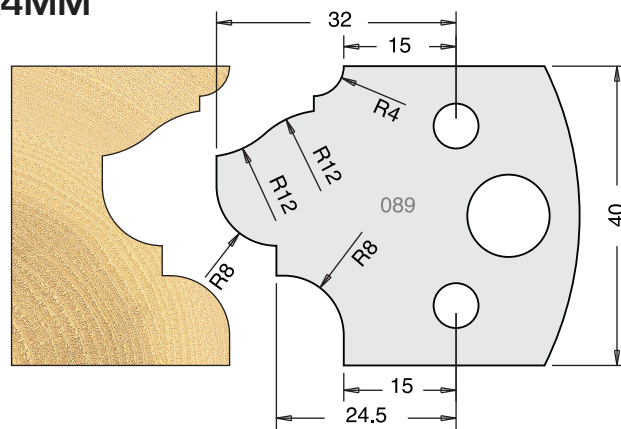


All drawings are actual size
Profile drawing shows back of knife

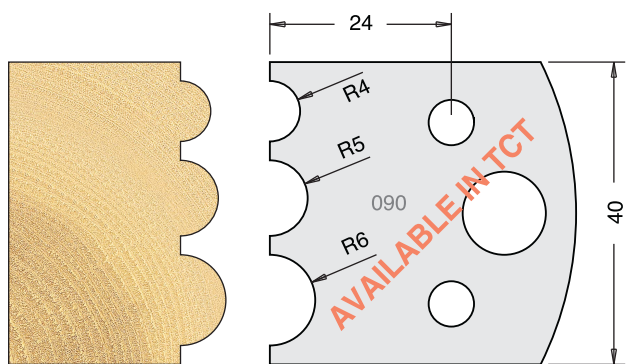
TOOL STEEL MULTI PROFILE CUTTERS - 40X4MM



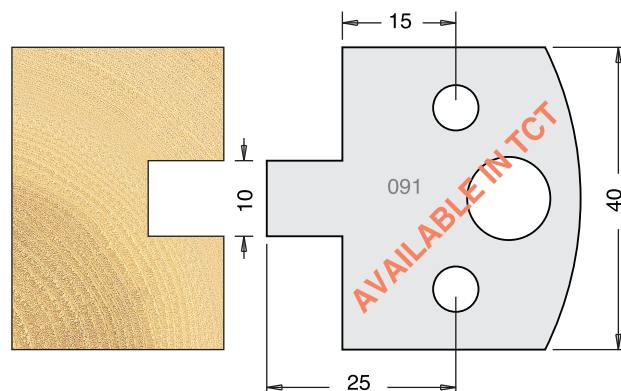
Knives	IT/33 088 40	£9.79
Limitors	IT/34 088 40	£9.24



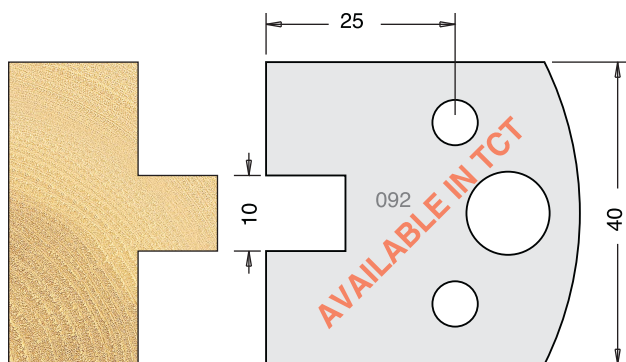
Knives	IT/33 089 40	£9.79
Limitors	IT/34 089 40	£9.24



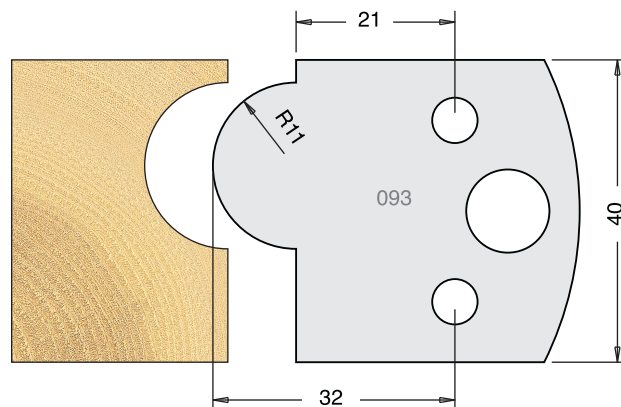
Knives	IT/33 090 40	£9.79	TCT	IT/33 090 42	£41.65
Limitors	IT/34 090 40	£9.24			



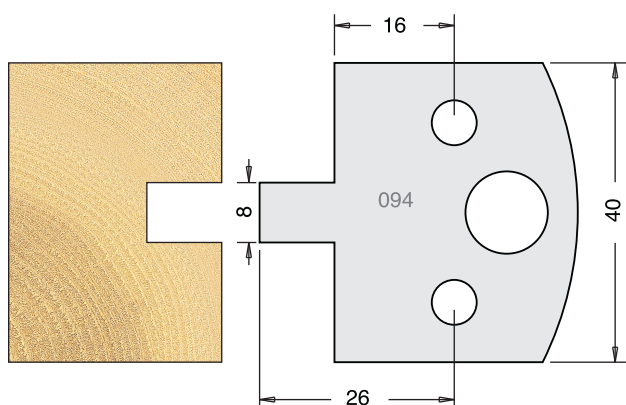
Knives	IT/33 091 40	£9.79	TCT	IT/33 091 42	£41.65
Limitors	IT/34 091 40	£9.24			



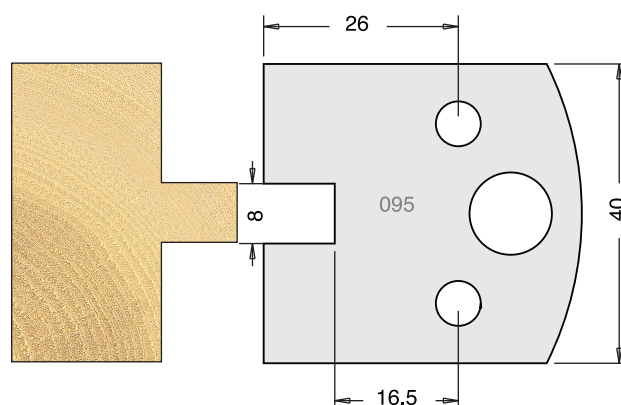
Knives	IT/33 092 40	£9.79	TCT	IT/33 092 42	£41.65
Limitors	IT/34 092 40	£9.24			



Knives	IT/33 093 40	£9.79
Limitors	IT/34 093 40	£9.24



Knives	IT/33 094 40	£9.79
Limitors	IT/34 094 40	£9.24



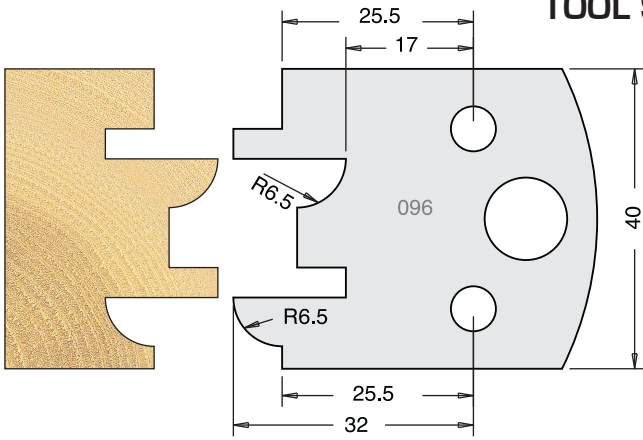
Knives	IT/33 095 40	£9.79
Limitors	IT/34 095 40	£9.24

All blades sold as a pair
All prices are exclusive of VAT

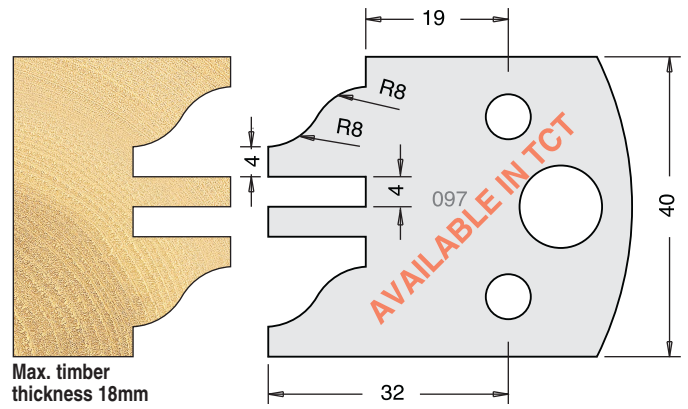
All drawings are actual size

Profile drawing shows back of knife

TOOL STEEL MULTI PROFILE CUTTERS - 40X4MM

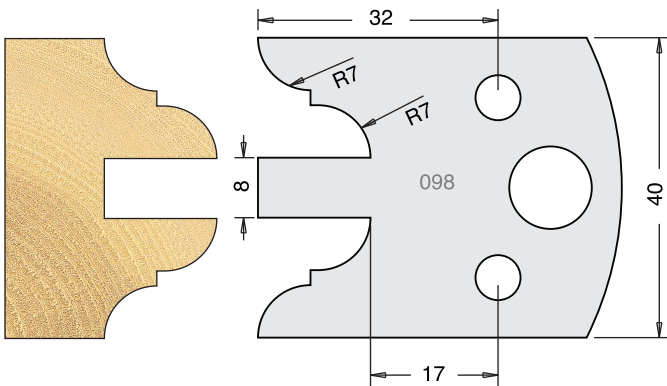


Knives	IT/33 096 40	£9.79			
Limitors	IT/34 096 40	£9.24			

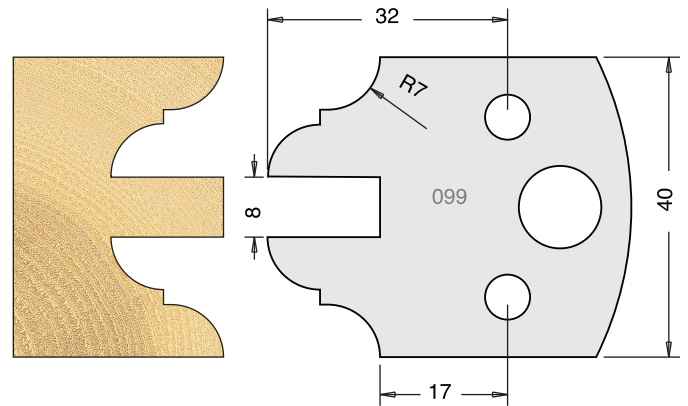


Max. timber thickness 18mm

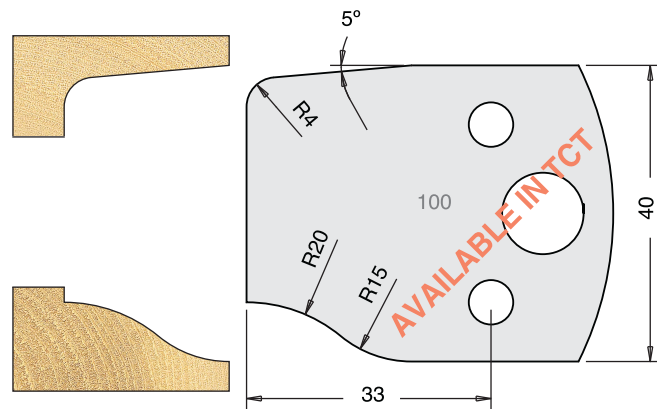
Knives	IT/33 097 40	£9.79	TCT	IT/33 097 42	£41.65
Limitors	IT/34 097 40	£9.24			



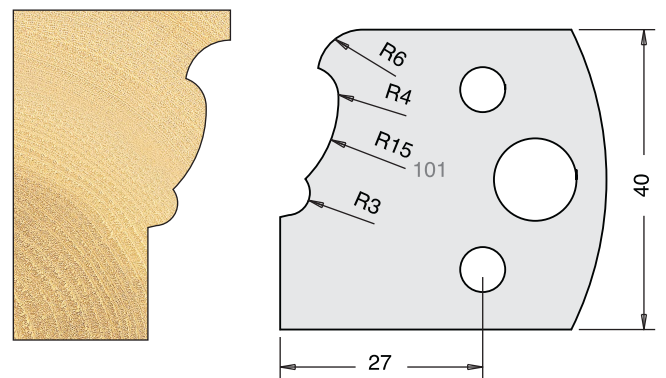
Knives	IT/33 098 40	£9.79			
Limitors	IT/34 098 40	£9.24			



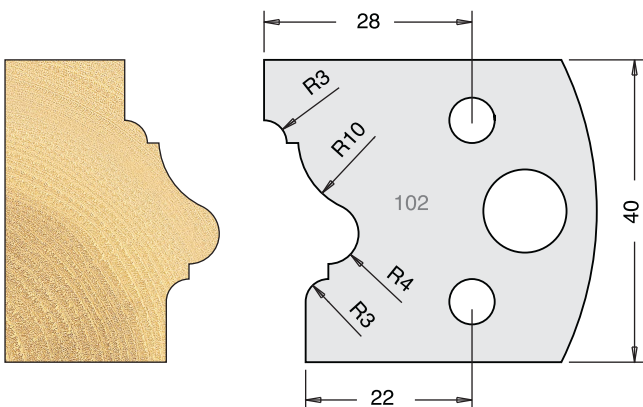
Knives	IT/33 099 40	£9.79			
Limitors	IT/34 099 40	£9.24			



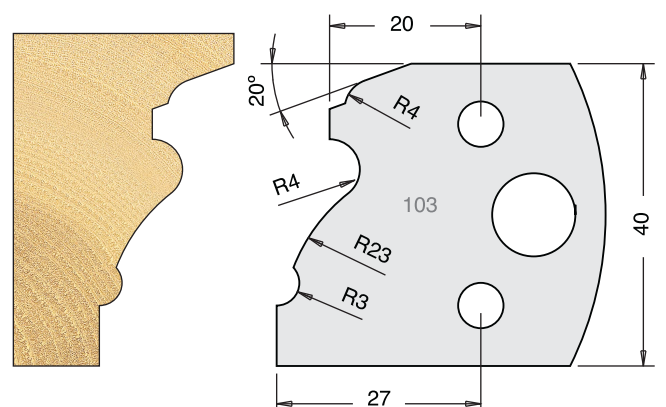
Knives	IT/33 100 40	£9.79	TCT	IT/33 100 42	£35.23
Limitors	IT/34 100 40	£9.24			



Knives	IT/33 101 40	£9.79			
Limitors	IT/34 101 40	£9.24			



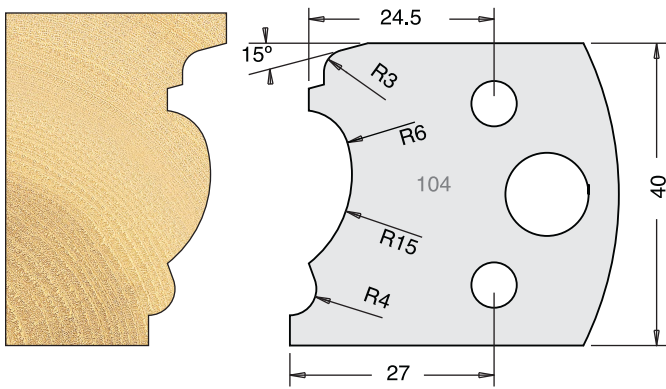
Knives	IT/33 102 40	£9.79			
Limitors	IT/34 102 40	£9.24			



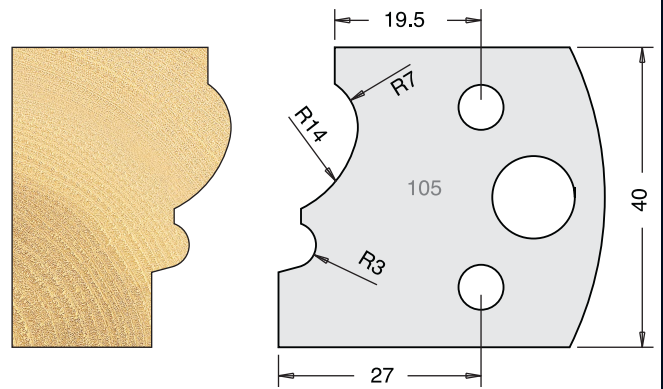
Knives	IT/33 103 40	£9.79			
Limitors	IT/34 103 40	£9.24			

All drawings are actual size
Profile drawing shows back of knife

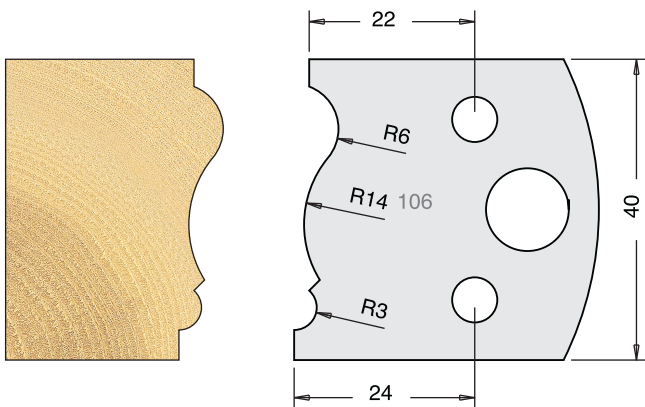
TOOL STEEL MULTI PROFILE CUTTERS - 40X4MM



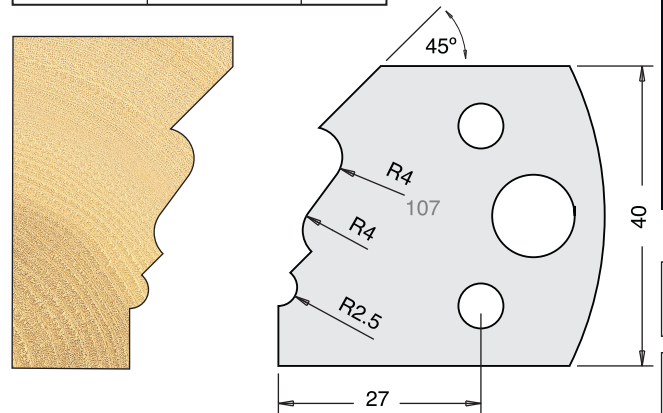
Knives	IT/33 104 40	£9.79
Limitors	IT/34 104 40	£9.24



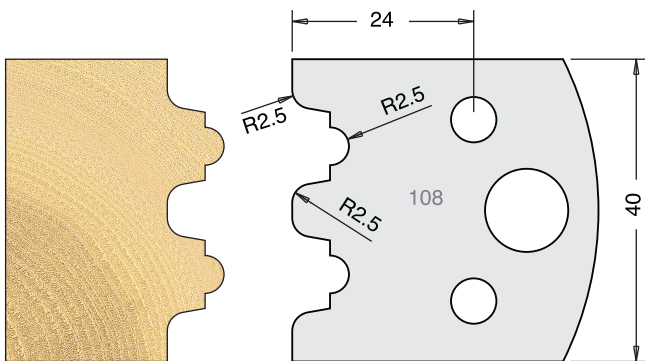
Knives	IT/33 105 40	£9.79
Limitors	IT/34 105 40	£9.24



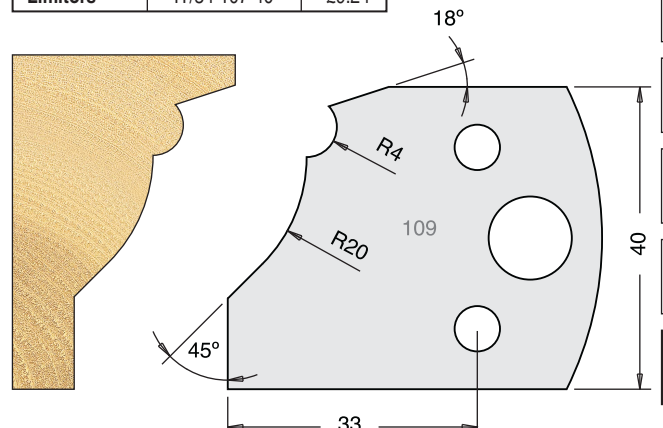
Knives	IT/33 106 40	£9.79
Limitors	IT/34 106 40	£9.24



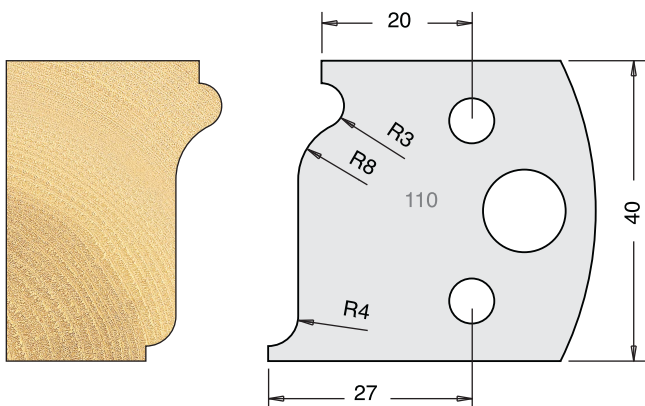
Knives	IT/33 107 40	£9.79
Limitors	IT/34 107 40	£9.24



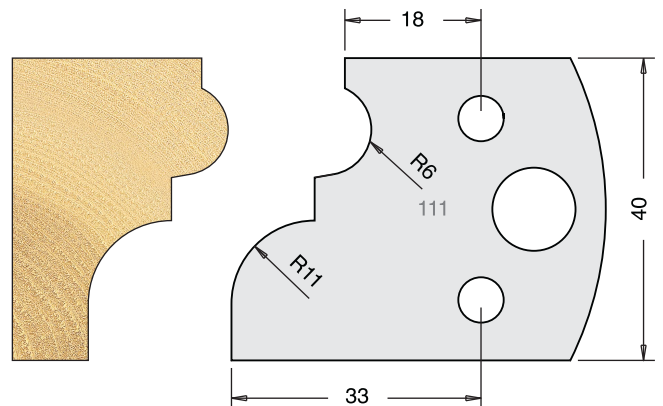
Knives	IT/33 108 40	£9.79
Limitors	IT/34 108 40	£9.24



Knives	IT/33 109 40	£9.79
Limitors	IT/34 109 40	£9.24



Knives	IT/33 110 40	£9.79
Limitors	IT/34 110 40	£9.24

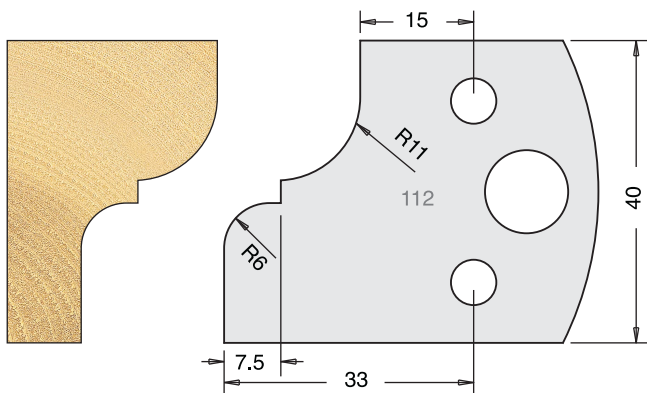


Knives	IT/33 111 40	£9.79
Limitors	IT/34 111 40	£9.24

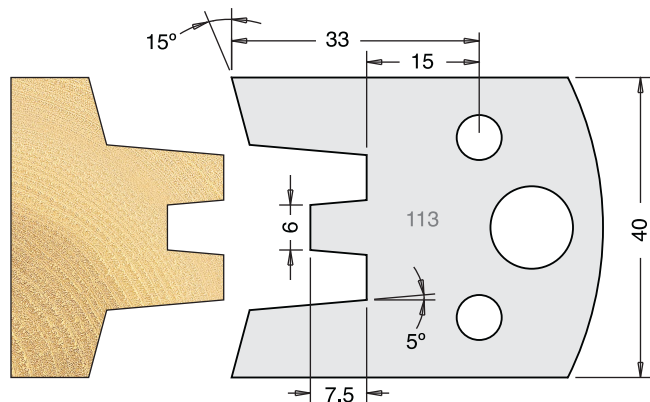
All blades sold as a pair
All prices are exclusive of VAT

All drawings are actual size
Profile drawing shows back of knife

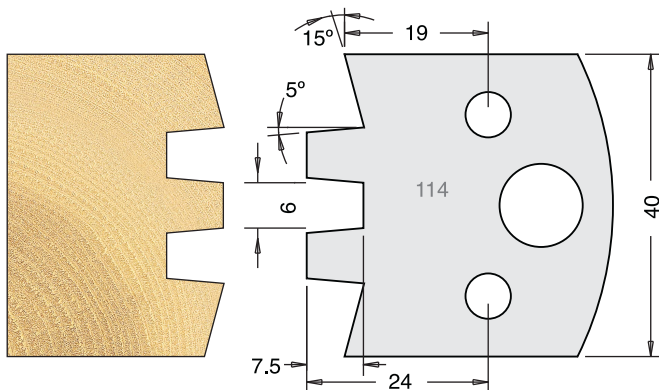
TOOL STEEL MULTI PROFILE CUTTERS - 40X4MM



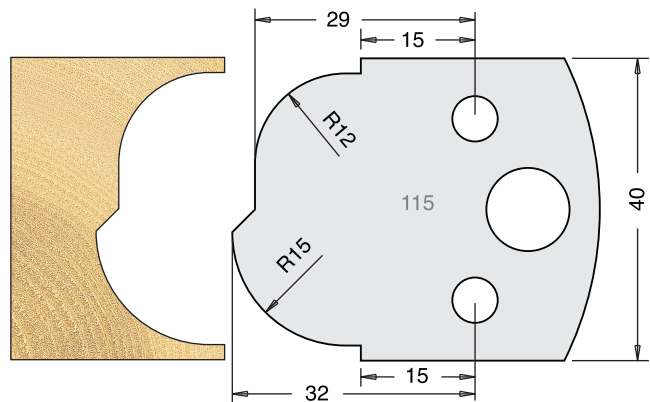
Knives	IT/33 112 40	£9.79
Limitors	IT/34 112 40	£9.24



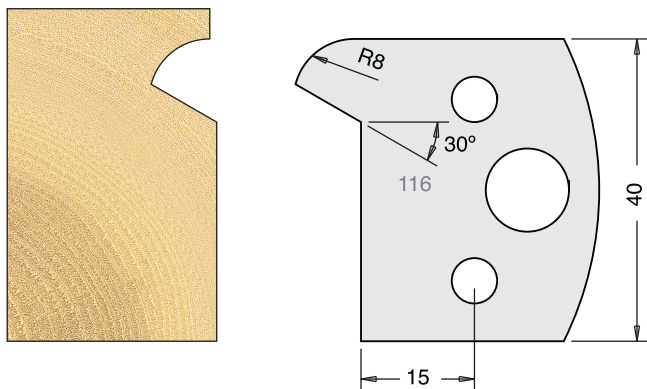
Knives	IT/33 113 40	£9.79
Limitors	IT/34 113 40	£9.24



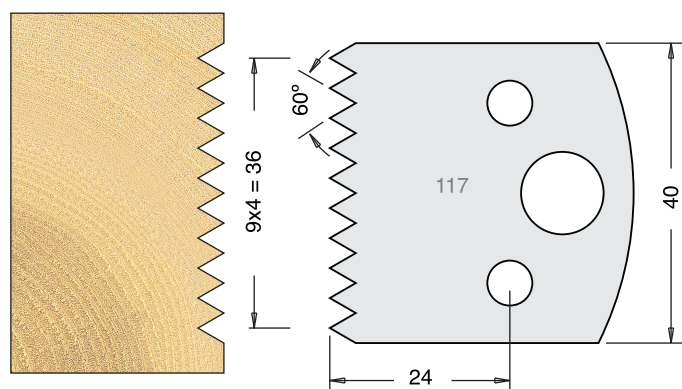
Knives	IT/33 114 40	£9.79
Limitors	IT/34 114 40	£9.24



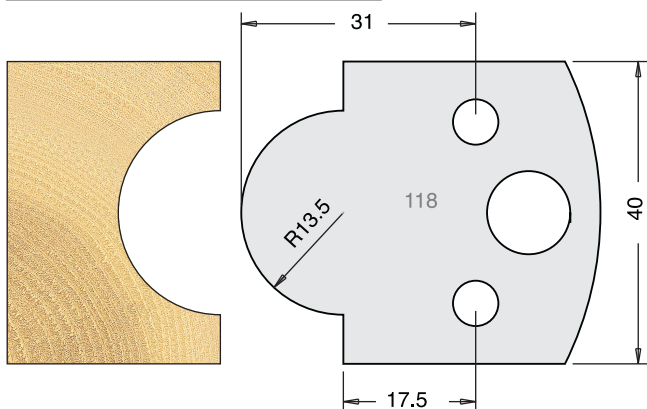
Knives	IT/33 115 40	£9.79
Limitors	IT/34 115 40	£9.24



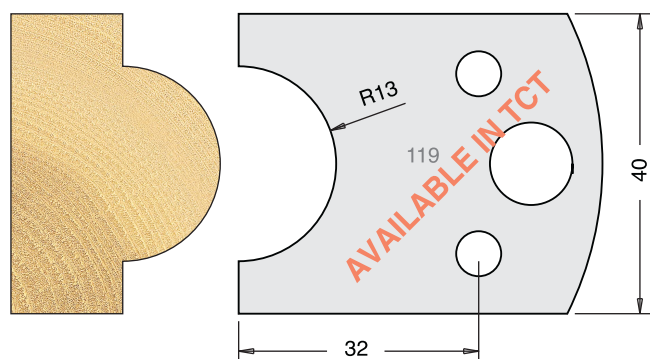
Knives	IT/33 116 40	£9.79
Limitors	IT/34 116 40	£9.24



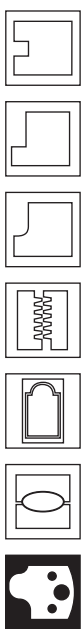
Knives	IT/33 117 40	£9.79
Limitors	IT/34 117 40	£9.24



Knives	IT/33 118 40	£9.79
Limitors	IT/34 118 40	£9.24

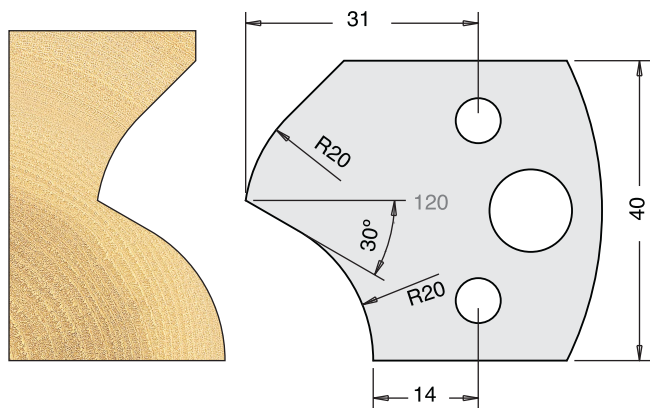


Knives	IT/33 119 40	£9.79	TCT	IT/33 119 42	£35.23
Limitors	IT/34 119 40	£9.24			

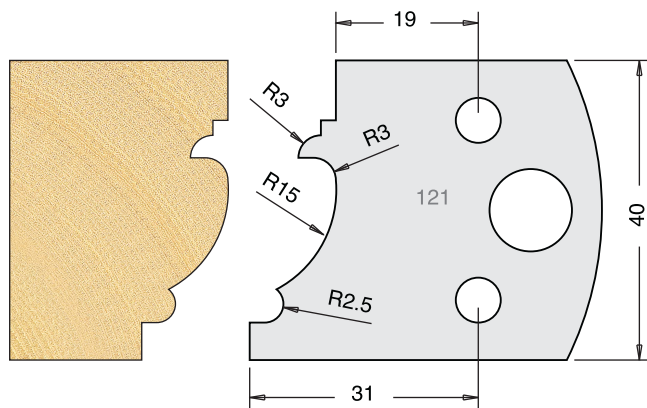


All drawings are actual size
Profile drawing shows back of knife

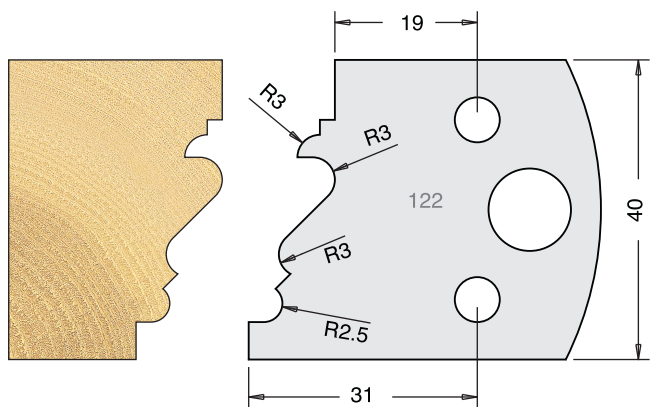
TOOL STEEL MULTI PROFILE CUTTERS - 40X4MM



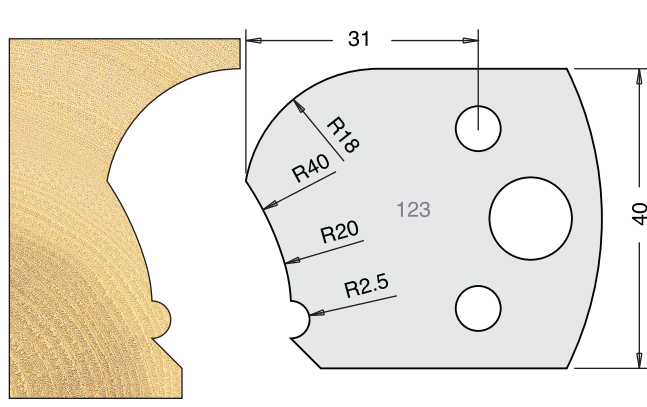
Knives	IT/33 120 40	£9.79
Limitors	IT/34 120 40	£9.24



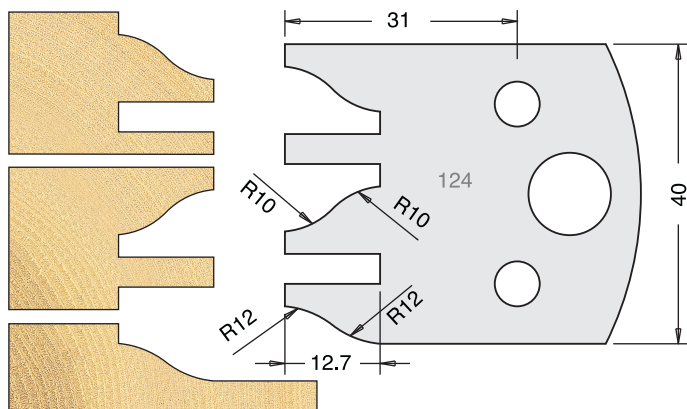
Knives	IT/33 121 40	£9.79
Limitors	IT/34 121 40	£9.24



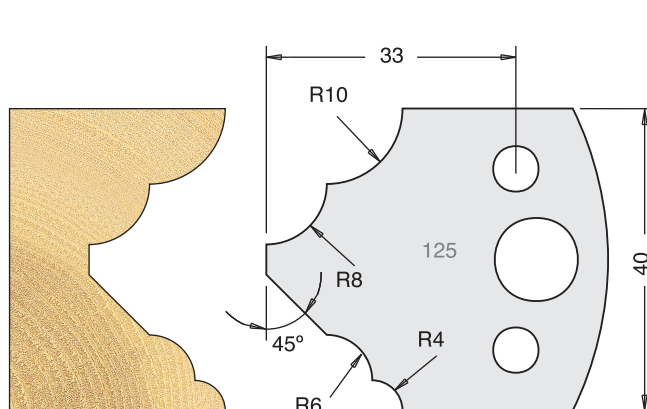
Knives	IT/33 122 40	£9.79
Limitors	IT/34 122 40	£9.24



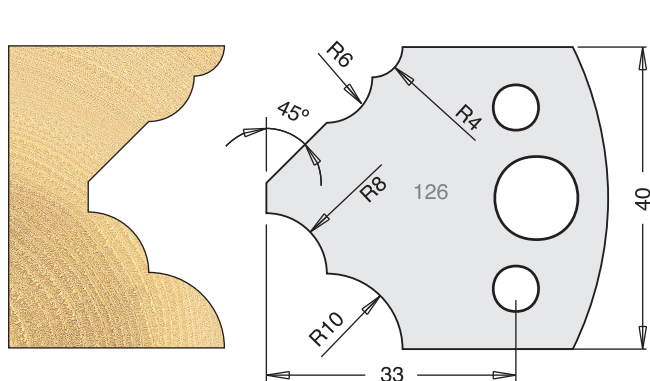
Knives	IT/33 123 40	£9.79
Limitors	IT/34 123 40	£9.24



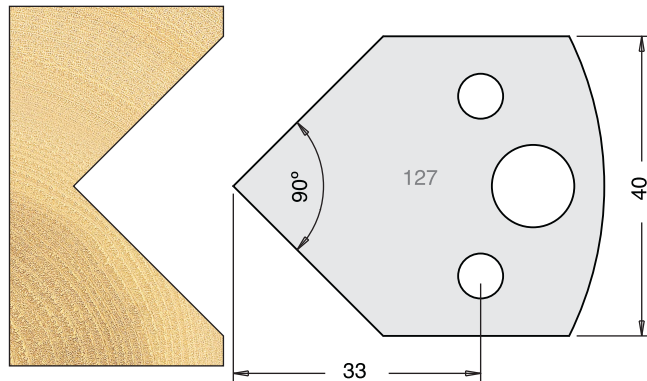
Knives	IT/33 124 40	£9.79	For moulding on one side only Max. timber thickness 18mm
Limitors	IT/34 124 40	£9.24	



Knives	IT/33 125 40	£9.79
Limitors	IT/34 125 40	£9.24



Knives	IT/33 126 40	£9.79
Limitors	IT/34 126 40	£9.24

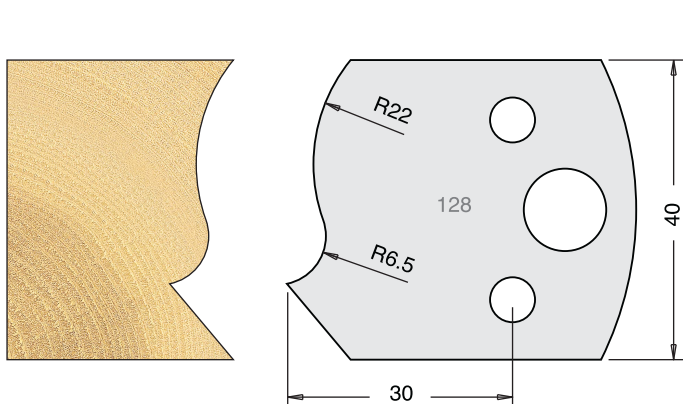


Knives	IT/33 127 40	£9.79
Limitors	IT/34 127 40	£9.24

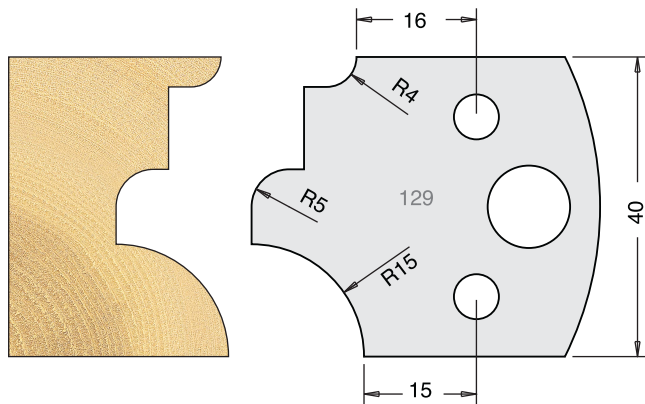
All blades sold as a pair
All prices are exclusive of VAT

All drawings are actual size
Profile drawing shows back of knife

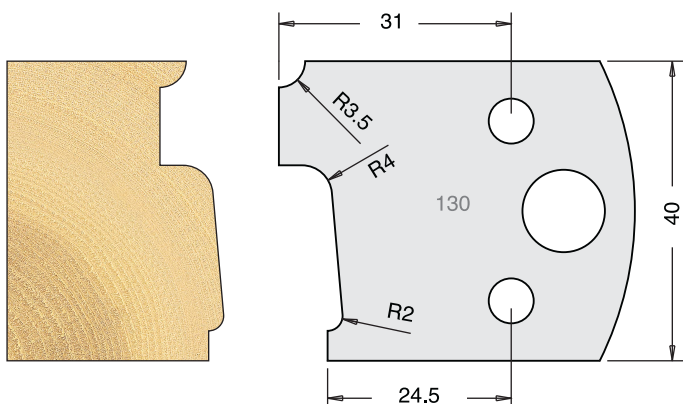
TOOL STEEL MULTI PROFILE CUTTERS - 40X4MM



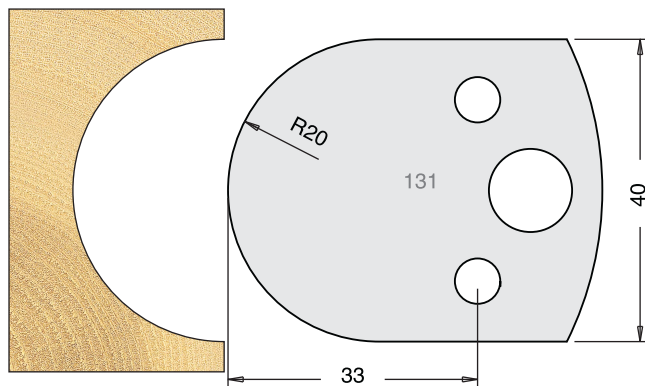
Knives	IT/33 128 40	£9.79
Limitors	IT/34 128 40	£9.24



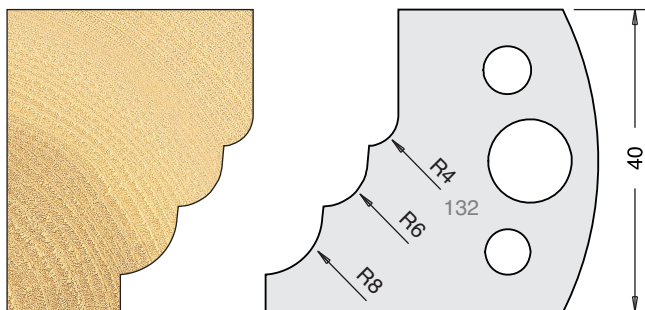
Knives	IT/33 129 40	£9.79
Limitors	IT/34 129 40	£9.24



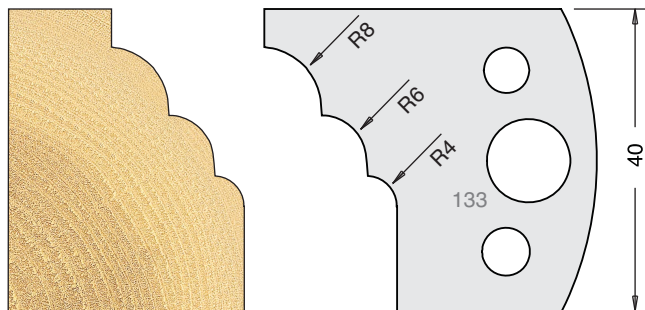
Knives	IT/33 130 40	£9.79
Limitors	IT/34 130 40	£9.24



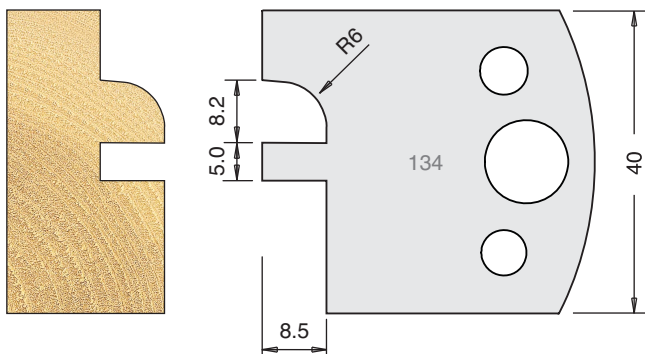
Knives	IT/33 131 40	£9.79
Limitors	IT/34 131 40	£9.24



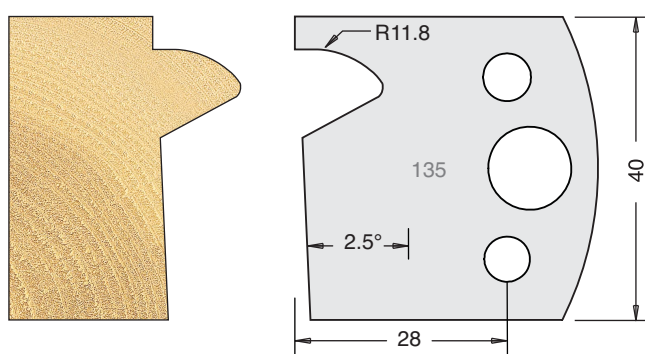
Knives	IT/33 132 40	£9.79
Limitors	IT/34 132 40	£9.24



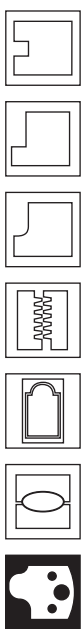
Knives	IT/33 133 40	£9.79
Limitors	IT/34 133 40	£9.24



Knives	IT/33 134 40	£9.79
Limitors	IT/34 134 40	£9.24



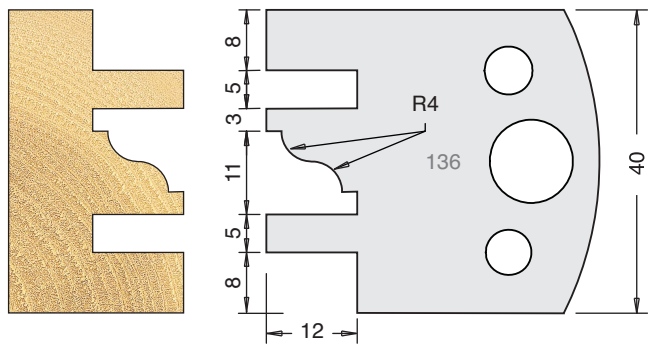
Knives	IT/33 135 40	£9.79
Limitors	IT/34 135 40	£9.24



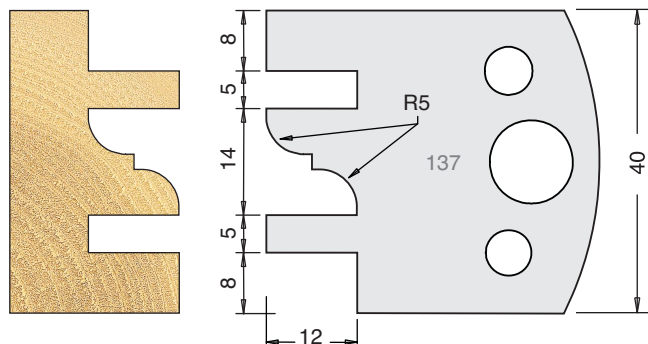
All blades sold as a pair
All prices are exclusive of VAT

All drawings are actual size
Profile drawing shows back of knife

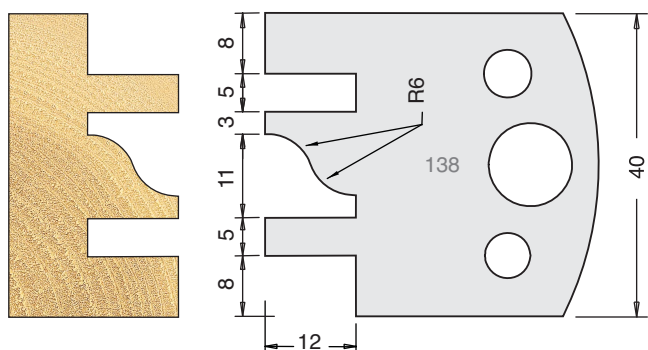
TOOL STEEL MULTI PROFILE CUTTERS - 40X4MM



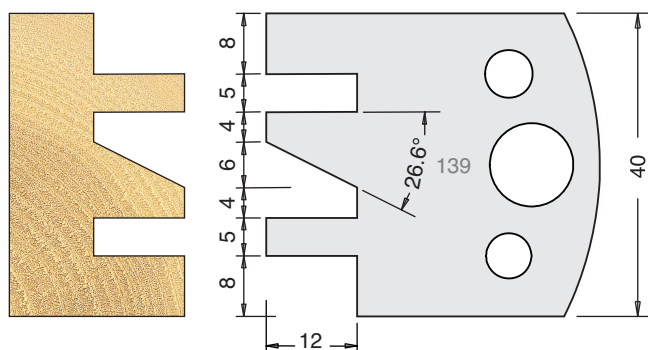
Knives	IT/33 136 40	£15.22	Max. timber thickness 25mm
Limitors	IT/34 136 40	£11.96	



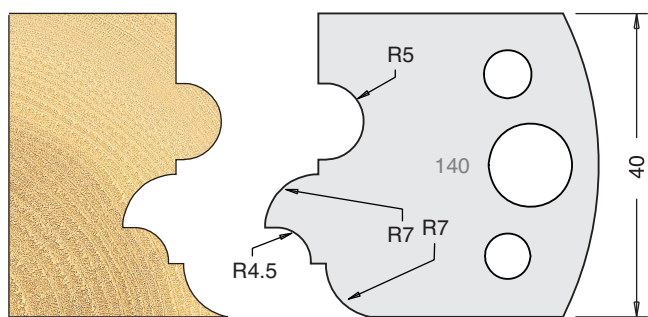
Knives	IT/33 137 40	£15.22	Max. timber thickness 25mm
Limitors	IT/34 137 40	£11.96	



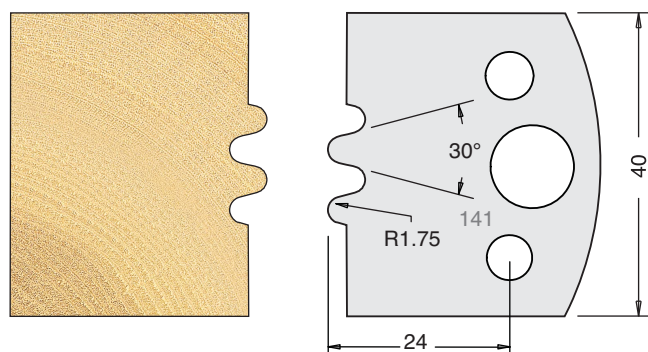
Knives	IT/33 138 40	£15.22	Max. timber thickness 25mm
Limitors	IT/34 138 40	£11.96	



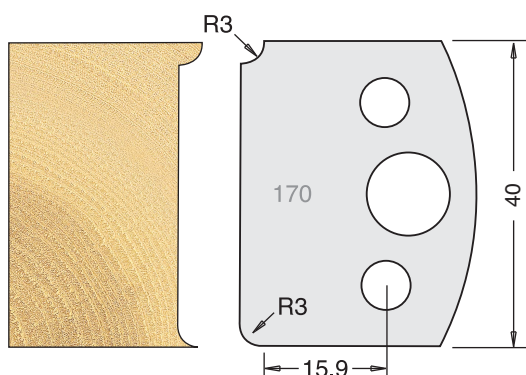
Knives	IT/33 139 40	£15.22	Max. timber thickness 25mm
Limitors	IT/34 139 40	£11.96	



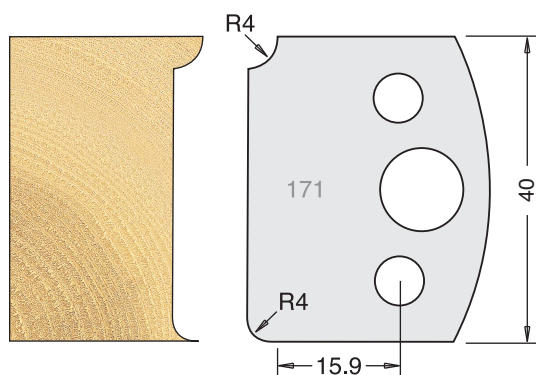
Knives	IT/33 140 40	£15.22
Limitors	IT/34 140 40	£11.96



Knives	IT/33 141 40	£15.22
Limitors	IT/34 141 40	£11.96



Knives	IT/33 170 40	£9.79
Limitors	IT/34 170 40	£9.24

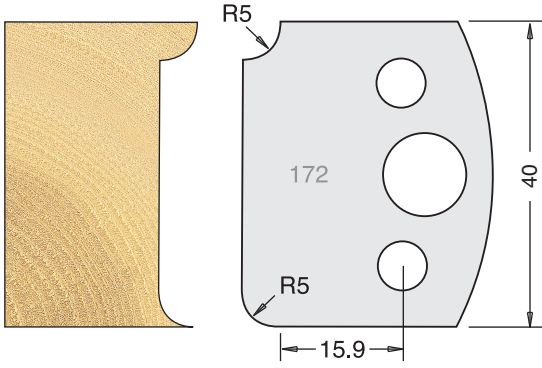


Knives	IT/33 171 40	£9.79
Limitors	IT/34 171 40	£9.24

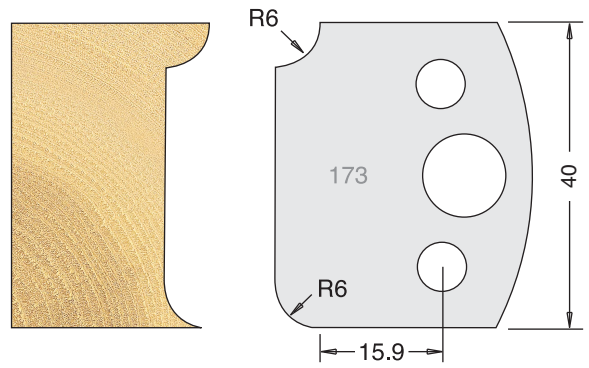
All blades sold as a pair
All prices are exclusive of VAT

All drawings are actual size
Profile drawing shows back of knife

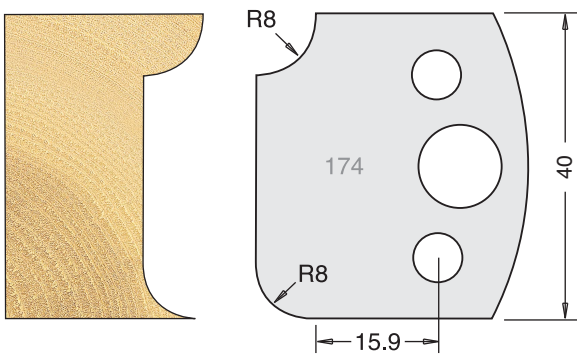
TOOL STEEL MULTI PROFILE CUTTERS - 40X4MM



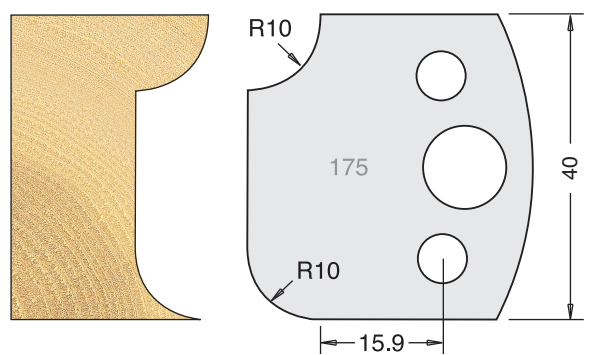
Knives	IT/33 172 40	£9.79
Limitors	IT/34 172 40	£9.24



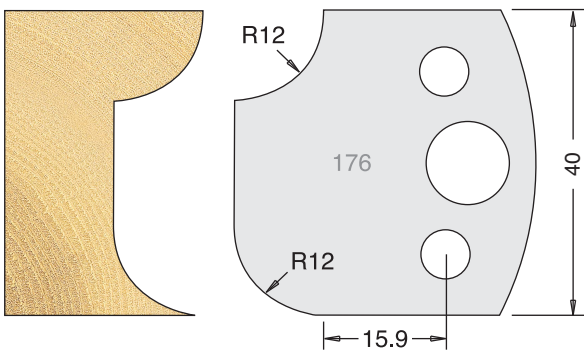
Knives	IT/33 173 40	£9.79
Limitors	IT/34 173 40	£9.24



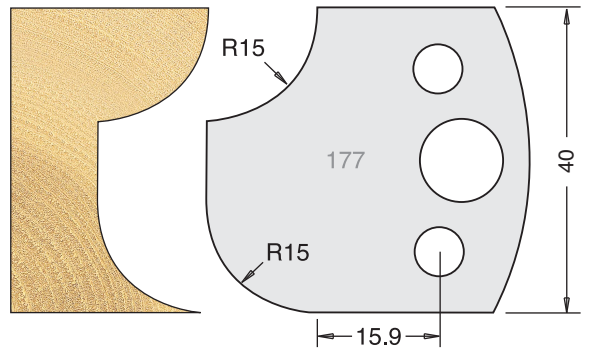
Knives	IT/33 174 40	£9.79
Limitors	IT/34 174 40	£9.24



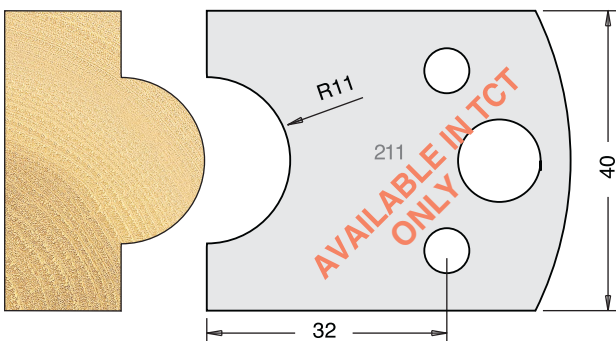
Knives	IT/33 175 40	£9.79
Limitors	IT/34 175 40	£9.24



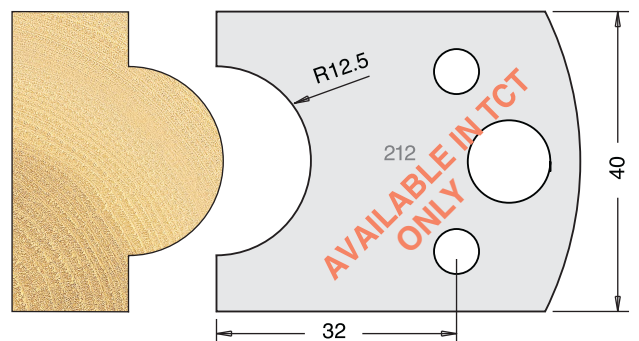
Knives	IT/33 176 40	£9.79
Limitors	IT/34 176 40	£9.24



Knives	IT/33 177 40	£9.79
Limitors	IT/34 177 40	£9.24

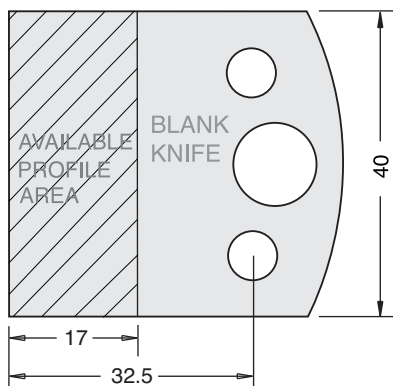


Knives TCT	IT/33 211 42	£35.23
Limitors	IT/34 211 40	£22.60



Knives TCT	IT/33 212 42	£35.23
Limitors	IT/34 212 40	£22.60

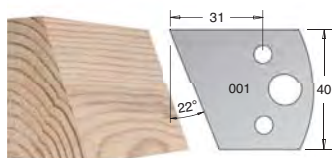
BLANK KNIFE



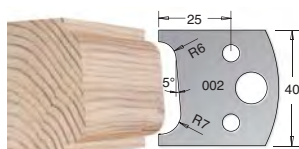
Tool Steel	IT/33 000 46	£5.88
High Speed Steel	IT/ST/HSSB01	£23.05
Limitors	IT/34 000 46	£4.35

MULTI PROFILE SIX PIECE CUTTER BLOCK SET

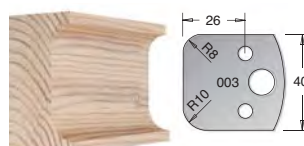
- Multi Profile Cutter Block Set complete in a wooden storage box.
- Set comes complete with profile knives and limiter plates 001 to 006 and hard wearing alloy cutter block IT/776 020 1 (30mm bore) or IT/776 010 7 (1 1/4" bore).
- Suitable for jointing, rebating and profiling in un-bonded softwood and hardwood.
- Suitable for Hand Feeding (MAN).



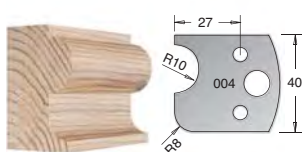
IT/33 001 40 Knives
IT/34 001 40 Limitors



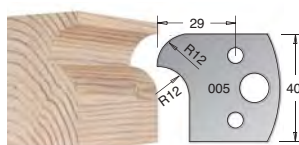
IT/33 002 40 Knives
IT/34 002 40 Limitors



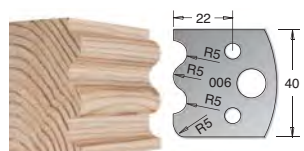
IT/33 003 40 Knives
IT/34 003 40 Limitors



IT/33 004 40 Knives
IT/34 004 40 Limitors



IT/33 005 40 Knives
IT/34 005 40 Limitors

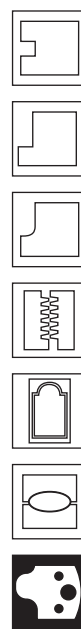


IT/33 006 40 Knives
IT/34 006 40 Limitors

D	B	z	Profiles	30mm Bore	1 1/4" Bore	Stock	Price
100	40	2	001 - 006	IT/ST/SET001	IT/ST/SET007	Y	£182.44

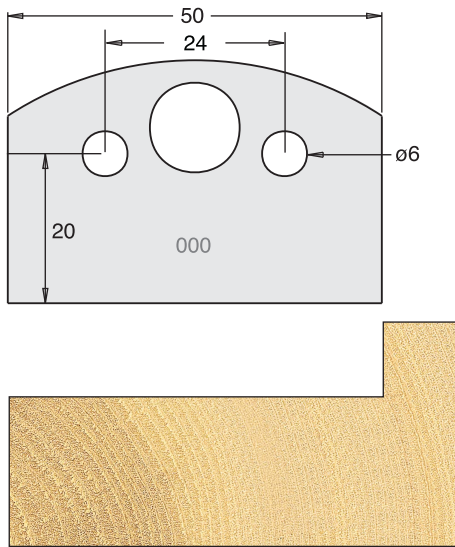
KEY

- Stock** - Y means normally kept in stock for next day delivery.
N means not normally held in stock, delivery in a short time.

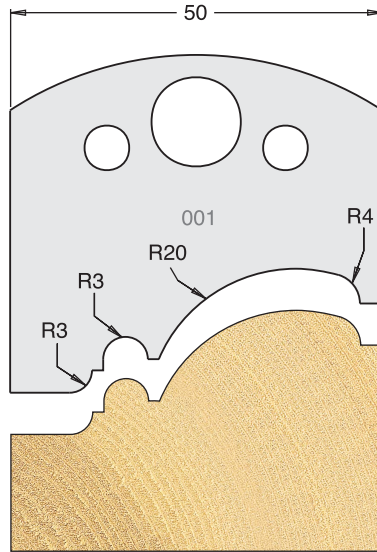


All drawings are actual size
Profile drawing shows back of knife

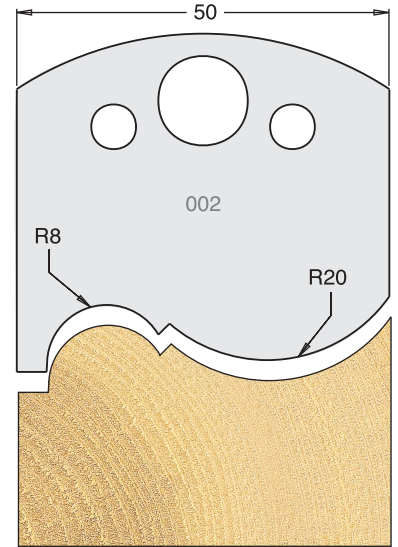
TOOL STEEL MULTI PROFILE CUTTERS - 50X4MM



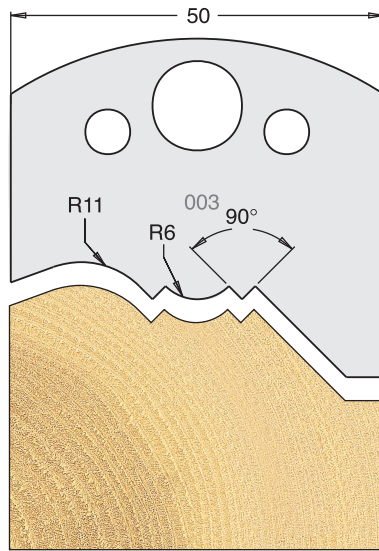
Knives	IT/33 000 50	£14.38
Limitors	IT/34 000 50	£12.32



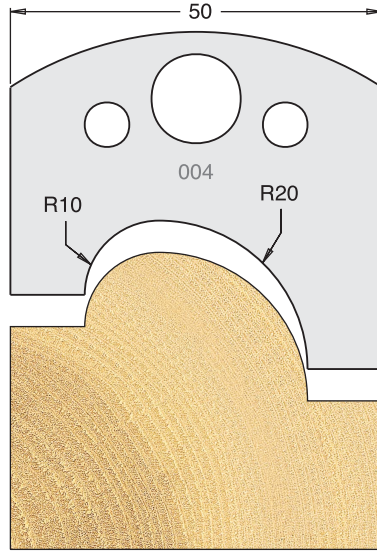
Knives	IT/33 001 50	£22.27
Limitors	IT/34 001 50	£18.62



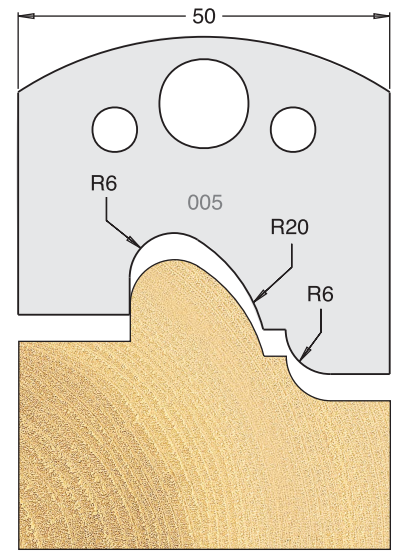
Knives	IT/33 002 50	£22.27
Limitors	IT/34 002 50	£18.62



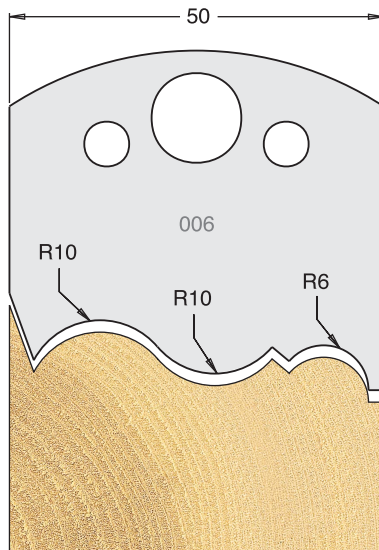
Knives	IT/33 003 50	£22.27
Limitors	IT/34 003 50	£18.62



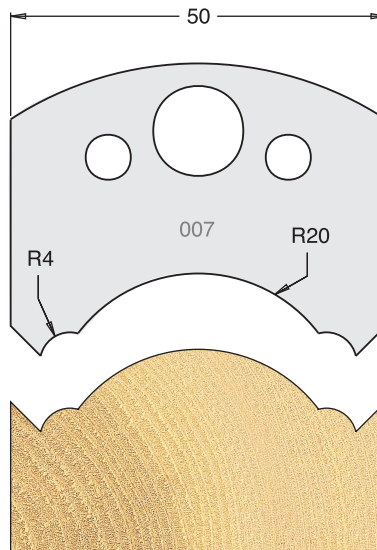
Knives	IT/33 004 50	£22.27
Limitors	IT/34 004 50	£18.62



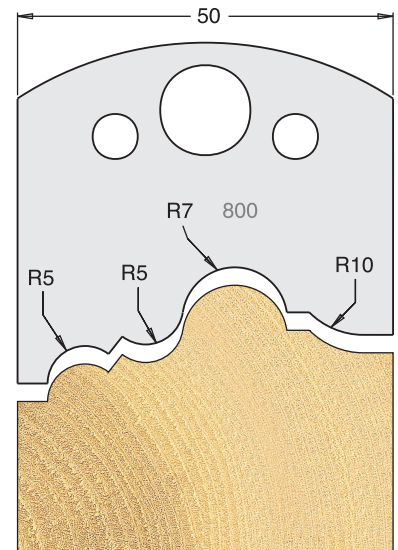
Knives	IT/33 005 50	£22.27
Limitors	IT/34 005 50	£18.62



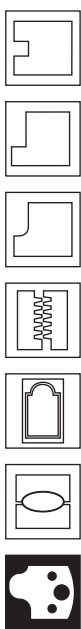
Knives	IT/33 006 50	£22.27
Limitors	IT/34 006 50	£18.62



Knives	IT/33 007 50	£22.27
Limitors	IT/34 007 50	£18.62



Knives	IT/33 008 50	£22.27
Limitors	IT/34 008 50	£18.62

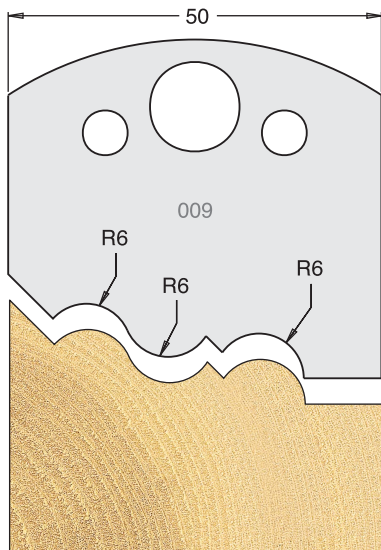


All blades sold as a pair

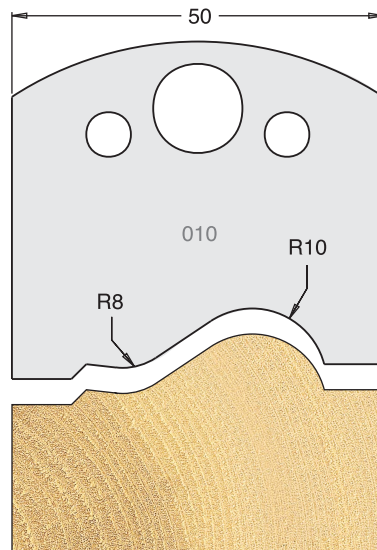
All prices are exclusive of VAT

All drawings are actual size
 Profile drawing shows back of knife

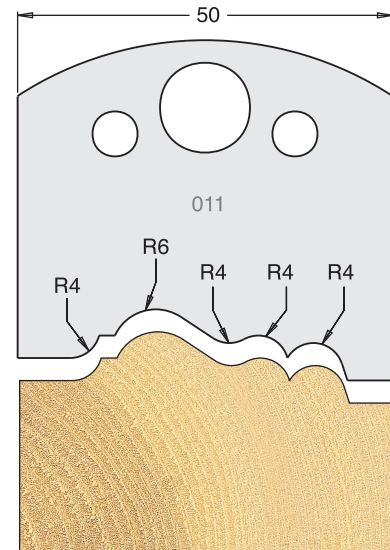
TOOL STEEL MULTI PROFILE CUTTERS - 50X4MM



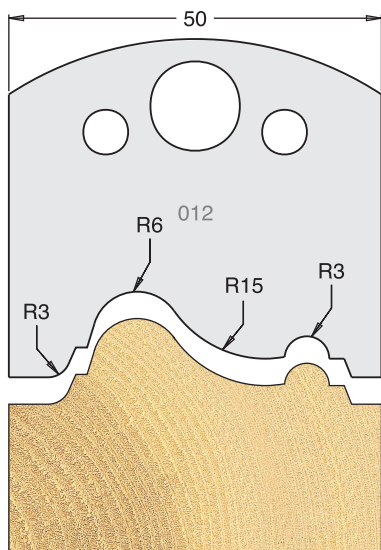
Knives	IT/33 009 50	£22.27
Limitors	IT/34 009 50	£18.62



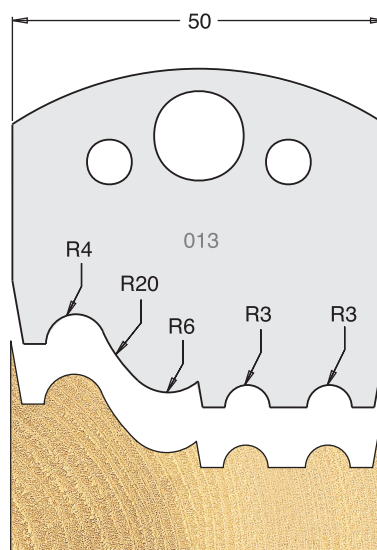
Knives	IT/33 010 50	£22.27
Limitors	IT/34 010 50	£18.62



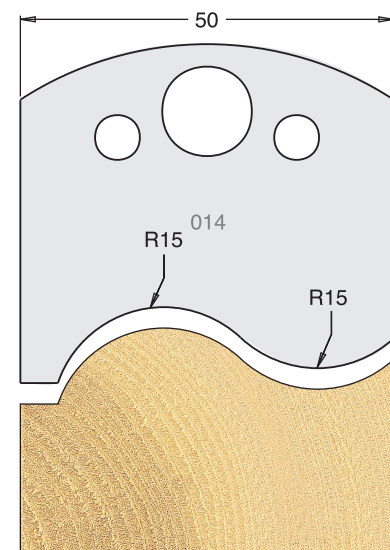
Knives	IT/33 011 50	£22.27
Limitors	IT/34 011 50	£18.62



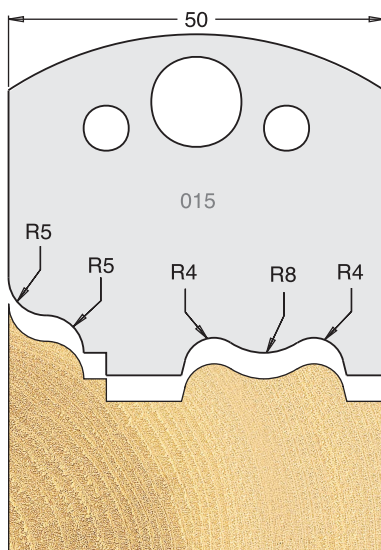
Knives	IT/33 012 50	£22.27
Limitors	IT/34 012 50	£18.62



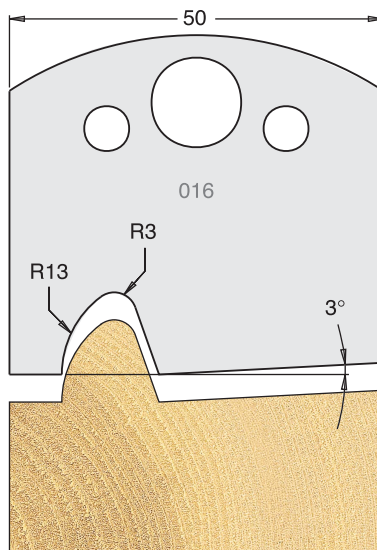
Knives	IT/33 013 50	£22.27
Limitors	IT/34 013 50	£18.62



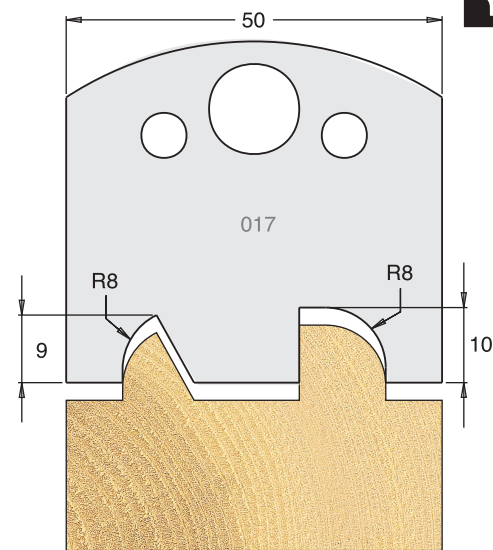
Knives	IT/33 014 50	£22.27
Limitors	IT/34 014 50	£18.62



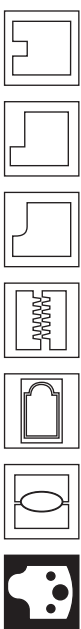
Knives	IT/33 015 50	£22.27
Limitors	IT/34 015 50	£18.62



Knives	IT/33 016 50	£22.27
Limitors	IT/34 016 50	£18.62



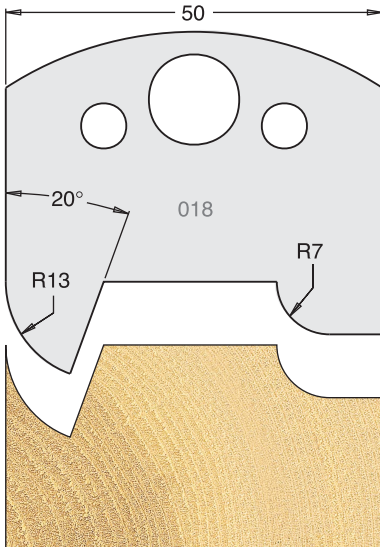
Knives	IT/33 017 50	£22.27
Limitors	IT/34 017 50	£18.62



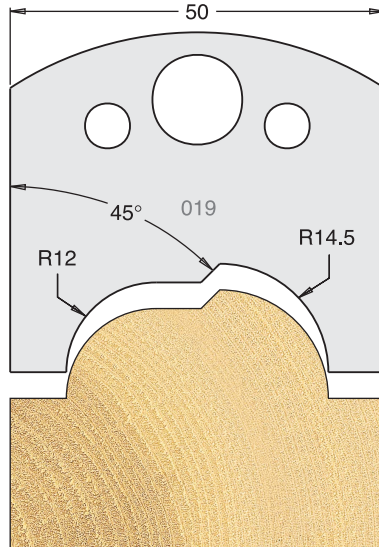
All blades sold as a pair
 All prices are exclusive of VAT

All drawings are actual size
Profile drawing shows back of knife

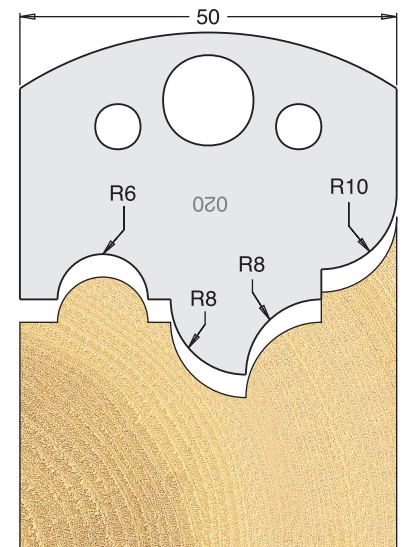
TOOL STEEL MULTI PROFILE CUTTERS - 50X4MM



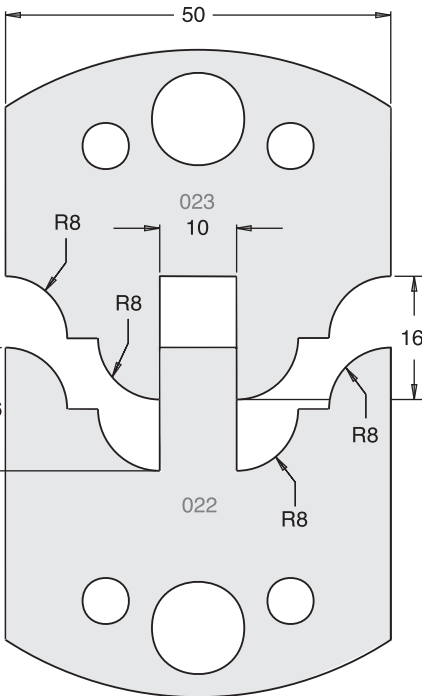
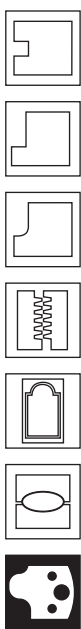
Knives	IT/33 018 50	£22.27
Limitors	IT/34 018 50	£18.62



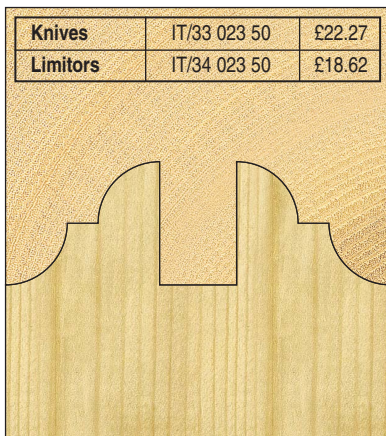
Knives	IT/33 019 50	£22.27
Limitors	IT/34 019 50	£18.62



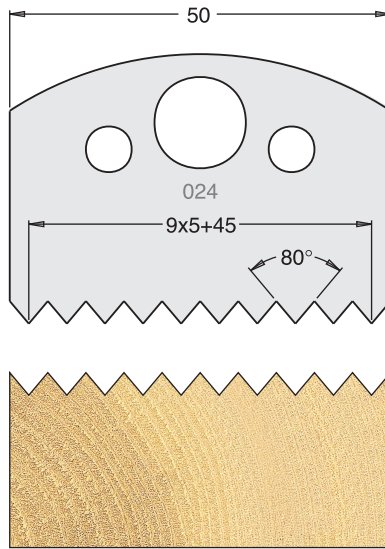
Knives	IT/33 020 50	£22.27
Limitors	IT/34 020 50	£18.62



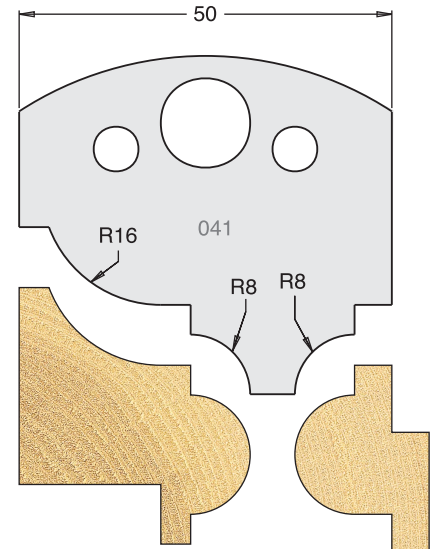
Knives	IT/33 023 50	£22.27
Limitors	IT/34 023 50	£18.62



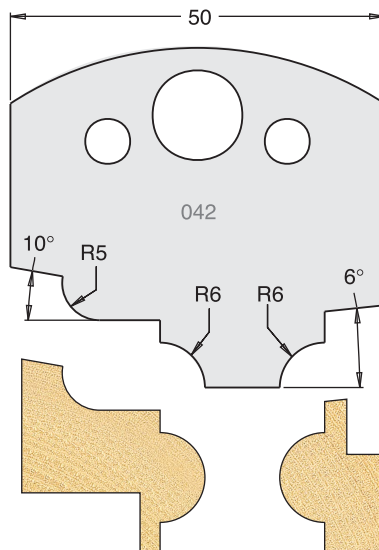
Knives	IT/33 022 50	£22.27
Limitors	IT/34 022 50	£18.62



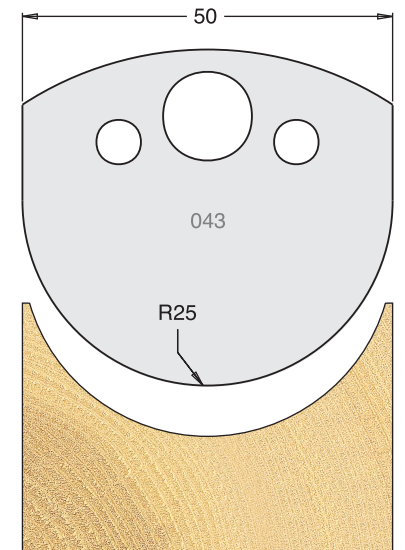
Knives	IT/33 024 50	£22.27
Limitors	IT/34 024 50	£18.62



Knives	IT/33 041 50	£22.27
Limitors	IT/34 041 50	£18.62



Knives	IT/33 042 50	£22.27
Limitors	IT/34 042 50	£18.62



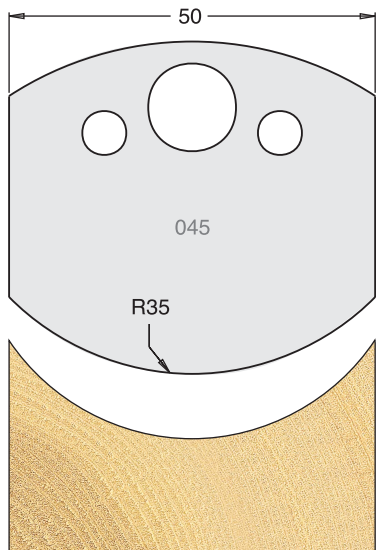
Knives	IT/33 043 50	£22.27
Limitors	IT/34 043 50	£18.62

All drawings are actual size
Profile drawing shows back of knife

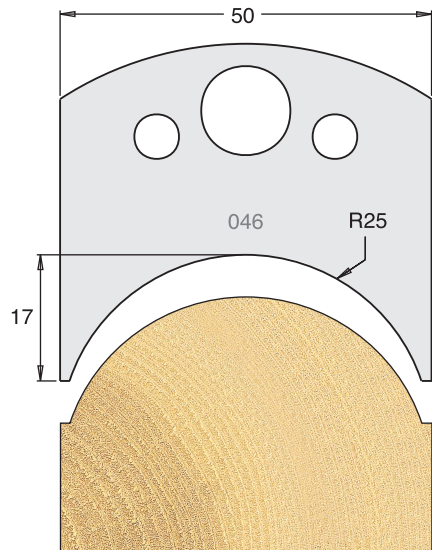
TOOL STEEL MULTI PROFILE CUTTERS - 50X4MM



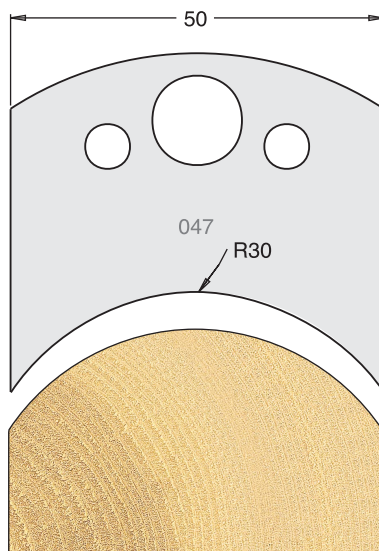
Knives	IT/33 044 50	£22.27
Limitors	IT/34 044 50	£18.62



Knives	IT/33 045 50	£22.27
Limitors	IT/34 045 50	£18.62



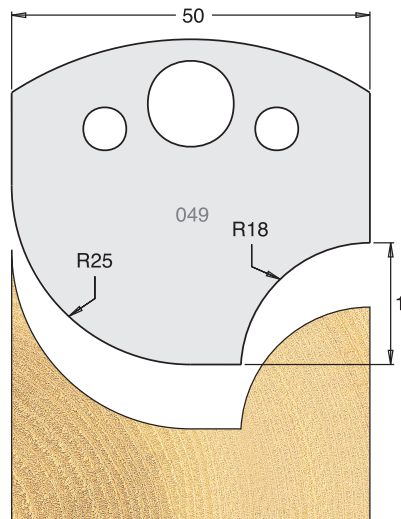
Knives	IT/33 046 50	£22.27
Limitors	IT/34 046 50	£18.62



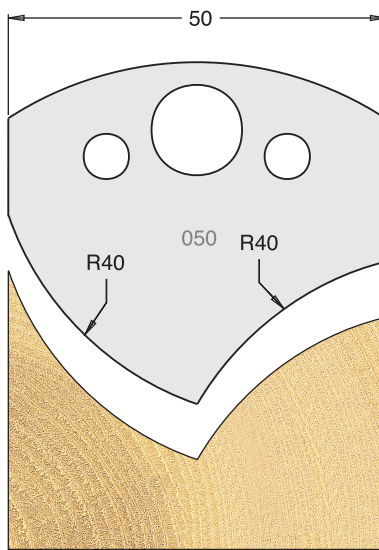
Knives	IT/33 047 50	£22.27
Limitors	IT/34 047 50	£18.62



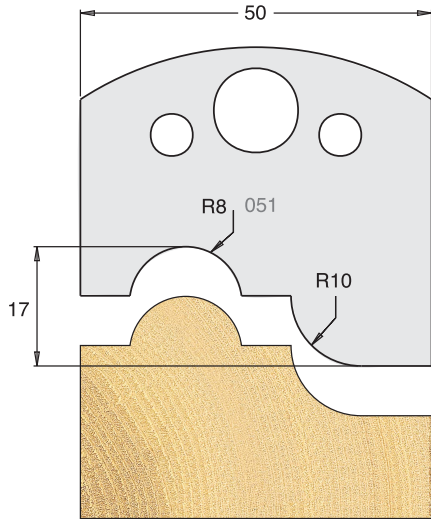
Knives	IT/33 048 50	£22.27
Limitors	IT/34 048 50	£18.62



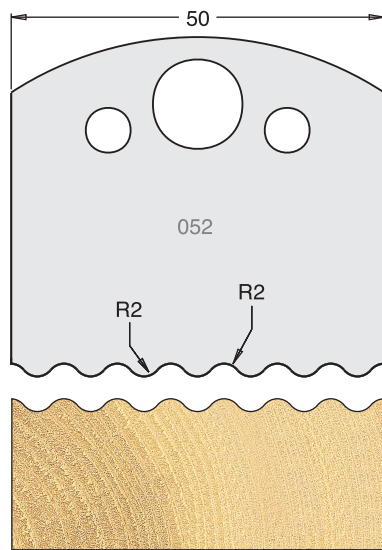
Knives	IT/33 049 50	£22.27
Limitors	IT/34 049 50	£18.62



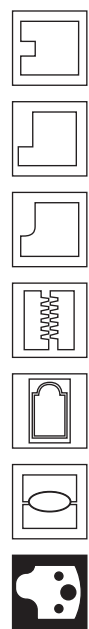
Knives	IT/33 050 50	£22.27
Limitors	IT/34 050 50	£18.62



Knives	IT/33 051 50	£22.27
Limitors	IT/34 051 50	£18.62



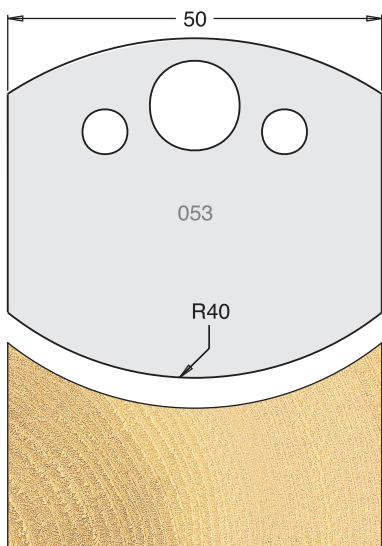
Knives	IT/33 052 50	£22.27
Limitors	IT/34 052 50	£18.62



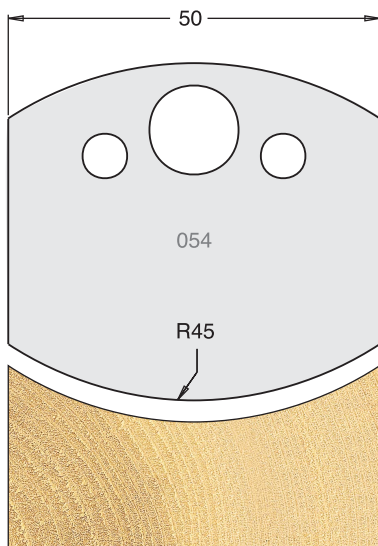
All blades sold as a pair
All prices are exclusive of VAT

All drawings are actual size
 Profile drawing shows back of knife

TOOL STEEL MULTI PROFILE CUTTERS - 50X4MM



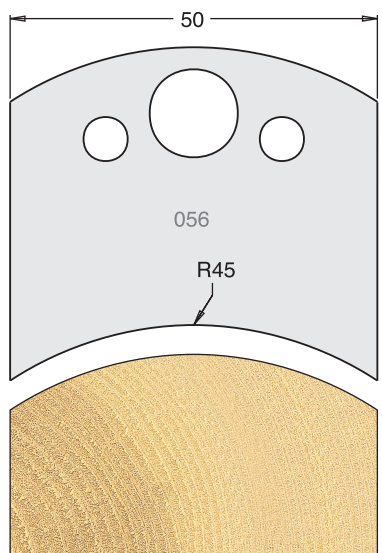
Knives	IT/33 053 50	£22.27
Limitors	IT/34 053 50	£18.62



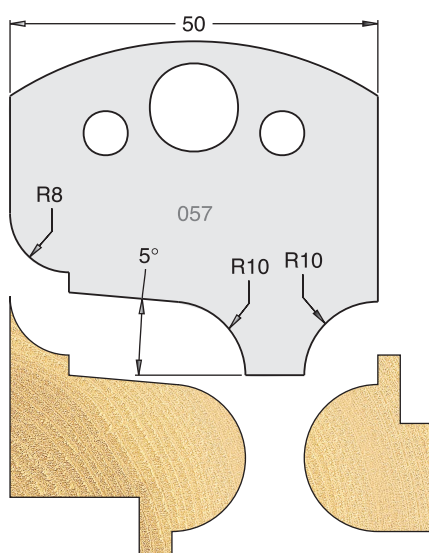
Knives	IT/33 054 50	£22.27
Limitors	IT/34 054 50	£18.62



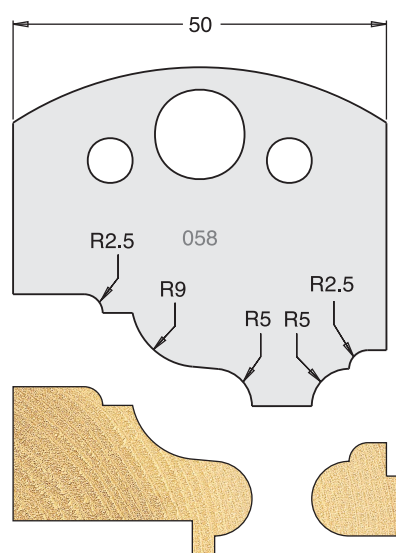
Knives	IT/33 055 50	£22.27
Limitors	IT/34 055 50	£18.62



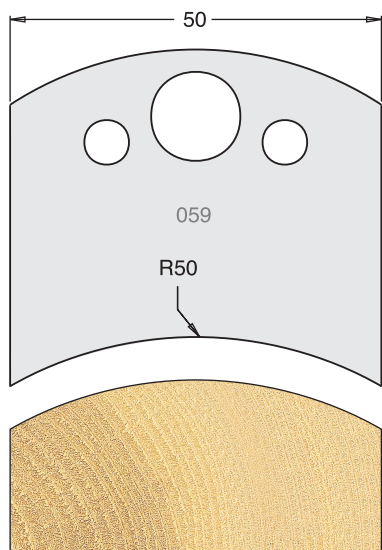
Knives	IT/33 056 50	£22.27
Limitors	IT/34 056 50	£18.62



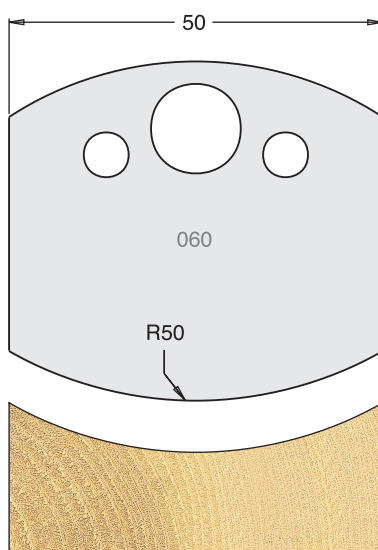
Knives	IT/33 057 50	£22.27
Limitors	IT/34 057 50	£18.62



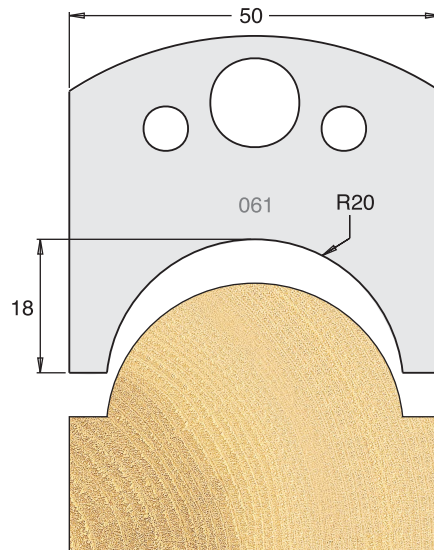
Knives	IT/33 058 50	£22.27
Limitors	IT/34 058 50	£18.62



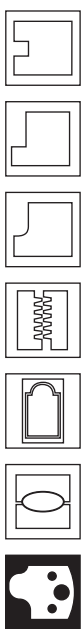
Knives	IT/33 059 50	£22.27
Limitors	IT/34 059 50	£18.62



Knives	IT/33 060 50	£22.27
Limitors	IT/34 060 50	£18.62



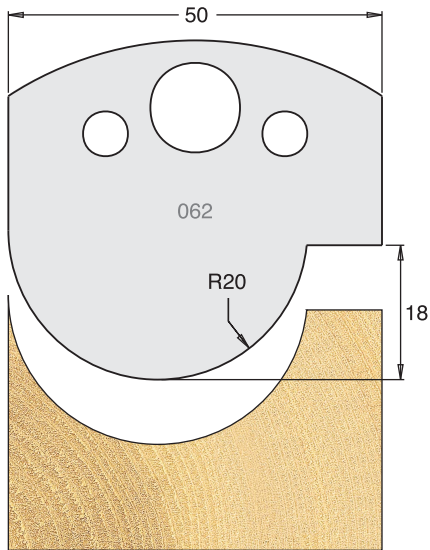
Knives	IT/33 061 50	£22.27
Limitors	IT/34 061 50	£18.62



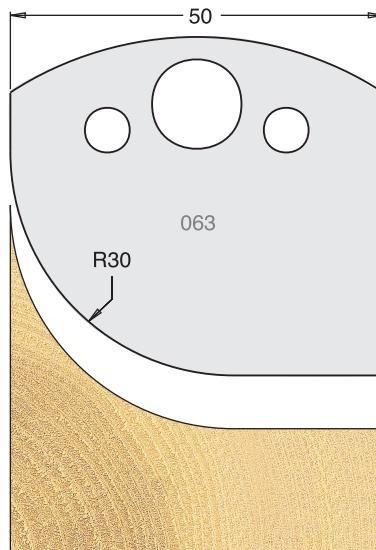
All blades sold as a pair

All drawings are actual size
 Profile drawing shows back of knife

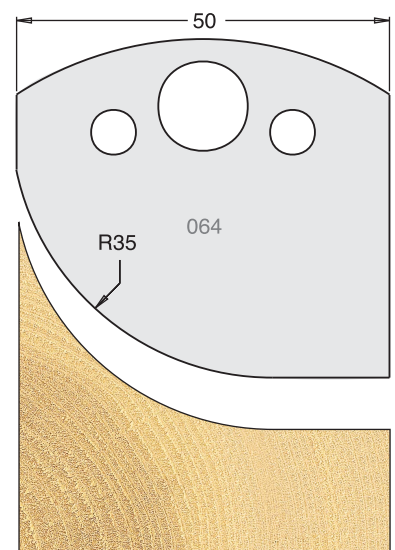
TOOL STEEL MULTI PROFILE CUTTERS - 50X4MM



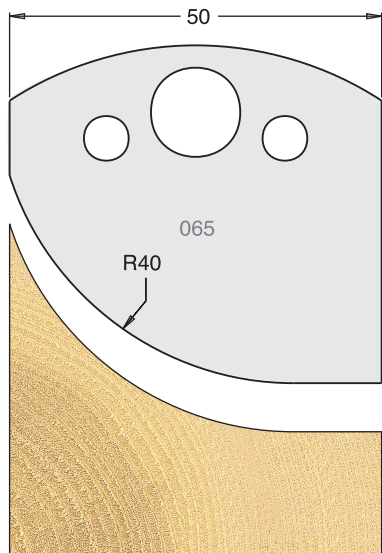
Knives	IT/33 062 50	£22.27
Limitors	IT/34 062 50	£18.62



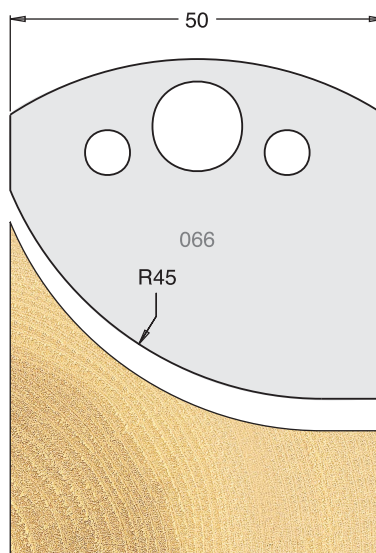
Knives	IT/33 063 50	£22.27
Limitors	IT/34 063 50	£18.62



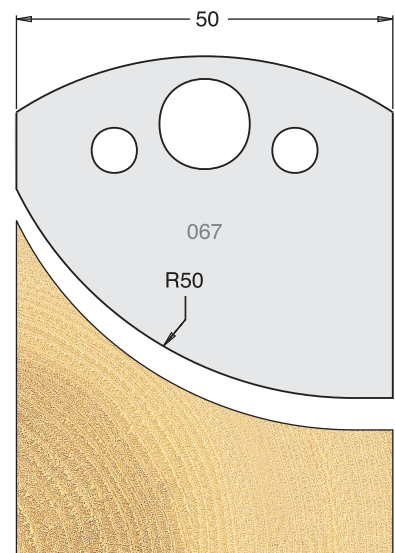
Knives	IT/33 064 50	£22.27
Limitors	IT/34 064 50	£18.62



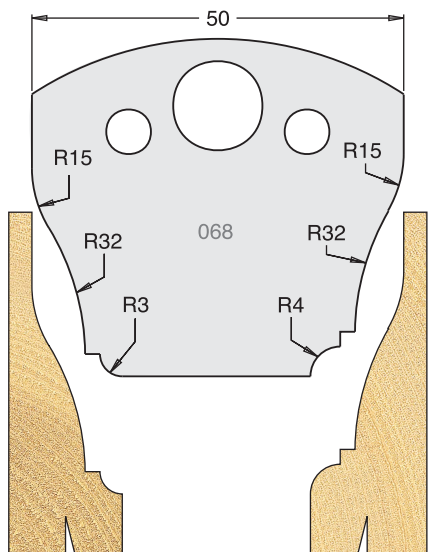
Knives	IT/33 065 50	£22.27
Limitors	IT/34 065 50	£18.62



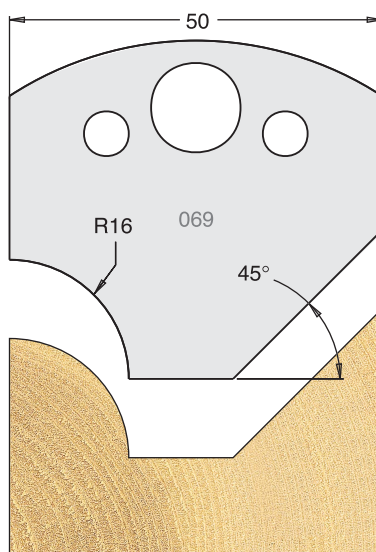
Knives	IT/33 066 50	£22.27
Limitors	IT/34 066 50	£18.62



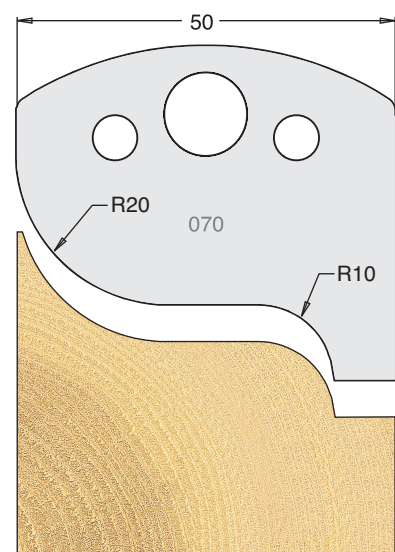
Knives	IT/33 067 50	£22.27
Limitors	IT/34 067 50	£18.62



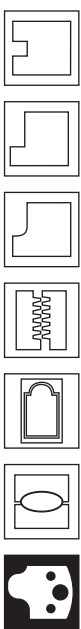
Knives	IT/33 068 50	£22.27
Limitors	IT/34 068 50	£18.62



Knives	IT/33 069 50	£22.27
Limitors	IT/34 069 50	£18.62

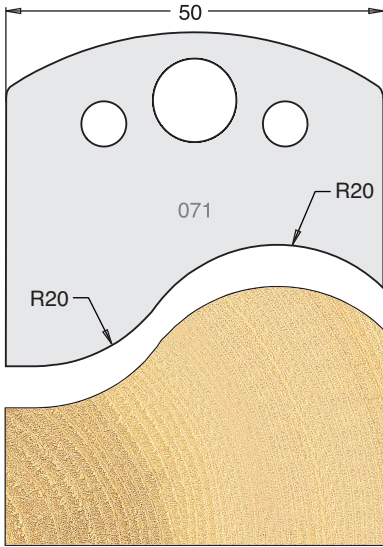


Knives	IT/33 070 50	£22.27
Limitors	IT/34 070 50	£18.62

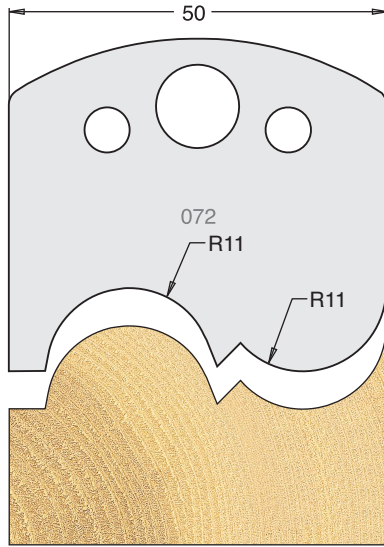


All drawings are actual size
Profile drawing shows back of knife

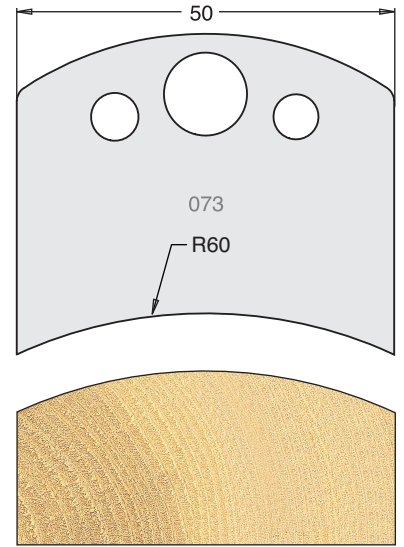
TOOL STEEL MULTI PROFILE CUTTERS - 50X4MM



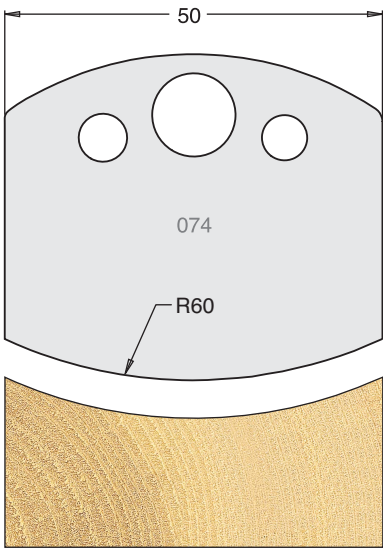
Knives	IT/33 071 50	£22.27
Limitors	IT/34 071 50	£18.62



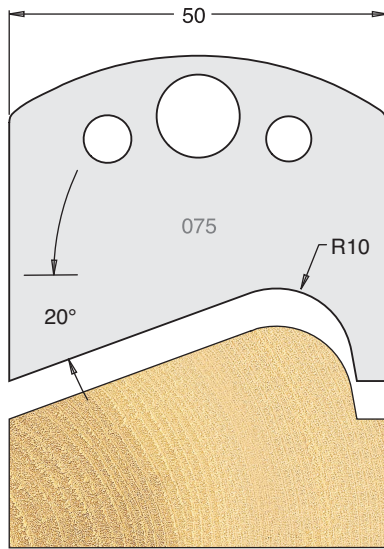
Knives	IT/33 072 50	£22.27
Limitors	IT/34 072 50	£18.62



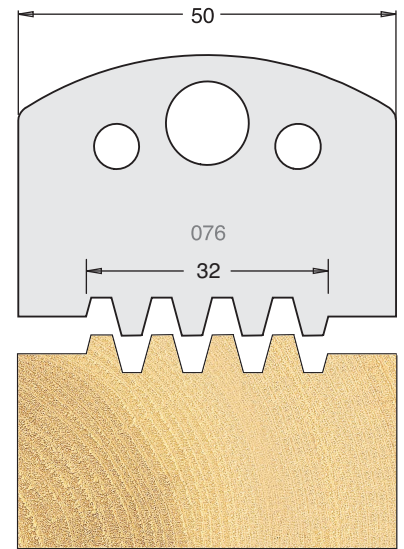
Knives	IT/33 073 50	£22.27
Limitors	IT/34 073 50	£18.62



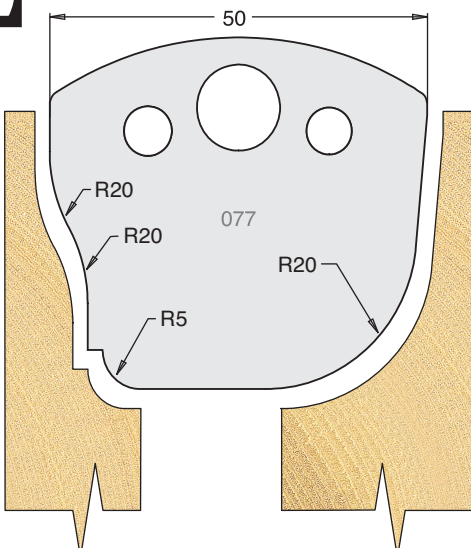
Knives	IT/33 074 50	£22.27
Limitors	IT/34 074 50	£18.62



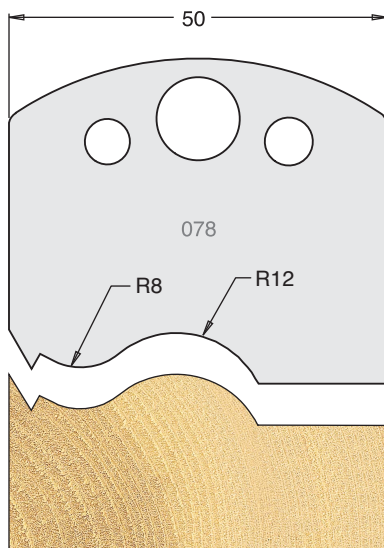
Knives	IT/33 075 50	£22.27
Limitors	IT/34 075 50	£18.62



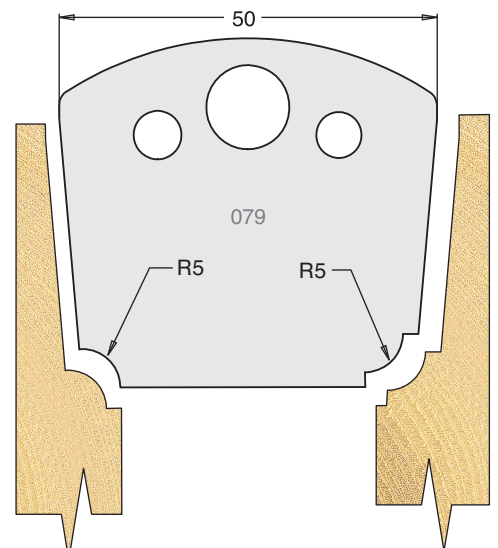
Knives	IT/33 076 50	£22.27
Limitors	IT/34 076 50	£18.62



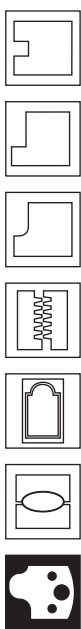
Knives	IT/33 077 50	£22.27
Limitors	IT/34 077 50	£18.62



Knives	IT/33 078 50	£22.27
Limitors	IT/34 078 50	£18.62



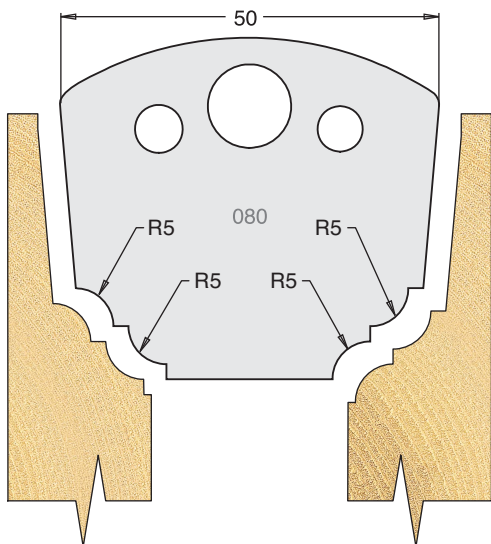
Knives	IT/33 079 50	£22.27
Limitors	IT/34 079 50	£18.62



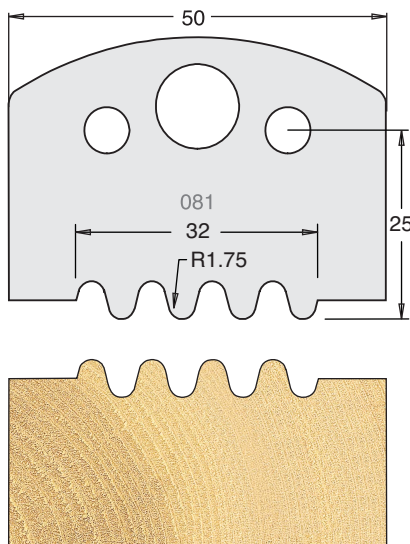
All blades sold as a pair

All prices are exclusive of VAT

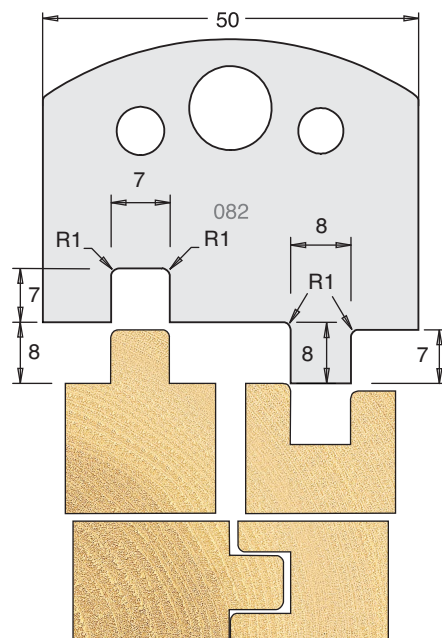
TOOL STEEL MULTI PROFILE CUTTERS - 50X4MM



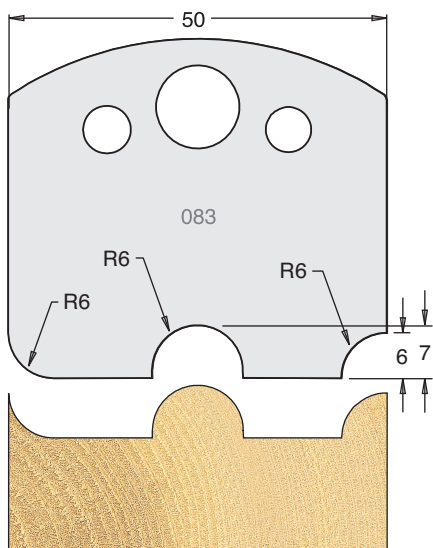
Knives	IT/33 080 50	£22.27
Limitors	IT/34 080 50	£18.62



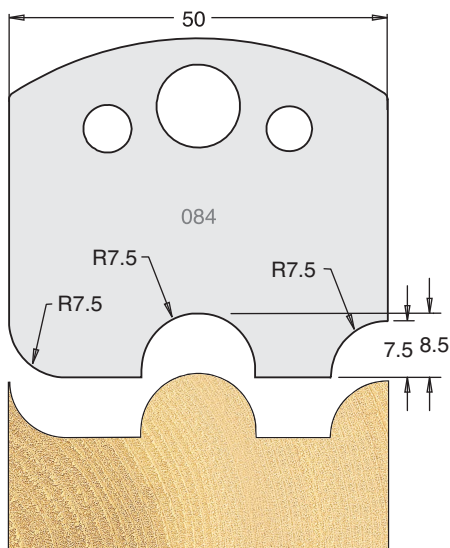
Knives	IT/33 081 50	£22.27
Limitors	IT/34 081 50	£18.62



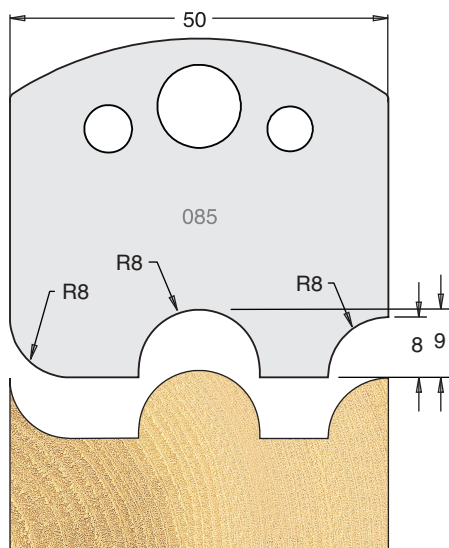
Knives	IT/33 082 50	£22.27
Limitors	IT/34 082 50	£18.62



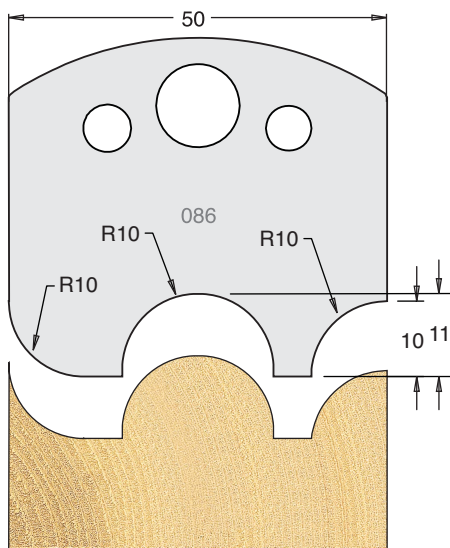
Knives	IT/33 083 50	£22.27
Limitors	IT/34 083 50	£18.62



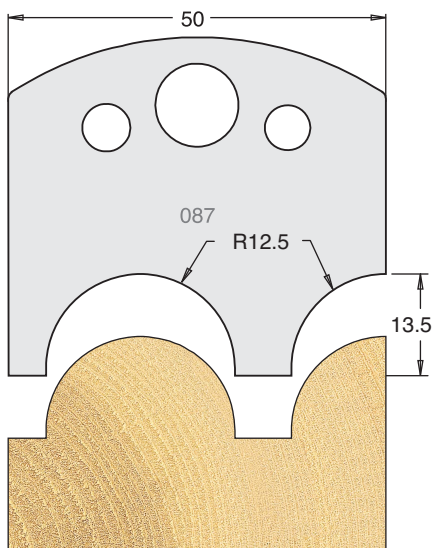
Knives	IT/33 084 50	£22.27
Limitors	IT/34 084 50	£18.62



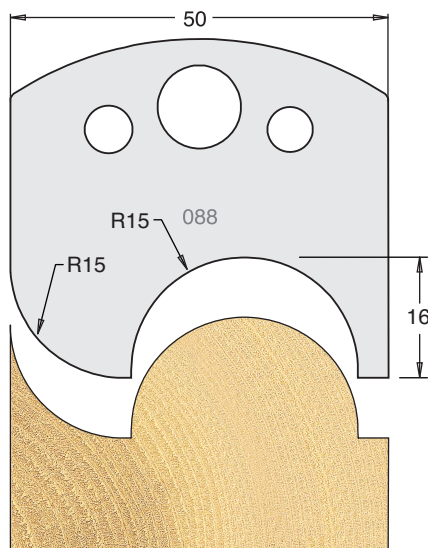
Knives	IT/33 085 50	£22.27
Limitors	IT/34 085 50	£18.62



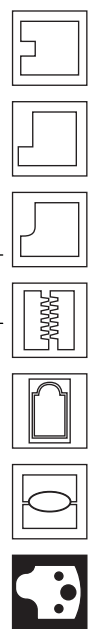
Knives	IT/33 086 50	£22.27
Limitors	IT/34 086 50	£18.62



Knives	IT/33 087 50	£22.27
Limitors	IT/34 087 50	£18.62

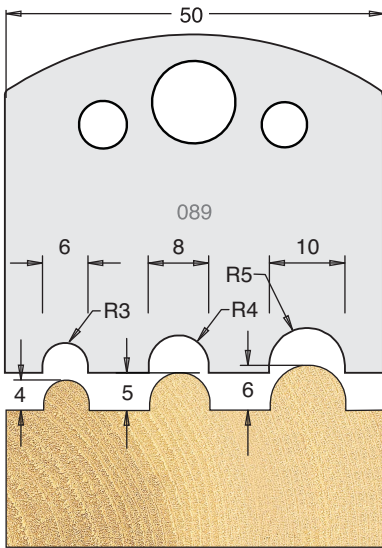


Knives	IT/33 088 50	£22.27
Limitors	IT/34 088 50	£18.62



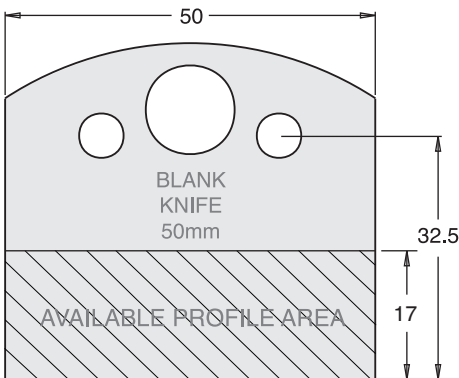
All blades sold as a pair
All prices are exclusive of VAT

TOOL STEEL MULTI PROFILE CUTTER - 50X4MM



Knives	IT/33 089 50	£22.27
Limitors	IT/34 089 50	£18.62

BLANK KNIFE



Tool Steel	IT/335 004 6	£8.22
High Speed Steel	IT/ST/HSSB02	£32.43
Limitors	IT/345 004 6	£5.14

All blades sold as a pair

4 PIECE PROFESSIONAL SPINDLE STARTER SET

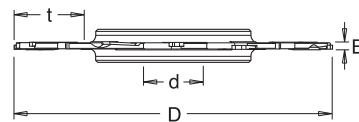
- Hard wearing steel bodied tools in a compact carry case.
- Set comprises:
 - Disposable Insert Adjustable Groover
 - Disposable Insert Rebate Block
 - Disposable Insert Adjustable Chamfer Block
 - Multi Profile Block
- Four of the most popular spindle blocks for grooving, rebating, chamfering and profiling in softwood and hardwood and man-made board (disposable tip cutters only) on a spindle moulder.
- See relevant product pages for full details of individual blocks.



	30mm Bore	1 1/4" Bore	Stock	Price
4 pc Spindle Starter Set	IT/ST/SS001	IT/ST/SS007	Y	£836.16

COMPRISING:

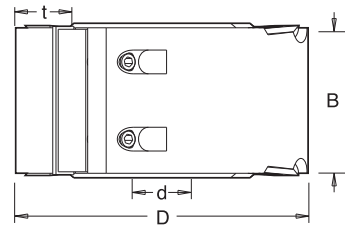
DISPOSABLE INSERT ADJUSTABLE GROOVER



see page 28.

D	B	z	v	max. t	30mm Bore d	1 1/4" Bore d
160	4.0 - 7.5	8	4	30	IT/722 001 1	IT/722 001 7

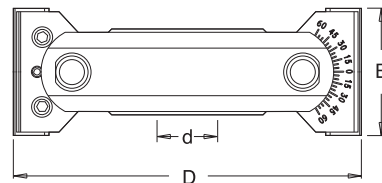
DISPOSABLE INSERT REBATE BLOCK



see page 32.

D	B	z	v	max. t	30mm Bore d	1 1/4" Bore d
125	50	2	4	30	IT/733 102 1	IT/733 102 7

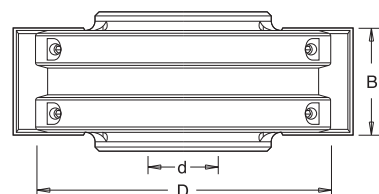
DISPOSABLE INSERT ADJUSTABLE CHAMFER BLOCK



see page 38.

D	B	z	angle	30mm Bore d	1 1/4" Bore d
150	50	2	-90° to +90°	IT/734 017 1	IT/734 017 7

MULTI PROFILE BLOCK

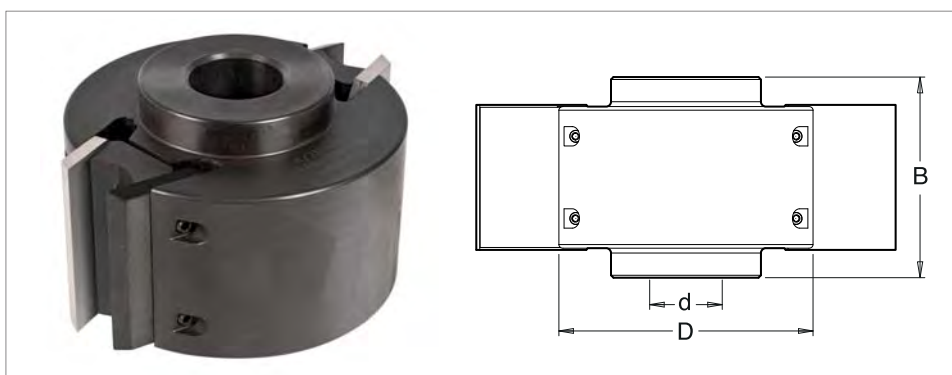
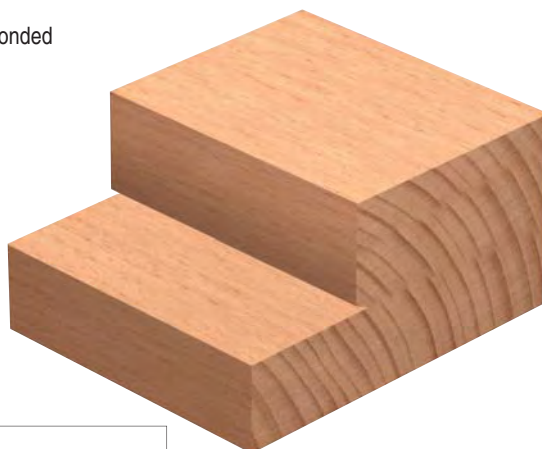


see page 57.

D	B	z	30mm Bore d	1 1/4" Bore d
114	40/50	2	IT/776 008 1	IT/776 008 7

MULTI PROFILE CUTTER BLOCKS 60/80X5.5MM

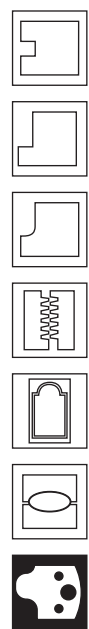
- Hard wearing steel body complete with two tool steel rebate knives and limiter plates.
- Suitable for jointing, rebating and profiling with 5.5mm thick knives and limiters in un-bonded softwood and hardwood boards on a spindle moulder.
- Cutter block will take both 60mm and 80mm knives and limiters.
- Recommended RPM (n): 4,000 – 5,800.
- Suitable for Hand Feeding (MAN).



D	B	z	30mm Bore d	1 1/4" Bore d	Stock	Price
110	60/80	2	IT/710 136 1	IT/710 136 7	Y	£163.10

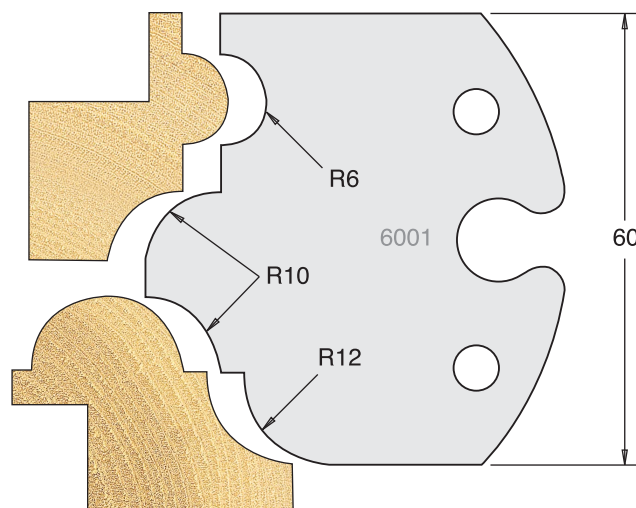
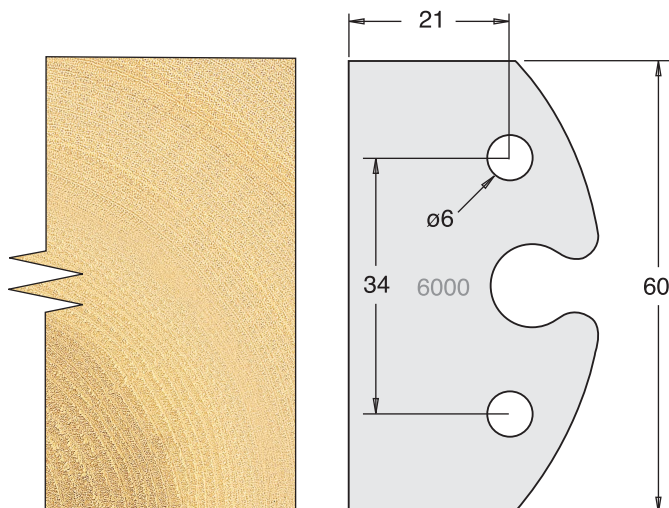
KEY

Stock - Y means normally kept in stock for next day delivery.
 N means not normally held in stock, delivery in a short time.



TOOL STEEL MULTI PROFILE CUTTERS - 60X5.5MM

All drawings are actual size
 Profile drawing shows back of knife



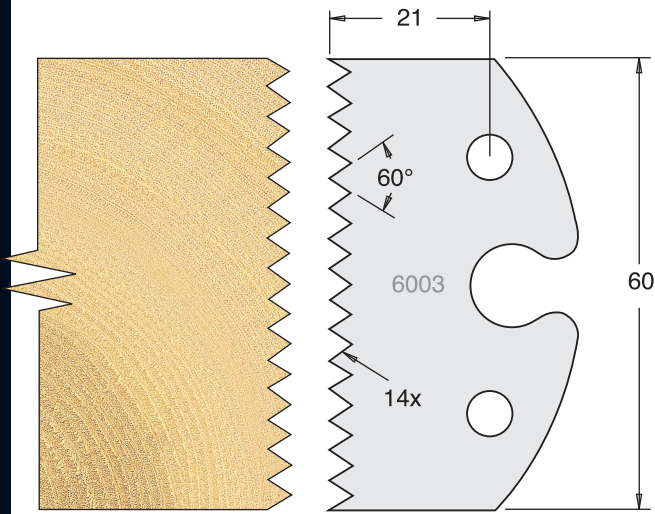
Knives	IT/33 000 60	£23.63
Limiters	IT/34 000 60	£25.12

Knives	IT/33 001 60	£30.82
Limiters	IT/34 001 60	£25.12

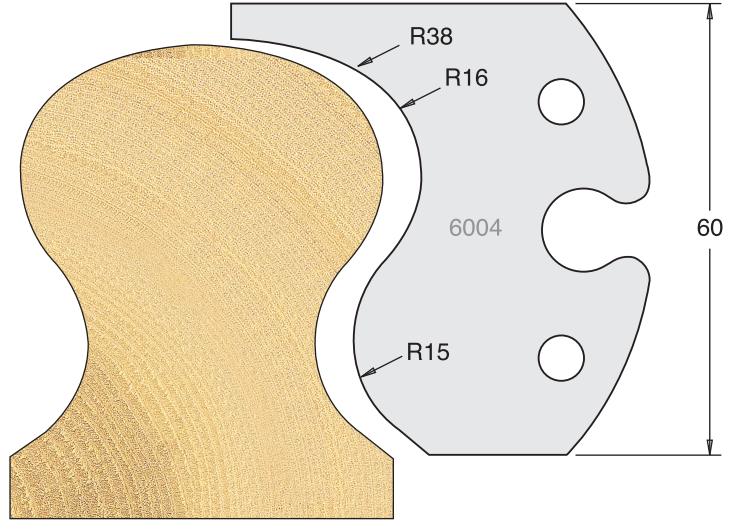
All blades sold as a pair
 All prices are exclusive of VAT

All drawings are actual size
Profile drawing shows back of knife

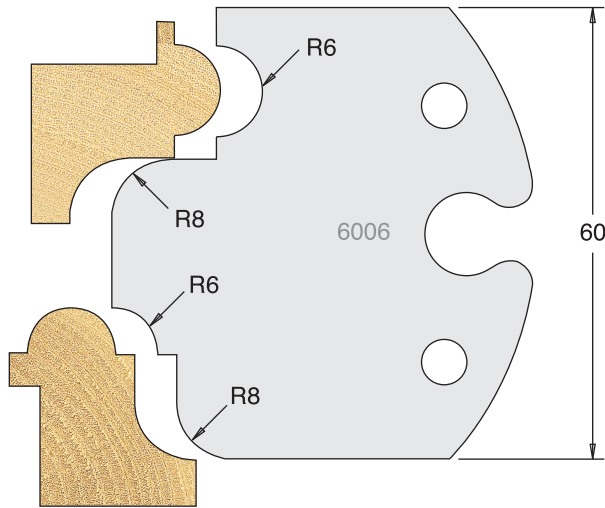
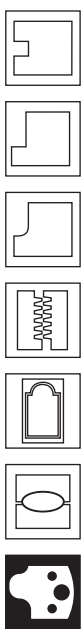
TOOL STEEL MULTI PROFILE CUTTERS - 60X5.5MM



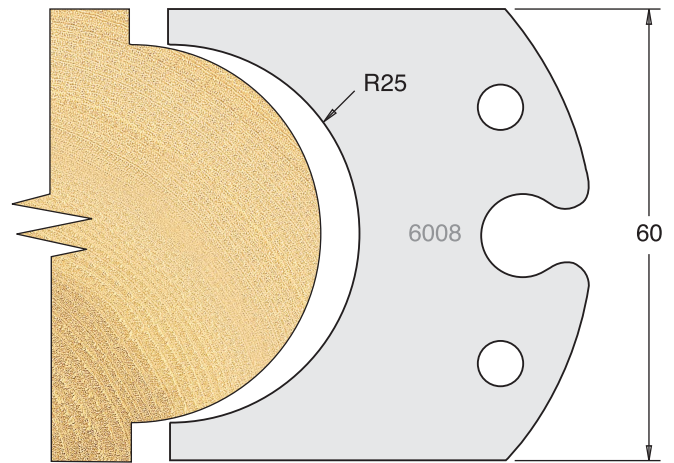
Knives	IT/33 003 60	£30.82
Limitors	IT/34 003 60	£25.12



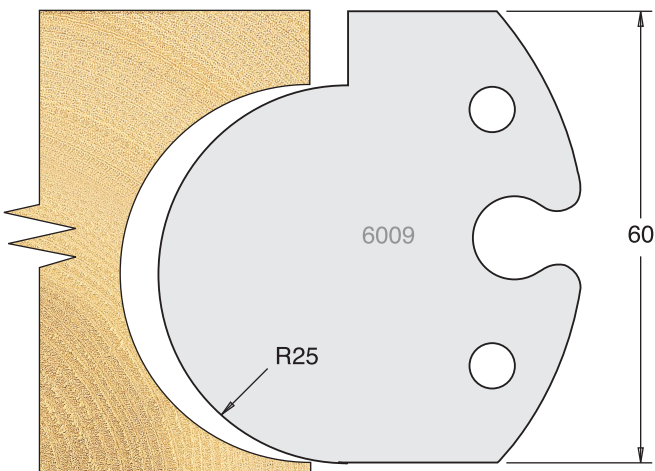
Knives	IT/33 004 60	£30.82
Limitors	IT/34 004 60	£25.12



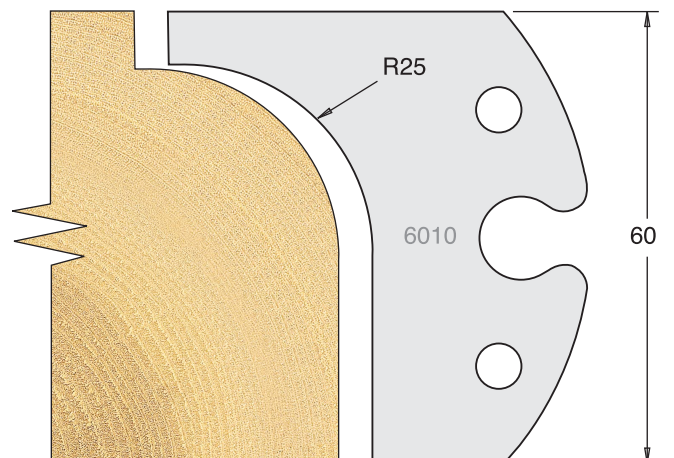
Knives	IT/33 006 60	£30.82
Limitors	IT/34 006 60	£25.12



Knives	IT/33 008 60	£30.82
Limitors	IT/34 008 60	£25.12



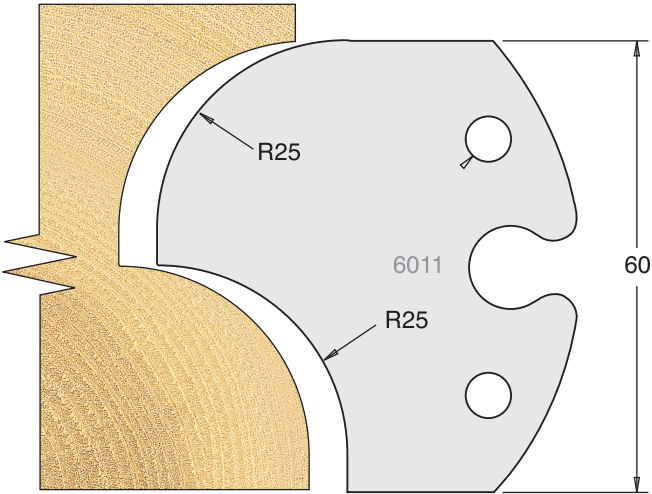
Knives	IT/33 009 60	£30.82
Limitors	IT/34 009 60	£25.12



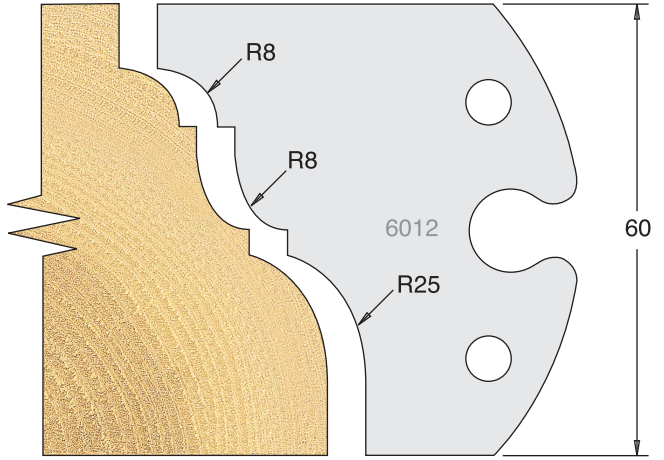
Knives	IT/33 010 60	£30.82
Limitors	IT/34 010 60	£25.12

All drawings are actual size
 Profile drawing shows back of knife

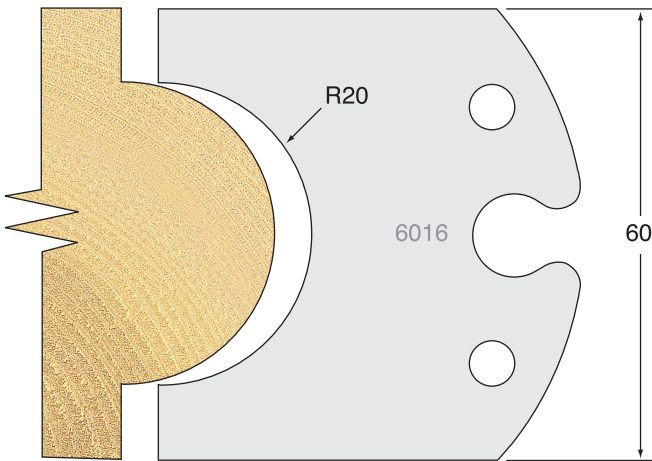
TOOL STEEL MULTI PROFILE CUTTERS - 60X5.5MM



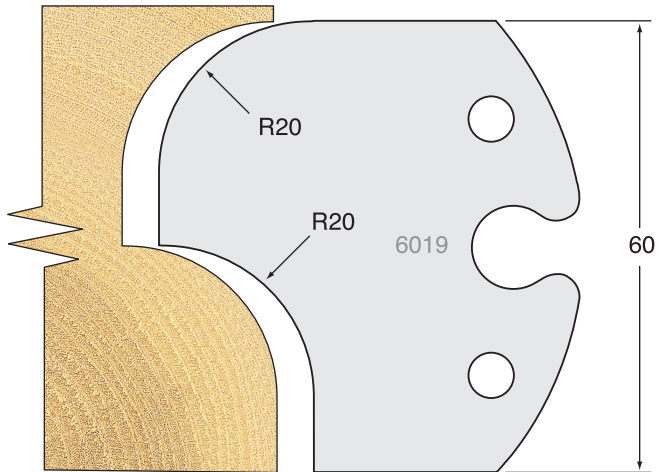
Knives	IT/33 011 60	£30.82
Limitors	IT/34 011 60	£25.12



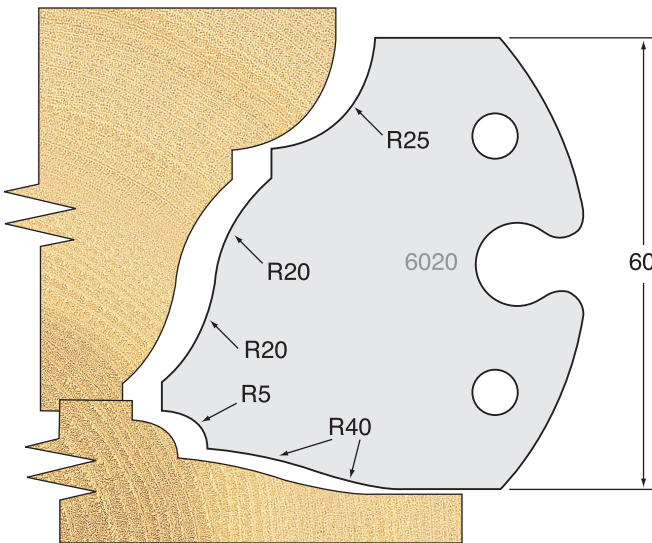
Knives	IT/33 012 60	£30.82
Limitors	IT/34 012 60	£25.12



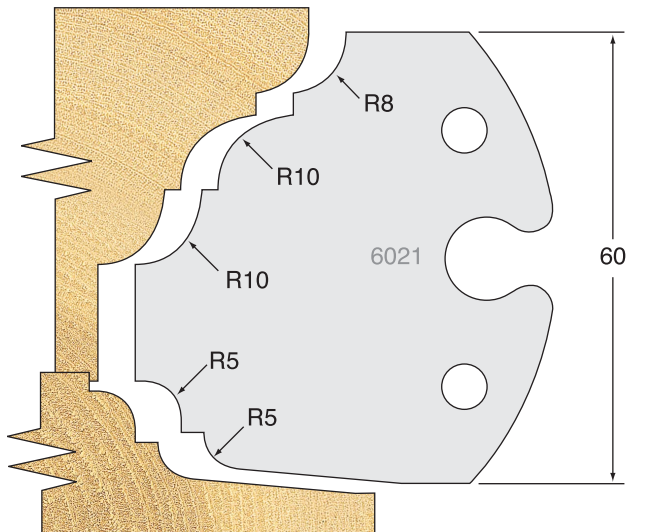
Knives	IT/33 016 60	£30.82
Limitors	IT/34 016 60	£25.12



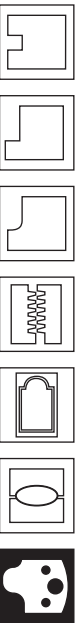
Knives	IT/33 019 60	£30.82
Limitors	IT/34 019 60	£25.12



Knives	IT/33 020 60	£30.82
Limitors	IT/34 020 60	£25.12



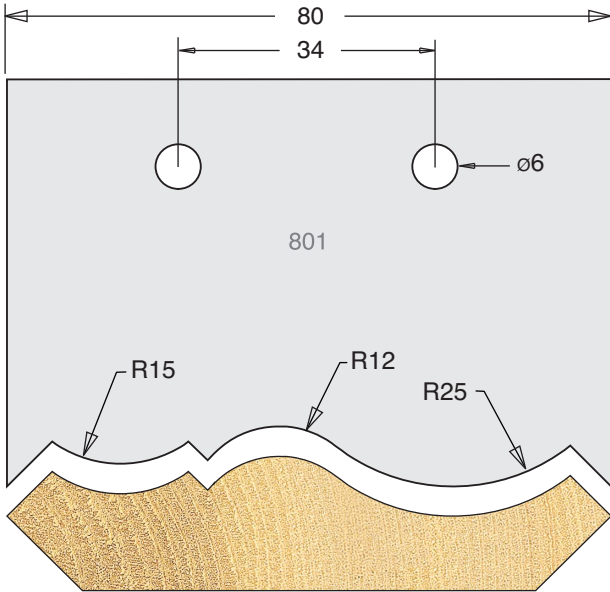
Knives	IT/33 021 60	£30.82
Limitors	IT/34 021 60	£25.12



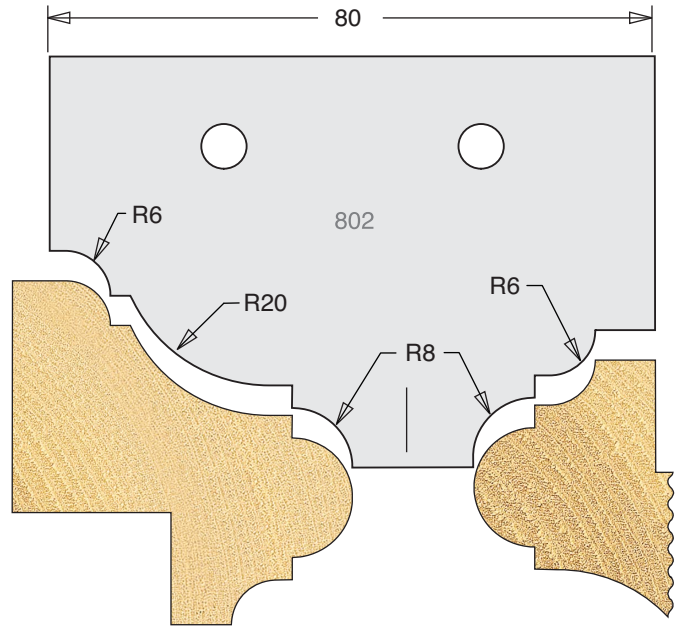
All blades sold as a pair
 All prices are exclusive of VAT

All drawings are actual size
Profile drawing shows back of knife

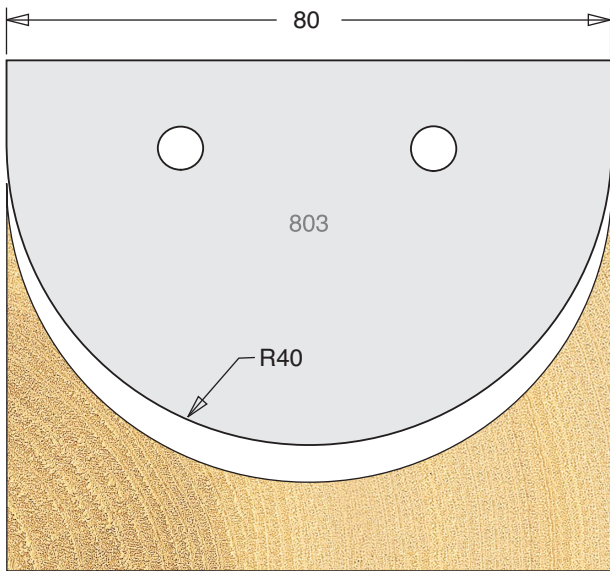
HIGH SPEED STEEL MULTI PROFILE CUTTERS - 80X5.5MM



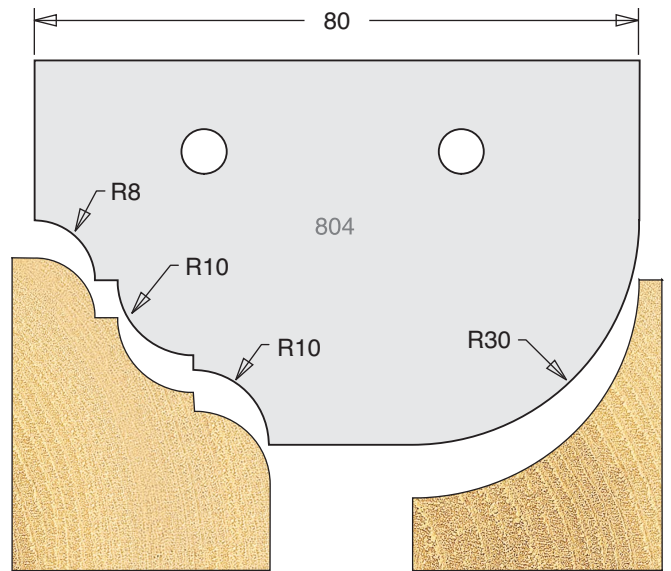
HSS Knives	IT/33 801 80	£107.65
Limitors	IT/34 801 80	£84.81



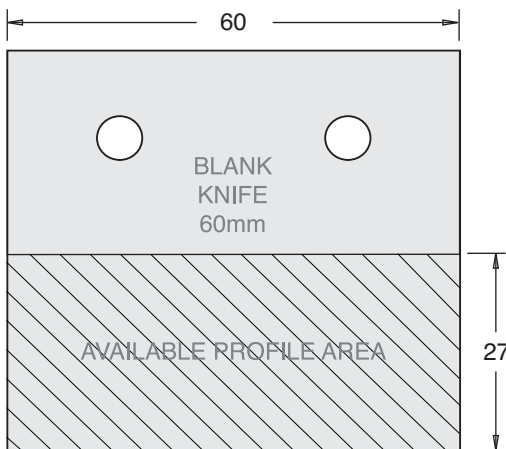
HSS Knives	IT/33 802 80	£107.65
Limitors	IT/34 802 80	£84.81



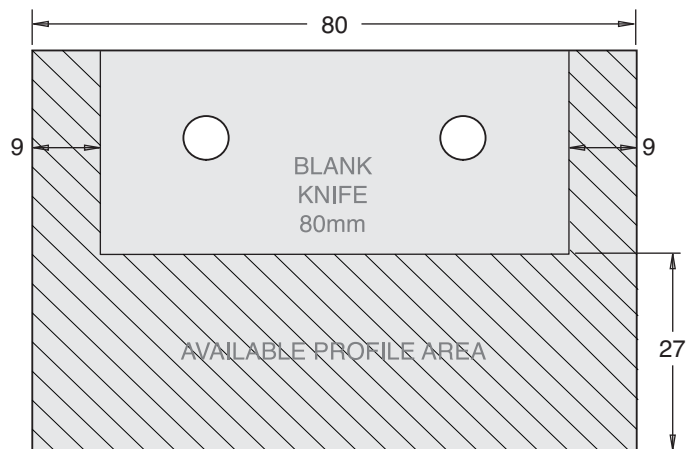
HSS Knives	IT/33 803 80	£107.65
Limitors	IT/34 803 80	£84.81



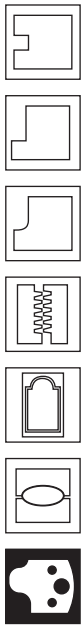
HSS Knives	IT/33 804 80	£107.65
Limitors	IT/34 804 80	£84.81



Tool Steel	IT/330BL60	£17.01
High Speed Steel	IT/ST/HSSB03	£53.93
Limitors	IT/340BL60	£12.91



High Speed Steel	IT/ST/HSSB04	£77.20
Limitors	IT/ST/BL04	£40.12



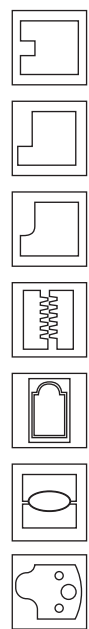
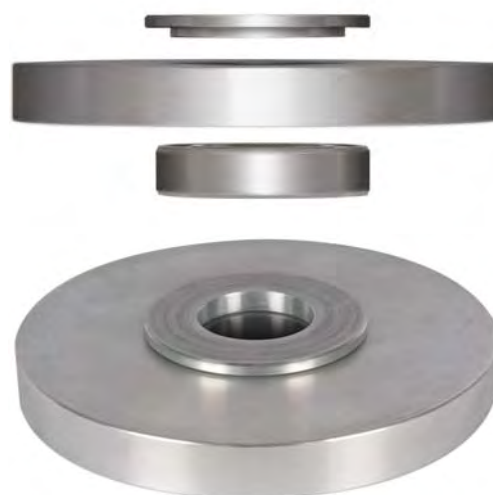
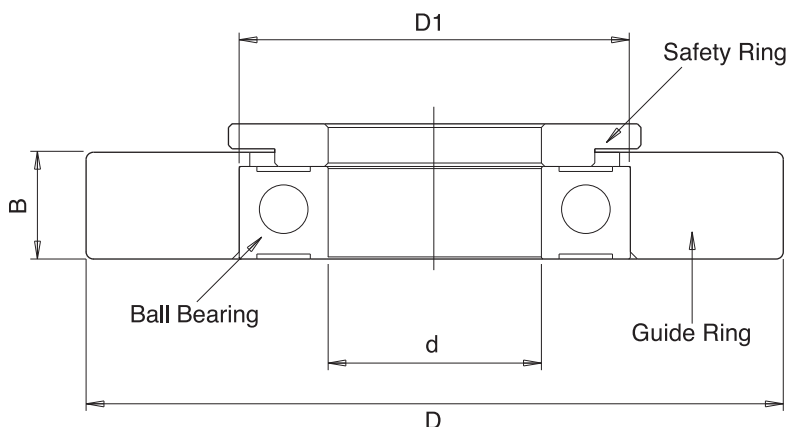
All blades sold as a pair
All prices are exclusive of VAT

BALL BEARING GUIDE RINGS

- A complete range of alloy guide rings for use in conjunction with a ball bearing and security ring.
- Enables cutter blocks to be used with a template or directly onto the workpiece for shaping work.
- Choose required diameter guide ring from this table and corresponding ball bearing and safety ring from the second table depending on shaft diameter.

D	D1	B	Description	Product Ref.	Stock	Price
75	55	15	Guide Ring	IT/192 581 0	Y	£20.54
80	55	15	Guide Ring	IT/192 582 0	Y	£21.58
85	55	15	Guide Ring	IT/192 583 0	Y	£22.60
90	55	15	Guide Ring	IT/192 584 0	Y	£23.63
95	55	15	Guide Ring	IT/192 585 0	Y	£24.66
100	55	15	Guide Ring	IT/192 586 0	Y	£29.80
105	55	15	Guide Ring	IT/192 587 0	Y	£30.82
110	55	15	Guide Ring	IT/192 588 0	Y	£31.85
115	55	15	Guide Ring	IT/192 589 0	Y	£33.46
120	55	15	Guide Ring	IT/192 590 0	Y	£23.97
125	55	15	Guide Ring	IT/192 591 0	Y	£40.08
130	55	15	Guide Ring	IT/192 592 0	Y	£26.25
135	55	15	Guide Ring	IT/192 593 0	Y	£30.82
140	55	15	Guide Ring	IT/192 594 0	Y	£31.98
145	55	15	Guide Ring	IT/192 595 0	Y	£34.25
150	55	15	Guide Ring	IT/192 596 0	Y	£35.38

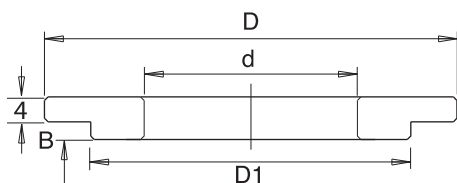
D1	B	Description	30mm Bore d	1 1/4" Bore d	Stock	Price
55	13	Ball Bearing	IT/191 023 0	IT/191 023 7	Y	£21.58
		Safety Ring	IT/192 510 0	IT/192 510 7	Y	£9.25



REDUCTION BUSH

- Steel reduction bush to reduce bore of a 1-1/4" bore block to 30mm. To be used as a pair.

D	D1	d	B	Product Ref.	Stock	Price
55	1 1/4"	30	5	IT/BUSH/31830	Y	£11.87

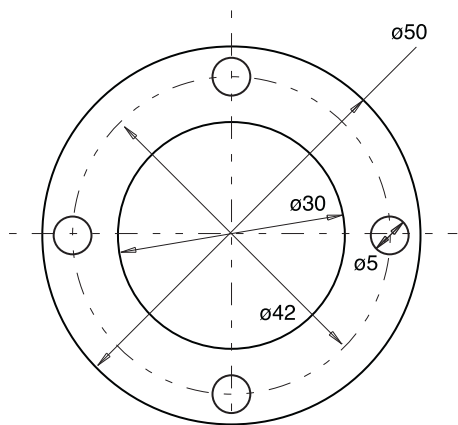


KEY

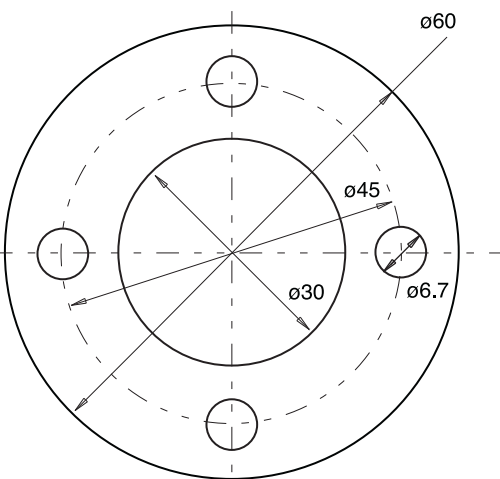
Stock - Y means normally kept in stock for next day delivery.
 N means not normally held in stock, delivery in a short time.

SPACERS

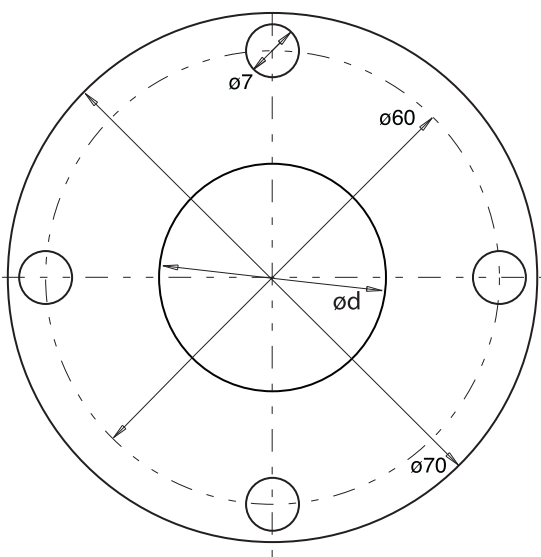
- High quality, fully ground, steel spacer rings complete with pin holes.
- Suitable for use with our range of adjustable grooving cutters or can be used with standard groovers for comb jointing.



ØD	B	30mm Bore d	1-1/4" Bore d	Stock	Price
50	0.1	IT/192 611 0	IT/192 611 7	Y	£2.28
50	0.2	IT/192 612 0	IT/192 612 7	Y	£2.28
50	0.5	IT/192 615 0	IT/192 615 7	Y	£5.60
50	1.0	IT/192 616 0	IT/192 616 7	Y	£2.28
50	2.0	IT/192 617 0	IT/192 617 7	Y	£2.28
50	3.0	IT/192 618 0	IT/192 618 7	Y	£2.63



ØD	B	30mm Bore d	1-1/4" Bore d	Stock	Price
60	0.1	IT/192 791 1	IT/192 791 7	Y	£2.73
60	0.2	IT/192 792 1	IT/192 792 7	Y	£2.73
60	0.5	IT/192 793 5	IT/192 793 7	Y	£6.62
60	1.0	IT/192 794 1	IT/192 794 7	Y	£2.73
60	5.0	IT/192 795 1	IT/192 795 7	Y	£7.20



ØD	B	30mm Bore d	Stock	Price
70	0.1	IT/192 690 1	Y	£2.28
70	0.2	IT/192 691 1	Y	£2.28
70	0.3	IT/192 692 1	Y	£2.28
70	0.4	IT/192 693 1	Y	£2.57
70	0.5	IT/192 693 5	Y	£5.65
70	1.0	IT/192 694 1	Y	£2.28
70	2.0	IT/192 695 1	Y	£2.28
70	3.0	IT/192 696 1	Y	£3.33
70	4.0	IT/192 697 1	Y	£3.33
70	5.0	IT/192 697 5	Y	£6.16
70	8.0	IT/192 698 1	Y	£5.60
70	10.0	IT/192 699 1	Y	£8.22
70	20.0	IT/192 699 2	Y	£17.01

KEY

Stock - Y means normally kept in stock for next day delivery.
 N means not normally held in stock, delivery in a short time.

SOLID CABINET DOOR SYSTEM

The Cabinet Door System runs on a spindle moulder with a flush mounted sliding table. It has been designed to offer maximum flexibility and will produce nine different profile styles with four possible panel groove thicknesses. This enables you to produce door thicknesses from 18mm to 35mm and up to 36 different door configurations.

- With the CDS you can manufacture any size of cabinet door or internal door quickly and accurately on a spindle moulder with a flush mounted sliding table.
- Set the machine in seconds with the supplied setting gauge and do not alter it to produce all of the profiles and scribes.
- Dispenses with lengthy set-up and costly test cuts.
- All the tools and spacers are numbered and stacked on to the machine according to the steps shown on the wallchart.
- The CDS can manufacture nine different door profile styles.
- Four panel door thicknesses can be accommodated - 4mm, 5mm, 6mm & 9mm.
- Door thicknesses from 18mm to 35mm can be produced.



SPINDLE MOULDER MINIMUM REQUIREMENTS:

- Minimum 1.5KW (2HP) motor power.
- 140mm hood aperture.
- 140mm inside hood diameter, 180mm required for panel raiser IT/7781011 (see page 52).
- 30mm shaft diameter.
- 100mm usable shaft height.



HOW TO SET THE MACHINE

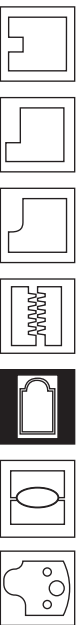
- STEP 1.** Ensure both in-feed and out-feed fences are running parallel to the front of the spindle moulder.
- STEP 2.** Set the tenoning fence so that it is exactly at 90 degrees to the in-feed fence.
- STEP 3.** Raise the spindle shaft to its maximum height. Place the setting gauge onto the shaft of the spindle with the largest diameter at the bottom. Place a straight edge across the front of the fences and adjust the fences so that the straight edge just touches the outer edge of the largest diameter of the setting gauge (see picture below). Lock the fences off.



- STEP 4.** Stand the straight edge on its side and raise the spindle shaft until the bottom of the straight edge just touches the top of the widest part of the setting gauge (see picture below). Lock the spindle height adjustment.



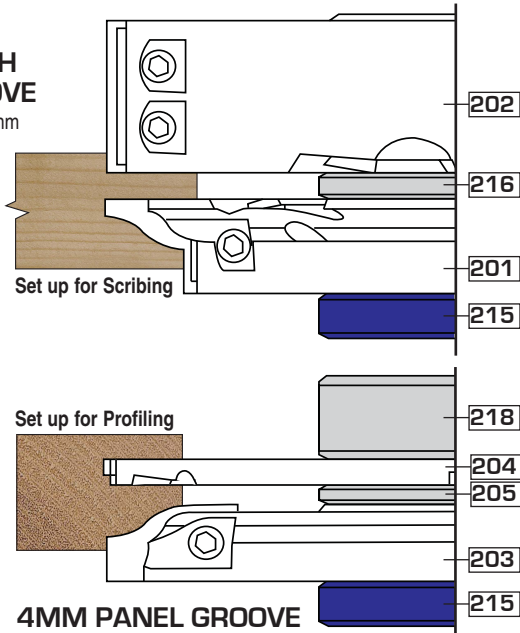
- STEP 5.** Remove the setting gauge. The blue spacer can now be installed onto the spindle. The machine is now set to run the CDS without any further alteration.





OGEE WITH 4MM GROOVE

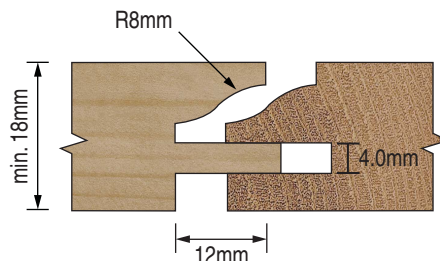
Set creates an R8mm ogee profile with 4mm panel groove.



	30mm Bore	Stock	Price
Style A	IT/CDS/SET011	Y	£679.97

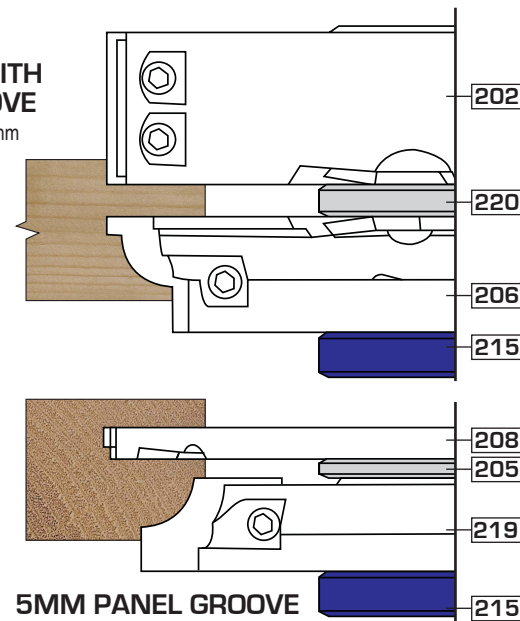
SPARE KNIVES & SCORERS

Tool No.	Spare Knife Ref.	Price	Spare Scorer Ref.	Price
202	IT/310 861 1	£15.81	IT/300 850 2/10	£27.75
201	IT/320 835 8	£15.81	IT/300 850 2/10	£27.75
204	IT/300 850 1	£6.67	IT/300 850 2/10	£27.75
203	IT/320 836 1	£18.03	N/A	N/A



OVOLO WITH 5MM GROOVE

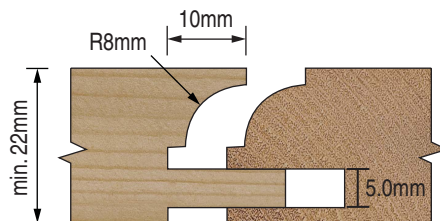
Set creates an R8mm ovolo profile with 5mm panel groove.



	30mm Bore	Stock	Price
Style B	IT/CDS/SET021	Y	£681.03

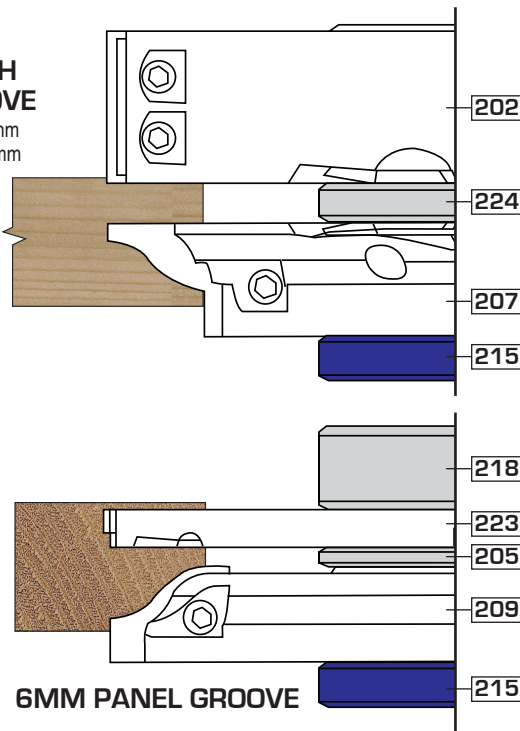
SPARE KNIVES & SCORERS

Tool No.	Spare Knife Ref.	Price	Spare Scorer Ref.	Price
202	IT/310 861 1	£15.81	IT/300 850 2/10	£27.75
206	IT/320 836 2	£16.97	IT/300 850 2/10	£27.75
208	IT/300 850 4	£7.20	IT/300 850 2/10	£27.75
219	IT/320 836 0	£14.42	N/A	N/A



OGEE WITH 6MM GROOVE

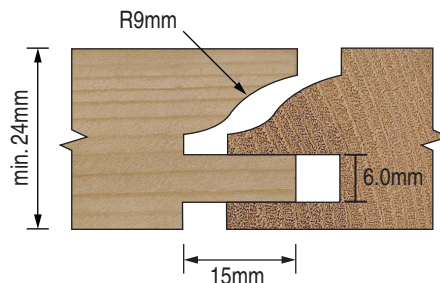
Set creates an R9mm ogee profile with 6mm panel groove.



	30mm Bore	Stock	Price
Style C	IT/CDS/SET031	Y	£701.19

SPARE KNIVES & SCORERS

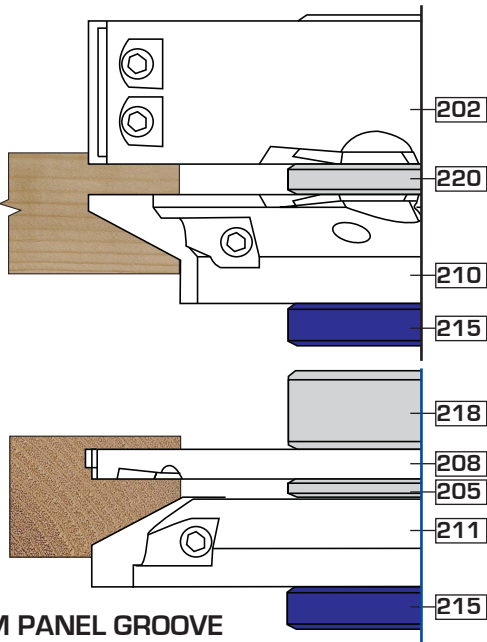
Tool No.	Spare Knife Ref.	Price	Spare Scorer Ref.	Price
202	IT/310 861 1	£15.81	IT/300 850 2/10	£27.75
207	IT/320 836 5	£21.96	IT/300 850 2/10	£27.75
223	IT/300 850 5	£8.22	IT/300 850 2/10	£27.75
209	IT/320 836 7	£18.03	IT/300 850 2/10	£27.75





BEVEL WITH 5MM GROOVE

Set creates bevel profile with 5mm panel groove.

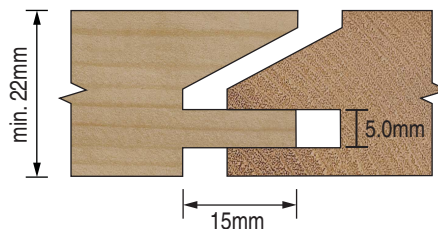


5MM PANEL GROOVE

	30mm Bore	Stock	Price
Style D	IT/CDS/SET041	Y	£666.18

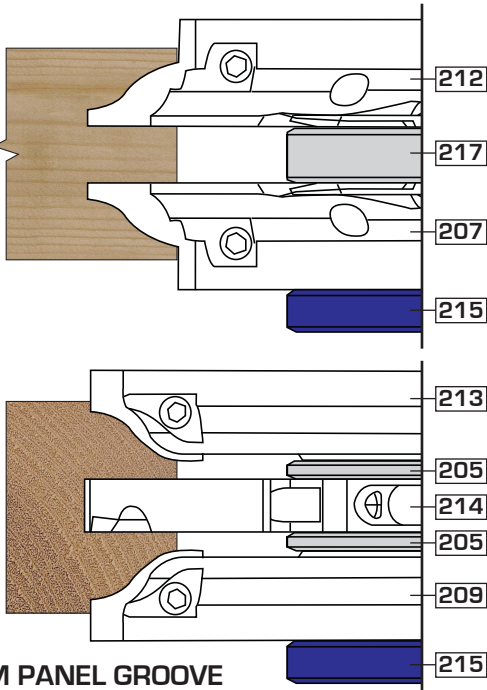
SPARE KNIVES & SCORERS

Tool No.	Spare Knife Ref.	Price	Spare Scorer Ref.	Price
202	IT/310 861 1	£15.81	IT/300 850 2/10	£27.75
210	IT/320 836 8	£18.03	IT/300 850 2/10	£27.75
208	IT/300 850 4	£7.20	IT/300 850 2/10	£27.75
211	IT/320 836 9	£18.03	N/A	N/A



OGEE WITH 9MM GROOVE

Set creates a R9mm ogee profile with 9mm panel groove.

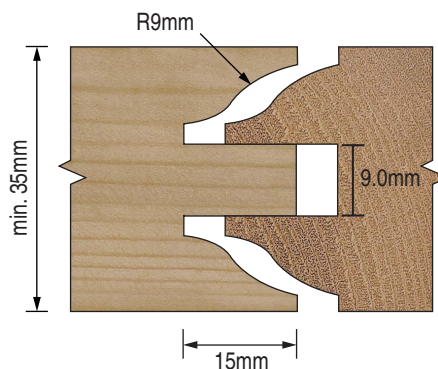


9MM PANEL GROOVE

	30mm Bore	Stock	Price
Style E	IT/CDS/SET051	Y	£863.49

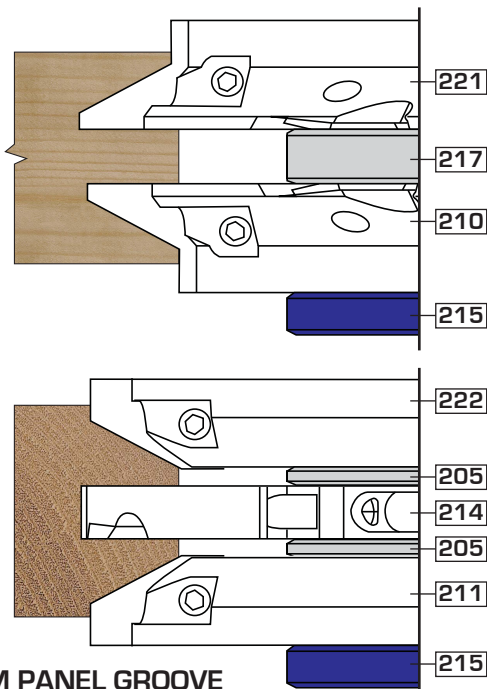
SPARE KNIVES & SCORERS

Tool No.	Spare Knife Ref.	Price	Spare Scorer Ref.	Price
212	IT/320 836 5L	£21.96	IT/300 850 2/10	£27.75
207	IT/320 836 5	£21.96	IT/300 850 2/10	£27.75
213	IT/320 836 7L	£18.03	N/A	N/A
214	IT/320 837 5	£8.38	IT/300 850 2/10	£27.75
209	IT/320 836 7	£18.03	N/A	N/A



BEVEL WITH 9MM GROOVE

Set creates a bevel profile with 9mm panel groove.

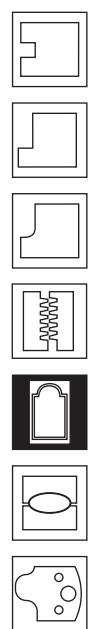
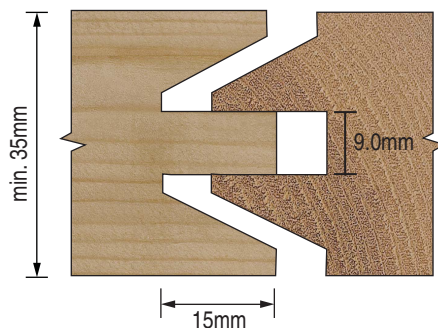


9MM PANEL GROOVE

	30mm Bore	Stock	Price
Style F	IT/CDS/SET061	Y	£834.85

SPARE KNIVES & SCORERS

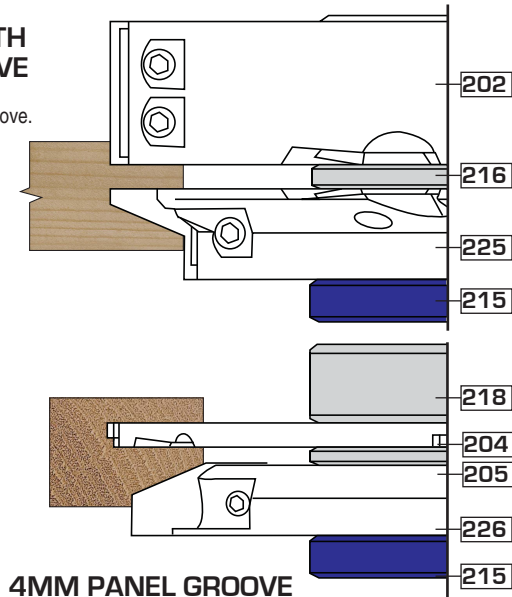
Tool No.	Spare Knife Ref.	Price	Spare Scorer Ref.	Price
221	IT/320 836 8L	£18.35	IT/300 850 2/10	£27.75
210	IT/320 836 8	£18.03	IT/300 850 2/10	£27.75
222	IT/320 836 9L	£17.72	N/A	N/A
214	IT/320 837 5	£8.38	IT/300 850 2/10	£27.75
211	IT/320 836 9	£18.03	N/A	N/A





BEVEL WITH 4MM GROOVE

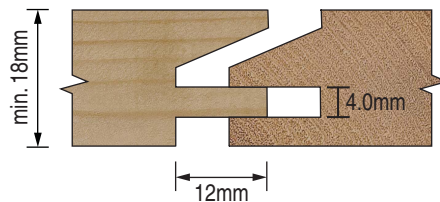
Set creates a bevel profile with 4mm groove.



	30mm Bore	Stock	Price
Style G	IT/CDS/SET071	Y	£667.24

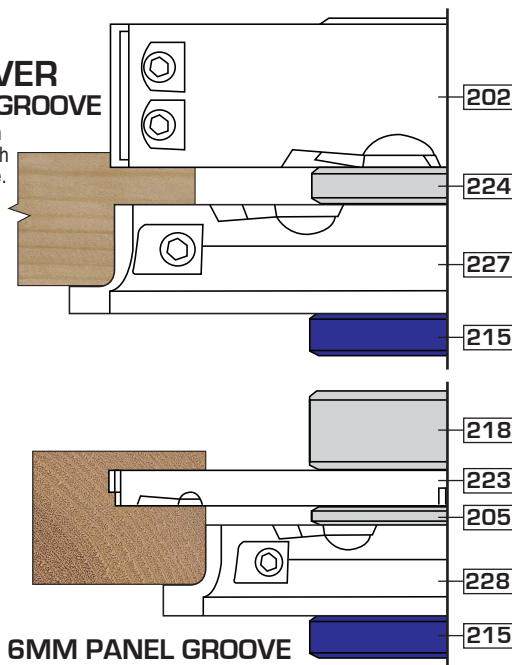
SPARE KNIVES & SCORERS

Tool No.	Spare Knife Ref.	Price	Spare Scorer Ref.	Price
202	IT/310 861 1	£15.81	IT/300 850 2/10	£27.75
225	IT/320 836 6	£18.35	IT/300 850 2/10	£27.75
204	IT/300 850 1	£6.67	IT/300 850 2/10	£27.75
226	IT/320 837 0	£17.72	N/A	N/A



ROUNDROVER WITH 6MM GROOVE

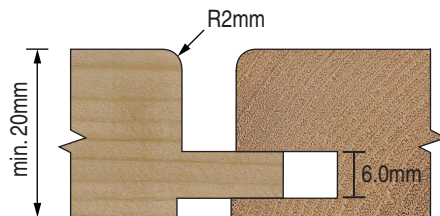
Set creates a R2mm roundover profile with a 6mm panel groove.



	30mm Bore	Stock	Price
Style H	IT/CDS/SET081	Y	£688.46

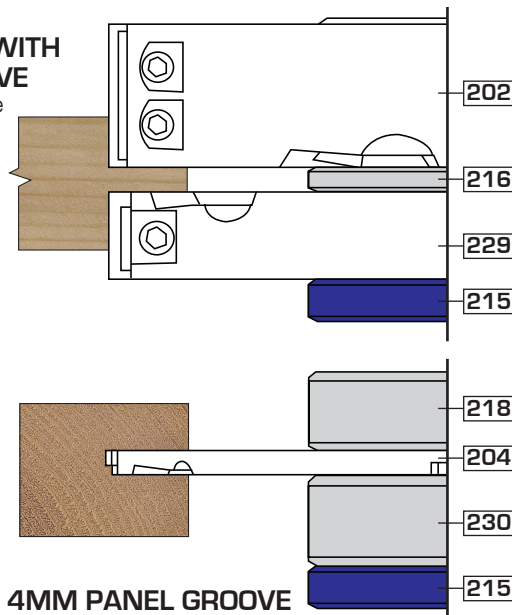
SPARE KNIVES & SCORERS

Tool No.	Spare Knife Ref.	Price	Spare Scorer Ref.	Price
202	IT/310 861 1	£15.81	IT/300 850 2/10	£27.75
227	IT/320 837 1	£17.29	IT/300 850 2/10	£27.75
223	IT/300 850 5	£8.22	IT/300 850 2/10	£27.75
228	IT/320 837 2	£16.87	N/A	N/A



SQUARE WITH 4MM GROOVE

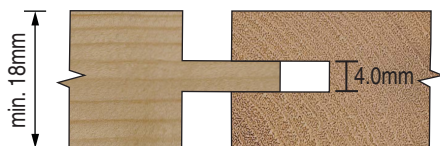
Set creates a square profile with 4mm panel groove.



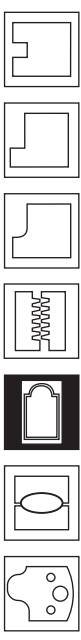
	30mm Bore	Stock	Price
Style J	IT/CDS/SET091	Y	£504.94

SPARE KNIVES & SCORERS

Tool No.	Spare Knife Ref.	Price	Spare Scorer Ref.	Price
202	IT/310 861 1	£15.81	IT/300 850 2/10	£27.75
229	IT/320 837 3	£5.94	IT/300 850 2/10	£27.75
204	IT/300 850 1	£6.67	IT/300 850 2/10	£27.75



TOOL NO.	PRODUCT REF.	DESCRIPTION	LIST PRICE	Style A	Style B	Style C	Style D	Style E	Style F	Style G	Style H	Style J	COMPLETE SET
				IT/CDS/SET011 £679.97	IT/CDS/SET021 £681.03	IT/CDS/SET031 £701.19	IT/CDS/SET041 £666.18	IT/CDS/SET051 £663.49	IT/CDS/SET061 £834.85	IT/CDS/SET071 £667.24	IT/CDS/SET081 £688.46	IT/CDS/SET091 £504.94	
201	IT/710 552 011	Scribe Head - R8	£170.79	1									1
202	IT/710 552 021	Rebate Head	£132.60	1	1	1	1			1	1	1	1
203	IT/710 552 031	Profile Head - R8	£133.66	1									1
204	IT/710 552 041	4mm Groover Head	£167.61	1						1		1	1
205	IT/192 433 1	3mm Spacer	£12.73	1	1	1	1	2	2	1	1		2
206	IT/710 552 061	Scribe Head - R8	£170.79		1								1
207	IT/710 552 071	Scribe Head - R9	£170.79			1		1					1
208	IT/710 552 081	5mm Groover Head	£167.61		1		1						1
209	IT/710 552 091	Profile Head - R9	£134.72			1		1					1
210	IT/710 552 101	Scribe Head - D	£157.00				1		1				1
211	IT/710 552 111	Profile Head - D	£133.66				1		1				1
212	IT/710 552 121	Scribe Head - R9	£170.79					1					1
213	IT/710 552 131	Profile Head - R9	£134.72					1					1
214	IT/710 552 141	9mm Groover Head	£178.21					1	1				1
215	IT/192 434 1	7mm Spacer	£13.79	1	1	1	1	1	1	1	1	1	1
216	IT/192 435 1	4mm Spacer	£12.73	1						1		1	1
217	IT/192 436 1	9mm Spacer	£13.79					1	1				1
218	IT/192 437 1	13mm Spacer	£14.85	1		1	1			1	1	1	1
219	IT/710 552 191	Profile Head - R8	£149.57		1								1
220	IT/192 438 1	5mm Spacer	£12.73		1		1						1
221	IT/710 552 211	Scribe Head - F	£157.00						1				1
222	IT/710 552 221	Profile Head - F	£134.72						1				1
223	IT/710 552 231	6mm Groover Head	£187.76			1					1		1
224	IT/192 439 1	6mm Spacer	£12.73			1					1		1
225	IT/710 552 251	Scribe Head - G	£157.00							1			1
226	IT/710 552 261	Profile Head - G	£134.72							1			1
227	IT/710 552 271	Scribe Head - R2	£161.24								1		1
228	IT/710 552 281	Profile Head - R2	£131.54								1		1
229	IT/710 552 291	Scribe Head - J	£129.42									1	1
230	IT/192 440 1	15mm Spacer	£12.73									1	1
N/A	IT/512 009 90	Setting Gauge	£21.22	1	1	1	1	1	1	1	1	1	1



Complete Set to produce styles A-J
 30mm Bore Stock Price
 Styles A-J IT/CDS/SET/A1 Y £3,505.94

modular
WINDOW
SYSTEM

MODULAR WINDOW SYSTEM

8 Different Window Styles, one machine, one set-up.
Designed for small to medium sized joinery companies,
builders and developers to enable them to produce timber
windows quickly and accurately on a spindle moulder with a
sliding table for a low investment cost.

- With the MWS you can manufacture any size of window in 2 - 3 hours, not the typical 6 plus hours.
- Enables you to respond quickly and consistently to customer requests. Even small quantities of windows can be manufactured in a very cost effective way.
- Main benefit of the MWS is that the machine is set in seconds with the supplied setting gauge.
- All of the slots, tenons and profiles on the outer frame and sashes on eight different styles of window are machined without altering the spindle moulder.
- Dispenses with lengthy set-up and costly test cuts, which requires the attention of a skilled joiner/machinist and invariably reduced profit margins.
- All the joints on outer frame and sashes are comb joints without the need for length stops. All timber sections are simply cut to aperture size.
- **Only available through a network of dedicated dealers.**



FOR FULL DETAILS

Phone 01923 249911 for
your free Modular Window
System Catalogue.


Ref. **CAT/MWS**

Also available for viewing
online.


www.trend-industrial.com



CONCEPT EXAMPLE

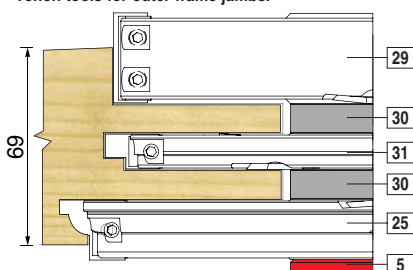
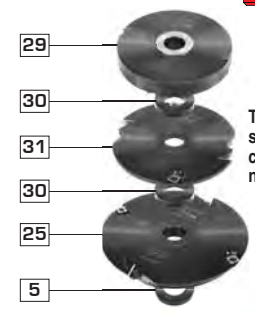


1




**HIGH PERFORMANCE
OVOLO WINDOW**

STEP 1 OF 8 STEPS
Tenon tools for outer frame jambs.

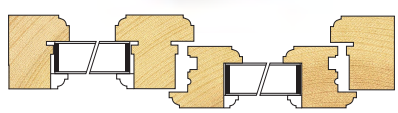



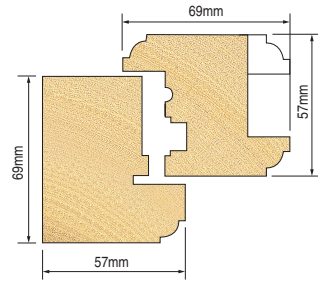
Tools and spacers clearly numbered.

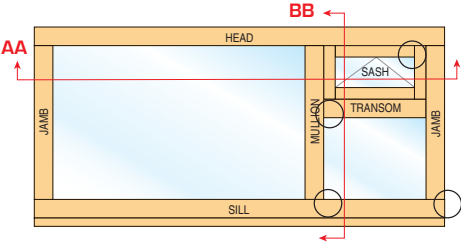
Side View BB




Side View AA








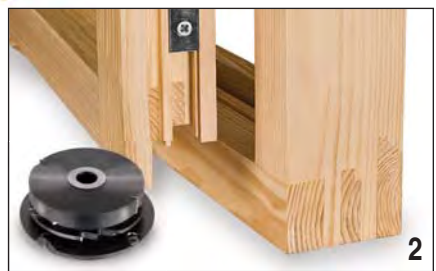


Clear step by step instructions on sheets and wallcharts.



Finished machined jamb joint.

HP *30 Splay* **HIGH PERFORMANCE 20° SPLAY WINDOW**



HP *TF* **HIGH PERFORMANCE TRADITIONAL FLUSH OVOLO WINDOW**



TF *Ovolo* **TRADITIONAL FLUSH OVOLO WINDOW**



SP *Ovolo* **STORM PROOF OVOLO CASEMENT WINDOW**



SB *YS* **SLIDING BOX SASH OVOLO WINDOW**



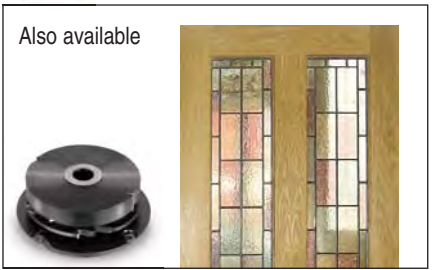
EJ *MA* **EJMA 9° SPLAY WINDOW**




FS *g Splay* **FULL SPLAY 9° WINDOW**



DT *Ovolo* **DOOR & DOOR FRAME TOOLING**



Enter your postcode to find your nearest dealer with full details including stock profile, services and directions.



Enter your Postcode

[Full dealer search page](#)

FEATURES, ADVANTAGES & BENEFITS

SET MACHINE ONCE SETTING GAUGE



The dual function setting gauge is included in each style and is used to set the spindle height and backfence. All the MWS styles and sizes of windows can then be machined without any changes being required to the machine once set-up.



Single Set-up System
Means it takes seconds to set up the system and this is done only once.

SET BACKFENCE ONCE



The gauge is placed on the spindle and the backfence is adjusted in line with the outer edge of the setting gauge and then not adjusted again.

SET HEIGHT ONCE

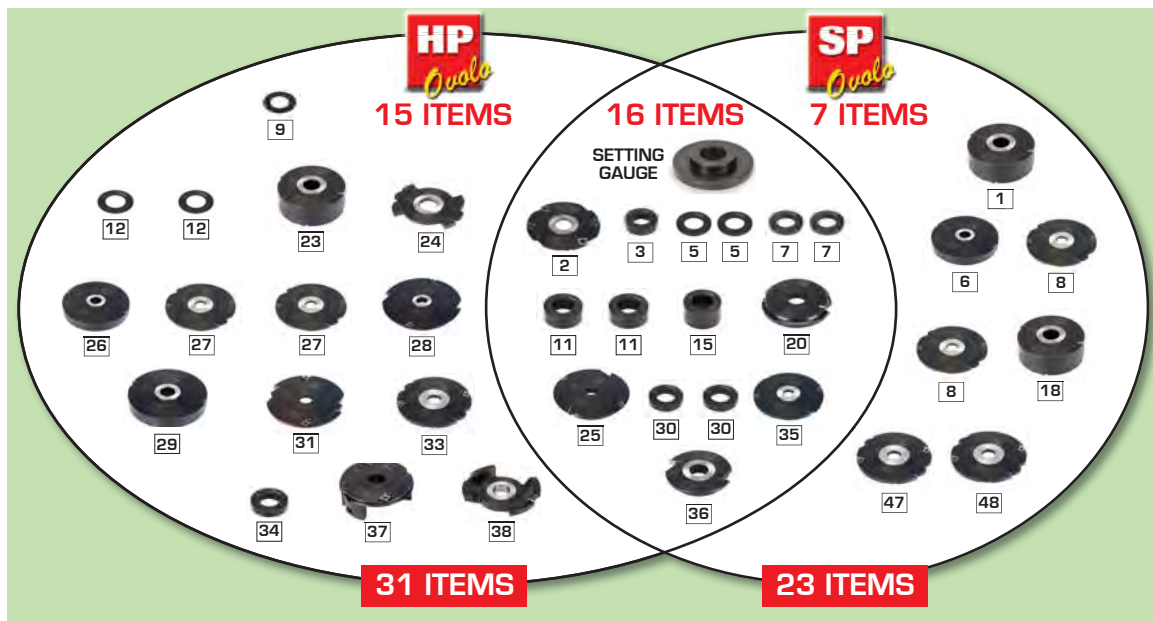


The top face is then set flush with the table surface in seconds. This does not need to be adjusted again.



The Modular Window System does not require the alteration of the height and depth of the machine's back fence throughout production.

TOOLS ARE SHARED BETWEEN STYLES

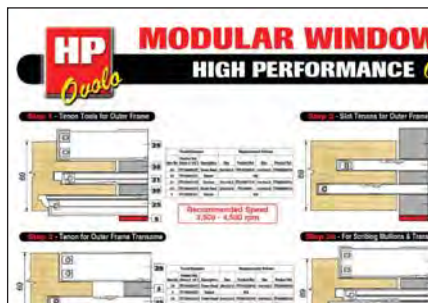


Shared Tooling
Tools are shared between most styles of windows so extra tools can simply be purchased.

In this example, if the High Performance System is purchased, only an additional 7 items are required to convert to the Storm Proof style.

MAKING WINDOWS BY NUMBERS

WALLCHARTS



Each Modular Window system is supplied with step-by-step wallcharts and individual specification sheets.

NO TEST CUTS



The MWS is easy to use and eliminates costly errors as there are no adjustments needed. All tools and spacers are clearly numbered.

CLEAR NUMBERING



Changing tools takes seconds! Each tool has an individual number for identification to speed up the assembly process for each operation.

NO NEED FOR STOPS



Stops are not required when machining slots and tenons; making errors with the joint production is virtually impossible.

REPLACEABLE TIPS



The MWS uses replaceable tipped tools with Industry Standard tips, giving consistent profiles.

DOUBLE SLOT & TENONS



Complies with BWF recommendations for double slot and tenon on frame joints. Fewer mortises saves time and possible discrepancies.

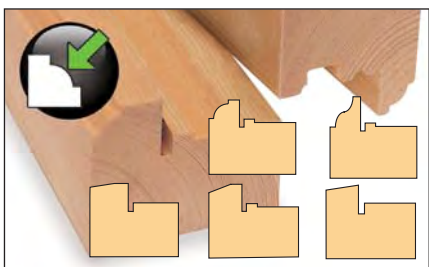
QUICK TO USE



You can produce a window including sash complete with ironmongery within 2 to 3 working hours.

SYSTEM FLEXIBILITY

OTHER PROFILE STYLES



The MWS has 10 alternative moulding profiles including ovolo, lamb's tongue, 9°, 20° and full splay, making it very versatile.

NO SLEEVES



The MWS system does not use sleeved tools for increased flexibility.

SIMPLE CALCULATIONS



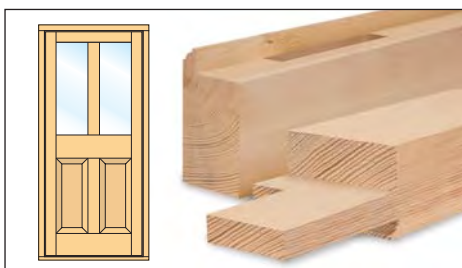
Components are cut to length to suit the aperture size.

TRANSOM & MULLION JOINT



The system includes the necessary tools to produce the tenons for transoms and mullions. You can also scribe a mechanical joint, fixed with dowels or screws.

DOOR & FRAME PRODUCTION



Doors can also be manufactured with the system. An ovolo profile with 15mm rebate as standard and 18mm rebate (on request) can be produced.

THICKER SECTIONS



Non standard wider sections can be created with the addition of extra spacers and tools.

TIP SETTING GAUGE



A setting gauge is supplied with most tools to accurately set tip position when they are replaced or rotated.

BUILT-IN ACCURACY



Accuracy is built in to the tooling and initial set-up. So no test run is required.

NO RESTRICTIONS



Other window systems have requirements for a dedicated machine or need a separate machine, one for producing the tenons, and one for profiling.

GASKET COMPRESSION



The MWS has the flexibility to adjust the Euro groove position to accommodate different gasket thicknesses without additional tools being required.

TSM100 SPINDLE MOULDER



The TSM100 spindle moulder is a sturdily built machine complete with a flush mounted sliding table suitable for the modern joinery shop.

- Cast, precision ground, steel table ensures maximum stability and durability.
- Five spindle speeds allow for a wide variety of different tooling to be used on the machine from small diameter profiling blocks to large diameter tenon heads for window and door production.
- The machine has been specially developed to suit our Window System tooling and can produce all eight different styles of windows and doors (optional tenon hood required for doors).

TECHNICAL SPECIFICATION:

Motor Power	7.5HP (5.5KW) S1 (100%)
Table Dimensions	1100mm x 940mm
Sliding Table Dimensions	1100mm x 300mm
Vertical Spindle Stroke	140mm
Spindle Diameter	30mm (or 1-1/4")
Spindle Speeds (RPM)	2500, 4200, 6000, 8000, 10000
Maximum Useable Spindle Height	140mm
Maximum Tooling Diameter (with Std. Hood)	240mm
Maximum Tooling Diameter (with Tenon Hood)	300mm
Maximum Tooling Diameter below table	300mm
Table Height	920mm
Diameter of Dust Extraction Port in hood	120mm
Diameter of Dust Extraction Port at base of machine	80mm
Overall Dimensions (L x W x H)	1200mm x 1240mm x 1200mm
Voltage	415V/50Hz (3 phase)
Acoustic Power	98.7 dB(A)
Net Weight	560kg

FLUSH MOUNTED SLIDING TABLE



The aluminium flush mounted table runs on 8 high precision bearings ensuring smooth running and outstanding accuracy. A slot in the table is used for locating the tenoning clamp or the optional Tenoning Table.

CONTROL PANEL



The control panel is mounted on the right hand side of the machine and contains the soft start (automatic star, delta) button, speed indication lights and emergency stop button. The optional electronic spindle height and tilting adjustment controls would also be mounted here.

TENONING CLAMP



The eccentric clamp comes as standard with the machine and fits into the locating slot on the sliding table. It provides firm and positive clamping, essential when performing any tenoning operation.

BACKFENCE ADJUSTMENT

The backfence has an integral micro-adjuster which controls the position of the complete back fence.

RING FENCE

The ring fence comes as standard with the machine and replaces the back fence when producing curved and circular work. It comes complete with adjustable guarding, lead on finger and a 100mm diameter dust extraction port.

DUSTHOOD

The hood has a 120mm port for dust extraction. Also a secondary 80mm outlet at the rear of the machine provides extraction from beneath the spindle.

OPTIONAL EXTRAS**POWER FEED**

An essential piece of equipment on any spindle moulder. It provides a good finish on the material due to a constant feed speed and is the safest way to profile on a spindle moulder. It must be used with our Modular Window System. Our power feed comes complete with 3 rollers and 4 different speeds. It connects directly to a 3 phase socket on the rear of the machine.

SAFETY FENCE

The optional alloy safety fence has individually adjustable sliding fingers that can be locked in position around the cutter heads. It provides good support to the work piece when profiling and prevents the work piece from 'dropping in'.

TABLE EXTENSION

The optional table extension enables larger sections to be machined easily. Particularly suitable if you want to produce doors and larger windows.

TENONING HOOD

The optional tenoning hood is suitable for use with larger diameter tools (up to 300mm diameter); particularly tenon tools for producing doors.

TENONING TABLE

The 20mm thick tenoning table fits easily into the slot on the sliding table. Used in conjunction with the tenoning clamp and fence; suitable for getting smaller workpieces closer to the cutter heads.

Description

TSM100 Spindle Moulder 30mm Shaft (CE) 7.5HP

Product Ref

TSM100/75/30

Price

£6,999.00

TSM100 Spindle Moulder 1 1/4" Shaft (CE) 7.5HP

TSM100/75/114






£6,999.00

Optional Equipment

Power Feed	TPF100	£726.96
Alloy Safety Fence	TSM100/ASF	£544.96
Manually Operated Tilting Spindle (-5 degrees, +45 degrees)	TSM100/MTS	£753.48
Electronic Tilting Spindle (-5 degrees, +45 degrees)	TSM100/ETS	£797.16
Electronic Spindle Rise and Fall	TSM100/ERF	£1,354.08
20mm Thick Tenoning Table	TSM100/TT	£223.60
Tenoning Hood	TSM100/TH	£248.56
Front Table Extension	TSM100/FTE	£666.12
Digital Spindle Height Read Out	TSM100/DHR	£524.16
Reverse Spindle Rotation	TSM100/RSR	£163.80
Speed Change by Inverter (800 to 10,000 RPM)	TSM100/SCI	£2,293.20
Motor Power Increase (per HP)	TSM100/IHP	£80.81
Speed Read Out	TSM100/SRO	£262.08
Combined Motorized Rise & Fall/tilt (Complete with Control Panel)	TSM100/MRFT	£2,151.24
Suspended "Eye Level" Control Panel	TSM100/HCP	£742.56



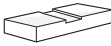


All prices are exclusive of VAT

SPARE PARTS FOR SPINDLE TOOLING





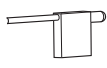
		Wedge		TC Blade Nut		TC Blade Nut		Torx Screw		Hex/Set Screw	
											
Product Ref.	Page	Product Ref.	Price	Product Ref.	Price	Product Ref.	Price	Product Ref.	Price	Product Ref.	Price
IT/710 136 1(7)	87	IT/ST/SW02	£12.32							IT/193 026 6	£1.60
IT/721 004 1(7)	27			IT/192 350 0	£1.03	IT/192 360 0	£1.59	IT/193 028 0	£1.60		
IT/721 005 1(7)	27			IT/192 350 0	£1.03	IT/192 360 0	£1.59	IT/193 030 0	£2.06		
IT/721 006 1(7)	27			IT/192 350 0	£1.03	IT/192 360 0	£1.59	IT/193 031 0	£5.14		
IT/721 007 1(7)	27			IT/192 350 0	£1.03	IT/192 360 0	£1.59	IT/193 028 0	£1.60		
IT/721 009 1(7)	27			IT/192 350 0	£1.03	IT/192 360 0	£1.59	IT/193 030 0	£2.06		
IT/721 013 1(7)	27	IT/199 031 0	£7.20					IT/193 370 0	£1.60	IT/193 060 0	£1.03
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IT/721 015 1(7)	27	IT/199 032 0	£7.20					IT/193 370 0	£1.60	IT/193 060 0	£1.03
IT/721 016 1(7)	27	IT/199 031 0	£7.20					IT/193 370 0	£1.60	IT/193 060 0	£1.03
IT/721 017 1(7)	27	IT/199 023 0	£6.74					IT/193 370 0	£1.60	IT/193 060 0	£1.03
IT/721 018 1(7)	27	IT/199 032 0	£7.20					IT/193 370 0	£1.60	IT/193 060 0	£1.03
IT/721 020 4	56			IT/192 350 0	£1.03	IT/192 360 0	£1.59	IT/193 028 0	£1.60		
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IT/721 031 1(7)	42							IT/193 425 0	£4.34		
IT/721 032 1(7)	42							IT/193 430 0	£4.34		
IT/721 033 1(7)	42	IT/199 050 1	£9.82							IT/193 026 5	£1.03
IT/721 034 1(7)	42	IT/199 050 2	£9.82							IT/193 026 5	£1.03
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IT/721 036 1(7)	42	IT/199 050 4	£10.28							IT/193 026 5	£1.03
IT/721 037 1(7)	42	IT/199 050 5	£11.87							IT/193 026 5	£1.03
IT/721 038 1(7)	42	IT/199 050 6	£12.32							IT/193 026 5	£1.03
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IT/722 003 1(7)	28	IT/199 032 0	£7.20					IT/193 370 0	£1.60	IT/193 060 0	£1.03
IT/722 004 1(7)	28	IT/199 031 0	£7.20					IT/193 370 0	£1.60	IT/193 060 0	£1.03
IT/722 005 1(7)	28	IT/199 032 0	£7.20					IT/193 370 0	£1.60	IT/193 060 0	£1.03
IT/722 007 1(7)	36	IT/199 033 0	£7.20					IT/193 370 0	£1.60	IT/193 026 5	£1.03
IT/722 008 1(7)	30	IT/199 031 0	£7.20					IT/193 370 0	£1.60	IT/193 060 0	£1.03
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IT/722 030 1(7)	29	IT/199 031 0	£7.20	IT/192 350 0	£1.03	IT/192 360 0	£1.59	IT/193 028 0	£1.60	IT/193 060 0	£1.03
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IT/733 004 1(7)	33	IT/199 033 6	£9.82					IT/193 370 0	£1.60	IT/193 065 0	£1.03
IT/733 005 1(7)	33	IT/199 027 5	£8.79					IT/193 370 0	£1.60	IT/193 026 5	£1.03
IT/733 006 1(7)	33	IT/199 027 5	£8.79					IT/193 370 0	£1.60	IT/193 026 5	£1.03
IT/733 102 1(7)	32	IT/199 048 0	£8.22					IT/193 370 0	£1.60	IT/193 026 5	£1.03
IT/733 103 1(7)	32	IT/199 033 7	£9.82					IT/193 370 0	£1.60	IT/193 026 5	£1.03
IT/733 105 1(7)	32	IT/199 051 0	£7.76					IT/193 370 0	£1.60	IT/193 026 5	£1.03
IT/733 106 1(7)	32	IT/199 048 0	£8.22					IT/193 370 0	£1.60	IT/193 026 5	£1.03
IT/733 201 1(7)	32	IT/199 046 0	£8.22					IT/193 370 0	£1.60	IT/193 065 0	£1.03
IT/733 302 1(7)	32	IT/199 048 0	£8.22					IT/193 370 0	£1.60	IT/193 026 5	£1.03
IT/733 405 1(7)	35	IT/199 033 0	£7.20							IT/193 026 5	£1.03
IT/733 510 1(7)	34	IT/199 040 2	£10.12							IT/193 026 5	£1.03
IT/734 014 1(7)	38	IT/199 082 0	£5.83							IT/193 049 4	£1.03
IT/734 015 1(7)	38	IT/199 082 0	£5.83							IT/193 049 4	£1.03
IT/734 016 1(7)	38	IT/199 083 0	£5.60							IT/193 049 4	£1.03
IT/734 017 1(7)	38	IT/199 083 0	£5.60							IT/193 049 4	£1.03

SPARE PARTS FOR SPINDLE TOOLING







Torx Key		Hex Key		Gauge		Spacer Set		Locking Wedge		
										
Product Ref.	Price	Product Ref.	Price	Product Ref.	Price	Product Ref.	Price	Product Ref.	Price	Product Ref.
		IT/194 003 6	£5.14							IT/710 136 1(7)
IT/194 110 0	£2.06									IT/721 004 1(7)
IT/194 110 0	£2.06									IT/721 005 1(7)
IT/194 110 0	£2.06									IT/721 006 1(7)
IT/194 110 0	£2.06									IT/721 007 1(7)
IT/194 110 0	£2.06									IT/721 009 1(7)
IT/194 106 0	£6.74	IT/194 008 0	£2.06	IT/760 102 5	£3.33					IT/721 013 1(7)
IT/194 106 0	£6.74	IT/194 008 0	£2.06	IT/760 102 5	£3.33					IT/721 014 1(7)
IT/194 106 0	£6.74	IT/194 008 0	£2.06	IT/760 102 5	£3.33					IT/721 015 1(7)
IT/194 106 0	£6.74	IT/194 008 0	£2.06	IT/760 102 5	£3.33					IT/721 016 1(7)
IT/194 106 0	£6.74	IT/194 008 0	£2.06	IT/760 102 5	£3.33					IT/721 017 1(7)
IT/194 106 0	£6.74	IT/194 008 0	£2.06	IT/760 102 5	£3.33					IT/721 018 1(7)
IT/194 110 0	£2.06									IT/721 020 4
IT/194 008 0	£2.06									IT/721 025 4
										IT/721 030 1(7)
IT/194 110 0	£2.06									IT/721 031 1(7)
IT/194 101 5	£3.09									IT/721 032 1(7)
		IT/194 003 5	£4.10							IT/721 033 1(7)
		IT/194 003 5	£4.10							IT/721 034 1(7)
		IT/194 003 5	£4.10							IT/721 035 1(7)
		IT/194 003 5	£4.10							IT/721 036 1(7)
		IT/194 003 5	£4.10							IT/721 037 1(7)
		IT/194 003 5	£4.10							IT/721 038 1(7)
		IT/194 110 0	£2.06			IT/192 690 0*	£15.41			IT/722 001 1(7)
IT/194 106 0	£6.74	IT/194 008 0	£2.06	IT/760 102 5	£3.33	IT/192 691 0*	£17.01			IT/722 002 1(7)
IT/194 106 0	£6.74	IT/194 008 0	£2.06	IT/760 102 5	£3.33	IT/192 692 0*	£22.60			IT/722 003 1(7)
IT/194 106 0	£6.74	IT/194 008 0	£2.06	IT/760 102 5	£3.33	IT/192 691 0*	£17.01			IT/722 004 1(7)
IT/194 106 0	£6.74	IT/194 008 0	£2.06	IT/760 102 5	£3.33	IT/192 692 0*	£22.60			IT/722 005 1(7)
IT/194 106 0	£6.74	IT/194 003 5	£4.10	IT/760 102 5	£3.33	IT/192 693 0*	£32.43			IT/722 007 1(7)
IT/194 106 0	£6.74	IT/194 008 0	£2.06	IT/760 102 5	£3.33					IT/722 008 1(7)
IT/194 106 0	£6.74	IT/194 008 0	£2.06	IT/760 102 5	£3.33					IT/722 009 1(7)
IT/194 110 0	£2.06					IT/192 690 0*	£15.41			IT/722 010 1(7)
IT/194 106 0	£6.74	IT/194 008 0	£2.06	IT/760 102 5	£3.33					IT/722 011 1(7)
IT/194 106 0	£6.74	IT/194 008 0	£2.06	IT/760 102 5	£3.33					IT/722 012 1(7)
IT/194 110 0	£2.06									IT/722 016 1(7)
IT/194 110 0	£2.06									IT/722 017 1(7)
IT/194 110 0	£2.06	IT/194 008 0	£2.06	IT/760 102 5	£3.33	IT/192 619 0(7)	£18.03			IT/722 030 1(7)
IT/194 106 0	£6.74	IT/194 003 5	£4.10	IT/760 102 5	£3.33	IT/192 698 0	£40.08			IT/722 032 1
IT/194 106 0	£6.74	IT/194 003 5	£4.10	IT/760 102 5	£3.33	IT/192 678 7	£40.08			IT/722 032 7
IT/194 106 0	£6.74	IT/194 003 5	£4.10	IT/760 102 5	£3.33	IT/192 699 0	£48.30			IT/722 033 1
IT/194 106 0	£6.74	IT/194 003 5	£4.10	IT/760 102 5	£3.33	IT/192 679 7	£48.30			IT/722 033 7
IT/194 106 0	£6.74	IT/194 003 5	£4.10	IT/760 105 5	£3.33					IT/733 004 1(7)
IT/194 106 0	£6.74	IT/194 003 5	£4.10	IT/760 105 5	£3.33					IT/733 005 1(7)
IT/194 106 0	£6.74	IT/194 003 5	£4.10	IT/760 105 5	£3.33					IT/733 006 1(7)
IT/194 106 0	£6.74	IT/194 003 5	£4.10	IT/760 105 5	£3.33					IT/733 102 1(7)
IT/194 106 0	£6.74	IT/194 003 5	£4.10	IT/760 105 5	£3.33					IT/733 103 1(7)
IT/194 106 0	£6.74	IT/194 003 5	£4.10	IT/760 105 5	£3.33					IT/733 105 1(7)
IT/194 106 0	£6.74	IT/194 003 5	£4.10	IT/760 105 5	£3.33					IT/733 106 1(7)
IT/194 106 0	£6.74	IT/194 003 5	£4.10	IT/760 105 5	£3.33					IT/733 201 1(7)
IT/194 106 0	£6.74	IT/194 003 5	£4.10	IT/760 105 5	£3.33					IT/733 302 1(7)
		IT/194 003 5	£4.10							IT/733 405 1(7)
		IT/194 003 5	£4.10							IT/733 510 1(7)
		IT/194 003 6	£5.14					IT/199 403 1	£12.32	IT/734 014 1(7)
		IT/194 003 6	£5.14					IT/199 403 1	£12.32	IT/734 015 1(7)
		IT/194 003 6	£5.14					IT/199 403 1	£12.32	IT/734 016 1(7)
		IT/194 003 6	£5.14					IT/199 403 1	£12.32	IT/734 017 1(7)

SPARE PARTS FOR SPINDLE TOOLING

		Wedge 		Wedge 		Torx Screw 		Hex/Set Screw 		Torx/Hex Key 	
Product Ref.	Page	Product Ref.	Price	Product Ref.	Price	Product Ref.	Price	Product Ref.	Price	Product Ref.	Price
IT/734 030 1(7)	39	IT/199 080 0	£5.37					IT/193 065 0	£1.03	IT/194 003 5	£4.10
IT/734 035 1(7)	39	IT/199 081 0	£4.34					IT/193 065 0	£1.03	IT/194 003 5	£4.10
IT/741 001 1(7)	47	IT/199 049 5	£8.22					IT/193 049 5	£1.03	IT/194 003 5	£4.10
IT/741 004 1(7)	48	IT/199 037 2	£10.51					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/741 005 1(7)	48	IT/199 037 2	£10.51					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/741 006 1(7)	48	IT/199 037 3	£7.20					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/742 031 1(7)	50	IT/199 042 5	£8.22					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/742 032 1(7)	50	IT/199 042 5	£8.22					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/742 033 1(7)	50	IT/199 042 5	£8.22					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/742 034 1(7)	50	IT/199 042 5	£8.22					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/751 010 1(7)	54	IT/199 032 7	£6.36	IT/199 033 5	£7.20			IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/751 103 1(7)	44	IT/199 091 0	£11.87					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/751 105 1(7)	44	IT/199 091 0	£11.87					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/751 106 1(7)	44	IT/199 091 0	£11.87					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/751 108 1(7)	44	IT/199 091 0	£11.87					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/751 110 1(7)	44	IT/199 092 0	£12.32					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/751 112 1(7)	44	IT/199 092 5	£12.32					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/751 115 1(7)	44	IT/199 093 0	£13.36					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/751 120 1(7)	44	IT/199 094 0	£14.38					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/751 125 1(7)	44	IT/199 095 0	£15.41					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/751 130 1(7)	44	IT/199 096 0	£15.41					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/752 030 1(7)	40	IT/199 032 7	£6.36	IT/199 033 7	£9.82			IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/752 033 1(7)	40	IT/199 032 7	£6.36					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/752 109 1(7)	45	IT/199 048 6	£8.22					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/752 110 1(7)	45	IT/199 048 5	£9.25					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/752 210 1(7)	31	IT/199 038 5	£7.20			IT/193 370 0	£1.60	IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/752 410 1(7)	41	IT/199 032 7	£6.36					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/752 428 1(7)	41	IT/199 032 7	£6.36					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/752 435 1(7)	41	IT/199 032 7	£6.36					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/752 440 1(7)	41	IT/199 097 0	£13.36					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/752 445 1(7)	41	IT/199 098 0	£13.93					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/752 450 1(7)	41	IT/199 099 0	£14.38					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/752 510 1(7)	46	IT/199 085 0	£10.28					IT/193 026 7	£1.59	IT/194 003 6	£5.14
IT/752 515 1(7)	46	IT/199 086 0	£11.87					IT/193 026 7	£1.59	IT/194 003 6	£5.14
IT/752 603 1(7)	43	IT/199 032 6	£7.20					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/752 604 1(7)	43	IT/199 032 6	£7.20					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/752 605 1(7)	43	IT/199 032 7	£6.36					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/752 606 1(7)	43	IT/199 032 7	£6.36					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/752 608 1(7)	43	IT/199 046 5	£7.20					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/752 610 1(7)	43	IT/199 046 5	£7.20					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/752 612 1(7)	43	IT/199 046 6	£7.76					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/752 615 1(7)	43	IT/199 046 1	£8.22					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/752 620 1(7)	43	IT/199 045 0	£9.25					IT/193 026 5	£1.03	IT/194 003 5	£4.10
IT/776 006 1(7)	57	IT/199 801 0	£12.32					IT/193 026 6	£1.60	IT/194 003 6	£5.14
IT/776 007 1(7)	57	IT/199 801 0	£12.32					IT/193 026 6	£1.60	IT/194 003 6	£5.14
IT/776 008 1(7)	57	IT/199 801 0	£12.32					IT/193 026 6	£1.60	IT/194 003 6	£5.14
IT/776 010 1	57	IT/199 801 0	£12.32					IT/193 026 6	£1.60	IT/194 003 6	£5.14
IT/778 101 1(7)	52	IT/199 801 0	£12.32					IT/193 026 6	£1.60	IT/194 003 6	£5.14
IT/776 020 1(7)	57	IT/199 801 0	£12.32					IT/193 026 6	£1.60	IT/194 003 6	£5.14
IT/956 003 03	11										
IT/ST/AG 001(7)	29	IT/199 031 0	£7.20	IT/ST/SW03	£12.18	IT/193 370 0	£1.60	IT/193 060 0	£1.03	IT/194 008 0	£2.06
IT/ST/ML 001(7)	49	IT/ST/SW01	£11.87					IT/HS/01	£1.03	IT/HK/3	£1.03
IT/ST/PH 001(7)	37					IT/TS/01	£2.28			IT/TK/01	£3.33
IT/ST/PH 011(7)	37					IT/TS/01	£2.28			IT/TK/01	£3.33

SPARE PARTS FOR SPINDLE TOOLING



Hex key		Gauge		Locking Wedge		Spacer Set		
								
Product Ref.	Price	Product Ref.	Price	Product Ref.	Price	Product Ref.	Price	Product Ref.
IT/194 003 6	£5.14			IT/199 403 0	£12.32			IT/734 030 1(7)
IT/194 003 6	£5.14			IT/199 403 0	£12.32			IT/734 035 1(7)
								IT/741 001 1(7)
								IT/741 004 1(7)
								IT/741 005 1(7)
								IT/741 006 1(7)
								IT/742 031 1(7)
								IT/742 032 1(7)
								IT/742 033 1(7)
								IT/742 034 1(7)
IT/194 020 0	£1.60							IT/751 010 1(7)
		IT/760 110 0	£3.33					IT/751 103 1(7)
		IT/760 110 0	£3.33					IT/751 105 1(7)
		IT/760 110 0	£3.33					IT/751 106 1(7)
		IT/760 110 0	£3.33					IT/751 108 1(7)
		IT/760 110 0	£3.33					IT/751 110 1(7)
		IT/760 110 0	£3.33					IT/751 112 1(7)
		IT/760 110 0	£3.33					IT/751 115 1(7)
		IT/760 110 0	£3.33					IT/751 120 1(7)
		IT/760 110 0	£3.33					IT/751 125 1(7)
		IT/760 110 0	£3.33					IT/751 130 1(7)
						IT/192 693 0*	£32.43	IT/752 030 1(7)
						IT/192 693 0*	£32.43	IT/752 033 1(7)
								IT/752 109 1(7)
								IT/752 110 1(7)
								IT/752 210 1(7)
								IT/752 410 1(7)
								IT/752 428 1(7)
								IT/752 435 1(7)
								IT/752 440 1(7)
								IT/752 445 1(7)
								IT/752 450 1(7)
								IT/752 510 1(7)
								IT/752 515 1(7)
								IT/752 603 1(7)
								IT/752 604 1(7)
								IT/752 605 1(7)
								IT/752 606 1(7)
								IT/752 608 1(7)
								IT/752 610 1(7)
								IT/752 612 1(7)
								IT/752 615 1(7)
								IT/752 620 1(7)
								IT/776 006 1(7)
								IT/776 007 1(7)
								IT/776 008 1(7)
								IT/776 010 1
								IT/778 101 1(7)
								IT/776 020 1(7)
						IT/192 060 0 (20mm Bore)	£9.82	IT/956 003 03
		IT/760 102 5	£3.33					IT/ST/AG 001(7)
								IT/ST/ML 001(7)
								IT/ST/PH 001(7)
								IT/ST/PH 011(7)

DRILLING TOOLS

A COMPREHENSIVE RANGE OF MICRO-GRAIN, TUNGSTEN CARBIDE TIPPED DRILLING TOOLS

TCT
TUNGSTEN
CARBIDE
TIPPED

INCLUDING:

- Dowel drills and boring bits which provide a complete solution to all hole boring operations in the woodworking industry.
- The **DTEC** range of drills which are precision ground and have the longest durability of all the drills shown in the range and are suitable for drilling the most abrasive materials.
- Left-hand rotation identified by the colour orange.



FOR CNC & AUTOMATIC DRILLING MACHINES

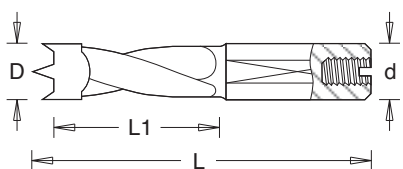
Dowel Drills	109 - 110
Through Hole Drills	111
Hinge Boring	112
Chucks	112
Quick Change Drill Holders	113
Bushes	113
Twist Drills & Countersinks	114
Reciprocating Slot Mortise Bits	114



LIP & SPUR DOWEL DRILLS - 10MM SHANK



- 2 flute Tungsten Carbide Tipped drill with centre point and two spurs.
- Suitable for drilling blind holes in natural wood and man-made boards (including paper/plastic coated and veneered).
- Drills have a cylindrical shank with flat and length adjusting screw.
- For use on automatic and point-to-point boring machines.
- Spare screw reference IT/193 000 0.



L = 57.5mm L1 = 27mm Ød = 10mm

øD	Right	Left	Stock	Price
4.0	IT/201 281 7	IT/201 282 7	Y	£16.79
5.0	IT/201 001 7	IT/201 004 7	Y	£12.00
5.1	IT/201 005 7	IT/201 006 7	N	£13.79
5.2	IT/201 020 7	IT/201 021 7	Y	£13.82
6.0	IT/201 007 7	IT/201 010 7	Y	£12.00
7.0	IT/201 008 7	IT/201 011 7	Y	£13.24
8.0	IT/201 013 7	IT/201 016 7	Y	£13.24
8.2	IT/201 029 7	IT/201 030 7	Y	£14.38
9.0	IT/201 015 7	IT/201 017 7	Y	£14.38
10.0	IT/201 019 7	IT/201 022 7	Y	£14.38
11.0	-	IT/201 024 7	Y	£16.79
12.0	IT/201 025 7	-	Y	£16.79

L = 70mm L1 = 35mm Ød = 10mm

øD	Right	Left	Stock	Price
4.0	IT/201 287 7	IT/201 288 7	Y	£14.38
5.0	IT/201 031 7	IT/201 034 7	Y	£13.24
5.1	IT/201 035 7	IT/201 036 7	Y	£13.24
5.2	IT/201 274 7	IT/201 275 7	Y	£18.03
6.0	IT/201 037 7	IT/201 040 7	Y	£14.38
7.0	IT/201 038 7	IT/201 041 7	Y	£14.38
8.0	IT/201 043 7	IT/201 046 7	Y	£14.38
8.2	IT/201 232 7	IT/201 233 7	Y	£16.79
9.0	IT/201 047 7	IT/201 048 7	Y	£16.79
10.0	IT/201 049 7	IT/201 052 7	Y	£16.79
11.0	IT/201 062 7	IT/201 063 7	Y	£18.62
12.0	IT/201 055 7	IT/201 058 7	Y	£18.62

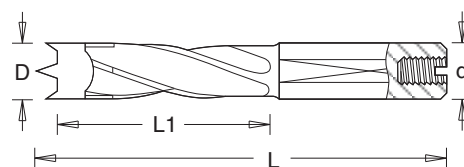
L = 77mm L1 = 44mm Ød = 10mm

øD	Right	Left	Stock	Price
5.0	IT/201 202 7	-	Y	£5.11
5.2	IT/201 204 7	IT/201 205 7	Y	£16.79
6.0	IT/201 206 7	IT/201 207 7	Y	£16.79
7.0	IT/201 208 7	IT/201 209 7	Y	£17.47
8.0	IT/201 210 7	IT/201 211 7	Y	£17.47
8.2	IT/201 242 7	IT/201 243 7	N	£19.18
9.0	IT/201 250 7	IT/201 251 7	Y	£19.18
10.0	IT/201 214 7	IT/201 215 7	Y	£19.18
12.0	IT/201 218 7	IT/201 219 7	Y	£19.87

LIP & SPUR DOWEL DRILLS - HOLLOW GROUND FLUTES - 10MM SHANK

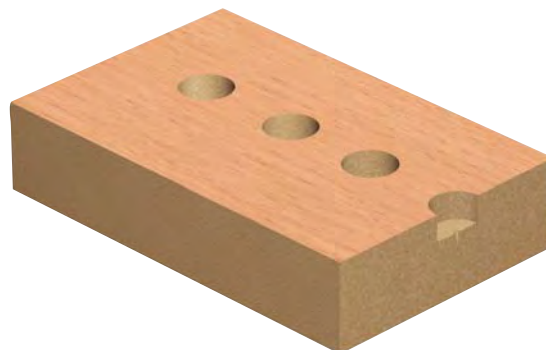


- 4 flute Tungsten Carbide Tipped dowel drill with centre point and two spurs.
- Hollow ground flutes help reduce tear out.
- Suitable for drilling blind holes in natural wood and man-made boards (including paper/plastic coated and veneered).
- Drills have a cylindrical shank with flat and length adjusting screw.
- For use on automatic and point-to-point boring machines.
- Spare screw reference IT/193 000 0.



L = 57.5mm L1 = 30mm Ød = 10mm

øD	Right	Left	Stock	Price
4.0	IT/201 401 7	IT/201 402 7	Y	£14.38
5.0	IT/201 403 7	IT/201 406 7	Y	£12.00
5.1	IT/201 460 7	IT/201 461 7	N	£14.38
5.2	IT/201 464 7	IT/201 465 7	N	£14.38
6.0	IT/201 407 7	IT/201 410 7	Y	£13.24
6.3	IT/201 471 7	IT/201 472 7	Y	£13.82
7.0	IT/201 411 7	IT/201 412 7	Y	£13.82
8.0	IT/201 413 7	IT/201 416 7	Y	£13.24
8.1	IT/201 503 7	IT/201 504 7	N	£15.65
8.2	IT/201 505 7	IT/201 506 7	Y	£15.65
9.5	IT/201 520 7	IT/201 521 7	Y	£15.65
10.0	IT/201 417 7	IT/201 420 7	Y	£15.65
11.0	IT/201 530 7	IT/201 531 7	Y	£16.79
12.0	IT/201 421 7	IT/201 424 7	Y	£16.79
12.7	IT/201 540 7	IT/201 541 7	Y	£17.47
13.0	IT/201 542 7	IT/201 543 7	Y	£20.44
14.0	IT/201 578 7	IT/201 579 7	Y	£22.84
15.0	IT/201 580 7	IT/201 581 7	Y	£25.23
16.0	IT/201 590 7	IT/201 591 7	Y	£26.38



KEY

Stock - Y means normally kept in stock for next day delivery.
N means not normally held in stock, delivery in a short time.

LIP & SPUR DOWEL DRILLS - HOLLOW GROUND FLUTES - CONTINUED

L = 70mm L1 = 43mm Ød = 10mm

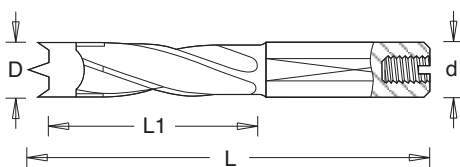
øD	Right	Left	Stock	Price
4.0	IT/201 432 7	IT/201 434 7	Y	£16.21
5.0	IT/201 433 7	IT/201 436 7	Y	£13.24
5.1	IT/201 428 7	IT/201 429 7	Y	£14.38
5.2	IT/201 430 7	IT/201 431 7	Y	£14.38
6.0	IT/201 437 7	IT/201 440 7	Y	£14.38
6.3	IT/201 458 7	IT/201 459 7	Y	£15.65
7.0	IT/201 441 7	IT/201 442 7	Y	£15.65
8.0	IT/201 443 7	IT/201 446 7	Y	£15.65
8.1	IT/201 487 7	IT/201 488 7	Y	£16.79
8.2	IT/201 489 7	IT/201 490 7	Y	£16.79
9.0	IT/201 491 7	IT/201 492 7	Y	£16.79
9.5	-	IT/201 494 7	Y	£16.79
10.0	IT/201 447 7	IT/201 450 7	Y	£16.79
11.0	IT/201 448 7	IT/201 455 7	Y	£18.62
12.0	IT/201 451 7	IT/201 454 7	Y	£18.62
12.7	IT/201 456 7	IT/201 457 7	Y	£19.18
14.0	IT/201 594 7	IT/201 595 7	Y	£23.41
15.0	IT/201 596 7	IT/201 597 7	Y	£25.80
16.0	IT/201 598 7	IT/201 599 7	Y	£27.06

L = 77mm L1 = 50mm Ød = 10mm

øD	Right	Left	Stock	Price
5.0	IT/201 473 7	IT/201 476 7	Y	£16.79
5.1	-	IT/201 545 7 +	Y	£17.47
5.2	IT/201 546 7	IT/201 547 7	Y	£17.47
6.0	IT/201 477 7	IT/201 478 7	Y	£17.47
8.0	IT/201 483 7	IT/201 486 7	Y	£17.47
8.1	IT/201 550 7	IT/201 551 7	N	£19.18
8.2	IT/201 554 7	IT/201 555 7	Y	£19.18
9.0	IT/201 560 7	-	Y	£19.18
10.0	IT/201 495 7	IT/201 496 7	Y	£19.18
11.0	IT/201 570 7	IT/201 571 7	Y	£22.27
12.0	IT/201 497 7	IT/201 498 7	Y	£22.27

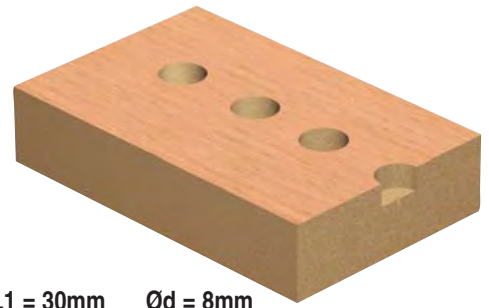
LIP & SPUR DOWEL DRILLS - HOLLOW GROUND FLUTES - 8MM SHANK

- 4 flute Tungsten Carbide Tipped dowel drill with centre point and two spurs.
- Hollow ground flutes help reduce tear out.
- Suitable for drilling blind holes in natural wood and man-made boards (including paper/plastic coated and veneered).
- Drills have a cylindrical shank with flat and length adjusting screw.
- For use on automatic and point-to-point boring machines.
- Spare screw reference IT/193 000 0.



KEY

Stock - Y means normally kept in stock for next day delivery.
N means not normally held in stock, delivery in a short time.



L = 55.5mm L1 = 30mm Ød = 8mm

øD	Right	Left	Stock	Price
5.0	IT/201 403 5	IT/201 406 5	Y	£12.00
6.0	IT/201 407 5	IT/201 410 5	Y	£13.24
8.0	IT/201 413 5	IT/201 416 5	Y	£13.24
9.0	IT/201 510 5	IT/201 511 5	Y	£15.65
10.0	IT/201 417 5	IT/201 420 5	Y	£15.65
12.0	IT/201 421 5	IT/201 424 5	Y	£16.79

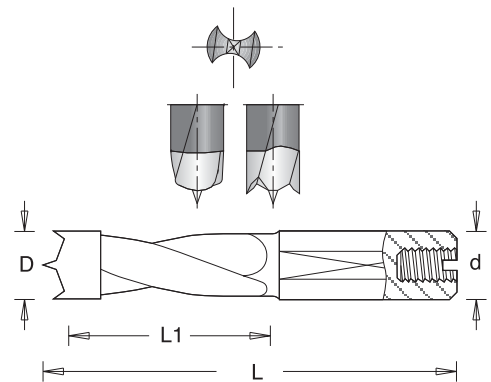
L = 67mm L1 = 40mm Ød = 8mm

øD	Right	Left	Stock	Price
5.0	IT/201 433 5	IT/201 436 5	Y	£13.24
6.0	IT/201 437 5	IT/201 440 5	Y	£14.38
7.0	IT/201 441 5	IT/201 442 5	Y	£15.65
8.0	IT/201 443 5	IT/201 446 5	Y	£15.65
9.0	IT/201 491 5	IT/201 492 5	N	£16.79
10.0	IT/201 447 5	-	N	£16.79
12.0	IT/201 451 5	IT/201 454 5	N	£18.62

LIP & SPUR DOWEL DRILLS - 10MM SHANK



- Solid carbide drill head, 2 fluted dowel drill with centre point and two spurs.
- Radius spurs and solid carbide head will outperform standard dowel drills many times.
- Suitable for drilling blind holes in natural wood and man-made boards (including paper/plastic coated and veneered).
- Drills have a cylindrical shank with flat and length adjusting screw.
- For use on automatic & point-to-point boring machines.
- Spare screw reference IT/193 000 0.



L = 57.5mm L1 = 27mm Ød = 10mm

øD	Right	Left	Stock	Price
5.0	IT/201 705 7	IT/201 706 7	Y	£14.38
8.0	IT/201 713 7	IT/201 716 7	Y	£16.79
10.0	IT/201 722 7	IT/201 723 7	Y	£19.18

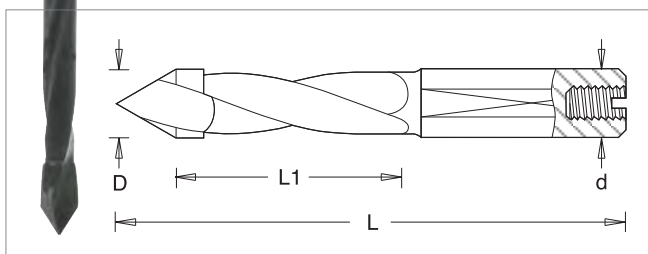
L = 70mm L1 = 35mm Ød = 10mm

øD	Right	Left	Stock	Price
5.0	IT/201 731 7	IT/201 734 7	Y	£16.79
8.0	IT/201 743 7	IT/201 746 7	Y	£18.03
10.0	IT/201 745 7	IT/201 748 7	Y	£18.03

V-POINT THROUGH HOLE DRILLS - 10MM SHANK



- Tungsten Carbide Tipped dowel drill with v-point.
- Suitable for drilling tear free through holes in natural wood and man-made boards (including paper/plastic coated and veneered).
- Drills have a cylindrical shank with flat and length adjusting screw.
- For use on automatic and point-to-point boring machines.
- Spare screw reference IT/193 000 0.



L = 57.5mm L1 = 25mm Ød = 10mm

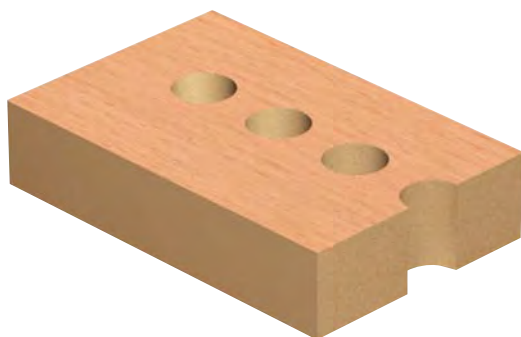
øD	Right	Left	Stock	Price
4.0	IT/201 600 7	IT/201 601 7	Y	£18.62
5.0	IT/201 604 7	IT/201 605 7	Y	£15.65
6.0	IT/201 606 7	IT/201 607 7	Y	£16.79
7.0	IT/201 650 7	IT/201 651 7	Y	£17.47
8.0	IT/201 608 7	IT/201 609 7	Y	£17.47
9.0	IT/201 656 7	IT/201 657 7	Y	£19.87
10.0	IT/201 612 7	IT/201 613 7	Y	£19.87

L = 70mm L1 = 40mm Ød = 10mm

øD	Right	Left	Stock	Price
5.0	IT/201 614 7	IT/201 615 7	Y	£17.47
6.0	IT/201 616 7	IT/201 617 7	Y	£18.62
7.0	IT/201 661 7	IT/201 662 7	Y	£19.18
8.0	IT/201 618 7	IT/201 619 7	Y	£19.18
9.0	IT/201 667 7	IT/201 668 7	Y	£23.41
10.0	IT/201 622 7	IT/201 623 7	Y	£23.41

L = 77mm L1 = 45mm Ød = 10mm

øD	Right	Left	Stock	Price
5.0	IT/201 624 7	IT/201 625 7	Y	£19.18
6.0	IT/201 626 7	IT/201 627 7	Y	£19.87
7.0	IT/201 631 7	IT/201 632 7	Y	£20.44
8.0	IT/201 628 7	IT/201 629 7	Y	£20.44
9.0	IT/201 637 7	IT/201 638 7	Y	£25.23
10.0	IT/201 641 7	IT/201 642 7	Y	£25.23



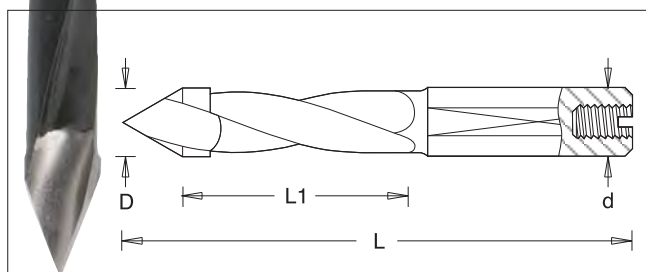
KEY

Stock - Y means normally kept in stock for next day delivery.
N means not normally held in stock, delivery in a short time.

V-POINT THROUGH HOLE DRILLS - 8MM SHANK



- Tungsten Carbide Tipped dowel drill with v-point.
- Suitable for drilling tear free through holes in natural wood and man-made boards (including paper/plastic coated and veneered).
- Drills have a cylindrical shank with flat and length adjusting screw.
- For use on automatic and point-to-point boring machines.
- Spare screw reference IT/193 000 0.



L = 55.5mm L1 = 25mm Ød = 8mm

øD	Right	Left	Stock	Price
5.0	IT/201 604 5	IT/201 605 5	Y	£16.79
8.0	IT/201 608 5	IT/201 609 5	Y	£19.18

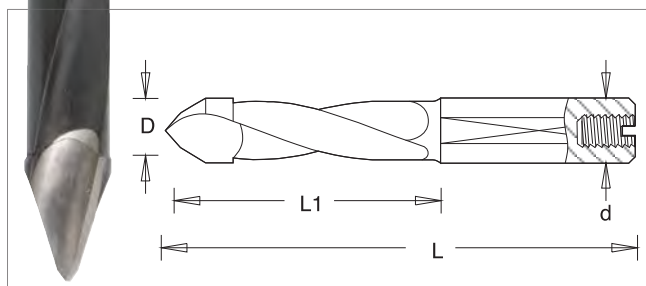
L = 67mm L1 = 35mm Ød = 8mm

øD	Right	Left	Stock	Price
5.0	IT/201 614 5	IT/201 615 5	Y	£18.62
8.0	IT/201 618 5	IT/201 619 5	Y	£20.44

V-POINT THROUGH HOLE DRILLS - 10MM SHANK



- V-point dowel drill with Solid Tungsten Carbide head.
- Will outperform standard drills by many times.
- Suitable for drilling tear free through holes in natural wood and man-made boards (including paper/plastic coated and veneered).
- Drills have a cylindrical shank with flat and length adjusting screw.
- For use on automatic and point-to-point boring machines.
- Spare screw reference IT/193 000 0.



L = 57.5mm L1 = 27mm Ød = 10mm

øD	Right	Left	Stock	Price
5.0	IT/201 760 7	IT/201 761 7	Y	£19.18
8.0	IT/201 762 7	IT/201 763 7	Y	£21.00
10.0	IT/201 764 7	IT/201 765 7	Y	£25.23

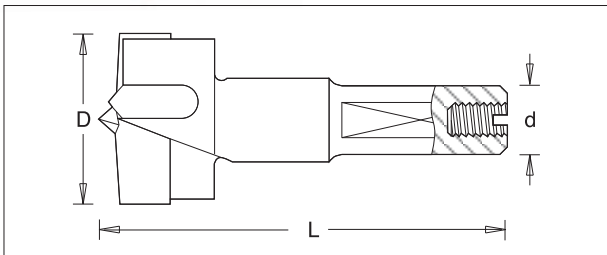
L = 70mm L1 = 35mm Ød = 10mm

øD	Right	Left	Stock	Price
5.0	IT/201 770 7	IT/201 771 7	Y	£21.00
8.0	IT/201 772 7	IT/201 773 7	Y	£23.97
10.0	IT/201 774 7	IT/201 775 7	Y	£29.46



CYLINDER BORING BITS - 10MM SHANK

- Tungsten Carbide Tipped boring bit complete with two cutting edges, two spurs and centre point.
- Suitable for drilling blind hinge-holes in natural wood and man-made boards (including paper/plastic coated and veneered).
- Boring bits have a cylindrical shank with flat and length adjusting screw.
- For use on automatic and point-to-point boring machines.
- Spare screw reference IT/193 000.



L = 57.5mm Ød = 10mm

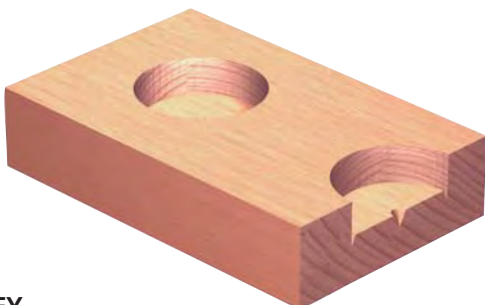
ØD	Right	Left	Stock	Price
15	IT/203 100 7	IT/203 108 7	Y	£32.43
16	IT/203 136 7	IT/203 137 7	Y	£33.57
18	IT/203 102 7	IT/203 109 7	Y	£33.57
20	IT/203 101 7	IT/203 104 7	Y	£34.82
22	IT/203 103 7	IT/203 105 7	Y	£34.25
25	IT/203 107 7	IT/203 110 7	Y	£37.22
26	IT/203 113 7	IT/203 116 7	Y	£37.22
28	IT/203 115 7	IT/203 117 7	Y	£37.22
30	IT/203 119 7	IT/203 122 7	Y	£39.62
35	IT/203 125 7	IT/203 128 7	Y	£42.60
38	IT/203 126 7	IT/203 127 7	Y	£54.57
40	IT/203 131 7	IT/203 134 7	Y	£56.98

L = 70mm Ød = 10mm

ØD	Right	Left	Stock	Price
15	IT/203 140 7	IT/203 141 7	Y	£35.38
20	IT/203 142 7	IT/203 143 7	Y	£35.98
25	IT/203 144 7	IT/203 145 7	Y	£39.05
30	IT/203 146 7	IT/203 147 7	Y	£43.16
35	IT/203 148 7	IT/203 149 7	Y	£46.24

L = 77mm Ød = 10mm

ØD	Right	Left	Stock	Price
25	IT/203 160 7	IT/203 161 7	Y	£40.19
30	IT/203 155 7	IT/203 156 7	Y	£44.41
35	IT/203 151 7	IT/203 150 7	Y	£47.95



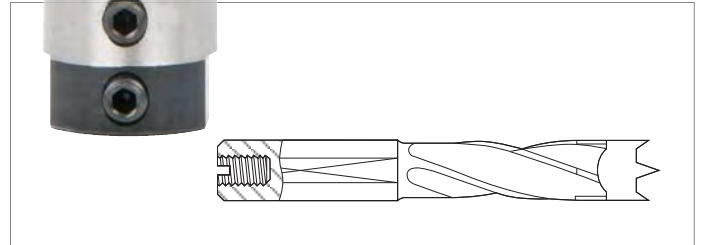
KEY

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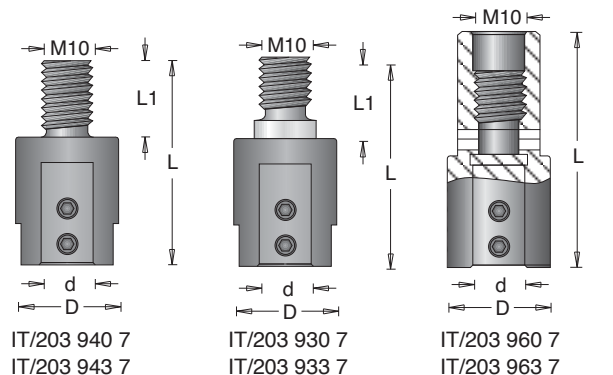
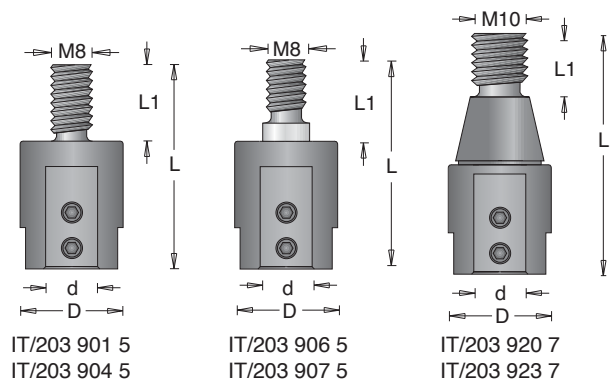
DRILL COMBI CHUCKS

- Combi chucks suitable for clamping 10mm shank drills and boring bits with a cylindrical shank.
- Suitable for all popular makes of automatic and point-to-point boring machines.
- Spare screw reference IT/193 024 8.



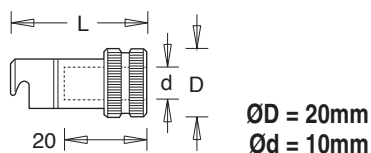
ØD = 20mm Ød = 10mm

Machines	Right	Left	L1	L	Stock	Price
Nottmeyer	IT/203 901 5	IT/203 904 5	15	40	Y	£14.38 (old design)
Nottmeyer	IT/203 906 5	IT/203 907 5	16	41	Y	£17.47 (new design)
Vitap	IT/203 920 7	IT/203 923 7	12	47	Y	£14.38
Busselato						
Ompec						
Balestrini						
SCM						
Ayen	IT/203 940 7	IT/203 943 7	15	40	Y	£17.47
Torwegge						
Holzma						
Mayer						
Alberti	IT/203 930 7	IT/203 933 7	16	41	Y	£14.38
Balestrini						
Biesse						
Busellato						
Mordibelli						
Torwegge						
Weeke						
Scheer	IT/203 960 7	IT/203 963 7		46	Y	£17.47

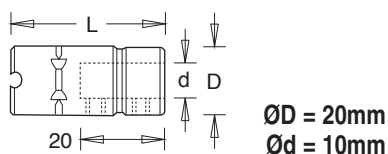


QUICK CHANGE DRILL HOLDERS

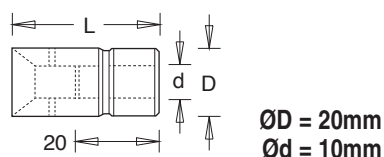
- Quick change drill holders suitable for clamping 10mm shank drills and boring bits with a cylindrical shank with flat.
- Drill holders will clamp directly into all popular makes of automatic and point-to-point boring machines.
- Allow drills to be mounted quickly with a minimum of downtime.



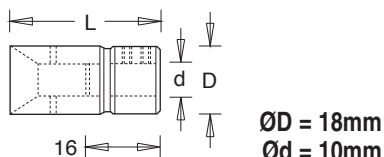
Machine	Right	Left	L	Stock	Price
Biesse	IT/QCDHB30R	IT/QCDHB30L	37	Y	£27.54
	IT/QCDHB37R	IT/QCDHB37L	30	Y	£25.50



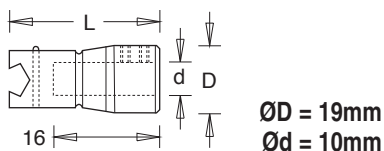
Machine	Right	L	Stock	Price
Morbidelli	IT/QCDHMOR	43	Y	£26.52



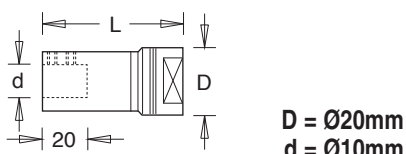
Machines	Right	L	Stock	Price
Masterwood Maggi Griggio	IT/QCDHMAR	40	Y	£25.50



Machine	Right	L	Stock	Price
Vitap	IT/QCDHVIR	42	Y	£25.50



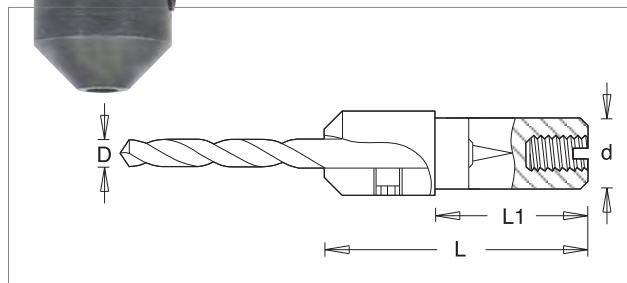
Machine	Right	L	Stock	Price
Busellato	IT/QCDHBUR	34.5	Y	£32.64



Machine	Right	L	Stock	Price
Weeke	IT/QCDHWER	46	Y	£34.68

CHUCK ADAPTER FOR SOLID TC DRILLS

- Suitable for adapting standard cylindrical shank drills for mounting in combi-chucks with a tightening screw.
- Adapters have a cylindrical shank with flat and length adjusting screw.
- Spare screw reference IT/193 000 0.

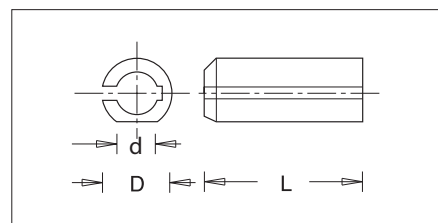


L1 = 22mm L = 38mm Ød = 10mm

øD	Product Ref.	Stock	Price
2.0	IT/203 950 7	Y	£9.03
2.5	IT/203 951 7	Y	£9.03
3.0	IT/203 952 7	Y	£9.03
3.2	IT/203 953 7	Y	£9.03
3.5	IT/203 954 7	Y	£9.03
4.0	IT/203 955 7	Y	£9.03
5.0	IT/203 956 7	Y	£9.03

COMBI CHUCK REDUCTION BUSH FOR SOLID TC DRILLS

- Flat on full length of one side, notch on the opposite side.
- Suitable for adapting standard cylindrical shank drills for mounting in combi chucks with two tightening screws.



L = 23mm ØD = 10mm

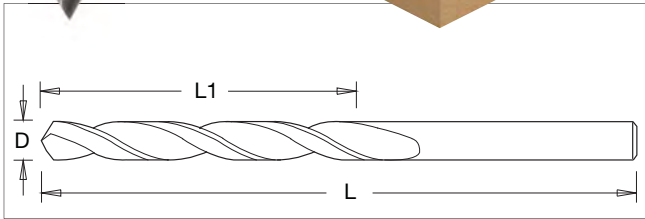
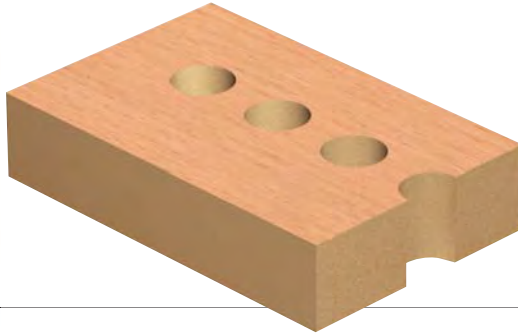
ød	Product Ref.	Stock	Price
2.0	IT/192 456 0	Y	£5.71
2.5	IT/192 457 0	Y	£5.71
3.0	IT/192 451 0	Y	£5.14
3.2	IT/192 458 0	Y	£5.14
3.5	IT/192 452 0	Y	£5.14
4.0	IT/192 453 0	Y	£5.14
5.0	IT/192 454 0	Y	£4.57
6.0	IT/192 460 0	Y	£4.57
7.0	IT/192 461 0	Y	£4.00
8.0	IT/192 455 0	Y	£4.00

KEY

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SOLID TC TWIST DRILLS

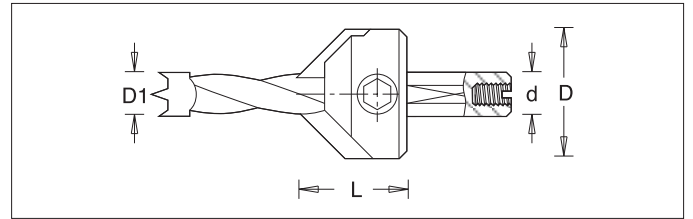
- Solid Tungsten Carbide twist drills with v-point.
- Suitable for drilling blind and through holes in natural wood and man-made boards (including paper/plastic coated and veneered).
- Drills are straight over their full length. Can be used in the reduction bushes and adapters shown above.



øD	L1	L	Right	Left	Stock	Price
2.0	20	45	IT/DSC20R	IT/DSC20L	Y	£15.08
2.5	30	53	IT/DSC25R	IT/DSC25L	Y	£15.65
3.0	30	53	IT/DSC30R	IT/DSC30L	Y	£16.21
3.5	30	53	IT/DSC35R	IT/DSC35L	Y	£18.62
4.0	30	53	IT/DSC40R	IT/DSC40L	Y	£22.27
5.0	30	53	IT/DSC50R	IT/DSC50L	Y	£25.80

COUNTERSINK FOR DOWEL DRILLS

- Tungsten Carbide Tipped 90 degree countersinks with two flutes for use with dowel drills.
- IT/202 202 0 – IT/202 225 0 suitable for mounting on the drill flutes of hollow ground drills only.
- IT/202 226 0 – IT/202 231 0 suitable for mounting on 10mm drill shanks only. Not for hollow ground flute drills.
- For countersinking in natural wood and man-made boards.
- Spare set screw reference IT/193 682 0.

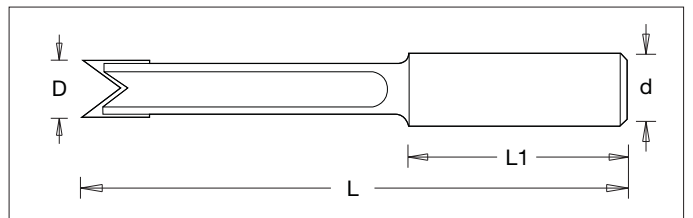
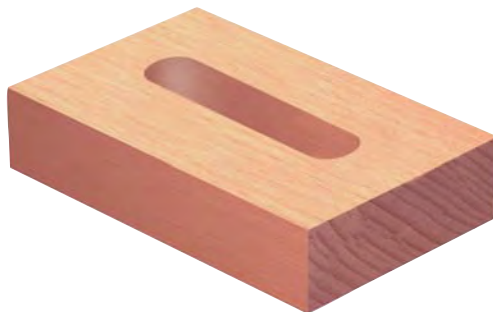


Ød = 10mm

øD1	øD	L	Right	Left	Stock	Price
4	15.6	17.5	IT/202 202 0	IT/202 203 0	Y	£18.03
5	16.0	17.5	IT/202 200 0	IT/202 201 0	Y	£18.03
6	16.0	17.5	IT/202 204 0	IT/202 205 0	Y	£18.03
7	16.0	17.5	IT/202 206 0	IT/202 207 0	Y	£18.03
8	18.0	17.5	IT/202 210 0	IT/202 211 0	Y	£19.18
9	18.0	17.5	IT/202 214 0	IT/202 215 0	Y	£19.18
10	20.0	17.5	IT/202 220 0	IT/202 221 0	Y	£19.87
10	12.0	17.5	IT/202 224 0	IT/202 225 0	Y	£19.87
5-10	15.5	16.5	IT/202 226 0	IT/202 227 0	Y	£19.87
5-10	20.0	17.5	IT/202 230 0	IT/202 231 0	Y	£19.87

RECIPROCATING SLOT MORTISE BIT

- Tungsten Carbide Tipped slot mortise bits, complete with two flutes.
- Suitable for making slots and grooves in soft and hardwood.
- The design allows the tool to cut in both left hand and right hand direction.
- Suitable for use on a slot mortise machine, or routers and machining centres with or without CNC control.



Ød = 13mm L1 = 40mm

øD	L	Product Ref.	Stock	Price
8	100	IT/204 001 8	Y	£31.18
10	100	IT/204 007 8	Y	£31.85
12	120	IT/204 013 8	Y	£31.85
14	120	IT/204 019 8	Y	£39.05
16	120	IT/204 025 8	Y	£39.62
18	120	IT/204 031 8	Y	£43.16

KEY

Stock - Y means normally kept in stock for next day delivery.
N means not normally held in stock, delivery in a short time.

CNC MACHINING

A RANGE OF PROFILE & STRAIGHT MACHINING BITS IN A WIDE RANGE OF MEASUREMENTS

INCLUDING:

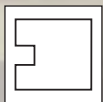
- Router bits made from Solid Carbide.
- Router bits with Tungsten Carbide disposable knives.
- A unique system of router bits - different profile knives that are assembled on a single body.

OUR RANGE OF SOLID CARBIDE SPIRAL BITS FEATURE:

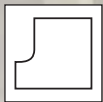
- **D**NAMIC Carbide.
- Unique grinding process.
- Extreme durability and long life in solid wood and abrasive board.
- High wear Carbide developed exclusively with the world's leading Carbide manufacturer.
- More precise automated grinding processes that further improves the Carbide's resistance to wear.
- Up to 200% the lifetime even when working with abrasive materials.
- The most cost effective Carbide available today.



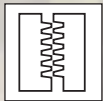
Technical Information	115
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GROOVING & SIZING



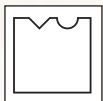
PROFILING & CHAMFERING



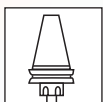
JOINTING & REBATING



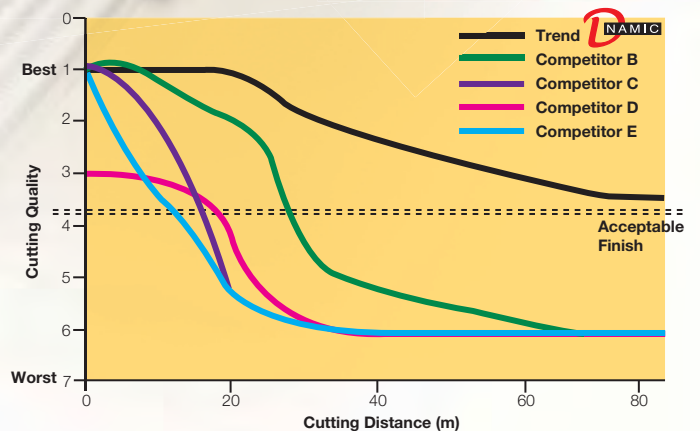
FRAME & PANEL DOOR



CARVING

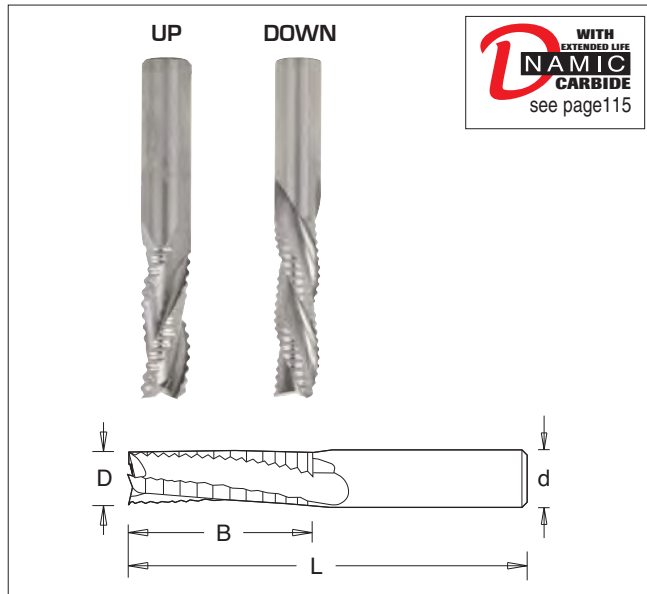


CLAMPING SYSTEMS, CHUCKS & ADAPTERS



SOLID CARBIDE ROUGHING SPIRALS - THREE FLUTE

- Suitable for 'roughing' cuts in softwood, hardwood and man-made board (with or without coating).
- **D** **NAMIC** Carbide for maximum durability in abrasive material.
- Up-cut spiral for optimum chip flow and improved finish on bottom of board.
- Down-cut for better clamping when machining small workpieces and improved finish on the top of the material.
- For use on routers and machining centres with CNC control.



UP-CUT

øD	B	L	ød	Product Ref.	Stock	Price
10	32	80	10	IT/178 632 7	Y	£108.72
12	32	80	12	IT/178 635 9	Y	£114.93
12	52	100	12	IT/178 638 9	Y	£134.44
14	52	100	14	IT/178 641 0	Y	£170.79
16	55	110	16	IT/178 647 0	Y	£209.78
20	55	120	20	IT/178 656 0	Y	£262.54
20	72	135	20	IT/178 658 0	Y	£321.49

DOWN-CUT

øD	B	L	ød	Product Ref.	Stock	Price
10	32	80	10	IT/178 932 7	Y	£108.72
12	32	80	12	IT/178 935 9	Y	£114.93
12	52	100	12	IT/178 938 9	Y	£134.44
16	55	110	16	IT/178 947 0	Y	£209.78



KEY

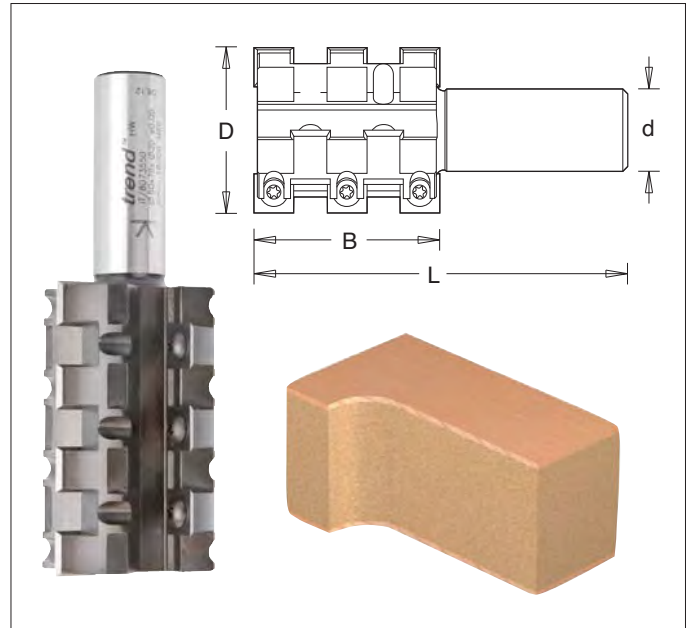
Spare Blades & Scorers - Product Reference ending in /10 are sold in packs of ten.

Stock - Y means normally kept in stock for next day delivery.

N means not normally held in stock, delivery in a short time.

DISPOSABLE INSERT ROUGH REBATING ROUTER CUTTERS - FOUR FLUTE

- Suitable for rough rebating and sizing in softwood, hardwood and man-made board (with or without coating).
- Multiple cutting flutes ensure fine chips are produced for improved waste extraction.
- Replaceable inserts ensure a constant cutting diameter.
- For use on routers and machining centres with CNC control.
- Recommended RPM (n): 18,000.



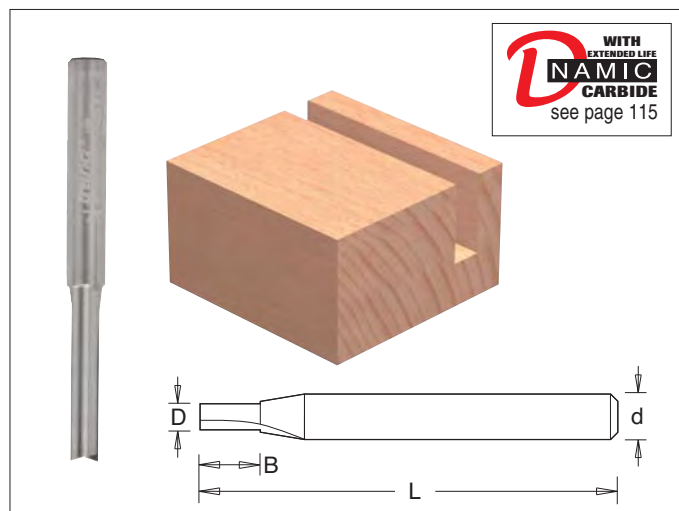
øD	B	L	ød	Product Ref.	Stock	Price
50	56	113	20x55	IT/807 350 0	Y	£195.23
50	78	135	20x55	IT/807 355 0	Y	£218.58

SPARE PARTS

Description	T.C. Blade	Torx® Screw	Torx® Key
Product Ref.	IT/310 121 2/10	IT/193 148 2	IT/194 101 5
Size	12x12x1.5	M4x5.6	T15
Price	£32.43	£1.14	£3.09

SOLID CARBIDE STRAIGHT ROUTER CUTTERS - TWO FLUTE

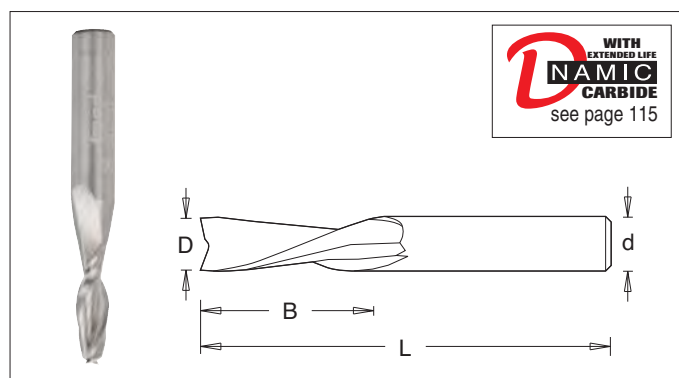
- Suitable for producing grooves or slots in softwood, hardwood and man-made board (with or without coating).
- **DYNAMIC** Carbide for maximum durability.
- For use on routers and machining centres with CNC control.



øD	B	L	ød	Product Ref.	Stock	Price
3	11	60	6	IT/SO107 001 3	Y	£18.30
4	11	60	6	IT/SO107 004 3	Y	£18.30
5	11	60	6	IT/SO107 007 3	Y	£18.30
6	19	60	6	IT/SO107 010 3	Y	£19.50
6	25	60	6	IT/SO107 013 3	Y	£25.12
8	25	70	8	IT/SO107 025 5	Y	£38.39
10	30	80	10	IT/SO107 858 7	Y	£55.25

SOLID CARBIDE FINISHING SPIRALS - TWO FLUTE - 8MM SHANK

- Suitable for 'fine' finishing cuts in softwood, hardwood and man-made board (with or without coating).
- **DYNAMIC** carbide for maximum durability in abrasive material.
- Up-cut spiral for optimum chip flow and improved finish on bottom of board.
- Down-cut for better clamping when machining small workpieces and improved finish on the top of the material.
- For use on routers and machining centres with CNC control.

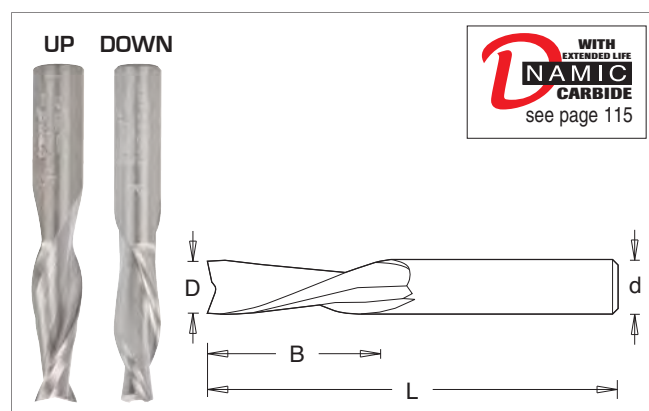


UP-CUT

øD	B	L	ød	Product Ref.	Stock	Price
3	12	50	8	IT/173 405 5	Y	£20.81
4	12	50	8	IT/173 410 5	Y	£20.81
5	15	50	8	IT/173 415 5	Y	£20.81
6	20	60	8	IT/173 420 5	Y	£25.12
8	20	60	8	IT/173 425 5	Y	£27.03

SOLID CARBIDE FINISHING SPIRALS - TWO FLUTE

- Suitable for 'fine' finishing cuts in softwood, hardwood and man-made board (with or without coating).
- **DYNAMIC** Carbide for maximum durability in abrasive material.
- Up-cut spiral for optimum chip flow and improved finish on bottom of board.
- Down-cut for better clamping when machining small workpieces and improved finish on the top of the material.
- For use on routers and machining centres with CNC control.

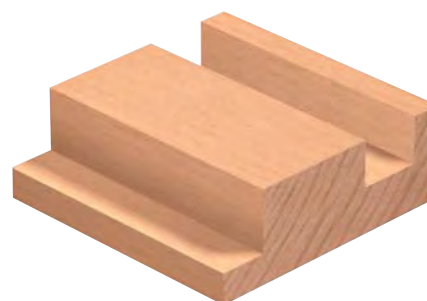


UP-CUT

øD	B	L	ød	Product Ref.	Stock	Price
4	12	55	4	IT/173 410 0	Y	£20.81
5	20	55	5	IT/173 416 0	Y	£20.81
6	20	60	6	IT/173 420 3	Y	£25.12
10	25	70	10	IT/173 430 7	Y	£44.61
10	32	70	10	IT/173 432 7	Y	£51.55
12	32	80	12	IT/173 435 9	Y	£62.20
12	42	90	12	IT/173 437 9	Y	£66.62
12	52	100	12	IT/173 438 9	Y	£102.98

DOWN-CUT

øD	B	L	ød	Product Ref.	Stock	Price
4	12	55	4	IT/173 510 0	Y	£20.81
5	20	55	5	IT/173 516 0	Y	£20.81
6	20	60	6	IT/173 520 3	Y	£25.12
10	25	70	10	IT/173 530 7	Y	£43.42
10	32	70	10	IT/173 532 7	Y	£51.55
12	32	80	12	IT/173 535 9	Y	£62.20
12	42	90	12	IT/173 537 9	Y	£66.62
12	52	100	12	IT/173 538 9	Y	£102.98

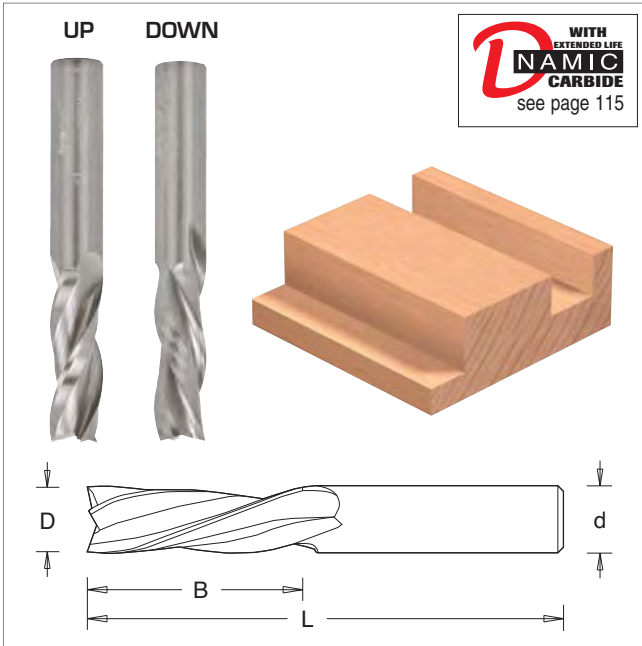


KEY

Stock - Y means normally kept in stock for next day delivery.
N means not normally held in stock, delivery in a short time.

SOLID CARBIDE FINISHING SPIRALS - THREE FLUTE

- Suitable for extra fine 'finishing' cuts in softwood, hardwood and man-made board (with or without coating).
- **DYNAMIC** Carbide for maximum durability in abrasive material.
- Up-cut spiral for optimum chip flow and improved finish on bottom of board.
- Down-cut for better clamping when machining small workpieces and improved finish on the top of the material.
- For use on routers and machining centres with CNC control.



UP-CUT

øD	B	L	ød	Product Ref.	Stock	Price
12	42	90	12	IT/173 637 9 +	Y	£74.76
12	52	100	12	IT/173 638 9	Y	£93.65
14	42	100	14	IT/173 670 0	Y	£97.36
16	35	80	16	IT/173 641 0	Y	£97.36
16	52	110	16	IT/173 648 0	Y	£202.85
20	52	120	20	IT/173 656 0	Y	£235.50
20	72	135	20	IT/173 658 0	Y	£265.04

DOWN-CUT

øD	B	L	ød	Product Ref.	Stock	Price
12	42	80	12	IT/173 937 9 +	Y	£74.76
12	52	100	12	IT/173 938 9	Y	£93.65
14	42	100	14	IT/173 970 0	Y	£97.36
14	55	110	14	IT/173 940 0	Y	£97.36
16	52	110	16	IT/173 948 0	Y	£202.85
20	52	120	20	IT/173 956 0	Y	£235.50
20	72	135	20	IT/173 958 0	Y	£265.04

KEY

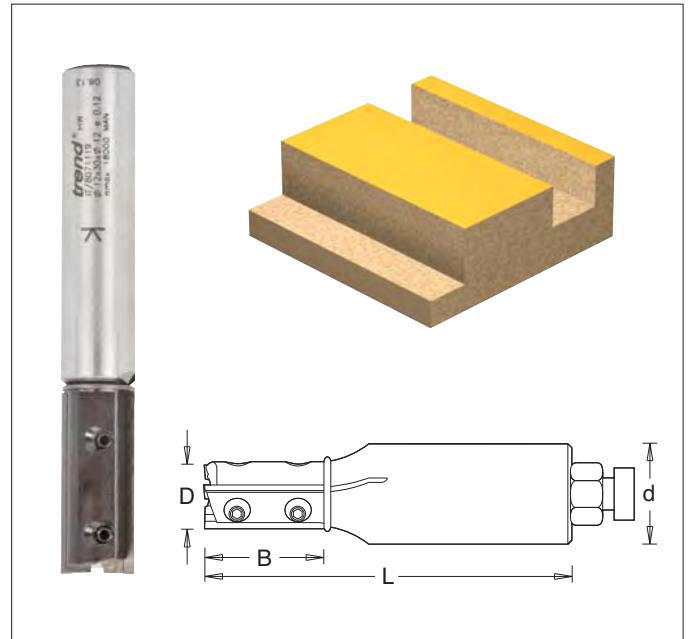
Spare Blades & Scorers - Product Reference ending in /10 are sold in packs of ten.

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DISPOSABLE INSERT STRAIGHT ROUTER CUTTERS - MULTI FLUTE

- Suitable for grooving, rebating and sizing cuts in man-made board (with or without coating).
- Replaceable inserts ensure a constant cutting diameter and finish quality.
- For use on routers and machining centres with CNC control.
- Recommended RPM (n): 18,000.



øD	B	Blade	L	ød	Product Ref.	Stock	Price
10	20	1	71.5	12	IT/807 105 9* ●	Y	£54.24
12	30	2	81.0	12	IT/807 111 9** ●	Y	£62.38
18	30	3	81.5	18	IT/807 120 0	Y	£77.58
18	30	3	81.5	25	IT/807 120 H	Y	£77.58
18	50	3	101.5	20	IT/807 121 0	Y	£88.41
18	50	3	101.5	20	IT/807 121 0L ▲	Y	£88.94
18	50	3	101.5	25	IT/807 121 H	Y	£88.94
18	50	3	101.5	25	IT/807 121 HL ▲	Y	£103.09
20	50	3	101.5	20	IT/807 125 0	Y	£98.24
20	50	3	101.5	25	IT/807 125 H	Y	£98.24
20	50	3	101.5	25	IT/807 125 HL ▲	Y	£111.76

▲ L=Left Hand Rotation. ● Cutters do not have screw adjuster.

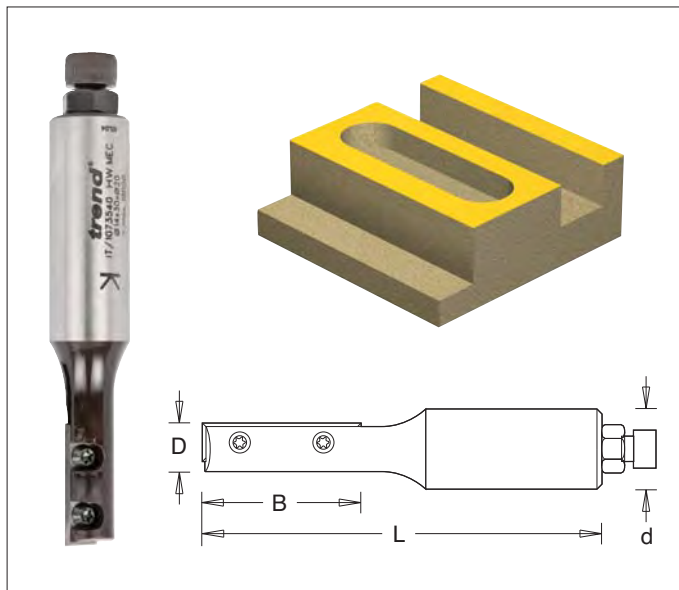
SPARE PARTS

Desc.	T.C. Blade			
Prod. Ref.	IT/310 751 0/10	IT/310 751 1/10	IT/310 751 3/10	IT/310 751 3L
Size	20x5.5x1.1 (B = 20)	30x5.5x1.1 (B = 30)	50x5.5x1.1 (B = 50)	50x5.5x1.1 LEFT HAND
Price	£51.61	£51.61	£58.23	£7.20

Hex Screw*	Hex Screw**	Hex Screw	Hex Key
IT/193 035 0	IT/193 036 0	IT/193 037 0	IT/194 102 0
M3x4	M3x5	M3x7	S1.5
£1.03	£1.03	£1.03	£5.14

DISPOSABLE INSERT STRAIGHT ROUTER CUTTERS - ONE FLUTE

- Suitable for grooving, rebating and sizing cuts in man-made board (with or without coating).
- Replaceable inserts ensure a constant cutting diameter and finish quality.
- For use on routers and machining centres with CNC control.
- Recommended RPM (n): 18,000.



øD	B	Blade	L	ød	Product Ref.	Stock	Price
12	30	1	105	20	IT/107 350 0	Y	£61.68
14	30	1	105	20	IT/107 354 0	Y	£65.42
14	50	3	125	20	IT/107 353 0 +	Y	£75.05
15	50	3	125	20	IT/107 356 0 +	Y	£78.18
16	30	2	105	20	IT/107 358 0 +	Y	£70.79
16	50	4	125	20	IT/107 360 0 +	Y	£85.22

! Also available with 25mm diameter shank, replace the last digit with an 'H'.

SPARE PARTS

Description	T.C. Blade 1	T.C. Blade 2	T.C. Blade 3
Product Ref.	IT/310 793 0/10	IT/310 723 0/10	IT/300 752 0/10
Size	30x9x1.5	30x12x1.5	50x9x1.5
Price	£49.22	£35.52	£70.69

Description	Torx® Screw	Torx® Key
T.C. Blade 4		
Product Ref.	IT/193 354 8	IT/194 101 5
Size	M3.5x4.8	T15
Price	£1.60	£3.09

KEY

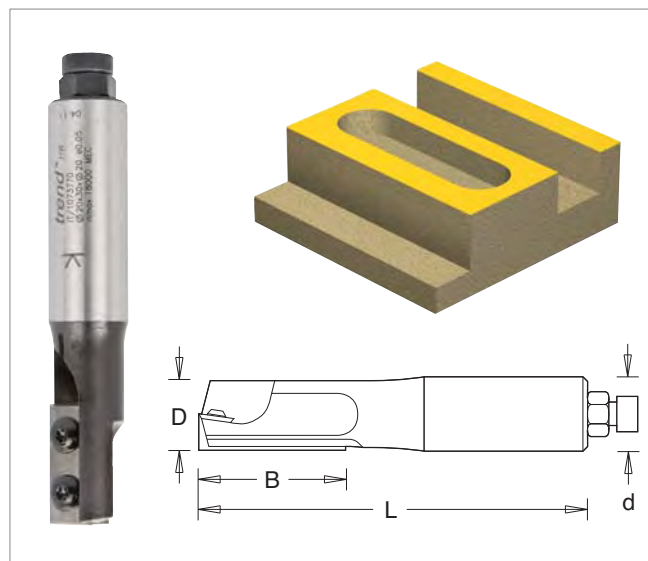
Spare Blades & Scorers - Product Reference ending in /10 are sold in packs of ten.

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DISPOSABLE INSERT STRAIGHT ROUTER CUTTERS WITH PLUNGE CENTRE TIP - ONE FLUTE

- Suitable for grooving, rebating and sizing cuts in man-made board (with or without coating).
- Replaceable inserts ensure a constant cutting diameter and finish quality.
- Brazed centre tip (16mm diameter) or disposable insert for improved plunging.
- Recommended RPM (n): 18,000. **Not suitable for plunge cutting**



øD	B	L	ød	Product Ref.	Stock	Price
16	30	105	20	IT/107 373 0*	Y	£70.03
18	50	125	20	IT/107 376 0	Y	£78.09
20	30	105	20	IT/107 377 0	Y	£68.90
20	50	125	20	IT/107 398 0	Y	£83.05
25	50	125	20	IT/107 399 0 +	Y	£85.07

! * Brazed centre tip. Also available with 25mm diameter shank, replace the last digit with an 'H'.

SPARE PARTS

Description	T.C. Blade	
Product Ref.	IT/310 723 0/10 (B = 30)	IT/310 725 0/10 (B = 50)
Size	30x12x1.5	50x12x1.5
Price	£35.52	£49.86

Bottom T.C. Blade (B = 30)

IT/310 752 6/10 (D = 18)	IT/310 752 6/10 (D = 20)	IT/310 752 3/10 (D = 25)
7.5x12x1.5	7.5x12x1.5	7.5x12x1.5
£70.79	£70.79	£70.79

Bottom T.C. Blade (B = 50)

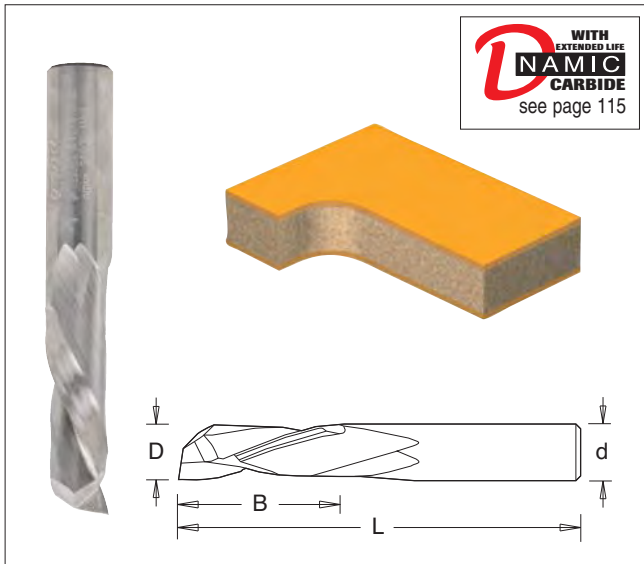
IT/310 752 3/10 (D = 18)	IT/310 752 3/10 (D = 20)	IT/310 751 2/10 (D = 25)
7.5x12x1.5	7.5x12x1.5	7.5x12x1.5
£70.79	£70.79	£33.46

Torx® Screw

IT/193 395 0	IT/193 354 8	IT/194 101 5
M4x6	M3.5x4.8	T15
£1.60	£1.60	£3.09

SOLID CARBIDE UP & DOWN COMPRESSION SPIRALS - ONE FLUTE

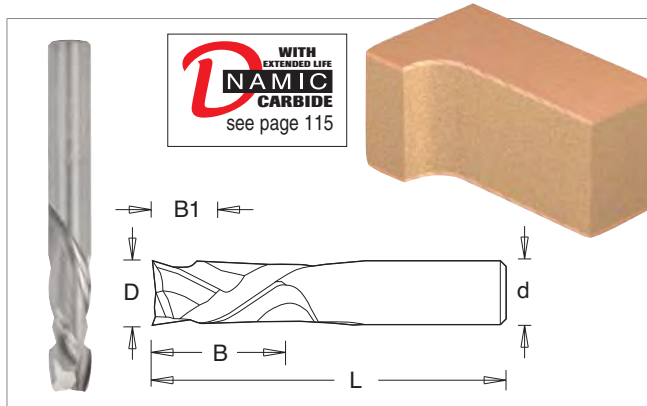
- Compression spiral ensures a good finish on the top and bottom of the material.
- Suitable for both softwood and hardwood.
- **D** **NAMIC** Carbide for maximum durability in abrasive material.
- For use on routers and machining centres with CNC control.



øD	B	L	ød	Product Ref.	Stock	Price
6	20	60	6	IT/174 220 3S	Y	£44.01
8	25	70	8	IT/174 227 5	Y	£50.24
10	32	80	10	IT/174 233 7	Y	£66.62
12	32	80	12	IT/174 235 9S	Y	£89.83

SOLID CARBIDE UP & DOWN COMPRESSION SPIRALS - TWO FLUTE

- Compression spiral ensures a good finish on the top and bottom of laminated and veneered board.
- Suitable for softwood, hardwood and man-made board.
- **D** **NAMIC** Carbide for maximum durability in abrasive material.
- For use on routers and machining centres with CNC control.

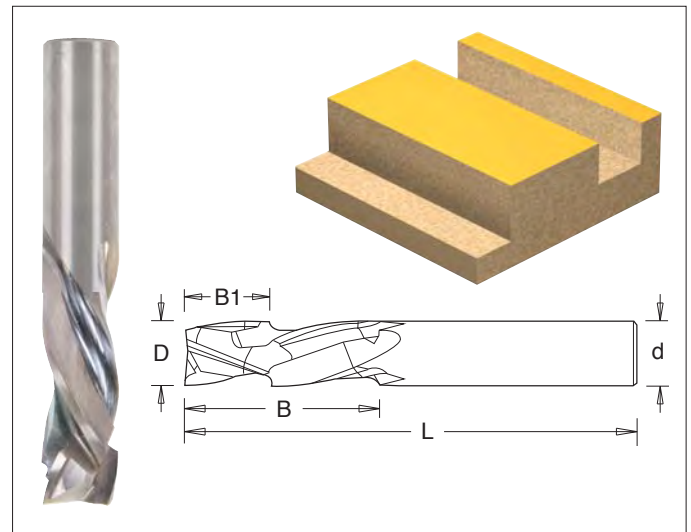


øD	B	B1	L	ød	Product Ref.	Stock	Price
3.2	21	6	63.5	3.2	IT/174 107 Z*	Y	£49.98
6	20	6	60	6	IT/174 320 3	Y	£44.01
8	25	7	70	8	IT/174 327 5	Y	£54.06
10	32	8	80	10	IT/174 333 7	Y	£73.55
12	32	8	80	12	IT/174 335 9	Y	£90.42
12	42	13	90	12	IT/174 337 9	Y	£99.27
16	52	14	110	16	IT/174 348 0	Y	£209.78
20	52	17	120	20	IT/174 356 0	Y	£360.49
20	72	20	135	20	IT/174 358 0	Y	£459.04

*Reduction bush required. 3.2mm to 1/4" IT/1927124 £17.60

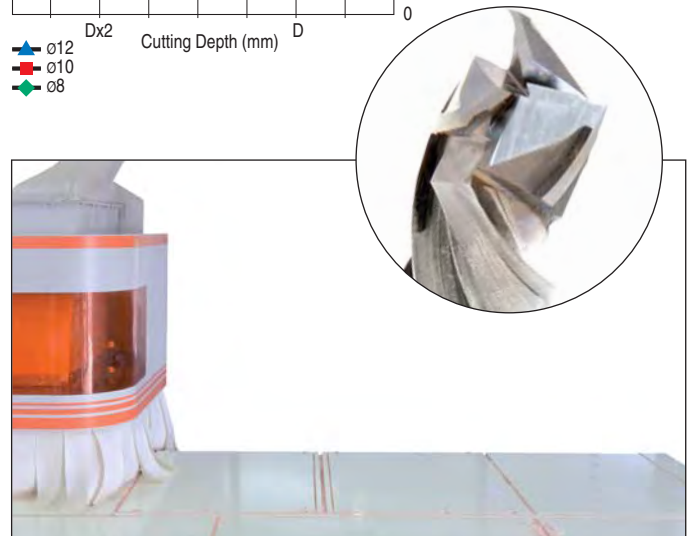
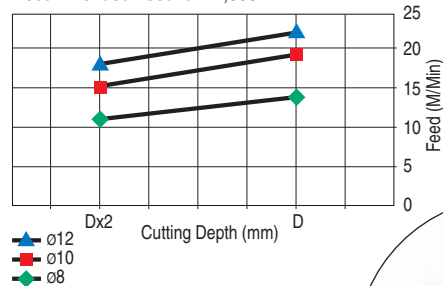
SOLID CARBIDE UP & DOWN COMPRESSION SPIRALS FOR NESTING - THREE FLUTE

- Solid Carbide router cutter complete with three up and three down compression spiral flutes.
- Compression spiral ensures a good finish on the top and bottom of laminated and veneered board.
- Special high clearance geometric shape especially designed for nesting applications in coated and un-coated man-made board.
- **D** **NAMIC** Carbide for maximum durability in abrasive material.
- For use on routers and machining centres with CNC control.
- Recommended RPM (n): 24,000.



øD	B	B1	L	ød	Product Ref.	Stock	Price
8	20	5	70	8	IT/174 840 5	Y	£61.20
10	25	7	70	10	IT/174 850 7	Y	£84.66
12	32	9	80	12	IT/174 860 9	Y	£104.04

Recommended Feed for 24,000 RPM

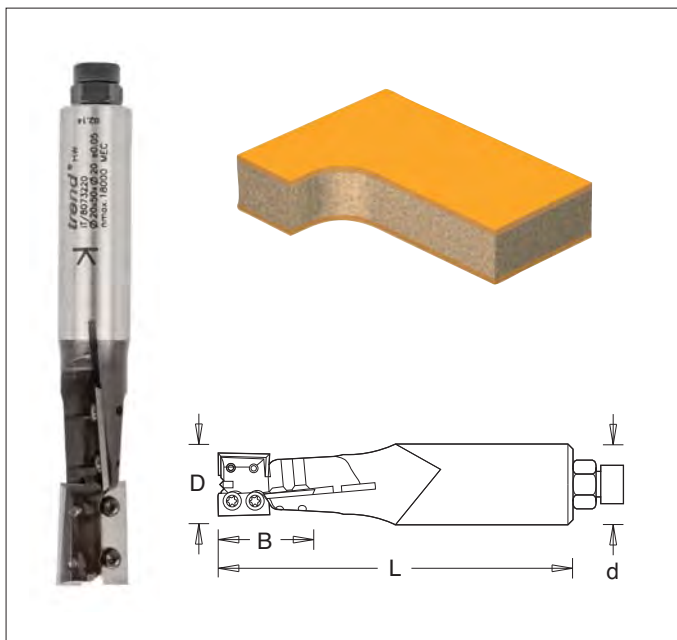


KEY

Stock - Y means normally kept in stock for next day delivery.
N means not normally held in stock, delivery in a short time.

DISPOSABLE INSERT UP & DOWN SHEAR ROUTER CUTTERS - TWO FLUTE

- Shear flutes ensure a good finish on the top and bottom of laminated and veneered board.
- Suitable for softwood, hardwood and man-made board.
- Replaceable inserts ensure a constant cutting diameter and finish quality.
- Brazed centre tip for improved plunging.
- For use on routers and machining centres with CNC control.
- Recommended RPM (n): 18,000.



øD	B	L	ød	Product Ref.	Stock	Price
20	30	110	20	IT/807 320 0	Y	£129.64
20	50	130	20	IT/807 322 0	Y	£146.47

! Also available with 25mm diameter shank, replace the last digit with an 'H'.

SPARE PARTS

Description	T.C. Blade	
Product Ref.	IT/300 771 6/10 (B = 30)	IT/300 772 8/10 (B = 50)
Size	16x7x1.5	28x7x1.5
Price	£58.23	£64.74

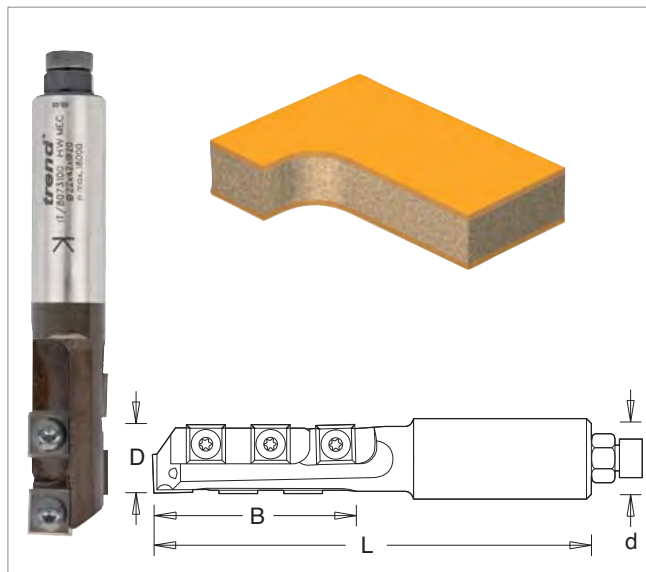
Torx® Screw	Torx® Key
IT/193 400 0	IT/194 110 0
M3x4	T9
£1.65	£2.06

KEY

Spare Blades & Scorers - Product Reference ending in /10 are sold in packs of ten.
Stock - Y means normally kept in stock for next day delivery.
 N means not normally held in stock, delivery in a short time.

DISPOSABLE INSERT UP & DOWN SHEAR ROUTER CUTTERS - TWO FLUTE

- Shear flutes ensure a good finish on the top and bottom of laminated and veneered board.
- Suitable for softwood, hardwood and man-made board.
- Replaceable inserts ensure a constant cutting diameter and finish quality.
- Recommended RPM (n): 18,000.



øD	B	L	ød	Product Ref.	Stock	Price
22	42	115	20	IT/807 310 0	Y	£148.13
22	62	135	20	IT/807 315 0	Y	£158.98

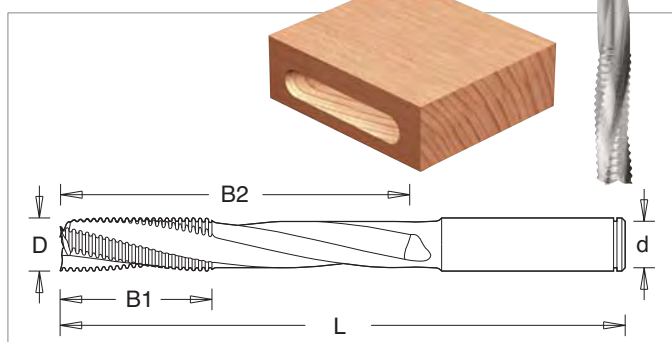
! Also available with 25mm diameter shank, replace the last digit with an 'H'.

SPARE PARTS

Description	T.C. Blade	Torx® Screw	Torx® Key
Product Ref.	IT/310 121 2/10	IT/193 395 0	IT/194 101 5
Size	12x12x1.5	M4x6	T15
Price	£32.43	£1.60	£3.09

SOLID CARBIDE LOCK CASING SPIRALS - THREE FLUTE

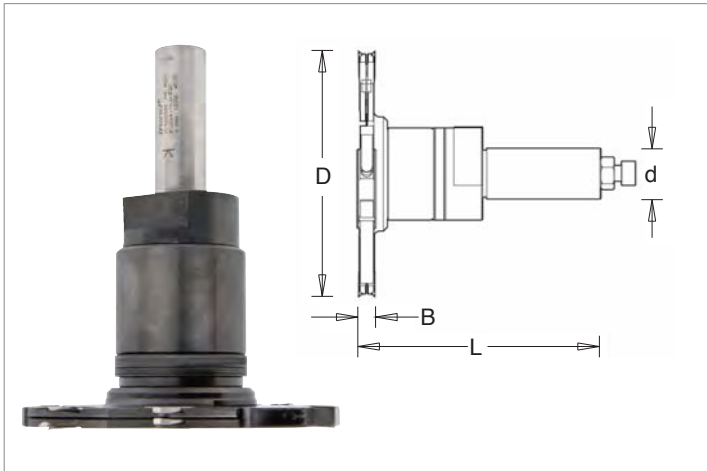
- Suitable for producing deep grooves, slots and holes for door furniture in softwood, hardwood, solid and hollow board doors.
- **DAMIC** Carbide for maximum durability in abrasive material.
- For use on routers and machining centres with CNC control.
- Recommended RPM (n): 18,000.



øD	B1	B2	L	ød	Product Ref.	Stock	Price
14	45	95	150	14	IT/178 640 0	Y	£261.94
16	45	115	170	16	IT/178 646 0	Y	£294.59
18	45	115	170	18	IT/178 652 0	Y	£353.55

DISPOSABLE INSERT ADJUSTABLE GROOVING CUTTER (4-15.5MM)

- Hard wearing steel body complete with disposable insert Tungsten Carbide knives and scorers (z2, v4+4).
- Suitable for producing various thickness grooves and slots in softwood, hardwood and man-made board.
- Cutting width can be adjusted by 0.1mm steps by using spacer rings.
- Replaceable inserts ensure a constant cutting diameter and finish quality.
- For use on routers and machining centres with CNC control.



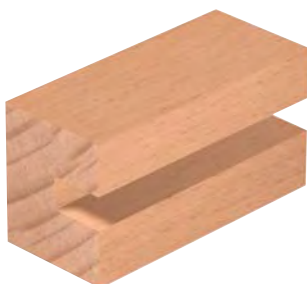
øD	B	L	ød	Product Ref.	Stock	Price
120	4-15.5	139	20	IT/822 055 0	Y	£648.60

SPARE PARTS

Desc.	TC Blade	Wedge	Set Screw	TC Blade
Prod. Ref.	IT/310 751 2/10	IT/199 031 0	IT/193 060 0	IT/300 850 1/10
Size	7.5x12x1.5	L=6.5	M5x16	18x18x2
Price	£33.46	£7.20	£1.03	£59.81

TC Blade	TC Blade Nut	Torx® Screw	Washer Set
IT/300 850 2/10	IT/192 350 0	IT/192 360 0	IT/193 028 0
14x14x1.2	M4x0.5x11.1	M4x0.5x9.90	M4x3.2
£27.75	£1.03	£1.59	£18.03

Arbor	Arbor Screw	Hex Key	Torx® Key
IT/190 820 0	IT/193 608 0	IT/194 008 0	IT/194 015 0
L=127x20mm	M5x20	S2.5	S4
£103.61	£1.65	£2.06	£1.65



Setting Gauge
IT/760 102 5
0.25mm
£3.33

KEY

Spare Blades & Scorers - Product Reference ending in /10 are sold in packs of ten.
Stock - Y means normally kept in stock for next day delivery.
 N means not normally held in stock, delivery in a short time.

SAWBLADES FOR CUTTING & GROOVING

- Tungsten Carbide Tipped alternate bevel sawblade for cutting and grooving along and across the grain.
- Suitable for producing various thickness grooves and slots in softwood, hardwood and man-made board.
- For use on routers and machining centres with CNC control.

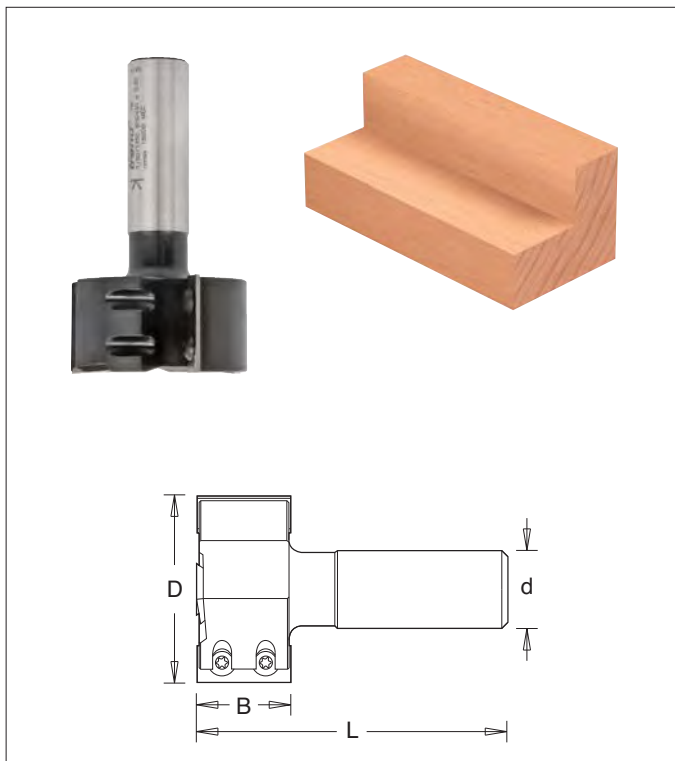


øD	B	Teeth	C	ød	Pin Holes	Product Ref.	Stock	Price
125	3	24	2.0	22	-	IT/9010 210 4	Y	£41.84
125	4	24	2.8	22	-	IT/9010 215 4	N	£60.74
125	5	24	3.5	22	-	IT/9010 216 4	N	£77.06
150	4	24	2.8	20	1/6/46	IT/9010 223 3	N	£77.06
150	5	24	3.5	20	1/6/46	IT/9010 224 3	Y	£88.94
180	3	30	2.0	20	1/6/46	IT/9010 230 3	Y	£46.69
180	4	30	2.8	20	1/6/46	IT/9010 231 3	N	£84.08
180	5	30	3.5	20	1/6/46	IT/9010 233 3	Y	£100.93

⚠ Other bore sizes and pin holes available on request.

DISPOSABLE INSERT STRAIGHT REBATING CUTTERS WITH SCORERS - TWO FLUTE

- Suitable for trimming and rebating in softwood, hardwood and man-made board.
- Scorers will give an improved finish at the bottom of the cut.
- Replaceable inserts ensure a constant cutting diameter and finish quality.
- For use on routers and machining centres with CNC control.
- Recommended RPM (n): 18,000.



øD	B	L	ød	Product Ref.	Stock	Price
40	30	100	20	IT/807 330 0	Y	£195.23
60	30	100	20	IT/807 335 0	Y	£211.55
60	50	120	20	IT/807 337 0	N	£225.09

! Also available with 25mm diameter shank, replace the last digit with an 'H'.

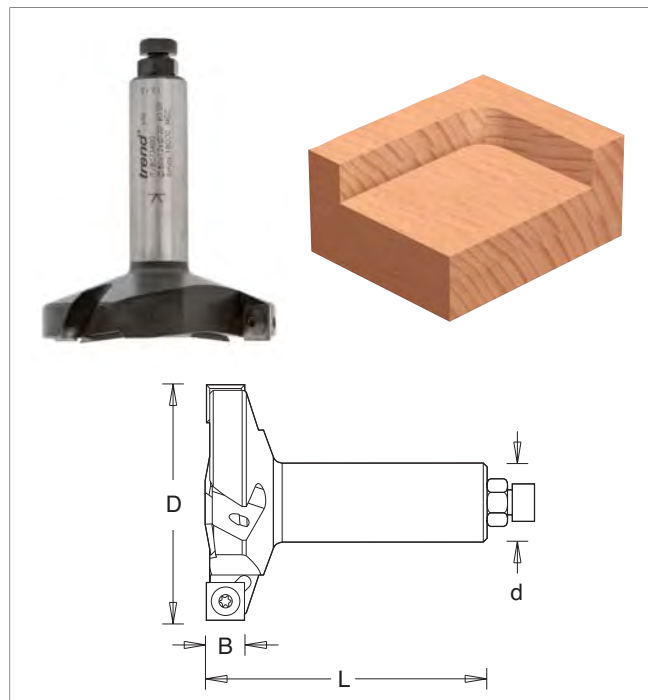
SPARE PARTS

Description	T.C. Blade		T.C. Blade
	Product Ref.	IT/310 123 0/10	IT/310 125 0/10
Size	30x12x1.5	50x12x1.5	14x14x2
Price	£22.15	£33.46	£22.15

Torx® Screw		Torx® Key	
IT/193 148 1	IT/193 370 0	IT/194 101 5	IT/194 106 0
M4x5.6 (pan)	M5x6.3 (csk)	T15	T20
£1.59	£1.60	£3.09	£6.74

DISPOSABLE INSERT PLANING & REBATING ROUTER CUTTERS WITH SCORERS - TWO FLUTE

- Suitable for planing and rebating in softwood, hardwood & man-made board.
- A good tool for fast removal of material over a large surface area.
- Scorers will give an improved finish at the bottom of the cut.
- Replaceable inserts ensure a constant cutting diameter and finish quality.
- For use on routers and machining centres with CNC control.



øD	B	L	ød	Product Ref.	Stock	Price
80	12	90	20	IT/807 340 0	Y	£169.20

SPARE PARTS

Description	T.C. Blade	
	Product Ref.	IT/310 121 2/10
Size	12x12x1.5	14x14x2.0
Price	£32.43	£22.15

Torx® Screw		Torx® Key	
IT/193 395 0	IT/193 370 0	IT/194 101 5	IT/194 106 0
M4x6	M5x6.3 (csk)	T15	T20
£1.60	£1.60	£3.09	£6.74

KEY

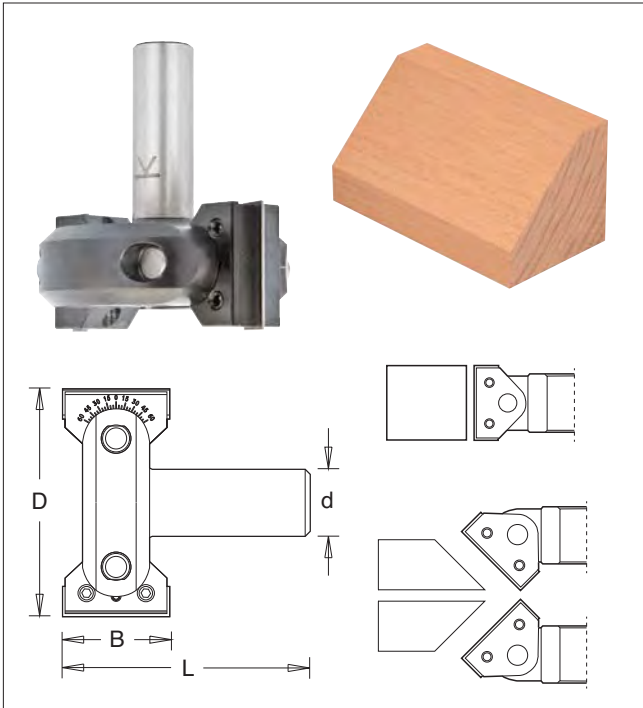
Spare Blades & Scorers - Product Reference ending in /10 are sold in packs of ten.

Stock - Y means normally kept in stock for next day delivery.

N means not normally held in stock, delivery in a short time.

DISPOSABLE INSERT ADJUSTABLE CHAMFER ROUTER CUTTER - TWO FLUTE

- Suitable for producing chamfer cuts at various angles in softwood, hardwood and man-made board.
- Cutting angle can be adjusted in 7.5 degree steps by using a notched scale.
- Fine adjustment of 1 degree is also possible.
- Replaceable inserts ensure a constant cutting diameter and finish quality.
- For use on routers and machining centres with CNC control.
- Recommended RPM (n): 12,000.

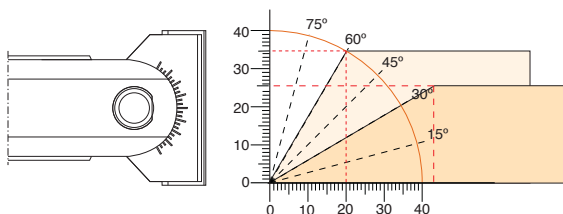


øD	a	B	L	ød	Product Ref.	Stock	Price
85	-45°→+90°	40	100	20	IT/854 001 1	Y	£354.21

SPARE PARTS

Description	T.C. Blade	Wedge	Locking Wedge
Product Ref.	IT/300 052 8/10	IT/199 082 0	IT/199 403 1
Size	40x12x1.5	L=38	25x12
Price	£33.46	£5.83	£12.32

Set Screw		Hex Key	
IT/193 049 4	IT/193 026 5	IT/194 003 5	IT/194 003 6
M6x8	M5x16	S3	S4
£1.03	£1.03	£4.10	£5.14

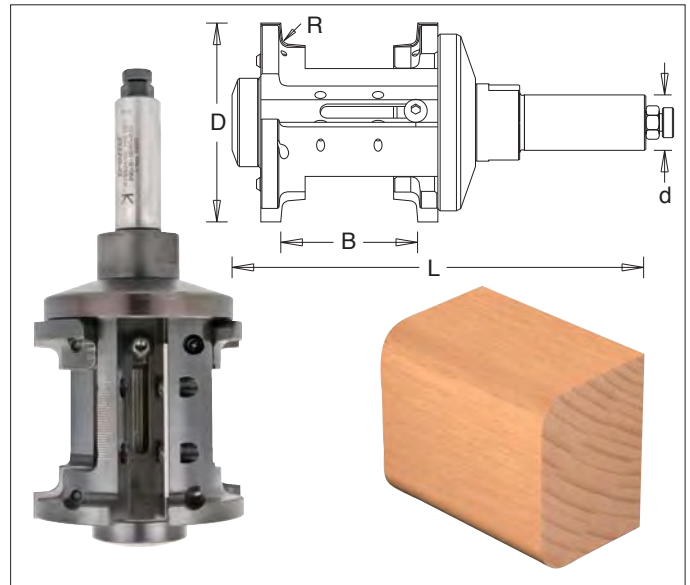


KEY

Spare Blades & Scorers -Product Reference ending in /10 are sold in packs of ten.
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DISPOSABLE INSERT ROUNDING & CHAMFERING CUTTERS - TWO FLUTE

- Suitable for producing round over and chamfer cuts in softwood, hardwood and man-made board.
- Replaceable inserts ensure a constant cutting diameter and finish quality.
- Recommended RPM (n): 10,000.



øD	R	B	L	ød	Product Ref.	Stock	Price
90	3	18-58	186	20	IT/852 413 0	N	£561.84
90	4	18-58	186	20	IT/852 414 0	Y	£561.84
90	5	18-58	186	20	IT/852 415 0	Y	£561.84
90	6	18-58	186	20	IT/852 416 0	Y	£561.84
90	8	20-60	186	20	IT/852 418 0	Y	£573.29
90	10	22-62	186	20	IT/852 420 0	N	£573.29
90	45°*	12-62	186	20	IT/852 421 0	Y	£573.29

*45° tip has 6mm cut length

COMPLETE SET

90	3-10 & 45°	12-62	186	20	IT/852 410 0	Y	£892.67
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SPARE PARTS

Description	T.C. Blade		
	R3	R4	R5
Product Ref. Top	IT/310 896 3	IT/310 896 4	IT/310 896 5
Product Ref. Bottom	IT/310 896 3L	IT/310 896 4L	IT/310 896 5L
Price	£13.59	£13.59	£13.59

T.C. Blade			
R6	R8	R10	45°
IT/310 896 6	IT/310 896 8	IT/310 897 0	IT/310 300 1
IT/310 896 6L	IT/310 896 8L	IT/310 897 0L	IT/310 300 1L
£13.59	£13.59	£13.59	£14.14

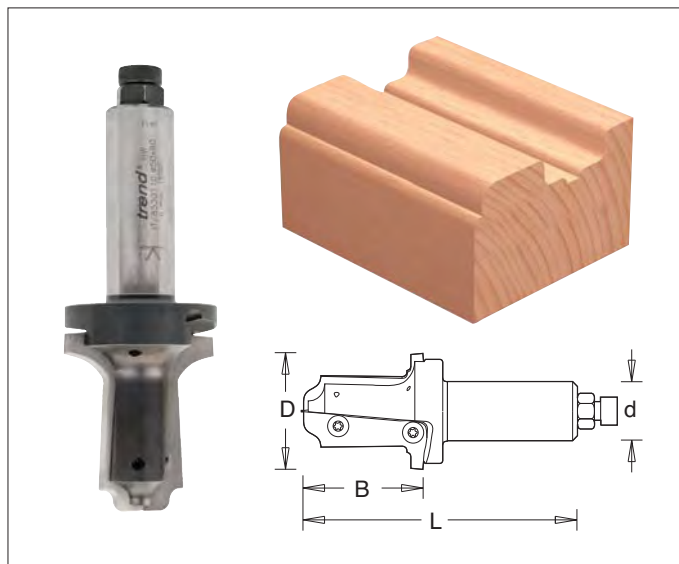
T.C. Blade	Torx® Screw	Arbor	Arbor Screw
IT/300 053 1/10	IT/193 395 0	IT/190 810 0	IT/193 608 0
60x12x1.5	M4x6	L=186x20mm	M5x20
£55.49	£1.60	£109.60	£1.65

Hex Screw	Hex Key	Torx® Key	Cover
IT/193 076 0	IT/194 003 6	IT/194 101 5	IT/199 715 0
M6x12	S4	T15	-
£1.65	£5.14	£3.09	£16.33

All prices are exclusive of VAT

DISPOSABLE INSERT MULTI PURPOSE PROFILE ROUTER CUTTERS - TWO FLUTE

- Suitable for producing profiles in softwood, hardwood and man-made board.
- Tool will be supplied with standard inserts (profile 1 or 2), or can be supplied with special inserts, ground to the customer's own specification.
- Replaceable inserts ensure a constant cutting diameter and finish quality.
- For use on routers and machining centres with CNC control.
- Recommended RPM (n): 18,000.

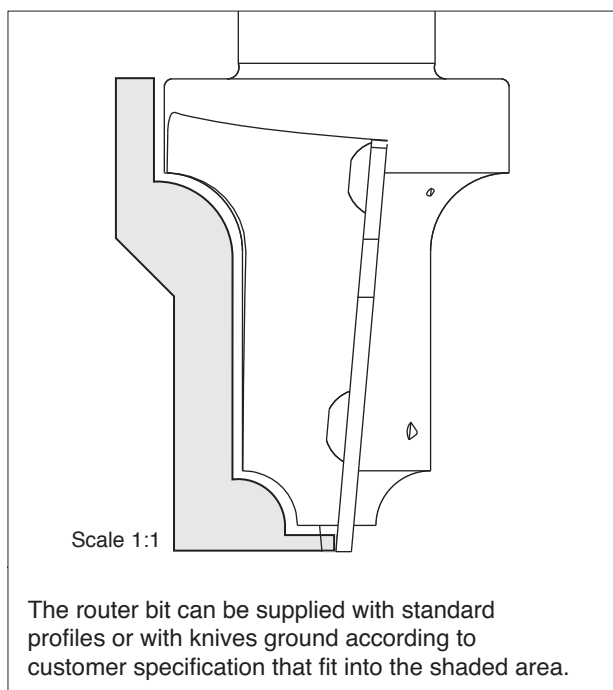


øD	B	Profile	L	ød	Product Ref.	Stock	Price
50	50	Special	120	20	Special *	N	Special
50	50	1	120	20	IT/853 011 0	Y	£238.10
50	50	2	120	20	IT/853 012 0	Y	£238.10

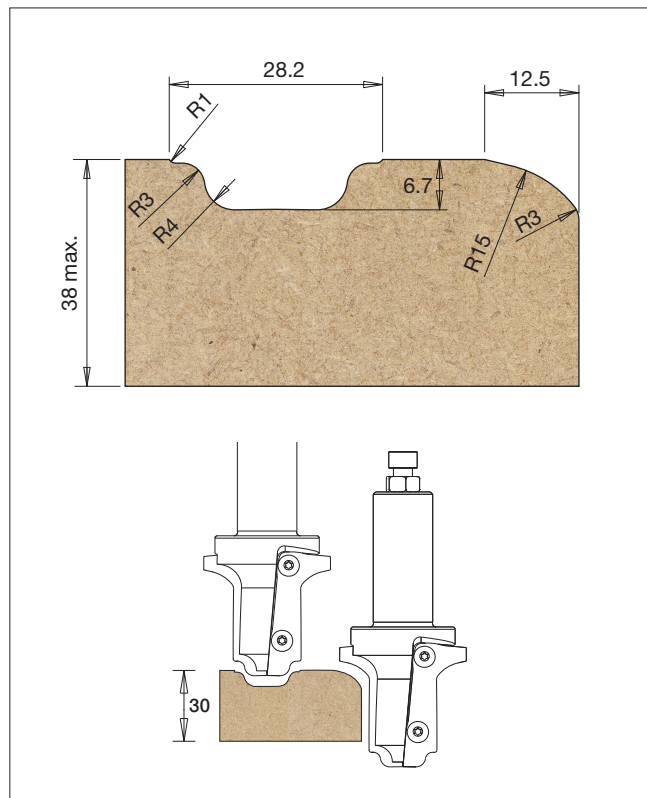
* Please contact our technical department on 01923 224681 for price & delivery on special profiles.

SPARE PARTS

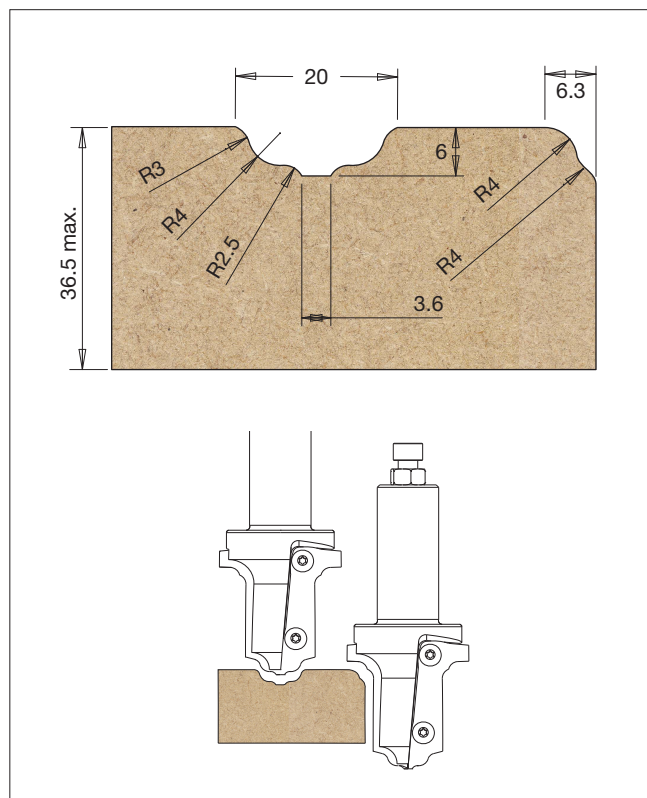
Desc.	T.C. Blade Profile 1	T.C. Blade Profile 2	Torx® Screw	Torx® Key
Prod. Ref.	IT/315 300 1	IT/315 300 2	IT/193 395 0	IT/194 101 5
Size	54x20x2	54x20x2	M4x6	T15
Price	£35.88	£35.88	£1.60	£3.09



PROFILE 1



PROFILE 2

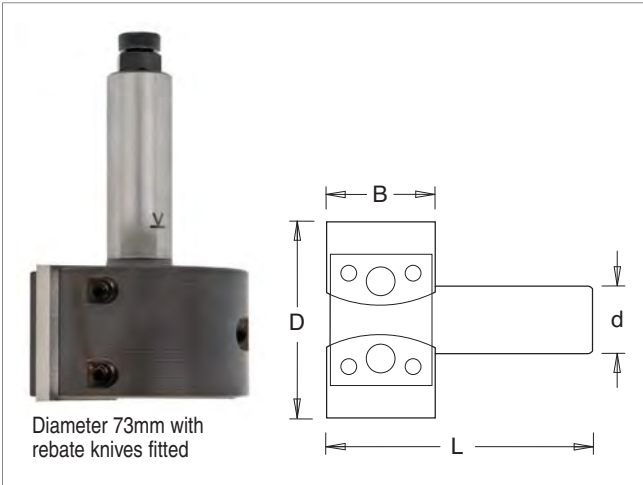


KEY

Spare Blades & Scorers - Product Reference ending in /10 are sold in packs of ten.
Stock - Y means normally kept in stock for next day delivery.
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MULTI PROFILE ROUTER CUTTERS FOR 40MM & 50MM PROFILE KNIVES - TWO FLUTE

- Multi profile router cutter to take the complete range of 40mm and 50mm profile knives shown on pages 58 to 86.
- Suitable for producing profiles in softwood and hardwood.
- Supplied with rebate knives as standard.
- For use on routers and machining centres with CNC control.
- Recommended RPM (n): 12,000.



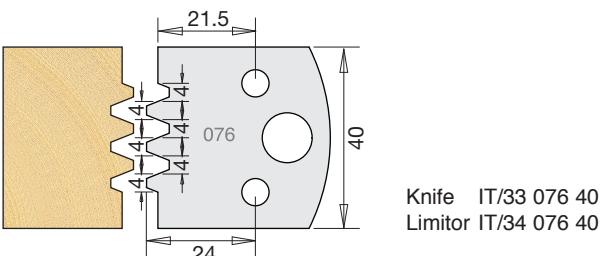
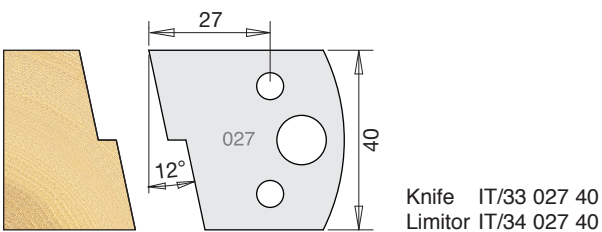
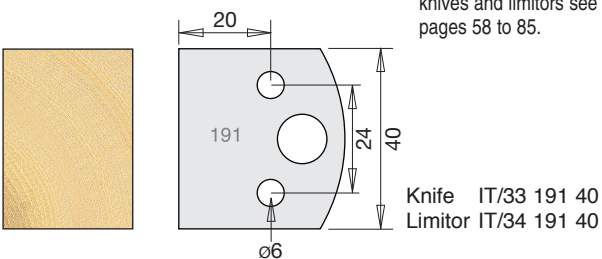
øD	B	L	ød	Product Ref.	Stock	Price
66	40/50	90	20	IT/871 006 1	Y	£149.15
66	40/50	90	25	IT/871 006 0	Y	£149.15

SPARE PARTS

Desc.	Rebate Knife	Wedge	Set Screw	Hex Key
Prod. Ref.	IT/331 904 0	IT/199 802 0	IT/193 026 6	IT/194 003 6
Size	40x20x4	L=38	M8x12	S4
Price	£6.42	£10.28	£1.60	£5.14

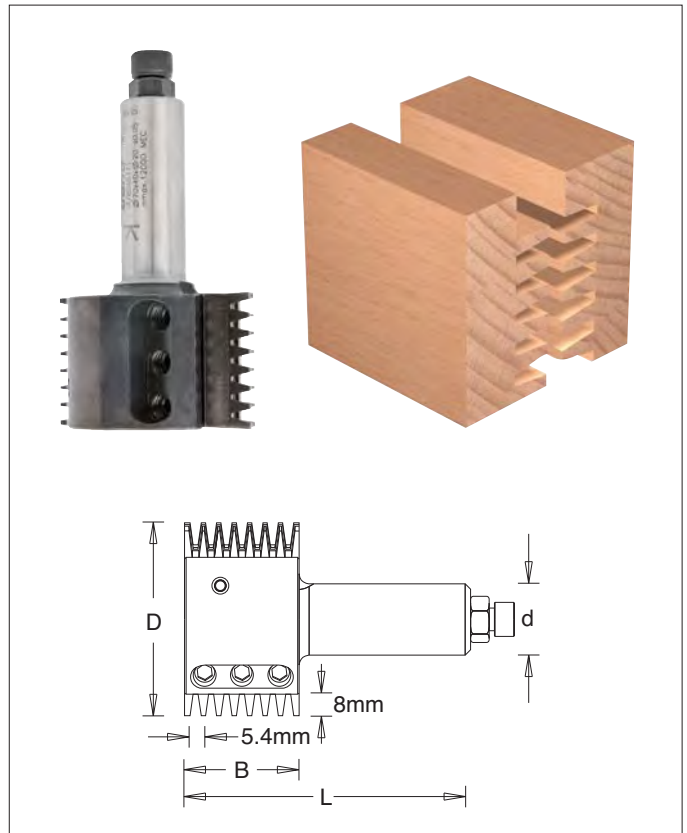
PROFILE EXAMPLES

For the full range of available knives and limitors see pages 58 to 85.



DISPOSABLE INSERT FINGER JOINT ROUTER CUTTER - TWO FLUTE

- Suitable for producing 8mm deep finger joints in softwoods, hardwoods and man-made boards.
- For use on routers and machining centres with CNC control.
- Recommended RPM (n): 12,000.



øD	B	L	ød	Product Ref.	Stock	Price
70	40	100	20	IT/856 011 1	Y	£338.40
70	40	100	25	IT/856 011 0	Y	£338.40

SPARE PARTS

Description	T.C. Blade	Backing Plate	Hex Screw
Product Ref.	IT/315 650 2	IT/199 110 1	IT/193 026 6
Size	40x28x1.5	40x22.5x4	M8x12
Price	£43.49	£18.50	£1.60

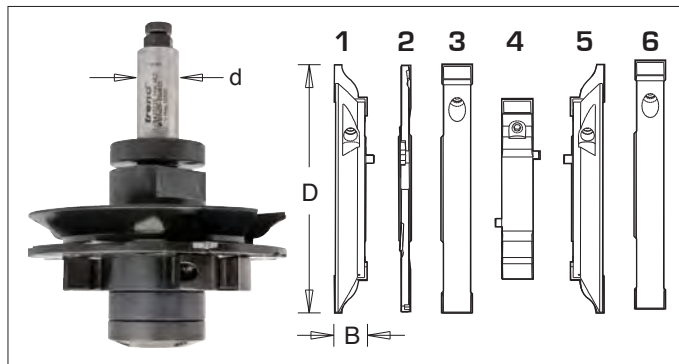
Wedge	Hex Key
IT/199 022 0	IT/194 015 0
40x13.5x8	S4
£9.29	£1.65

KEY

Stock - Y means normally kept in stock for next day delivery.
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DISPOSABLE INSERT PROFILE - COUNTER/PROFILE ROUTER CUTTER SET - TWO FLUTE

- Suitable for various thickness profile, counter/profile joints in softwoods, hardwoods and man-made boards for kitchen and internal doors.
- Set 1, 2 and 3 come complete with profile 1 only.
- For use on routers and machining centres with CNC control.
- Recommended RPM (n): 12,000.



øD	Cutters	B	Fig.	L	ød	Product Ref.	Stock	Price
120	1,2,3,4	20-35	1,2	135	20	IT/842 021 0	N	£654.06
120	1,2,3,4,5	20-35	1,2,3	125	20	IT/842 022 0	Y	£910.55
120	1,2,3,	20-35	1,3,4	125	20	IT/842 061 0	N	£977.72
	2x4,5,6							

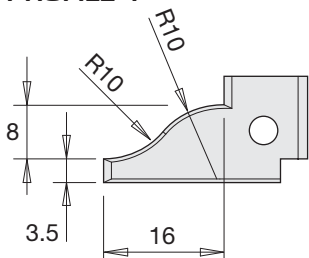
INDIVIDUAL TOOLS

øD	B	Cutter No.	Profile	z	Product Ref.	Stock	Price
120	16	1	1	2	IT/842 111 3	N	£231.07
120	16	1	2	2	IT/842 211 3	N	£231.07
120	16	1	3	2	IT/842 311 3	N	£231.07
120	16	1	4	2	IT/842 411 3	N	£231.07

120	5	2	4	IT/842 012 3	N	£188.21
120	15	3	2	IT/842 013 3	Y	£173.02
88	15	4	2	IT/842 014 3	N	£173.02

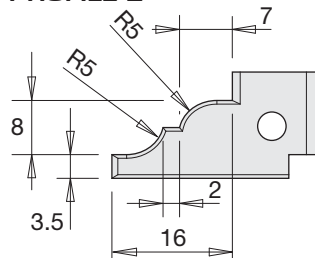
120	16	5	1	2	IT/842 115 3	Y	£231.07
120	16	5	2	2	IT/842 215 3	N	£231.07
120	16	5	3	2	IT/842 315 3	N	£231.07
120	16	5	4	2	IT/842 415 3	N	£231.07
120	15	6	2	IT/842 016 3	N	£231.07	

PROFILE 1



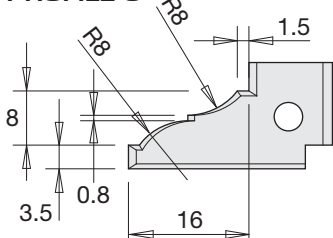
IT/311 752 0 - for cutter 1
IT/311 752 0L - for cutter 5

PROFILE 2



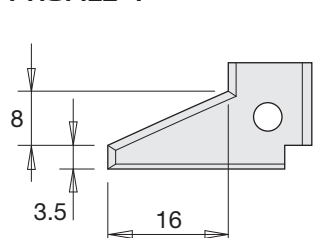
IT/311 752 1 - for cutter 1
IT/311 752 1L - for cutter 5

PROFILE 3

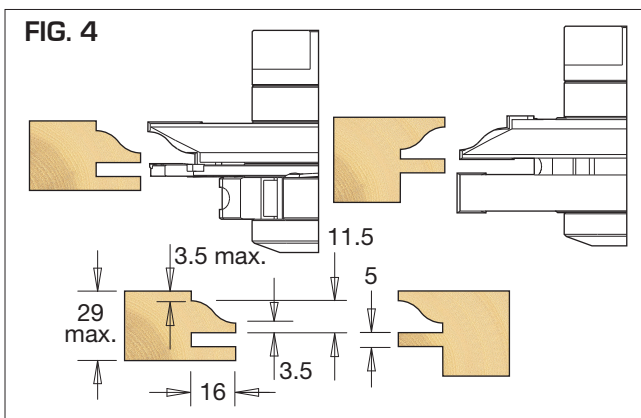
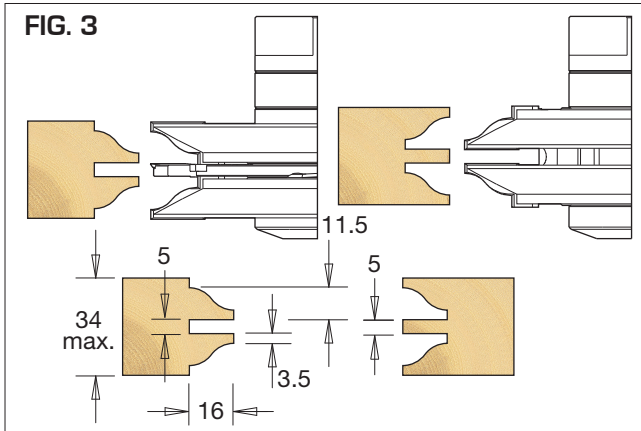
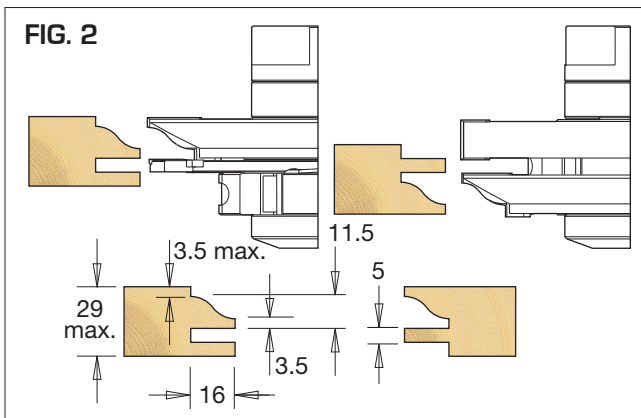
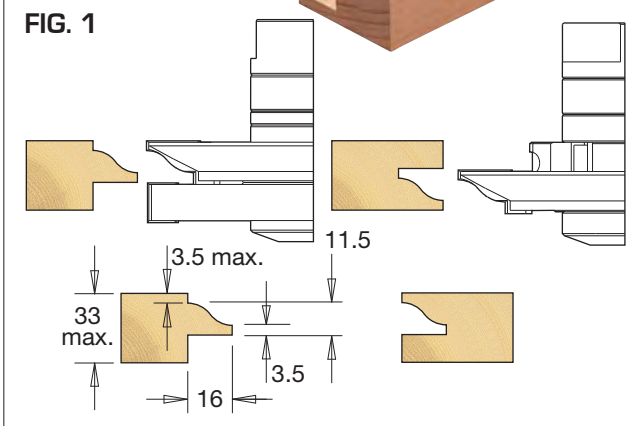
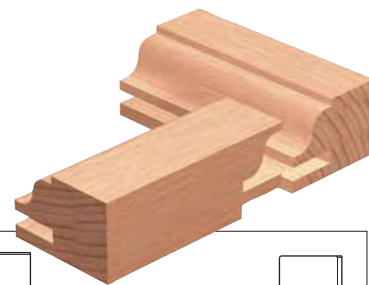


IT/311 752 2 - for cutter 1
IT/311 752 2L - for cutter 5

PROFILE 4

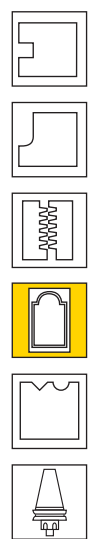


IT/311 752 3 - for cutter 1
IT/311 752 3L - for cutter 5









KEY



Stock - Y means normally kept in stock for next day delivery.
N means not normally held in stock, delivery in a short time.











**DISPOSABLE INSERT PROFILE (CONTINUED)
SPARE PARTS**





CUTTER 1				
Desc.	Wedge	Set Screw	Stopper Screw	Hex Key
Prod. Ref.	IT/199 032 6	IT/193 026 5	IT/193 148 2	IT/194 003 5
Size	L=14	M6x16	M4x5.6	S3
Price	£7.20	£1.03	£1.14	£4.10





CUTTER 2		
Desc.	T.C. Blade	T.C. Blade Nut
Prod. Ref.	IT/300 850 4/10	IT/300 850 2/10
Size	18x18x2.5	14x14x1.2
Price	£70.69	£27.75


	
Torx® Screw	Torx® Key
IT/193 030 0	IT/194 110 0
M4x4	T9
£2.06	£2.06

CUTTER 3				
Desc.	T.C. Blade	Wedge	Set Screw	Hex Key
Prod. Ref.	IT/311 451 2/10	IT/199 038 5	IT/193 026 5	IT/194 003 5
Size	14.3x12x1.5	L=13.5	M6x16	S3
Price	£48.30	£7.20	£1.03	£4.10

CUTTER 4				
Desc.	T.C. Blade	Wedge	Set Screw	Hex Key
Prod. Ref.	IT/300 052 7/10	IT/199 038 5	IT/193 026 5	IT/194 003 5
Size	15x12x1.5	L=13.5	M6x16	S3
Price	£27.75	£7.20	£1.03	£4.10

CUTTER 5				
Desc.	Wedge	Set Screw	Stopper Screw	Hex Key
Prod. Ref.	IT/199 032 6	IT/193 026 5	IT/193 148 2	IT/194 003 5
Size	L=14	M6x16	M4x5.6	S3
Price	£7.20	£1.03	£1.14	£4.10

CUTTER 6				
Desc.	T.C. Blade	Wedge	Set Screw	Hex Key
Prod. Ref.	IT/311 451 2/10	IT/199 038 5	IT/193 026 5	IT/194 003 5
Size	14.3x12x1.5	L=13.5	M6x16	S3
Price	£48.30	£7.20	£1.03	£4.10

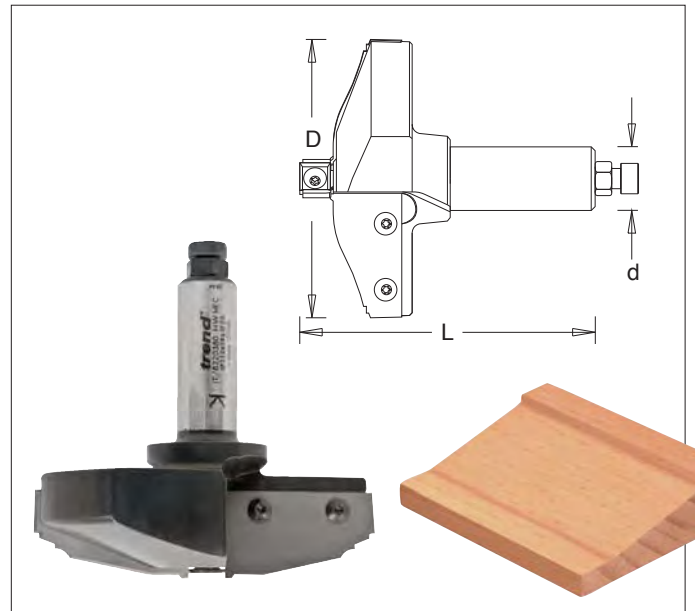
	T.C. Blades 			
	Profile 1	Profile 2	Profile 3	Profile 4
Size	15.7x30x1	15.7x30x1	15.7x30x1	15.7x30x1
CUTTER 1	IT/311 752 0	IT/311 752 1	IT/311 752 2	IT/311 752 3
	£26.09	£26.09	£26.09	£26.09
CUTTER 5	IT/311 752 0L	IT/311 752 1L	IT/311 752 2L	IT/311 752 3L
	£26.09	£26.09	£26.09	£26.09

KEY

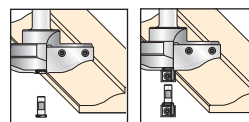
Spare Knives & Scorers - Product Reference ending in /10 are sold in packs of ten.
Stock - Y means normally kept in stock for next day delivery.
N means not normally held in stock, delivery in a short time.


**DISPOSABLE INSERT MULTI PROFILE
RAISED PANEL ROUTER CUTTERS
- TWO FLUTE**

- Suitable for producing various raised panel profiles in softwoods, hardwoods and man-made boards.
- Cutter can also be supplied complete with a small trimmer, IT/807 301 5, for machining the edge of the panel.
- For use on routers and machining centres with CNC control.
- Recommended RPM (n): 12,000.



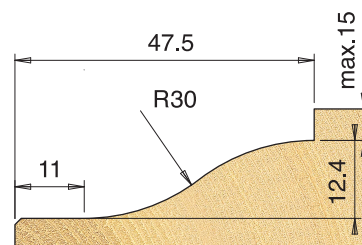
øD	Profile No.	L	ød	Product Ref.	Stock	Price
112	1	110	20	IT/822 031 0	Y	£172.50
112	2	110	20	IT/822 032 0	Y	£172.50
112	3	110	20	IT/822 033 0	N	£172.50
112	4	110	20	IT/822 034 0	Y	£172.50
112	5	110	20	IT/822 035 0	Y	£172.50
112	6	110	20	IT/822 036 0	N	£172.50
112	7	110	20	IT/822 037 0	Y	£172.50
112	8	110	20	IT/822 038 0	Y	£172.50



 Cutter can also be supplied with an 18mm diameter trimmer, Product Ref. IT/807 301 5.

TRIMMER BIT

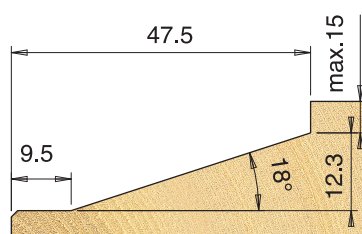
A	øD	ød	B	L	Product Ref.	Stock	Price
90°	18	8	12	31.8	IT/807 301 5	Y	£58.58



T.C. BLADES

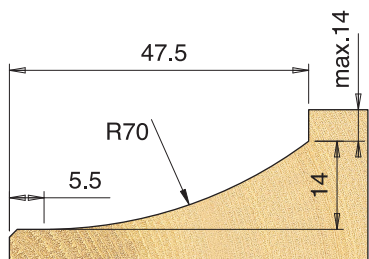
PROFILE 1

Prod. Ref.	IT/352 220 1
Size	50x30.5x2
Price	£33.71



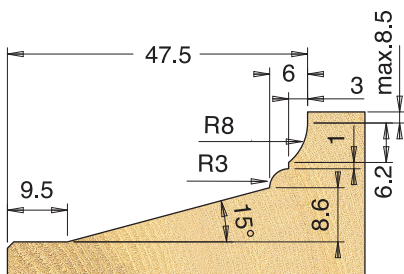
PROFILE 2

Prod. Ref.	IT/352 220 2
Size	50x30.5x2
Price	£33.71



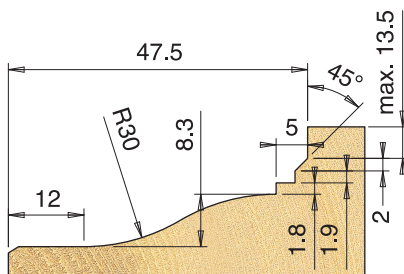
PROFILE 3

Prod. Ref.	IT/352 220 3
Size	50x30.5x2
Price	£33.71



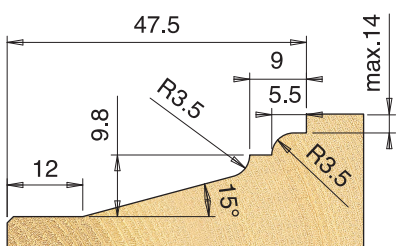
PROFILE 4

Prod. Ref.	IT/352 220 4
Size	50x30.5x2
Price	£33.71



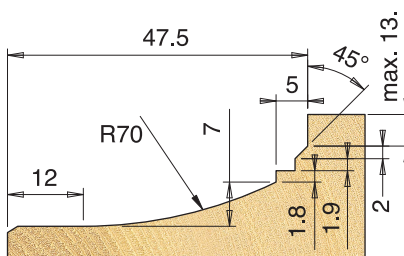
PROFILE 5

Prod. Ref.	IT/352 220 5
Size	50x30.5x2
Price	£33.71



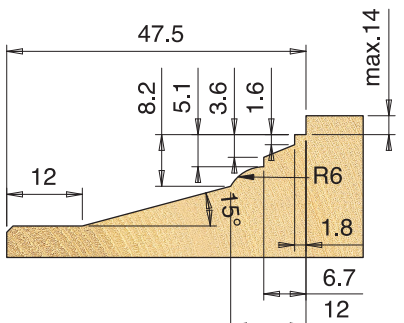
PROFILE 6

Prod. Ref.	IT/352 220 6
Size	50x30.5x2
Price	£33.71



PROFILE 7

Prod. Ref.	IT/352 220 7
Size	50x30.5x2
Price	£33.71



PROFILE 8

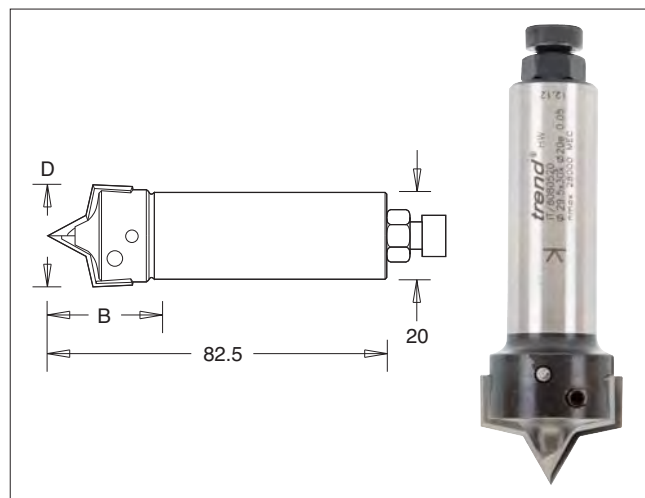
Prod. Ref.	IT/352 220 8
Size	50x30.5x2
Price	£33.71

SPARE PARTS

Desc.	Torx® Screw	Torx® Key	Hex Screw	Hex Key
Prod. Ref.	IT/193 148 1	IT/194 101 5	IT/193 039 5	IT/194 020 0
Size	M4x5.6	T15	M4x5	S2
Price	£1.59	£3.09	£1.03	£1.60

DISPOSABLE INSERT MULTI PROFILE ROUTER CUTTERS - TWO FLUTE

- Suitable for producing various profiles in softwoods, hardwoods and man-made boards.
- Tool supplied with standard inserts (B51 – B55).
- For use on routers and machining centres with CNC control.
- Recommended RPM (n): 28,000.



øD	a	R	Profile	Product Ref.	Stock	Price
29.5	45°	-	B51	IT/808 051 0	Y	£164.35
29.5	30°	-	B52	IT/808 052 0	Y	£164.35
29.5	-	6.3	B53	IT/808 053 0	Y	£164.35
29.5	-	12.5	B54	IT/808 054 0	Y	£164.35
29.5	-	4.0	B55	IT/808 055 0	Y	£164.35

T.C. BLADES

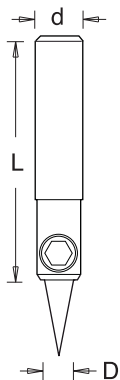
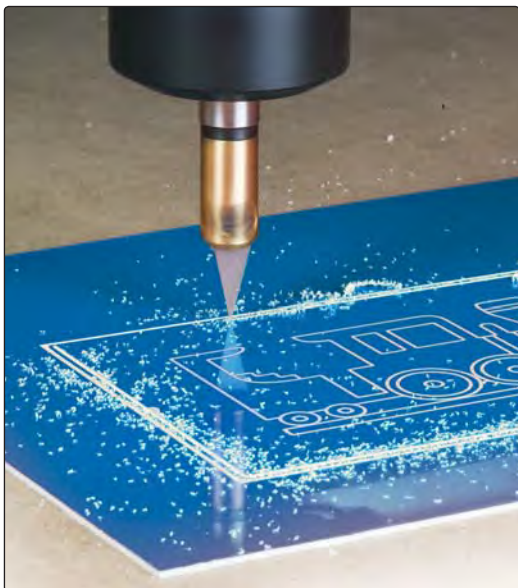
Ref. IT/351 051 0	Ref. IT/351 050 5	Ref. IT/351 060 5
Size 31x25x2	Size 31x25x2	Size 31x24x2
Price £9.24	Price £9.24	Price £9.24
Ref. IT/351 061 0	Ref. IT/351 310 5	
Size 31x24x2	Size 31x24x2	
Price £9.24	Price £9.24	

SPARE PARTS

Description	Wedge	Set Screw	Hex Key
Product Ref.	IT/199 050 0	IT/193 049 0	IT/194 008 0
Size	L=28	M5x10	S2.5
Price	£9.29	£1.60	£2.06

DISPOSABLE INSERT ROUTER CUTTERS - ONE FLUTE

- Unique tool body engineered to quickly interchange inserts while mounted on the machine to eliminate down time.
- Tool bodies are expertly balanced for virtually vibration free cuts and minimal stress on the tool and spindle.
- For use on routers and machining centres with CNC control.



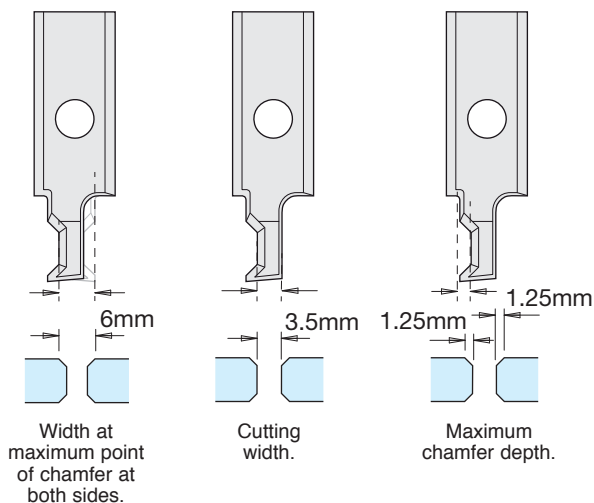
BODY ONLY KNIFE NOT INCLUDED

øD	L	ød	Product Ref.	Stock	Price
12	65	6.35	IT/G185 3X0 4	Y	£29.96
12	65	8	IT/G185 3X0 5	Y	£29.96
12	65	12	IT/G185 3X0 8	Y	£29.96
12	65	12.7	IT/G185 3X0 9	Y	£29.96

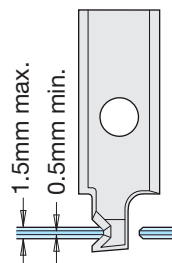
FOR CUTTING, PLUNGING & CHAMFERING PLASTIC

- Suitable for cutting and chamfering in a variety of plastic sheet products. 13 different inserts are available for various sheet thicknesses.
- Time saving system cuts and chamfers both sides of the sheet in one pass without melting the edges.
- Tool designed for use with all forms of plastic sheet materials for sign making, lettering and producing display cases.
- Designed to only penetrate the spoil-board by 0.2mm.

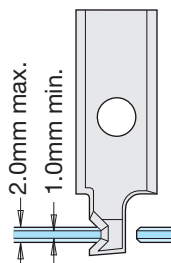
ALL CUTTING, PLUNGING & CHAMFERING INSERT KNIVES SHARE THE SAME SPECIFICATIONS AS SHOWN BELOW



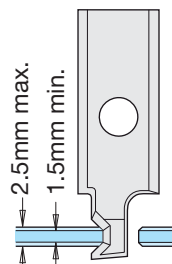
CUTS, PLUNGES & CHAMFERS THE TOP & BOTTOM OF BOTH SIDES OF PLASTIC



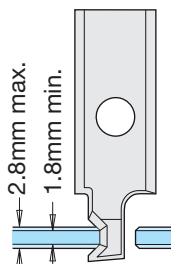
Product Ref.	Stock	Price
IT/318 504 0	Y	£20.33



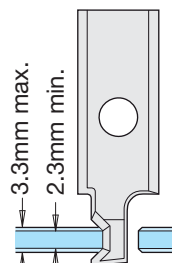
Product Ref.	Stock	Price
IT/318 503 6	Y	£20.33



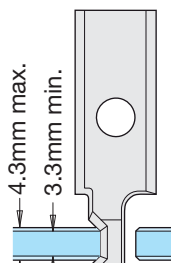
Product Ref.	Stock	Price
IT/318 500 2	Y	£20.33



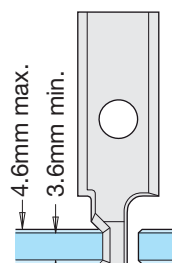
Product Ref.	Stock	Price
IT/318 503 7	Y	£20.33



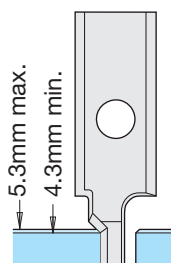
Product Ref.	Stock	Price
IT/318 504 1	Y	£20.33



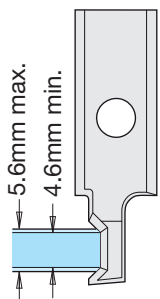
Product Ref.	Stock	Price
IT/318 504 2	Y	£20.33



Product Ref.	Stock	Price
IT/318 501 2	Y	£20.33



Product Ref.	Stock	Price
IT/318 504 3	Y	£20.33

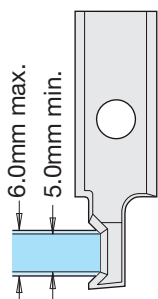


SPARE PARTS

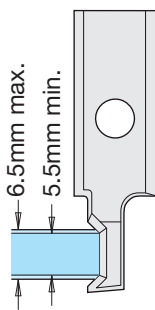
Desc.	Set Screw	Hex Key
Ref.	IT/193 807 0	IT/194 003 5
Size	M4x6	S3
Price	£1.65	£4.10

Product Ref.	Stock	Price
IT/318 501 3	Y	£20.33

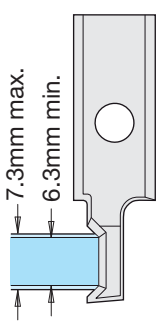
CHAMFERS THE TOP & BOTTOM OF ONE SIDE ONLY



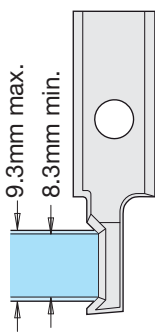
Product Ref.	Stock	Price
IT/318 500 3	Y	£20.33



Product Ref.	Stock	Price
IT/318 504 4	Y	£20.33



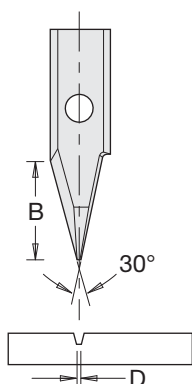
Product Ref.	Stock	Price
IT/318 503 8	Y	£20.33



Product Ref.	Stock	Price
IT/318 503 9	Y	£20.33

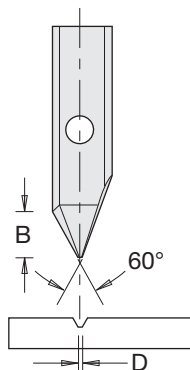
FOR ENGRAVING, LETTERING & SIGN MAKING

- Suitable for cutting laminated materials, veneers, MDF, plastics, wood, solid surface and carbon fibre.
- 29 Solid Carbide Inserts are available in various engraving profiles.



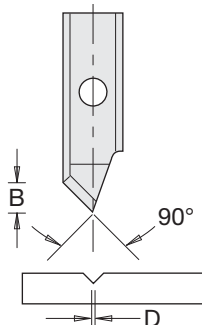
V-GROOVE 30° ENGRAVING INSERT KNIVES

øD	B	Product Ref.	Stock	Price
0.12	16	IT/318 500 5*	Y	£18.84
0.24	16	IT/318 500 6*	Y	£18.84
0.5	16	IT/318 500 7	Y	£18.84
0.75	16	IT/318 500 8	Y	£18.84
1	16	IT/318 500 9	Y	£18.84
1.5	16	IT/318 501 0	Y	£18.84
2.25	16	IT/318 501 1	Y	£18.84



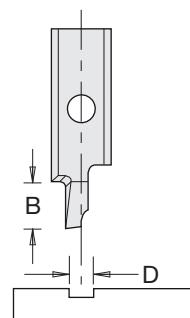
V-GROOVE 60° ENGRAVING INSERT KNIVES

øD	B	Product Ref.	Stock	Price
0.12	7.5	IT/318 501 8	Y	£18.84
0.24	7.5	IT/318 501 9	Y	£18.84
0.5	7.5	IT/318 502 0	Y	£18.84
0.75	7.5	IT/318 502 1	Y	£18.84
1	7.5	IT/318 502 2	Y	£18.84
1.5	7.5	IT/318 502 3	Y	£18.84
2.25	7.5	IT/318 502 4	Y	£18.84



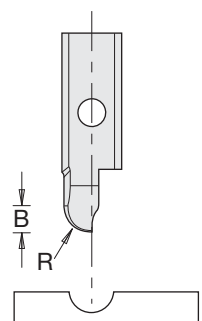
V-GROOVE 90° ENGRAVING INSERT KNIVES

øD	B	Product Ref.	Stock	Price
0.12	4	IT/318 501 4	Y	£18.84
0.24	4	IT/318 501 5	Y	£18.84
0.5	4	IT/318 501 6	Y	£18.84
1	4	IT/318 501 7	Y	£18.84



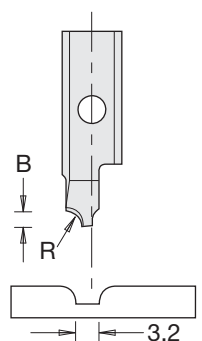
STRAIGHT ENGRAVING INSERT KNIVES

øD	B	Product Ref.	Stock	Price
3.2	5	IT/318 503 2	Y	£18.84
4.76	6	IT/318 503 3	Y	£18.84
7.94	7	IT/318 503 4	Y	£18.84
6.35	8	IT/318 503 5	Y	£18.84



CORE BOX ENGRAVING INSERT KNIVES

øD	B	Product Ref.	Stock	Price
1.6	5	IT/318 502 8	Y	£18.84
2.4	6	IT/318 502 9	Y	£18.84
3.2	7	IT/318 503 0	Y	£18.84
4	8	IT/318 503 1	Y	£18.84

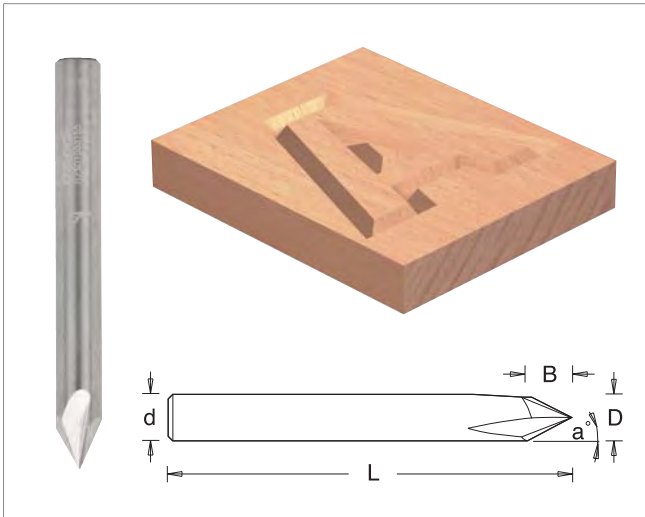


CORNER ROUND ENGRAVING INSERT KNIVES

R	B	Product Ref.	Stock	Price
1.6	8	IT/318 502 5	Y	£18.84
2.4	8	IT/318 502 6	Y	£18.84
3.2	8	IT/318 502 7	Y	£18.84

SOLID CARBIDE V-GROOVING & ENGRAVING ROUTER CUTTER - THREE FLUTE

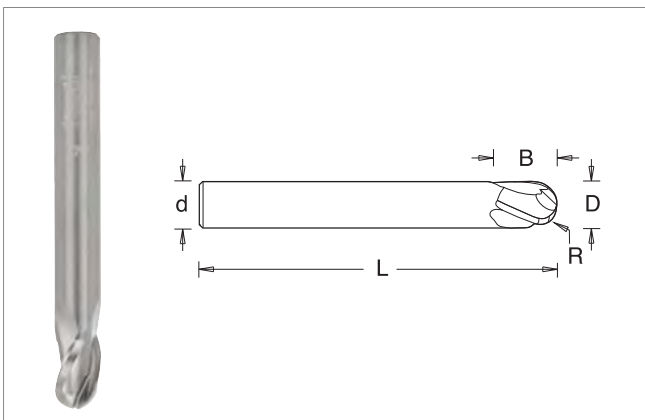
- Suitable for producing v-grooves in softwoods, hardwoods and man-made boards.
- Tool designed for engraving and sign writing.
- For use on routers and machining centres with CNC control.
- Recommended RPM (n): 24,000.



øD	a	B	L	ød	Product Ref.	Stock	Price
8	60°	7	70	8	IT/SO105 315 5	Y	£46.52

SOLID CARBIDE RADIUS GROOVING & ENGRAVING ROUTER CUTTERS - THREE FLUTE

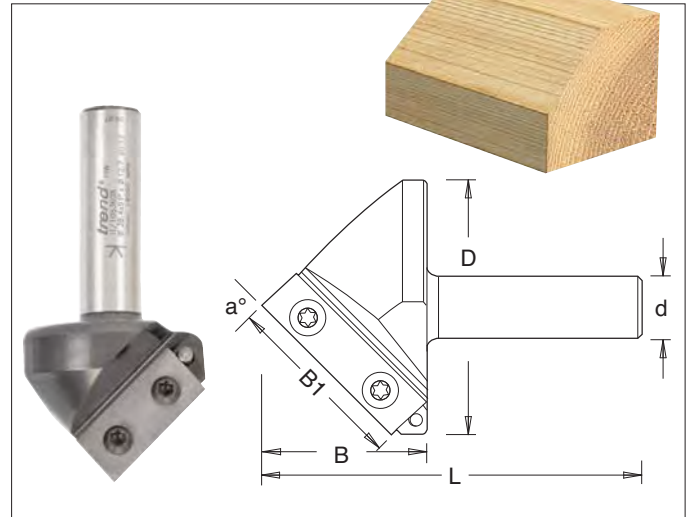
- Suitable for producing round-bottomed grooves in softwoods, hardwoods and man-made boards.
- Tool designed for engraving and 3D carving.
- For use on routers and machining centres with CNC control.
- Recommended RPM (n): 24,000.



øD	R	B	L	ød	Product Ref.	Stock	Price
6	3	9	60	6	IT/SO106 304 3	Y	£42.11
8	4	11	70	8	IT/SO106 308 5	Y	£46.52
10	5	13	80	10	IT/SO106 309 7	Y	£57.17

DISPOSABLE INSERT V GROOVE CUTTERS - 12.7MM SHANK

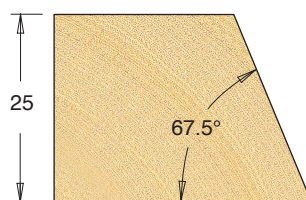
- Complete with one or two cutting flutes.
- Suitable for producing chamfer cuts, grooves and engraving in softwood, hardwood and man-made board.
- Replaceable inserts ensure a constant cutting diameter and finish quality.
- For use on routers and machining centres with CNC control.
- Recommended RPM (n): 18,000.



Ød = 12.7mm

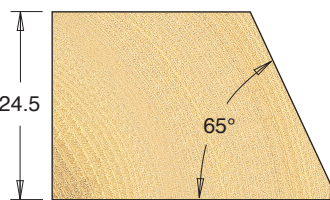
øD	a	B	B1	L	Z	Product Ref.	Stock	Price
20.8	45°	25.0	27.0	60.3	1	IT/105 405 8	Y	£49.86
22.8	50°	24.5	27.0	65	1	IT/105 352 8	Y	£52.68
26.0	60°	23.4	27.0	60.4	1	IT/105 406 8	Y	£55.90
31.0	70°	22.1	27.0	66	1	IT/105 356 8	Y	£57.02
38.4	91°	19.0	27.0	76.5	1	IT/105 360 8	Y	£80.27
38.4	90°	19.0	27.0	76.5	1	IT/105 361 8	Y	£78.70
41.2	100°	17.3	27.0	81	1	IT/105 362 8	Y	£81.92
44.2	110°	15.5	27.0	81	1	IT/105 364 8	Y	£88.41
51.6	120°	14.7	29.8	77.7	2	IT/105 400 8	Y	£105.26
54.0	130°	12.7	29.8	77.0	2	IT/105 366 8	Y	£109.60
57.6	150°	7.6	29.5	75.0	2	IT/105 390 8	Y	£110.63
58.7	160°	5.0	29.8	70.7	2	IT/105 368 8	Y	£115.60

SPARE PARTS



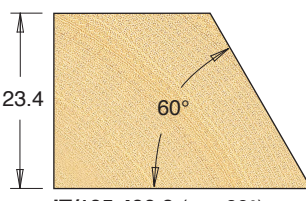
IT/105 405 8 (a = 45°)

Desc.	T.C. Blade	Torx® Screw
Ref.	IT/310 523 0	IT/193 354 8
Size	27x9x1.5	M3.5x4.8
Price	£18.03	£1.60



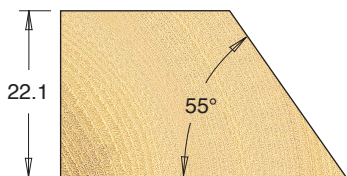
IT/105 352 8 (a = 50°)

Ref.	IT/310 523 0	IT/193 354 8
Size	27x9x1.5	M3.5x4.8
Price	£18.03	£1.60



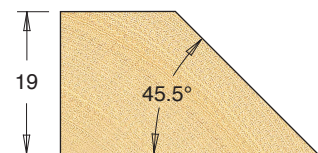
IT/105 406 8 (a = 60°)

Ref.	IT/310 523 0	IT/193 354 8
Size	27x9x1.5	M3.5x4.8
Price	£18.03	£1.60



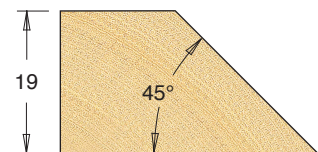
IT/105 356 8 (a = 70°)

Ref.	IT/310 523 0	IT/193 354 8
Size	27x9x1.5	M3.5x4.8
Price	£18.03	£1.60



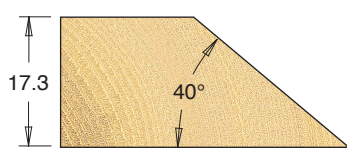
IT/105 360 8 (a = 91°)

Ref.	IT/310 500 3	IT/193 354 8
Size	28x12x1.5	M3.5x4.8
Price	£13.24	£1.60



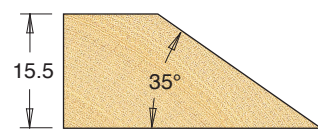
IT/105 361 8 (a = 90°)

Ref.	IT/310 500 3	IT/193 354 8
Size	28x12x1.5	M3.5x4.8
Price	£13.24	£1.60



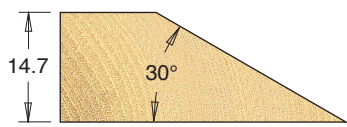
IT/105 362 8 (a = 100°)

Ref.	IT/310 500 3	IT/193 354 8
Size	28x12x1.5	M3.5x4.8
Price	£13.24	£1.60



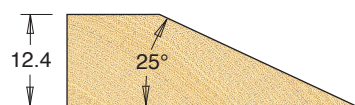
IT/105 364 8 (a = 110°)

Ref.	IT/310 500 3	IT/193 354 8
Size	28x12x1.5	M3.5x4.8
Price	£13.24	£1.60



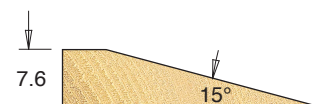
IT/105 400 8 (a = 120°)

Ref.	IT/310 500 6	IT/193 148 1
Size	29.8x12x1.5	M4x5.6
Price	£13.24	£1.59



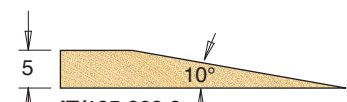
IT/105 366 8 (a = 130°)

Ref.	IT/310 500 6	IT/193 148 1
Size	29.8x12x1.5	M4x5.6
Price	£13.24	£1.59



IT/105 390 8 (a = 150°)

Ref.	IT/310 500 6	IT/193 148 2
Size	29.8x12x1.5	M4x5.6
Price	£13.24	£1.14



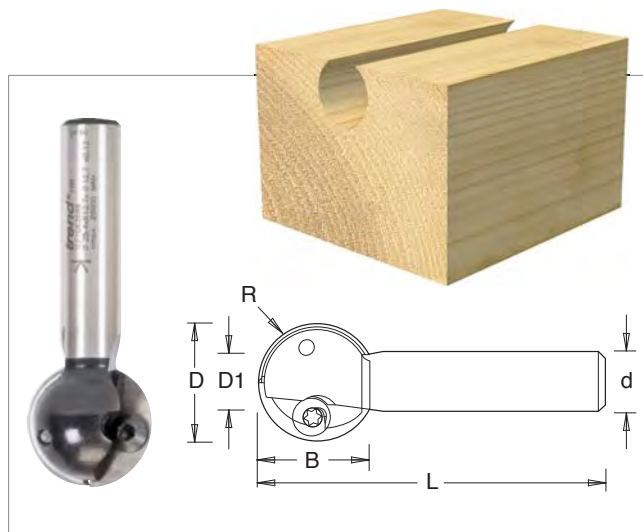
IT/105 368 8 (a = 160°)

Ref.	IT/310 500 5	IT/193 148 2
Size	29.8x12x1.5	M4x5.6
Price	£13.24	£1.14

Desc.	Torx® Key
Ref.	IT/194 101 5
Size	T-15
Price	£3.09

DISPOSABLE INSERT BALL GROOVER ROUTER CUTTERS - 12.7MM SHANK

- Complete with two cutting flutes.
- Suitable for 3D carving and routing of ball grooves in softwood, hardwood and man-made board.
- A groove at the D1 width should be run with a straight router cutter before running the ball groove.
- Replaceable inserts ensure a constant cutting diameter and finish quality.
- For use on routers and light machining centres with CNC control.
- Recommended RPM (n): 18,000.



Ød = 12.7mm

øD	D1	R	B	L	Product Ref	Stock	Price
12.7	10.3	6.35	10.3	66.7	IT/106 362 8	Y	£41.84
16.0	13.3	8.0	14.0	70.0	IT/106 364 8	Y	£45.56
19.0	15.0	9.5	17.0	66.7	IT/106 366 8	Y	£53.72
25.4	17.0	12.7	23.8	73.0	IT/106 368 8	Y	£57.02

SPARE PARTS

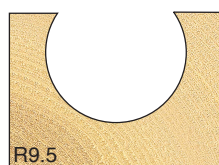
Desc.	T.C. Blade	Torx® Screw	Torx® Key
Ref.	IT/310 650 1	IT/193 400 0	IT/194 111 0
Size	6.35x10.3	M3x4	T-9
Price	£16.79	£1.65	£9.25

IT/106 362 8



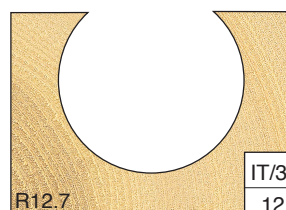
IT/310 650 2	IT/193 400 0	IT/194 111 0
8x14	M3x4	T-9
£18.03	£1.65	£9.25

IT/106 364 8



IT/310 650 3	IT/193 400 0	IT/194 111 0
9.5x17	M3x4	T-9
£18.03	£1.65	£9.25

IT/106 366 8

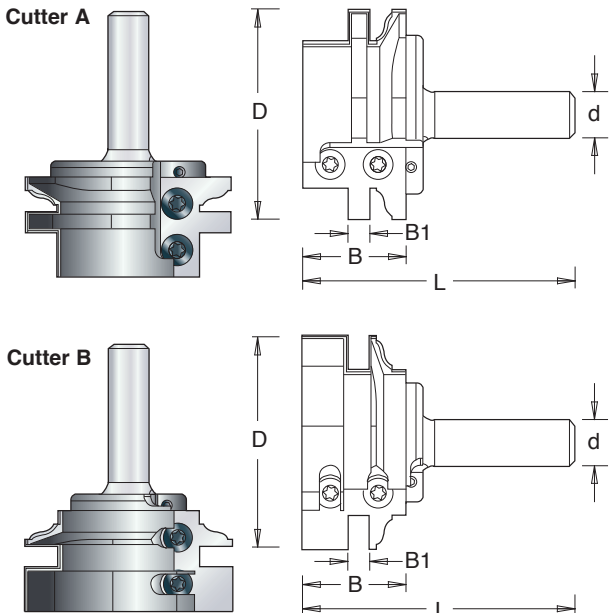
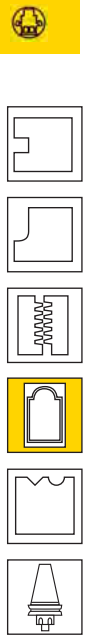


IT/310 650 4	IT/193 148 2	IT/194 101 5
12.7x23.8	M4x5.6	T15
£20.44	£1.14	£3.09

IT/106 368 8

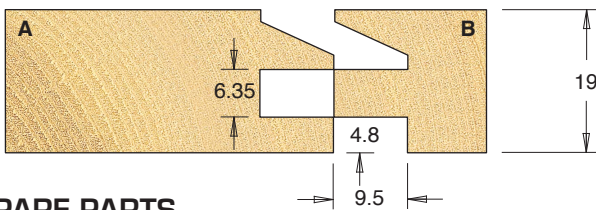
DISPOSABLE INSERT PROFILE SCRIBING ROUTER CUTTERS - 12.7MM SHANK

- Complete with two cutting flutes.
- Suitable for producing profile and scribe joints on kitchen cabinet doors in softwood, hardwood and man-made board.
- Replaceable inserts ensure a constant cutting diameter and finish quality.
- For use on routers and light machining centres with CNC control.
- Recommended RPM (n): 18,000.



SET 1 - BEVEL Ød = 12.7mm

	øD	B	B1	L	Product Ref	Stock	Price
Comp.Set	62	30	6.35	75	IT/845 114 8	Y	£312.36
Cutter A	62	30	6.35	75	IT/845 014 8	N	£161.15
Cutter B	62	30	6.35	75	IT/845 004 8	N	£161.15

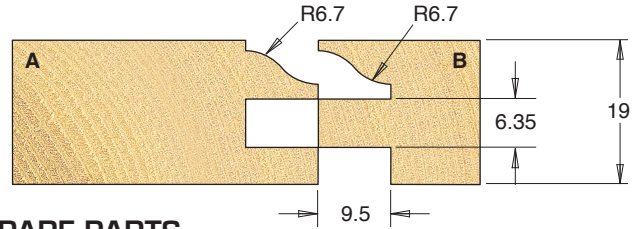


SPARE PARTS

Desc.	T.C. Blade A	T.C. Blade B	Torx® Screw	Torx Key®
Ref.	IT/314 501 4	T/314 500 4	IT/193 395 0	IT/194 101 5
Size	30x23x2	30x23x2	M4x6	T-15
Price	£35.98	£35.98	£1.60	£3.09

SET 2 - CLASSIC Ød = 12.7mm

	øD	B	B1	L	Product Ref	Stock	Price
Complete Set	62	30	6.35	75	IT/845 113 8	Y	£312.36
Cutter A	62	30	6.35	75	IT/845 013 8	N	£161.15
Cutter B	62	30	6.35	75	IT/845 003 8	N	£161.15

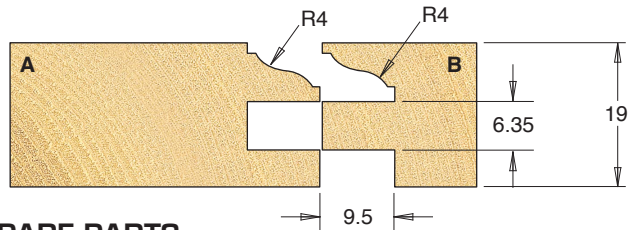


SPARE PARTS

Desc.	T.C. Blade A	T.C. Blade B	Torx® Screw	Torx Key®
Ref.	IT/314 501 3	T/314 500 3	IT/193 395 0	IT/194 101 5
Size	30x23x2	30x23x2	M4x6	T-15
Price	£35.98	£35.98	£1.60	£3.09

SET 3 - QUIRK TOPPED OGEE Ød = 12.7mm

	øD	B	B1	L	Product Ref	Stock	Price
Complete Set	62	30	6.35	75	IT/845 111 8	Y	£312.36
Cutter A	62	30	6.35	75	IT/845 011 8	N	£161.15
Cutter B	62	30	6.35	75	IT/845 001 8	N	£161.15

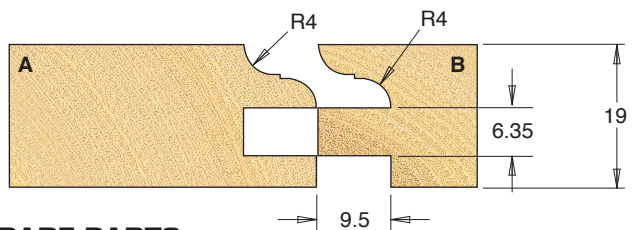


SPARE PARTS

Desc.	T.C. Blade A	T.C. Blade B	Torx® Screw	Torx Key®
Ref.	IT/314 501 1	T/314 500 1	IT/193 395 0	IT/194 101 5
Size	30x23x2	30x23x2	M4x6	T-15
Price	£35.98	£35.98	£1.60	£3.09

SET 4 - OGEE Ød = 12.7mm

	øD	B	B1	L	Product Ref	Stock	Price
Complete Set	62	30	6.35	75	IT/845 112 8	Y	£312.36
Cutter A	62	30	6.35	75	IT/845 012 8	N	£161.15
Cutter B	62	30	6.35	75	IT/845 002 8	N	£161.15

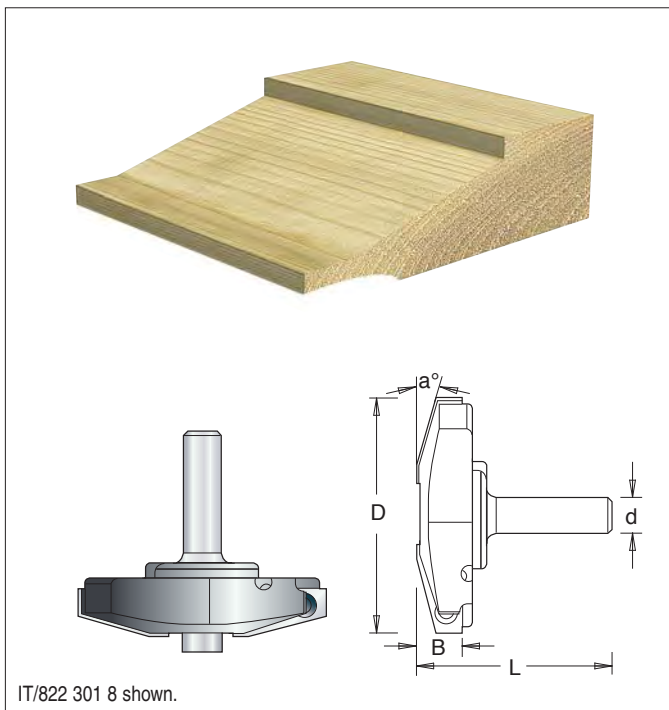


SPARE PARTS

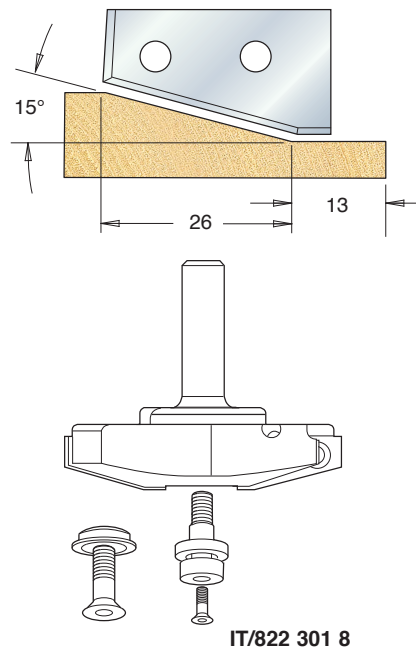
Desc.	T.C. Blade A	T.C. Blade B	Torx® Screw	Torx Key®
Ref.	IT/314 501 2	T/314 500 2	IT/193 395 0	IT/194 101 5
Size	30x23x2	30x23x2	M4x6	T-15
Price	£35.98	£35.98	£1.60	£3.09

DISPOSABLE INSERT RAISED BEVEL PANEL ROUTER CUTTERS - 12.7MM SHANK

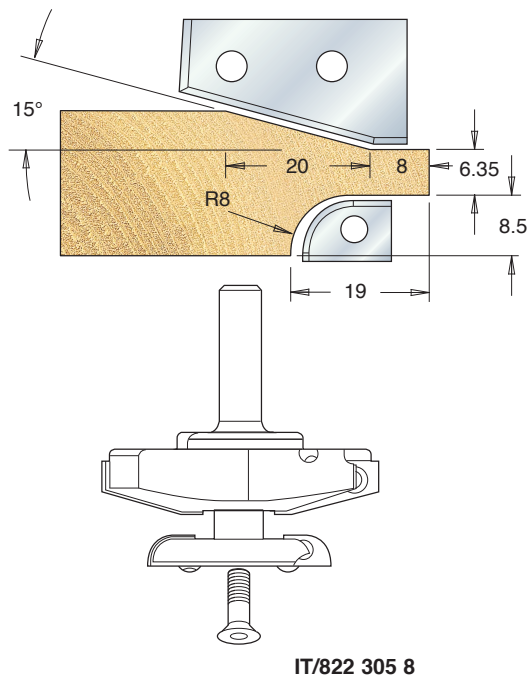
- Complete with two cutting flutes.
- Suitable for producing raised panel profiles in softwood, hardwood and man-made board.
- Replaceable inserts ensure a constant cutting diameter and finish quality.
- The cutter can be supplied with, or without the under cutter. Tool without under cutter comes complete with ball bearing set and anti-dust plug.
- For use on routers and light machining centres with CNC control.
- Recommended RPM (n): 12,000.



Without Under Cutter



With Under Cutter



øD	a	B	L	ød	Product Ref	Stock	Price
85.8	15°	20.2	71	12.7	IT/822 301 8	Y	£132.95
85.8	15°	20.2	71	12.7	IT/822 305 8*	N	£247.29

- ⚠ * IT/822 305 8 is supplied complete with under cutter fitted.
- ⚠ Remove bearing for CNC work.

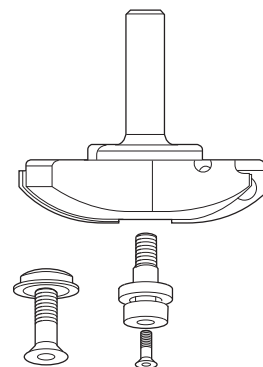
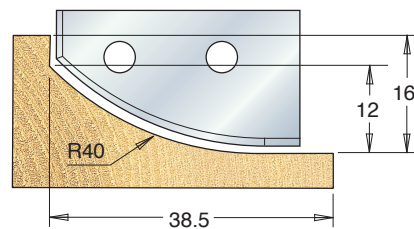
SPARE PARTS

Desc.	T.C. Blade	Torx® Screw	Torx® Key	Under Cutter	T.C. Blade	Ball Bearing Set	Torx Screw®	Torx Key®
Ref.	IT/312 200 1	IT/193 148 2	IT/194 101 5	IT/822 501 0	IT/312 200 3	IT/190 870 0	IT/193 400 0	IT/194 110 0
Size	31x17x2	M4x5.6	T-15	54x26.7x1/2"	13.9x9.5x2xR8	12.7x4.7x5xM6	M3x4	T-9
Price	£25.80	£1.14	£3.09	£87.90	£14.38	£14.16	£1.65	£2.06

DISPOSABLE INSERT RAISED RADIUS PANEL ROUTER CUTTERS - 12.7MM SHANK

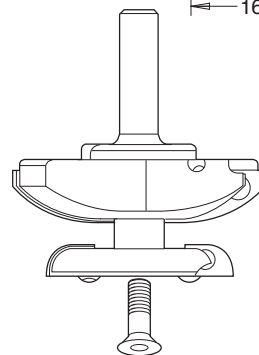
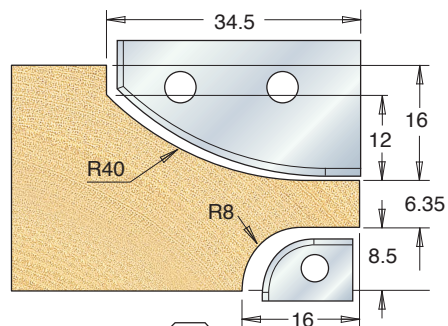


Without Under Cutter



IT/822 302 8

With Under Cutter



IT/822 310 8

øD	R	B	L	ød	Product Ref	Stock	Price
85.8	40	21.2	72	12.7	IT/822 302 8	Y	£132.95
85.8	40	21.2	72	12.7	IT/822 310 8*	N	£247.29

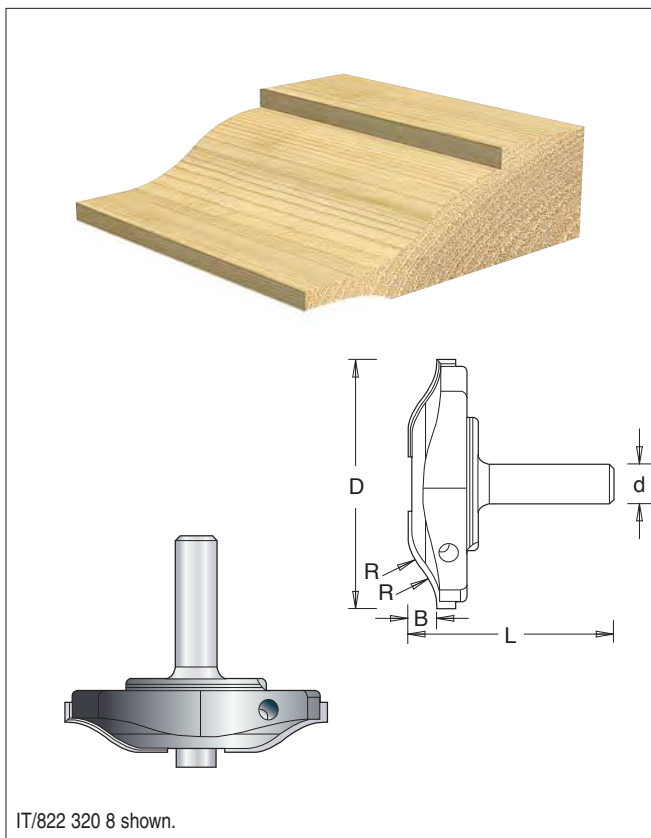
⚠ * IT/822 310 8 is supplied complete with under cutter fitted.

⚠ Remove bearing for CNC work.

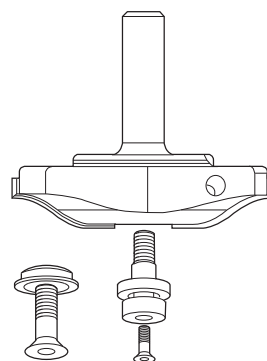
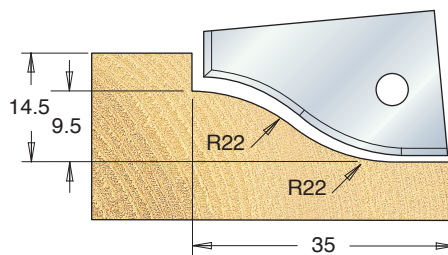
SPARE PARTS

Desc.	T.C. Blade	Torx® Screw	Torx® Key	Under Cutter	T.C. Blade	Ball Bearing Set	Torx Screw®	Torx Key®
Ref.	IT/312 200 2	IT/193 148 2	IT/194 101 5	IT/822 501 0	IT/312 200 3	IT/190 870 0	IT/193 400 0	IT/194 110 0
Size	33.3x18.5x2	M4x5.6	T-15	54x26.7x1/2"	13.9x9.5x3xR8	12.7x4.7x5xM6	M3x4	T-9
Price	£25.80	£1.14	£3.09	£87.90	£14.38	£14.16	£1.65	£2.06

DISPOSABLE INSERT RAISED OGEE PANEL ROUTER CUTTERS - 12.7MM SHANK

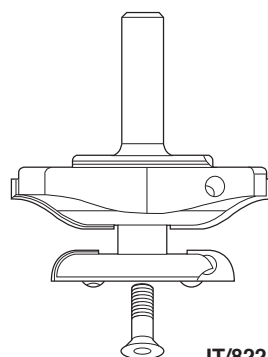
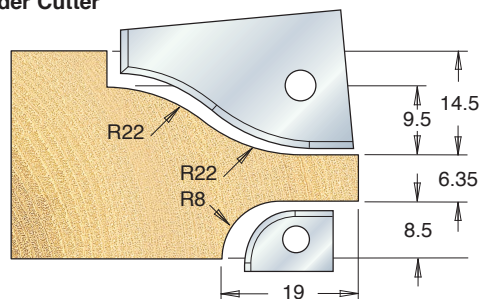


Without Under Cutter



IT/822 320 8

With Under Cutter



IT/822 325 8

øD	R	B	L	ød	Product Ref	Stock	Price
85.7	22	19.2	69	12.7	IT/822 320 8	Y	£132.95
85.7	22	19.2	69	12.7	IT/822 325 8*	N	£247.29

- ⚠ * IT/822 325 8 is supplied complete with under cutter fitted.
- ⚠ Remove bearing for CNC work.



SPARE PARTS

Desc.	T.C. Blade	Torx® Screw	Torx® Key	Under Cutter	T.C. Blade	Ball Bearing Set	Torx Screw®	Torx Key®
Ref.	IT/312 200 5	IT/193 395 0	IT/194 101 5	IT/822 501 0	IT/312 200 3	IT/190 870 0	IT/193 400 0	IT/194 110 0
Size	32x20x1.5	M4x5.6	T-15	54x26.7x1/2"	13.9x9.5x2	12.7x4.7x5xM6	M3x4	T-9
Price	£25.80	£1.60	£3.09	£87.90	£14.38	£14.16	£1.65	£2.06

DISPOSABLE INSERT TONGUE & GROOVE ROUTER CUTTER - 12.7MM SHANK

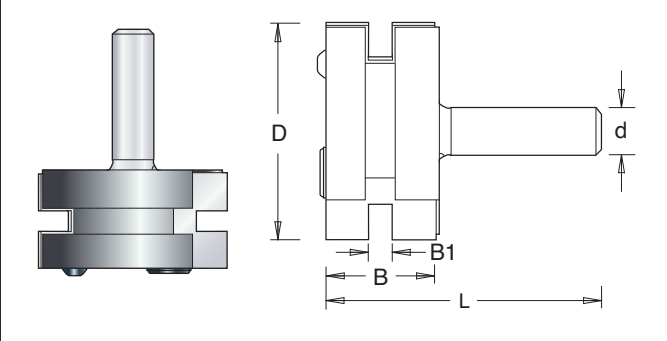
- Complete with two cutting flutes.
- Suitable for producing tongue and groove profile joints in softwood, hardwood and man-made board.
- Replaceable inserts ensure a constant cutting diameter and finish quality.
- The cutter includes a fine adjustment to ensure a perfect fit on the joint.
- For use on routers and light machining centres with CNC control.
- Recommended RPM (n): 18,000.



Complete Sets

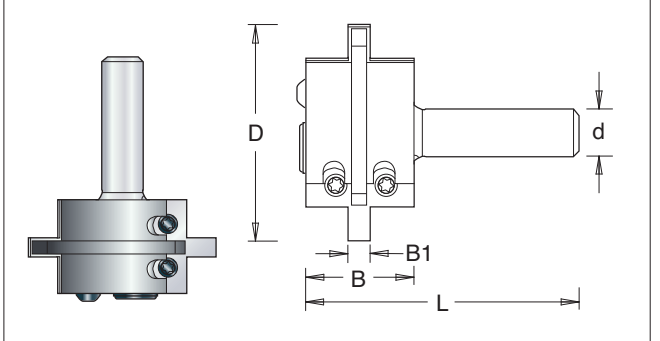
	øD	B	B1	L	ød	Product Ref	Stock	Price
Set 1	60	30	5.4-6.0	75	12.7	IT/845 021 8	Y	£238.10
Set 2	60	30	6.1-6.6	75	12.7	IT/845 116 8	Y	£238.10

Router Cutter A

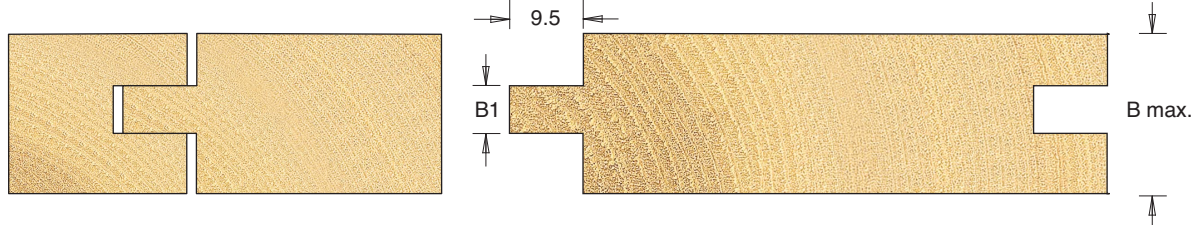
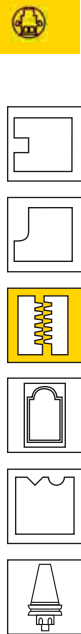


øD	B	B1	L	ød	Product Ref	Stock	Price
60	30	5.4-6.0	75	12.7	IT/845 019 8	Y	£122.61
60	30	6.1-6.6	75	12.7	IT/845 006 8	Y	£122.61

Router Cutter B



øD	B	B1	L	ød	Product Ref	Stock	Price
60	30	5.4-6.0	75	12.7	IT/845 020 8	Y	£122.61
60	30	6.1-6.6	75	12.7	IT/845 016 8	Y	£122.61



SPARE PARTS

	B1 = 5.4 - 6.0	B1 = 5.4 - 6.0					
Desc.	T.C. Blade A	T.C. Blade B	Torx® Screw	Torx® Screw	Hex Screw	Hex Key	Torx® Key
Ref.	IT/314 500 5	IT/314 501 5	IT/193 364 8	IT/193 148 1	IT/193 072 0	IT/194 020 0	IT/194 101 5
Size	30x22x2	30x22x2	3.5x4.8	M4x5.6	M6x12.5	S2	T-15
Price	£35.98	£35.98	£1.60	£1.59	£1.83	£1.60	£3.09

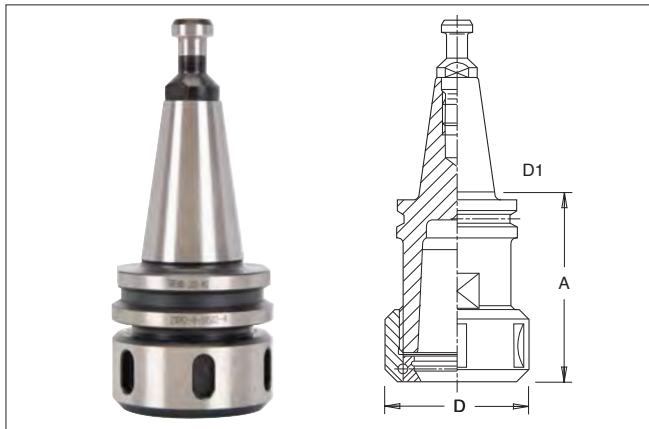
	B1 = 6.1 - 6.6	B1 = 6.1 - 6.6					
Desc.	T.C. Blade A	T.C. Blade B	Torx® Screw	Torx® Screw	Hex Screw	Hex Key	Torx® Key
Ref.	IT/314 501 8	IT/314 501 9	IT/193 364 8	IT/193 148 1	IT/193 072 0	IT/194 020 0	IT/194 101 5
Size	30x22x2	30x22x2	3.5x4.8	M4x5.6	M6x12.5	S2	T-15
Price	£35.98	£35.98	£1.60	£1.59	£1.83	£1.60	£3.09

CNC TOOL HOLDERS & ARBORS

Complete range of high precision CNC chucks and arbors suitable for all popular makes of machine and every production environment. Chucks and arbors are supplied complete with clamping nuts. Pull studs, collets and spanners are sold separately.

SK30 TOOL HOLDERS WITH PULL STUD

- SK30 high precision CNC chuck complete with pull studs for various makes of CNC machines.
- Complete with ball bearing clamping nut.
- Supplied without collets, for ER32 & ER40 collets see page 140.



Adapter Standard	øD	A	Collet Standard	Product Ref.	Stock	Price
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For IMA, MAKA, Reinchenbacher, Weeke, Busellato

SK 30	50	68	ER32	IT/TH/001	N	£98.95
SK 30	63	68	ER40	IT/TH/002	N	£98.95

For Biesse (from 09/92), Masterwood (HSD motor)

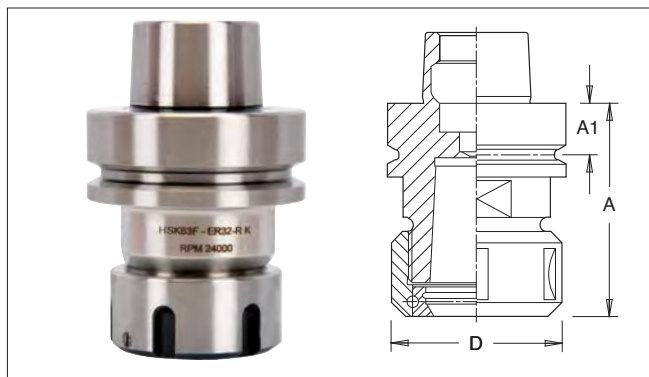
SK 30	50	50	ER32	IT/TH/003	N	£98.95
SK 30	63	60	ER40	IT/TH/004	N	£98.95

For Alberti, Masterwood (Colombo motor)

SK 30	50	68	ER32	IT/TH/005	N	£98.95
SK 30	63	68	ER40	IT/TH/006	N	£98.95

HSK63-F TOOL HOLDERS

- HSK-63F high precision CNC chuck for various makes of CNC machines.
- Complete with ball bearing clamping nut.
- Supplied without collets, for ER32 & ER40 collets see pages 139.



Adapter Standard	øD	A	A1	Collet Standard	Product Ref.	Stock	Price
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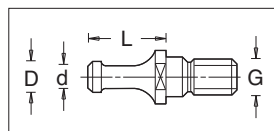
HSK63-F	50	76	18	ER32	IT/641 031	Y	£232.73
HSK63-F	63	78	18	ER40	IT/641 030	Y	£248.43

SPARE PARTS

Description	Product Ref.	Stock	Price
Ball bearing clamping nut to suit ER32 chucks (M40x1.5)	IT/TH/CNM40	N	£60.74
Ball bearing clamping nut to suit ER40 chucks	IT/TH/CNM48	N	£64.04
C-Spanner to suit M40 clamping nut IT/TH/CNM40	IT/TH/CSM40	N	£16.43
C-Spanner to suit M48 clamping nut IT/TH/CNM48	IT/TH/CSM48	N	£15.19
Engineers' wrench SW46	IT/TH/EW46	N	£23.35

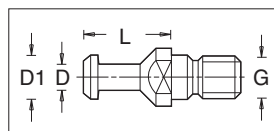
PULL STUDS FOR TOOL HOLDERS

- Range of pull-studs to suit SK30 tool holders shown on page 140.



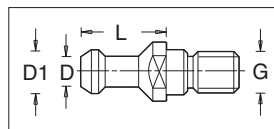
For Machines
Morbidelli, SCM

Adapter	øD	ød	L	G	Product Ref.	Stock	Price
ISO 30	8.5	6.5	22	M10	IT/650 010	Y	£26.64



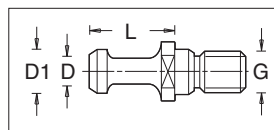
For Machines
Busellato, Weeke, Bulleri, Maka, IMA
Cosmec, Reinchenbacher

Adapter	øD	ød	L	G	Product Ref.	Stock	Price
ISO 30	13	9	24	M12	IT/650 011	Y	£30.99
ISO 40	19	14	26	M16	IT/650 020	Y	£34.20



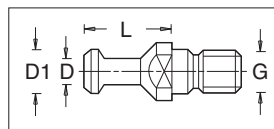
For Machines
Alberti, Vitap, Masterwood

Adapter	øD	ød	L	G	Product Ref.	Stock	Price
ISO 30	13	9	24	M12	IT/650 013	Y	£32.03



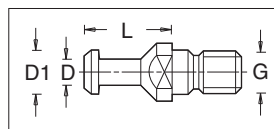
For Machine
Esseteam

Adapter	øD	ød	L	G	Product Ref.	Stock	Price
ISO 30	12	8	24	M12	IT/650 014	Y	£32.03



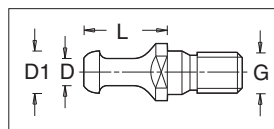
For Machine
CMS

Adapter	øD	ød	L	G	Product Ref.	Stock	Price
ISO 30	12.8	9	24	M12	IT/650 015	Y	£32.03



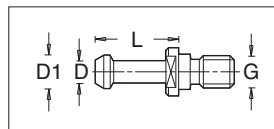
For Machine
Biesse (Before 09/92)

Adapter	øD	ød	L	G	Product Ref.	Stock	Price
ISO 30	12	8	24	M12	IT/650 017	Y	£28.20



For Machines
Biesse (After 09/92), Masterwood

Adapter	øD	ød	L	G	Product Ref.	Stock	Price
ISO 30	12	8	24	M12	IT/650 018	Y	£29.34

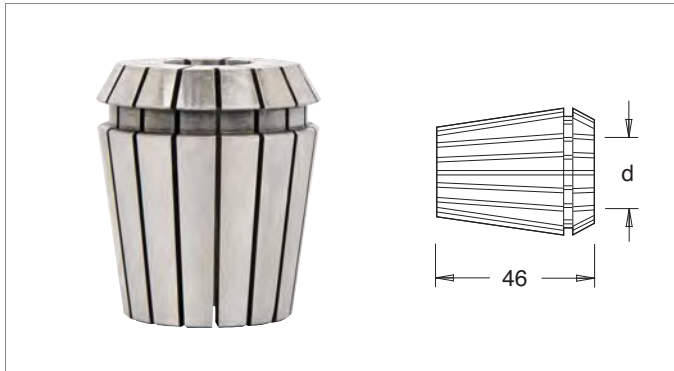


For Machines
Shoda, Heian

Adapter	øD	ød	L	G	Product Ref.	Stock	Price
BT 30	11	7	23	M12	IT/650 031	Y	£32.03
BT 35	13	8.5	28	M12	IT/650 040	Y	£33.16

COLLETS FOR ER40 NUT

- High precision 16 slot collets to DIN6499.
- Suitable for the range of CNC chucks shown on page 139.
- Clamping range to 26mm.



for Shank ød	Tolerance	Product Ref.	Stock	Price
4	4-3	IT/615 060	Y	£30.38
5	5-4	IT/615 061	Y	£30.38
6	6-5	IT/615 062	Y	£30.38
6.35 (1/4")	-	IT/615 405	Y	£35.32
7	7-6	IT/615 063	Y	£30.38
8	8-7	IT/615 064	Y	£30.38
9	9-8	IT/615 065	Y	£30.38
9.5 (3/8")	-	IT/615 410	Y	£35.32
10	10-9	IT/615 007	Y	£30.38
11	11-10	IT/615 031	Y	£30.38
12	12-11	IT/615 032	Y	£30.38
12.7 (1/2")	-	IT/615 415	Y	£35.32
13	13-12	IT/615 006	Y	£30.38
14	14-13	IT/615 070	Y	£30.38
15	15-14	IT/615 005	Y	£30.38
16	16-15	IT/615 030	Y	£30.38
17	17-16	IT/615 073	Y	£30.38
18	18-17	IT/615 074	Y	£30.38
19	19-18	IT/615 004	Y	£30.38
20	20-19	IT/615 003	Y	£30.38
21	21-20	IT/615 077	Y	£30.38
22	22-21	IT/615 078	Y	£30.38
23	23-22	IT/615 079	Y	£30.38
24	24-23	IT/615 080	Y	£30.38
25	25-24	IT/615 002	Y	£30.38
26	26-25	IT/615 001	Y	£30.38

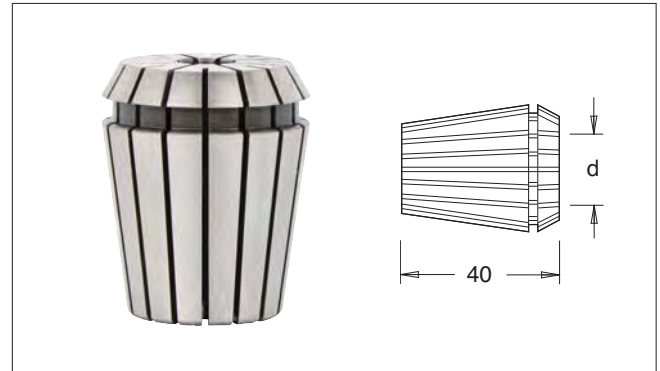
ER40 COLLET COMPLETE SET

- 23 piece set of high precision 16 slot collets to DIN6499.
- Suitable for the range of CNC chucks shown on page 139.
- Clamping range to 26mm.

Diameters ød	Product Ref.	Stock	Price
4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26	IT/615 091	Y	£758.19

COLLETS FOR ER32 NUT

- High precision 16 slot collets to DIN6499.
- Suitable for the range of CNC chucks shown on page 139.
- Clamping range to 20mm.



for Shank ød	Tolerance	Product Ref.	Stock	Price
3	3-2	IT/615 040	Y	£24.99
4	4-3	IT/615 041	Y	£24.99
5	5-4	IT/615 042	Y	£24.99
6	6-5	IT/615 043	Y	£24.99
6.35 (1/4")	-	IT/615 305	Y	£31.51
7	7-6	IT/615 044	Y	£24.99
8	8-7	IT/615 012	Y	£24.99
9	9-8	IT/615 046	Y	£24.99
9.5 (3/8")	-	IT/615 310	Y	£31.51
10	10-9	IT/615 010	Y	£24.99
11	11-10	IT/615 048	Y	£24.99
12	12-11	IT/615 049	Y	£24.99
12.7 (1/2")	-	IT/615 315	Y	£31.51
13	13-12	IT/615 009	Y	£24.99
14	14-13	IT/615 051	Y	£24.99
15	15-14	IT/615 008	Y	£24.99
16	16-15	IT/615 053	Y	£24.99
17	17-16	IT/615 054	Y	£24.99
18	18-17	IT/615 055	Y	£24.99
19	19-18	IT/615 056	Y	£24.99
20	20-19	IT/615 011	Y	£24.99

ER32 COLLET COMPLETE SET

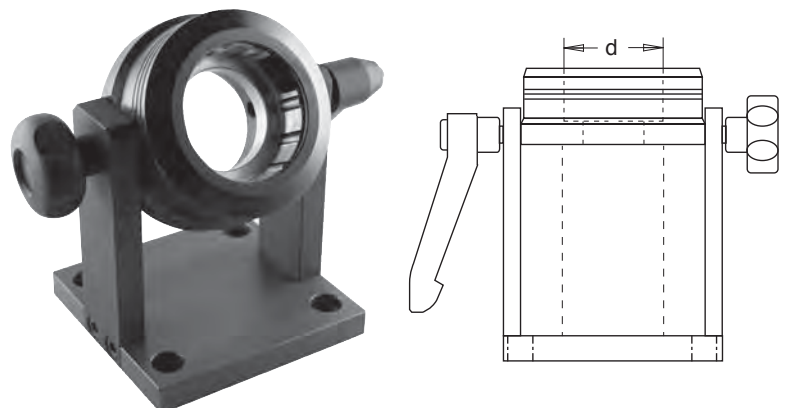
- 18 Piece Set of high precision 16 slot collets to DIN6499.
- Suitable for the range of CNC chucks shown on page 139.
- Clamping range to 20mm.

Diameters ød	Product Ref.	Stock	Price
3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	IT/615 090	Y	£163.10

ADJUSTABLE ASSEMBLING DEVICE

- Adjustable Assembling Device for SK30, SK40 and HSK-63F tool holders.
- Device allows safe clamping and un-clamping of tools into different types of tool holder.
- Adjustable from 0° to 90°.

For Tool Holders	d	Product Ref.	Price
SK40/BT40	63.5	IT/642 002	£249.00
HSK 63 F/HSK 63 E	63	IT/642 003	£249.00



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IT/1053568	57.02	132	IT/1924570	5.71	113	IT/1990312	7.20	104	IT/2014065	12.00	110	IT/2016055	16.79	111
IT/1053608	80.27	132	IT/1924580	5.14	113	IT/1990320	7.20	104	IT/2014067	12.00	109	IT/2016057	15.65	111
IT/1053618	78.70	132	IT/1924600	4.57	113	IT/1990326	7.20	106,128	IT/2014075	13.24	110	IT/2016067	16.79	111
IT/1053628	81.92	132	IT/1924610	4.00	113	IT/1990327	6.36	106	IT/2014077	13.24	109	IT/2016077	16.79	111
IT/1053648	88.41	132	IT/1925100	9.25	91	IT/1990330	7.20	104	IT/2014105	13.24	110	IT/2016085	19.18	111
IT/1053668	109.60	132	IT/1925107	9.25	91	IT/1990335	7.20	104	IT/2014107	13.24	109	IT/2016087	17.47	111
IT/1053688	115.60	132	IT/1925810	20.54	91	IT/1990336	9.82	104	IT/2014117	13.82	109	IT/2016095	19.18	111
IT/1053908	110.63	132	IT/1925820	21.58	91	IT/1990337	9.82	104,106	IT/2014127	13.82	109	IT/2016097	17.47	111
IT/1054008	105.26	132	IT/1925830	22.60	91	IT/1990372	10.51	106	IT/2014135	13.24	110	IT/2016127	19.87	111
IT/1054058	49.86	132	IT/1925840	23.63	91	IT/1990373	7.20	106	IT/2014137	13.24	109	IT/2016137	19.87	111
IT/1054068	55.90	132	IT/1925850	24.66	91	IT/1990385	7.20	106,128	IT/2014165	13.24	110	IT/2016145	18.62	111
IT/1063628	41.84	133	IT/1925860	29.80	91	IT/1990402	10.12	104	IT/2014167	13.24	109	IT/2016147	17.47	111
IT/1063648	45.56	133	IT/1925870	30.82	91	IT/1990425	8.22	106	IT/2014175	15.65	110	IT/2016155	18.62	111
IT/1063668	53.72	133	IT/1925880	31.85	91	IT/1990450	9.25	106	IT/2014177	15.65	109	IT/2016157	17.47	111
IT/1063688	57.02	133	IT/1925890	33.46	91	IT/1990460	8.22	104	IT/2014205	15.65	110	IT/2016167	18.62	111
IT/1073530	75.05	119	IT/1925900	23.97	91	IT/1990461	8.22	106	IT/2014207	15.65	109	IT/2016177	18.62	111
IT/1073540	65.42	119	IT/1925910	40.08	91	IT/1990468	8.22	106	IT/2014215	16.79	110	IT/2016185	20.44	111
IT/1073560	78.18	119	IT/1925920	26.25	91	IT/1990465	7.20	106	IT/2014217	16.79	109	IT/2016187	19.18	111
IT/1073580	70.79	119	IT/1925930	30.82	91	IT/1990466	7.76	106	IT/2014219	16.79	110	IT/2016195	20.44	111
IT/1073600	85.22	119	IT/1925940	31.98	91	IT/1990480	8.22	104	IT/2014245	16.79	110	IT/2016197	19.18	111
IT/1073730	70.03	119	IT/1925950	34.25	91	IT/1990485	9.25	106	IT/2014247	16.79	109	IT/2016227	23.41	111
IT/1073760	78.09	119	IT/1925960	35.38	91	IT/1990486	8.22	106	IT/2014287	14.38	110	IT/2016237	23.41	111
IT/1073770	68.90	119	IT/1926110	2.28	92	IT/1990495	8.22	106	IT/2014297	14.38	110	IT/2016247	19.18	111
IT/1073980	83.05	119	IT/1926117	2.28	92	IT/1990501	9.29	129	IT/2014307	14.38	110	IT/2016257	19.18	111
IT/1073990	85.07	119	IT/1926120	2.28	92	IT/1990502	9.82	104	IT/2014317	14.38	110	IT/2016267	19.87	111
IT/1734055	20.81	117	IT/1926127	2.28	92	IT/1990503	10.28	104	IT/2014327	16.21	110	IT/2016277	19.87	111
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IT/1734155	20.81	117	IT/1926160	2.28	92	IT/1990506	12.32	104	IT/2014347	16.21	110	IT/2016297	20.44	111
IT/1734160	20.81	117	IT/1926167	2.28	92	IT/1990507	12.32	104	IT/2014365	13.24	110	IT/2016317	20.44	111
IT/1734203	25.12	117	IT/1926170	2.28	92	IT/1990510	7.76	104	IT/2014367	13.24	110	IT/2016327	20.44	111
IT/1734205	25.12	117	IT/1926177	2.28	92	IT/1990800	5.37	106	IT/2014375	14.38	110	IT/2016337	25.23	111
IT/1734255	27.03	117	IT/1926180	2.63	92	IT/1990810	4.34	106	IT/2014377	14.38	110	IT/2016387	25.23	111
IT/1734307	44.61	117	IT/1926187	2.63	92	IT/1990820	5.83	104,124	IT/2014379	14.38	110	IT/2016417	25.23	111
IT/1734327	51.55	117	IT/1926190	18.03	105,122	IT/1990830	5.60	104	IT/2014405	14.38	110	IT/2016427	25.23	111
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IT/1734379	66.62	117	IT/1926787	40.08	105	IT/1990860	11.87	106	IT/2014417	15.65	110	IT/2016517	17.47	111
IT/1734389	102.98	117	IT/1926797	48.30	105	IT/1990910	11.87	106	IT/2014425	15.65	110	IT/2016567	19.87	111
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IT/1735160	20.81	117	IT/1926901	2.28	92	IT/1990925	12.32	106	IT/2014435	15.65	110	IT/2016617	19.18	111
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IT/1735307	43.42	117	IT/1926911	2.28	92	IT/1990940	14.38	106	IT/2014465	15.65	110	IT/2016677	23.41	111
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IT/1735379	66.62	117	IT/1926930	32.43	105,107	IT/1990970	13.36	106	IT/2014477	16.79	110	IT/2017067	14.38	110
IT/1735389	102.98	117	IT/1926931	2.57	92	IT/1990980	13.93	106	IT/2014487	18.62	110	IT/2017137	16.79	110
IT/1736379	74.76	118	IT/1926935	5.65	92	IT/1990990	14.38	106	IT/2014507	16.79	110	IT/2017167	16.79	110
IT/1736389	93.65	118	IT/1926941	2.28	92	IT/1991101	18.50	126	IT/2014515	18.62	110	IT/2017227	19.18	110
IT/1736410	97.36	118	IT/1926951	2.28	92	IT/1994030	12.32	107	IT/2014517	18.62	110	IT/2017237	19.18	110
IT/1736480	202.85	118	IT/1926961	3.33	92	IT/1994031	12.32	105,124	IT/2014545	18.62	110	IT/2017317	16.79	110
IT/1736560	235.50	118	IT/1926971	3.33	92	IT/1997150	16.33	124	IT/2014547	18.62	110	IT/2017347	16.79	110
IT/1736580	265.04	118	IT/1926975	6.16	92	IT/1998010	12.32	106	IT/2014557	18.62	110	IT/2017437	18.03	110
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IT/1736979	74.76	118	IT/1926980	40.08	105	IT/1998040	10.28	106	IT/2014577	19.18	110	IT/2017467	18.03	110
IT/1739379	93.65	118	IT/1926981	5.60	92	IT/2010017	12.00	109	IT/2014587	15.65	110	IT/2017487	18.03	110
IT/1739389	93.65	118	IT/1926990	48.30	105	IT/2010047	12.00	109	IT/2014597	15.65	110	IT/2017607	19.18	111
IT/1739400	97.36	118	IT/1926991	8.22	92	IT/2010057	13.79	109	IT/2014607	14.38	109	IT/2017617	19.18	111
IT/1739480	202.85	118	IT/1926992	17.01	92	IT/2010067	13.79	109	IT/2014617	14.38	109	IT/2017627	21.00	111
IT/1739560	235.50	118	IT/1927051	39.69	25	IT/2010077	12.00	109	IT/2014647	14.38	109	IT/2017637	21.00	111
IT/1739580	265.04	118	IT/1927057	39.69	25	IT/2010087	13.24	109	IT/2014657	14.38	109	IT/2017647	25.23	111
IT/1739700	97.36	118	IT/1927911	2.73	92	IT/2010107	12.00	109	IT/2014677	13.82	109	IT/2017657	25.23	111
IT/174107Z	49.98	120	IT/1927917	2.73	92	IT/2010117	13.24	109	IT/2014727	13.82	109	IT/2017707	21.00	111
IT/1742203S	44.01	120	IT/1927921	2.73	92	IT/2010137	13.24	109	IT/2014737	16.79	110	IT/2017717	21.00	111
IT/1742275	50.24	120	IT/1927927	2.73	92	IT/2010157	14.38	109	IT/2014767	16.79	110	IT/2017727	23.97	111
IT/1742337	66.62	120	IT/1927935	6.62	92	IT/2010167	13.24	109	IT/2014777	17.47	110	IT/2017737	23.97	111
IT/1742359S	89.83	120	IT/1927937	6.62	92	IT/2010177	14.38	109	IT/2014787	17.47	110	IT/2017747	29.46	111
IT/1743203	44.01	120	IT/1927941	2.73	92	IT/2010197	14.38	109	IT/2014837	17.47	110	IT/2017757	29.46	111
IT/1743275	54.06	120	IT/1927947	2.73	92	IT/2010207	13.82	109	IT/2014867	17.47	110	IT/2022000	18.03	114
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IT/1743480	209.78	120	IT/1930266	1.60	104,106	IT/2010257	16.79	109	IT/2014907	16.79	110	IT/2022040	18.03	114
IT/1743560	360.49	120	IT/1930267	1.59	106	IT/2010297	14.38	109	IT/2014915	16.79	110	IT/2022050	18.03	114
IT/1743580	459.04	120	IT/1930											

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IT/2031557	44.41	112	IT/3108930	42.41	41	IT/3208375	8.38	95	IT/3306040	9.79	65	IT/3313940	15.22	75
IT/2031567	44.41	112	IT/3108944	22.84	44	IT/3300046	5.88	77	IT/3306050	22.27	82	IT/3314040	15.22	75
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IT/3007716/10	58.23	121	IT/3124015	42.41	43	IT/3301642	41.65	60	IT/3308140	9.79	68	IT/3400360	25.12	88
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IT/3407150	18.62	84	IT/3522203	33.71	129	IT/710552101	157.00	97	IT/7332011	77.52	32	IT/7781017	151.14	52
IT/3407240	9.24	67	IT/3522204	33.71	129	IT/710552111	133.66	97	IT/7332017	77.52	32	IT/8071059	54.24	118
IT/3407250	18.62	84	IT/3522205	33.71	129	IT/710552121	170.79	97	IT/7333021	82.77	32	IT/8071119	62.38	118
IT/3407340	9.24	67	IT/3522206	33.71	129	IT/710552131	134.72	97	IT/7333027	82.77	32	IT/8071200	77.58	118
IT/3407350	18.62	84	IT/3522207	33.71	129	IT/710552141	178.21	97	IT/7334051	260.96	35	IT/807120H	77.58	118
IT/3407440	9.24	67	IT/3522208	33.71	129	IT/710552191	149.57	97	IT/7334057	260.96	35	IT/8071210	88.41	118
IT/3407450	18.62	84	IT/51200990	21.22	97	IT/710552211	157.00	97	IT/7335101	304.45	34	IT/8071210L	88.41	118
IT/3407540	9.24	67	IT/5510701	24.66	12	IT/710552221	134.72	97	IT/7335107	304.45	34	IT/807121H	88.41	118
IT/3407550	18.62	84	IT/6001060	19.07	57	IT/710552231	187.76	97	IT/7340141	289.76	38	IT/807121HLL	103.09	118
IT/3407640	9.24	67	IT/6001061	25.12	57	IT/710552251	157.00	97	IT/7340147	289.76	38	IT/8071250	98.24	118
IT/3407650	18.62	84	IT/6001062	29.35	57	IT/710552261	134.72	97	IT/7340151	195.80	38	IT/807125H	98.24	118
IT/3407740	9.24	67	IT/615001	30.38	140	IT/710552271	161.24	97	IT/7340157	195.80	38	IT/807125HLL	111.76	118
IT/3407750	18.62	84	IT/615002	30.38	140	IT/710552281	131.54	97	IT/7340161	329.38	38	IT/8073015	58.58	128
IT/3407840	9.24	67	IT/615003	30.38	140	IT/710552291	129.42	97	IT/7340167	329.38	38	IT/8073100	148.13	121
IT/3407850	18.62	84	IT/615004	30.38	140	IT/7120901	46.38	25	IT/7340171	342.73	38	IT/8073150	158.98	121
IT/3407940	9.24	67	IT/615005	30.38	140	IT/7120907	46.38	25	IT/7340177	342.73	38	IT/8073200	129.64	121
IT/3407950	18.62	84	IT/615006	30.38	140	IT/7120911	48.06	25	IT/7340301	381.79	39	IT/8073220	146.47	121
IT/3408040	9.24	68	IT/615007	30.38	140	IT/7120917	48.06	25	IT/7340307	381.79	39	IT/8073300	195.23	123
IT/3408														