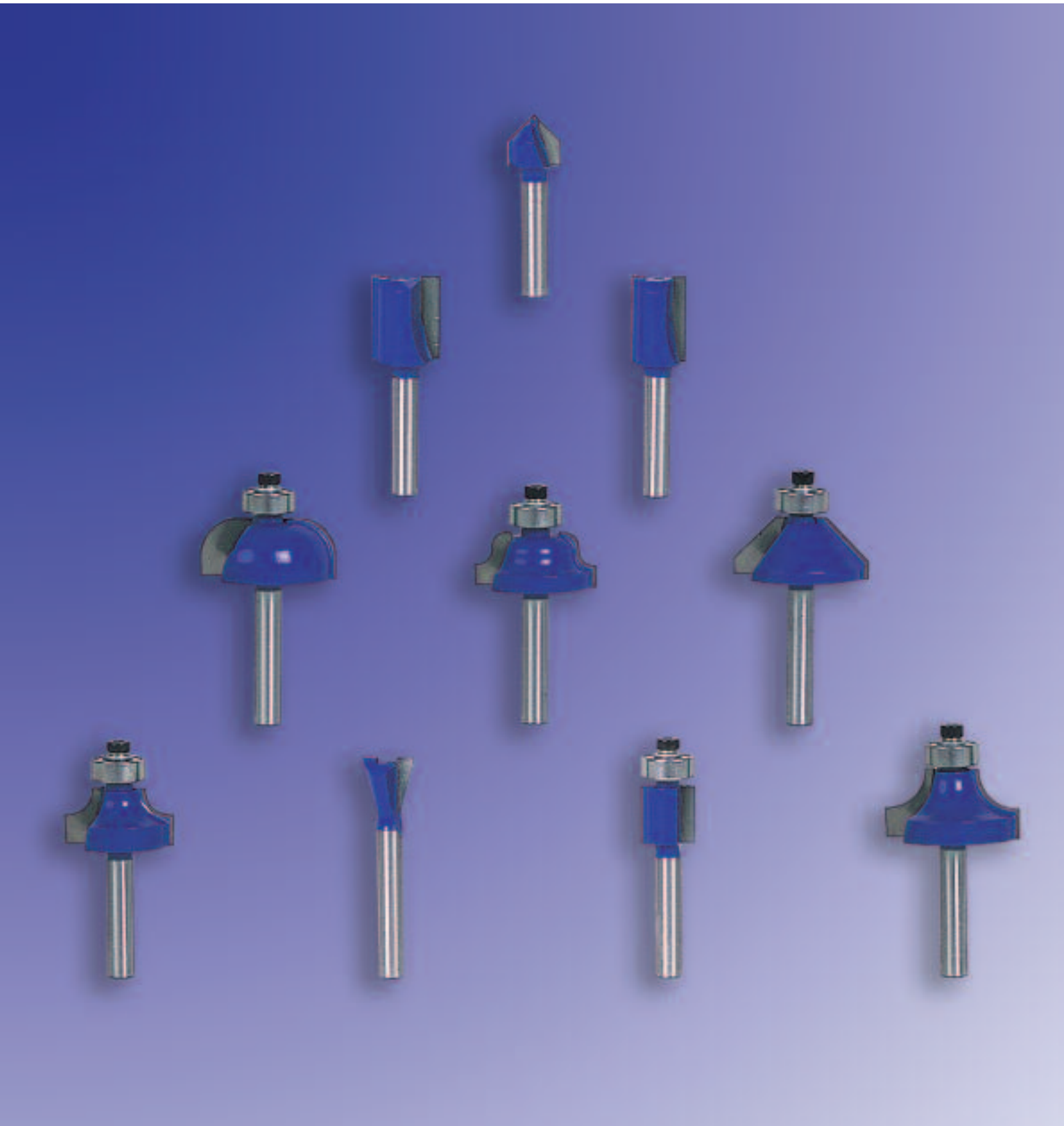
router cutters

2



Router Cutters

This section of our catalogue illustrates the most popular elements of our range of TCT router cutters, designed and engineered for professional wood workers.

In general all dimensions are in millimetres unless stated. Shank sizes are in fractional inches, although some of our cutters are also available in 8mm shank where shown. The illustrations contain dimensions found in the accompanying table, and illustrations of the cuts produced are not to scale unless stated. There is also information on Using Router Cutters, which can be found on page 32.

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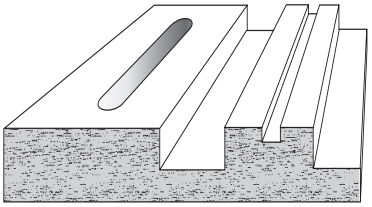
STRAIGHT FLUTED

A range of straight cutters which are all two flute except T201W which is single flute. These general purpose cutters are suitable for grooving, dadoing, rabbeting etc. Note should be taken of the comments on use of cutters at the back of this section and particular care should be taken when using long series cutters.
All sizes are suitable for plunge cutting, with sizes above 9mm diameter having an additional centre carbide tip to ensure a faster and cleaner cut when plunging.
When selecting cutters always choose the shortest cutter that will give the depth you require. Shorter bits cut cleaner with less noise and give a longer life.

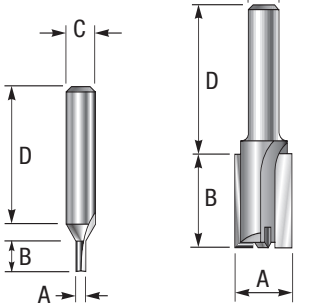


1/4" shank range

Part No.	A		B	C	D
	mm	inch	mm	shank	mm
T201W	1.0	0.039	3	1/4	30
T201.5W	1.5	0.059	5	1/4	30
T201.6W	1.6	1/16	5	1/4	30
T201.8W	1.8	0.071	5	1/4	30
T202W	2.0	5/64	5	1/4	30
T202.5W	2.5	0.098	5	1/4	30
T203W	3.0	0.118	11	1/4	33
T203.2W	3.2	1/8	11	1/4	33
T203.5W	3.5	9/64	11	1/4	33
T204W	4.0	5/32	11	1/4	33
T204.8W	4.8	3/16	11	1/4	33
T205W	5.0	0.197	11	1/4	33
T205.5W	5.5	7/32	19	1/4	33
T206W	6.0	15/64	19	1/4	33
T206S	6.0	15/64	28	1/4	25
T206.4M	6.3	1/4	19	1/4	25
TX206.4M	6.3	1/4	25	1/4	25
T206.4S	6.3	1/4	28	1/4	25
T207M	7.0	9/32	19	1/4	25
T207.5M	7.5	19/64	19	1/4	25
T208M	8.0	5/16	20	1/4	25
TL208M	8.0	5/16	25	1/4	48
T208.5M	8.5	21/64	20	1/4	25
T209M	9.0	0.355	20	1/4	25
T209.5M	9.5	3/8	20	1/4	25
T210M	10.0	25/64	20	1/4	25
T211M	11.0	7/16	20	1/4	25
T212M	12.0	15/32	20	1/4	25
T212.7M	12.7	1/2	20	1/4	25
T214M	14.0	35/64	20	1/4	25
T215M	15.0	19/32	20	1/4	25
T216M	16.0	5/8	20	1/4	25
T217.5M	17.5	11/16	20	1/4	25
T218M	18.0	45/64	20	1/4	25
T219M	19.0	3/4	20	1/4	25
T220M	20.0	25/32	20	1/4	38
T221M	21.0	53/64	20	1/4	38
T225.4M	25.4	1.0	20	1/4	25

PART No. PREFIX:
T .....Standard range
TS .....Short series
TX .....Long reach
TL .....Long shank
TXL .....Extra long reach

PART No. SUFFIX:
W .....Miniature series
M .....Standard series
S .....Solid carbide



8mm shank range

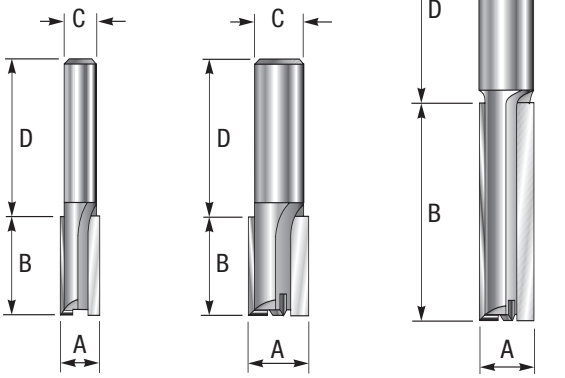
Part No.	A		B	C	D
	mm	inch	mm	shank	mm
T1105M	5.0	0.197	11	8mm	38
T1106M	6.0	15/64	19	8mm	32
T1106.4M	6.3	1/4	19	8mm	32
T1107M	7.0	9/32	19	8mm	32
T1108M	8.0	5/16	19	8mm	32
TX1108M	8.0	5/16	32	8mm	38
T1108.5M	8.5	21/64	19	8mm	38
T1109M	9.0	0.355	20	8mm	38
T1109.5M	9.5	3/8	20	8mm	38
T1110M	10.0	25/64	20	8mm	38
TX1110M	10.0	25/64	38	8mm	38
T1112M	12.0	15/32	20	8mm	38
T1114M	14.0	35/64	25	8mm	38
T1115M	15.0	19/32	25	8mm	38
T1116M	16.0	5/8	25	8mm	38
T1117M	17.0	43/64	25	8mm	38
T1118M	18.0	45/64	25	8mm	38
T1119M	19.0	3/4	25	8mm	38
T1120M	20.0	25/32	25	8mm	38
T1121M	21.0	53/64	25	8mm	38
T1122M	22.0	55/64	25	8mm	38
T1124M	24.0	35/64	25	8mm	38
T1125M	25.0	63/64	25	8mm	38

STRAIGHT FLUTED

A range of straight two flute cutters in 3/8" and 1/2" shank sizes. These general purpose cutters are suitable for grooving, dadoing, rabbeting etc. Note should be taken of the comments on use of cutters at the back of this section and particular care should be taken when using long series cutters. All sizes are suitable for plunge cutting, with sizes above 9mm diameter having an additional centre carbide tip to ensure a faster and cleaner cut when plunging. When selecting cutters always choose the shortest cutter that will give the depth you require. Shorter bits cut cleaner with less noise and give a longer life.

PART No. PREFIX:
T .....Standard range
TS .....Short series
TX .....Long reach
TL .....Long shank
TXL .....Extra long reach

PART No. SUFFIX:
W .....Miniature series
M .....Standard series
S .....Solid carbide



3/8"shank range

Part No.	A mm	A inch	B mm	C shank	D mm
T1206.4M	6.3	1/4	15	3/8	30
T1208M	8.0	5/16	20	3/8	38
T1209.5M	9.5	3/8	20	3/8	38
TX1209.5M	9.5	3/8	38	3/8	38
T1212.7M	12.7	1/2	20	3/8	38
T1216M	16.0	5/8	20	3/8	38
T1219M	19.0	3/4	20	3/8	38
T1220.5M	20.5	13/16	20	3/8	38
T1225.4M	25.4	1.0	20	3/8	38

1/2"shank range

Part No.	A mm	A inch	B mm	C shank	D mm
T1406.4M	6.3	1/4	20	1/2	36
T1407M	7.0	9/32	20	1/2	38
T1407.5M	7.5	9/32	20	1/2	38
T1408M	8.0	5/16	25	1/2	38
T1408.5M	8.5	21/64	25	1/2	38
T1409M	9.0	0.355	25	1/2	38
TS1409.5M	9.5	3/8	12	1/2	38
T1409.5M	9.5	3/8	30	1/2	38
TX1409.5M	9.5	3/8	38	1/2	38
T1410M	10.0	25/64	30	1/2	38
TX1410M	10.0	25/64	38	1/2	38
T1411M	11.0	7/16	30	1/2	38
TL1411M	11.0	7/16	25	1/2	50
T1412M	12.0	15/32	30	1/2	38
TX1412M	12.0	15/32	52	1/2	38
TS1412.7M	12.7	1/2	15	1/2	38
T1412.7M	12.7	1/2	35	1/2	38
TL1412.7M	12.7	1/2	25	1/2	50
TX1412.7M	12.7	1/2	52	1/2	38
TZ1412.7M	12.7	1/2	52	1/2	55
TS1414M	14.0	35/64	18	1/2	38
T1414M	14.0	35/64	35	1/2	38
TX1414M	14.0	35/64	50	1/2	38
T1415M	15.0	19/32	35	1/2	38
TX1415M	15.0	19/32	50	1/2	38
TS1416M	16.0	5/8	18	1/2	38
T1416M	16.0	5/8	35	1/2	38
TX1416M	16.0	5/8	50	1/2	38
TXL1416M	16.0	5/8	65	1/2	38
TS1417M	17.0	43/64	18	1/2	38
TS1417.5M	17.5	11/16	20	1/2	38
TS1418M	18.0	45/64	20	1/2	38
T1418M	18.0	45/64	35	1/2	38
TX1418M	18.0	45/64	60	1/2	38
TS1418.5M	18.5		20	1/2	38
T1419M	19.0	3/4	35	1/2	38
TX1419M	19.0	3/4	60	1/2	38
T1420M	20.0	25/32	35	1/2	38
TS1421M	21.0	53/64	20	1/2	38
T1422M	22.0	55/64	35	1/2	38
T1423M	23.0	29/32	35	1/2	38
T1424M	24.0	61/64	35	1/2	38
T1425M	25.0	63/64	35	1/2	38
T1425.4M	25.4	1.0	35	1/2	38
T1426M	26.0	1-1/32	35	1/2	38
T1428M	28.6	1-1/8	35	1/2	38
T1430M	30.0	1-3/16	30	1/2	38
T1432M	31.7	1-1/4	35	1/2	38
T1435M	35.0	1-3/8	35	1/2	38
T1438M	38.0	1-1/2	25	1/2	38
T1440M	40.0	1-37/64	25	1/2	38

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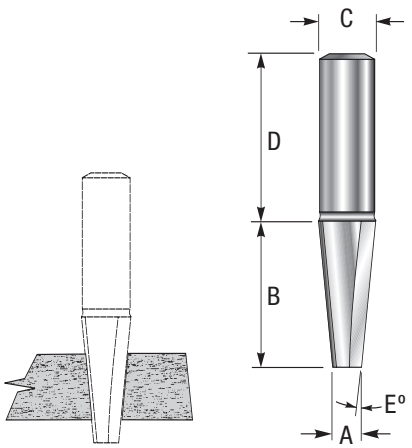
TAPER 2 FLUTE - SPLINE

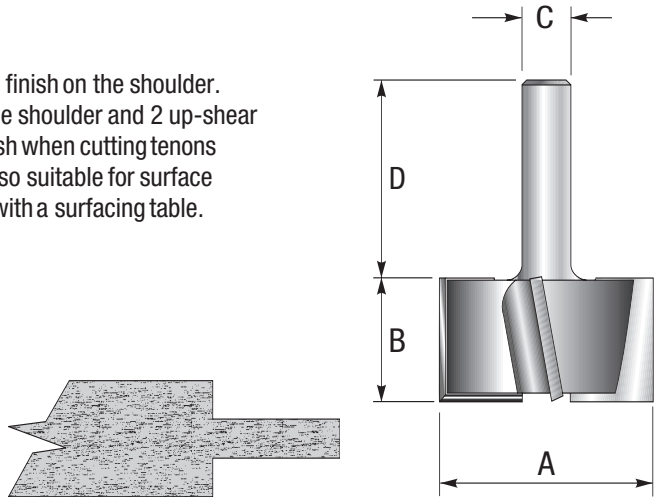
A straight 2 flute cutter with 5º taper making it suitable for machining tapered components for moulding tooling etc. A further use for this cutter is in boat repairs where it can be used for spline cutting when replacing caulking with a timber insert.



Part No.	A	B	C	D	Eº
T4645 1/2	6.0mm	36mm	1/2	38mm	5º

TENON - SURFACE TRIM

A range of cutters intended mainly for cutting tenons with a clean finish on the shoulder. The cutters have 4 cutting edges with 2 down-shear blades for the shoulder and 2 up-shear blades for the face of the tenon. This design ensures a clean finish when cutting tenons and other applications requiring a wide rebate. The cutters are also suitable for surface trimming on large areas, for example when used in conjunction with a surfacing table.

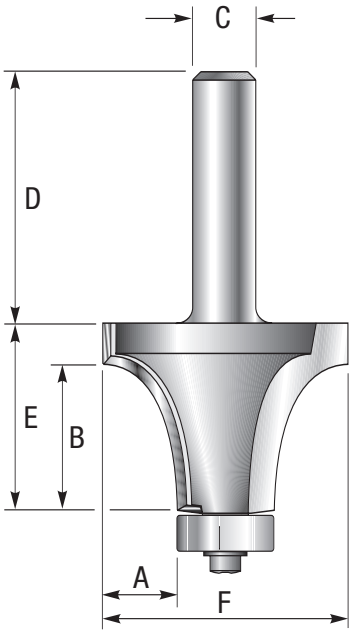


Part No.	A	B	C	D
T2430	25.0mm	20mm	1/4	28mm
T2432 - 8	25.0mm	20mm	8mm	35mm
T2434 - 8	35.0mm	20mm	8mm	35mm
T2435 1/2	35.0mm	20mm	1/2	48mm
T2437 1/2	50.0mm	20mm	1/2	48mm

OVOLO - ELLIPTICAL

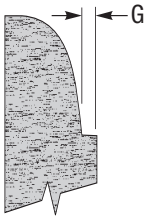
A two flute bearing guided cutter with an elliptical ovolo profile. The cutter is an exact match of the thumb mould T1372 1/2 but in a vertical form. The cutter is primarily designed for the top moulding of easing pieces on stair handrails. In conjunction with the T1372 1/2 (page 18) cutter handrails, easing pieces and wreaths may be produced. Other uses may include skirtings, architraves, etc.

The cutter is supplied with a TB748 bearing fitted and alternative bearings may be selected from the table below to vary the quirk dimension "G".



Part No.	A	B	C	D	E	F
T1375B 1/2	14mm	28.5mm	1/2	48mm	36mm	47mm

OPTIONAL BEARINGS

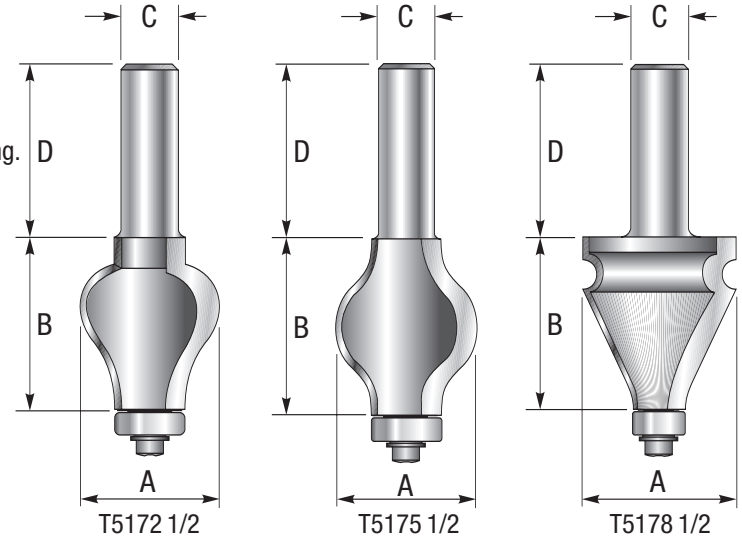


Part No.	G	
TB748	0	(supplied with cutter)
TB625	1.5mm	
TB504	3.1mm	

HANDRAIL CUTTERS

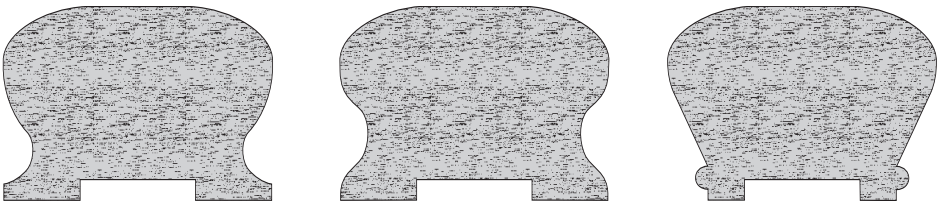
A range of two flute bearing guided cutters for cutting the finger grip moulding on handrails. The cutters when used in conjunction with the T1372 1/2 (below) or T1375B 1/2 (page 17) will cut a traditional handrail moulding. It is also possible to produce easing pieces and wreaths.

Part No.	A	B	C	D
T5172 1/2	31.8mm	38mm	1/2	38mm
T5175 1/2	31.8mm	38mm	1/2	38mm
T5178 1/2	34.9mm	38mm	1/2	38mm



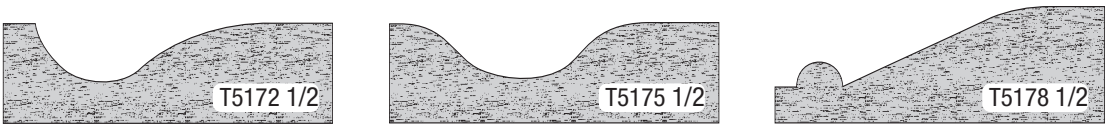
Replacement bearings

Cutter No.	Bearing
T5172 1/2	TB625
T5175 1/2	TB625
T5178 1/2	TB504



Half scale drawings of the handrails possible with the above cutters in conjunction with T1372 1/2.

Profiles on the right are full size.

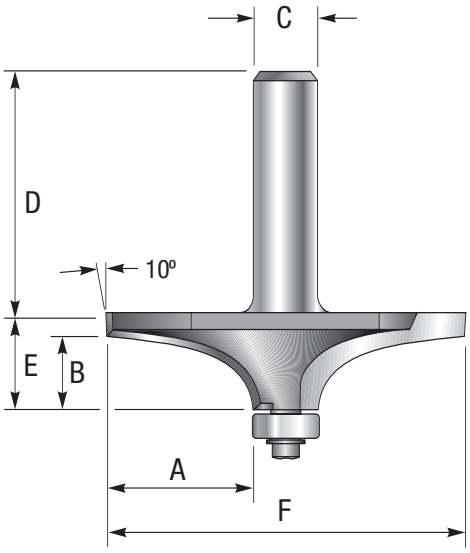


THUMB MOULD

This range of two flute 1/2" shank cutters produces a traditional elliptical profile in two sizes. This cutter is generally used to produce decorative table top edges with or without quirks on the top or side. The cutter may however find many other uses for decorative profiling, including architraves, dressers etc.

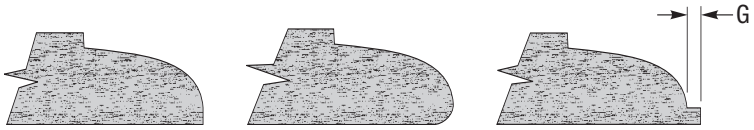
The cutter is supplied with a TB501 bearing fitted, but can also be used with a fence. Alternative bearings may be selected from the table below to produce the varying quirk sizes. These should be ordered separately. The T1372 1/2 cutter has a large overall diameter and should ideally be used in a stationary machine at approximately 12,000 to 14,000 rpm.

Part No.	A	B	C	D	E	F
T1370 1/2	22.0mm	12mm	1/2	48mm	18mm	57mm
T1372 1/2	28.5mm	14mm	1/2	48mm	19mm	70mm



OPTIONAL BEARINGS

Part No.	G	
TB501	0	supplied with cutter
TB394	1.4mm	
TB315	2.3mm	



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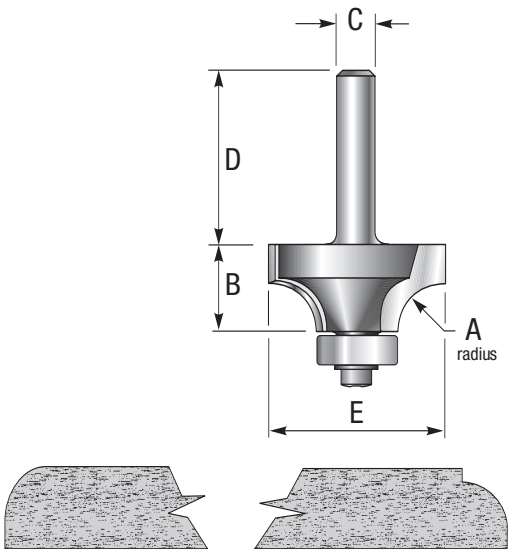
ROUNDING OVER

Two flute cutters with bearing guide. Used to produce a radiused edge with or without a top quirk. These cutters will only accept the bearing supplied and so are not suitable for producing an ovolo profile. They offer a lower cost alternative to the Round Over/Ovolo cutter.

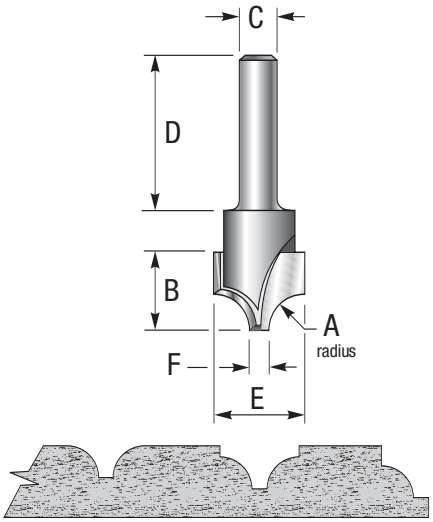
Part No.	A	B	C	D	E
T508B	6.0mm	13mm	1/4	25mm	24.7mm
T508B 1/2	6.0mm	13mm	1/2	36mm	24.7mm
T512B	10.0mm	16mm	1/4	25mm	32.7mm
T512B 1/2	10.0mm	16mm	1/2	36mm	32.7mm
T516B	13.0mm	19mm	1/4	25mm	38.7mm
T516B 1/2	13.0mm	19mm	1/2	36mm	38.7mm



PANEL BEADING

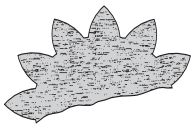
Two flute beading cutters for producing ovolo and rounding over profiles. May also be used for decorative panel work and mock panelling.

Part No.	A	B	C	D	E	F
T162	3.2mm	7mm	1/4	28mm	9.5mm	3.0mm
T163	4.8mm	10mm	1/4	28mm	12.7mm	3.0mm
T164	6.4mm	13mm	1/4	28mm	16.0mm	3.2mm
T164 1/2	6.4mm	13mm	1/2	40mm	16.0mm	3.2mm
T165	9.5mm	16mm	1/4	28mm	22.2mm	3.2mm
T165 1/2	9.5mm	16mm	1/2	40mm	22.2mm	3.2mm

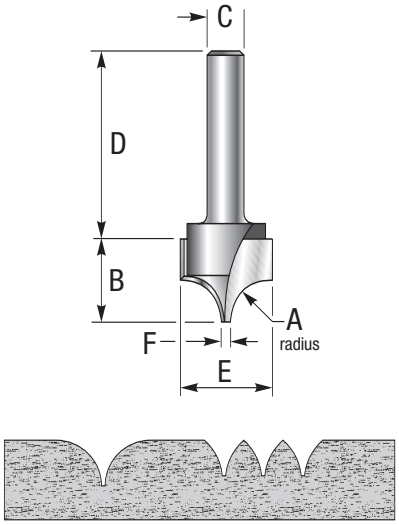


POINT ROUND

Two flute point round over cutters are suitable for many applications including panel decoration, veining, reeding, fluting, roping, etc. on legs and columns.

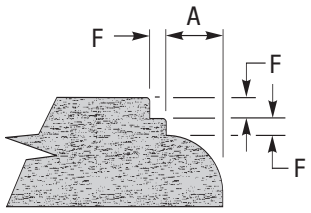


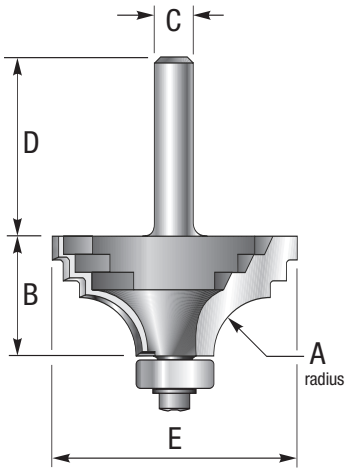
Part No.	A	B	C	D	E	F
T140	4.0mm	12mm	1/4	38mm	13mm	1.2mm
T145	8.0mm	18mm	1/4	38mm	20mm	2.0mm
T145 - 8	8.0mm	18mm	8mm	38mm	20mm	2.0mm
T145 1/2	8.0mm	18mm	1/2	45mm	20mm	2.0mm
T146 - 8	10.0mm	21mm	8mm	38mm	24mm	2.0mm
T146 1/2	10.0mm	21mm	1/2	45mm	24mm	2.0mm
T147 1/2	12.0mm	23mm	1/2	45mm	28mm	2.0mm



CASING SQUARE

This bearing guided cutter produces a round over with an additional square fillet. The decorative edge produced is most attractive and is particularly suitable for edging pine tables etc. The small radius on the corners produces a profile that requires little finishing.

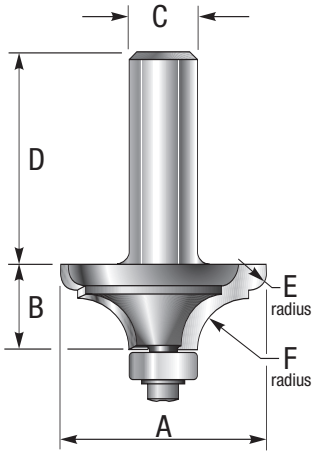




Part No.	A	B	C	D	E	F
T542B	9.5mm	20mm	1/4	30mm	41mm	3mm

OFFSET CLASSIC MOULD

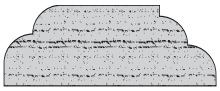
Two fluted bearing guided edge mould cutter with a classical profile. Suitable for moulding boards with a thickness of 18mm and over. May be used on work thinner than 18mm, but in this case the bearing would need to run against a template or straight edge.

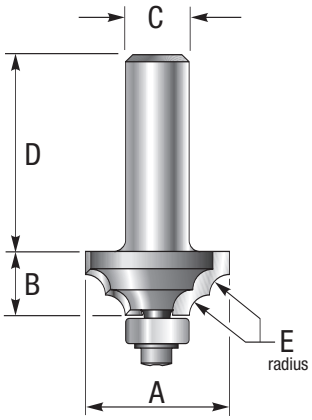


Part No.	A	B	C	D	E	F
T2651B	38mm	16mm	1/4	32mm	3.2mm	9.5mm
T2652B 1/2	38mm	16mm	1/2	38mm	3.2mm	9.5mm

BEAD OVOLO

A bearing guided two flute cutter to produce an attractive double beaded ovolo, with or without a top quirk. This type of cutter finds uses for decorative edge mouldings on plaques, bases, shields etc. as well as furniture.

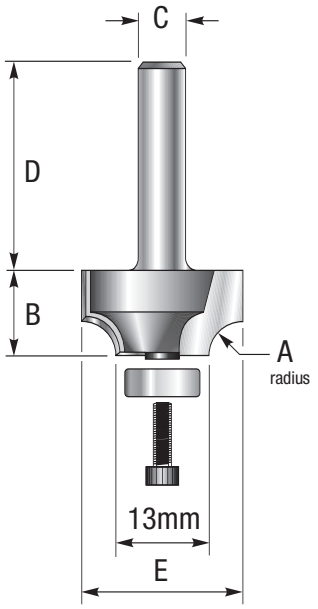




Part No.	A	B	C	D	E
T2590B	28.6mm	12.7mm	1/4	32mm	4mm
T2591B 1/2	28.6mm	12.7mm	1/2	38mm	4mm

OVOLO - ROUND OVER

The traditional ovolo/round over profile is used extensively in the furniture and cabinet trades for edge moulding etc. This range of two flute cutters will produce a round over or an ovolo profile, depending upon the bearing fitted. The cutter comes complete with one bearing (to produce an ovolo) and an Allen key. The bearing supplied is detailed below and varies depending on the cutter part number. Other bearings may be ordered separately and are shown in the lists below, along with the quirk dimension "E" produced (NB: 0mm quirk = round over).



SMALL SERIES

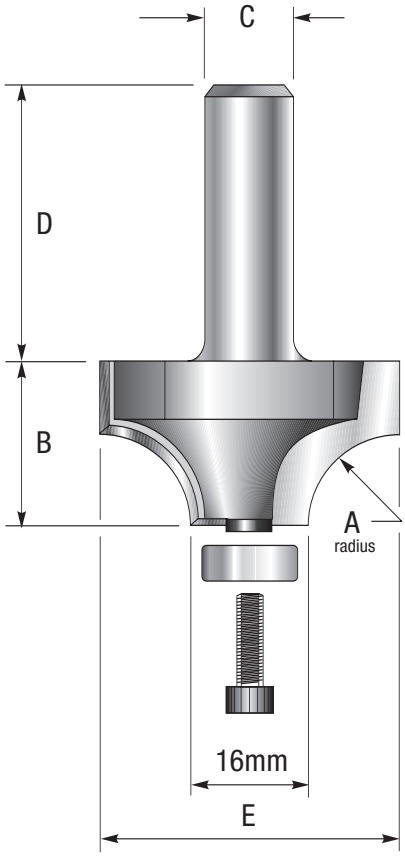
Part No.	A	B	C	D	E	Bearing supplied
T1325	2.5mm	10mm	1/4	28mm	18.0mm	TB394
T1327	3.2mm	10mm	1/4	28mm	19.4mm	TB394
T1328	4.8mm	12mm	1/4	28mm	22.6mm	TB394
T1329	6.0mm	14mm	1/4	28mm	25.0mm	TB315

Optional bearings for small series cutters - ABOVE (order separately)

Bearing	F (quirk)
TB452	0mm
TB394	1.5mm
TB315	2.5mm

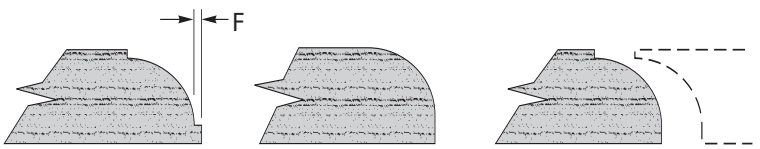
Optional bearings for large series cutters - BELOW (order separately)

Bearing	F (quirk)
TB216	0mm
TB213	1.5mm
TB212	2.0mm
TB211	2.5mm
TB210	3.0mm
TB209	3.5mm
TB208	4.0mm



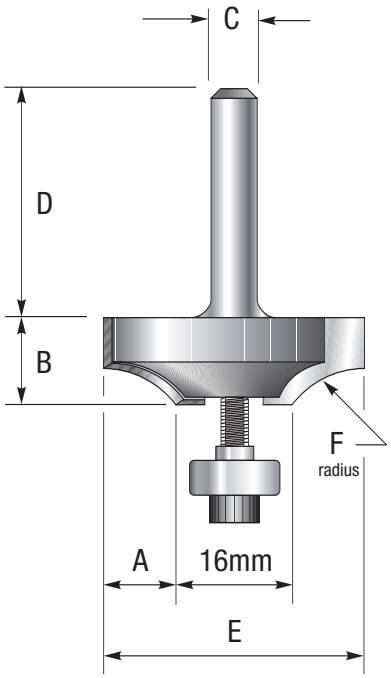
LARGE SERIES

Part No.	A	B	C	D	E	Bearing supplied
T1332	6.3mm	16mm	1/4	32mm	28.6mm	TB212
T1333 1/2	6.3mm	16mm	1/2	36mm	28.6mm	TB212
T1334	8.0mm	16mm	1/4	32mm	32.0mm	TB212
T1335 1/2	8.0mm	16mm	1/2	36mm	32.0mm	TB212
T1336	9.5mm	19mm	1/4	32mm	35.0mm	TB212
T1337 1/2	9.5mm	19mm	1/2	36mm	35.0mm	TB212
T1338	12.7mm	23mm	1/4	32mm	41.4mm	TB210
T1339 1/2	12.7mm	23mm	1/2	36mm	41.4mm	TB210
T1340 1/2	14.0mm	24mm	1/2	36mm	44.0mm	TB210
T1341 1/2	16.0mm	25mm	1/2	36mm	48.0mm	TB210
T1342 1/2	19.0mm	28mm	1/2	36mm	54.0mm	TB210
T1343 1/2	22.0mm	30mm	1/2	36mm	60.0mm	TB210
T1344 1/2	25.4mm	35mm	1/2	36mm	66.8mm	TB210



FLAT OVOLO

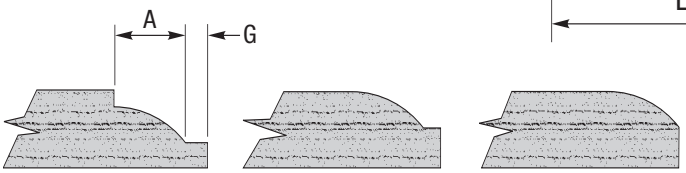
Two sizes of bearing guided flat ovolo cutter. The flat profile, in contrast to the more normal quarter round, has a width which is twice the height. This is particularly suited to decorative edge work on tables etc. The cutter is supplied with a bearing to give a 3mm quirk, although other bearings are available to alter the quirk dimension "G". Select from the table below and order separately. The bearing assembly may be completely removed, making the cutter suitable for panel work etc.



Part No.	A	B	C	D	E	F
T1380	10.0mm	13mm	1/4	28mm	36mm	12.5mm
T1380 1/2	10.0mm	13mm	1/2	40mm	36mm	12.5mm
T1382 1/2	15.0mm	15mm	1/2	40mm	46mm	18.0mm

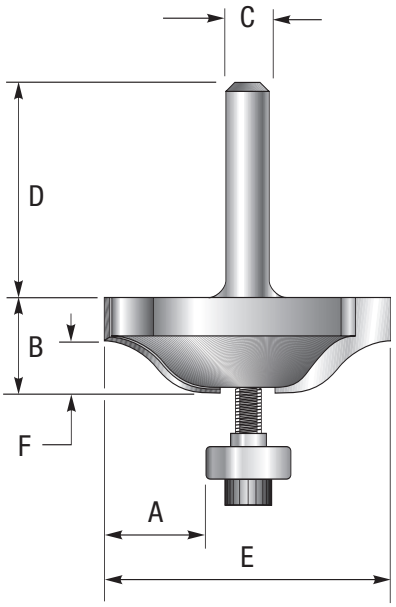
OPTIONAL BEARINGS

Bearing	G
TB216	0mm
TB213	1.5mm
TB212	2.0mm
TB210	3.0mm (supplied)
TB209	3.5mm
TB208	4.0mm



FLAT ROMAN OGEE

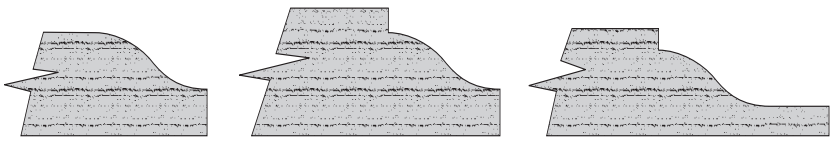
A bearing guided two flute flat ogee cutter in three sizes. This type of cutter will find many uses for edge moulding, particularly where a wide shallow mould is required. The cutter is supplied with a bearing to produce the moulded width "A". Other bearings are available as optional extras for cutters T7541 and T7542 - select from the table below. The bearing assembly may be completely removed, making the cutter suitable for false panel work etc.



Part No.	A	B	C	D	E	F
T7540	10.0mm	11mm	1/4	28mm	30mm	5.0mm
T7541	15.0mm	14mm	1/4	28mm	42mm	7.5mm
T7541 1/2	15.0mm	14mm	1/2	40mm	42mm	7.5mm
T7542 1/2	25.0mm	18mm	1/2	40mm	62mm	12.5mm

OPTIONAL BEARINGS (not for T7540)

Bearing	alters A dimension
TB216	-2.0mm
TB213	-0.5mm
TB212	0mm (supplied)
TB210	+1.0mm
TB209	+1.5mm
TB208	+2.0mm

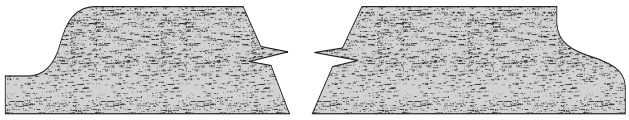


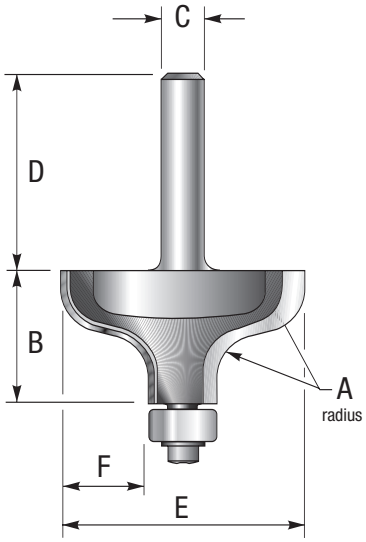
Telephone: 01663 766 714 Fax: 01663 766 721

OGEE

A bearing guided two flute cutter for producing ogee mouldings. Uses include decorative panelling, doors, furniture and clock mouldings etc.

Part No.	A	B	C	D	E	F
T7506B	4.0mm	18mm	1/4	25mm	26mm	8mm
T7509B	6.0mm	21mm	1/4	25mm	34mm	12mm
T7509B 1/2	6.0mm	21mm	1/2	36mm	34mm	12mm

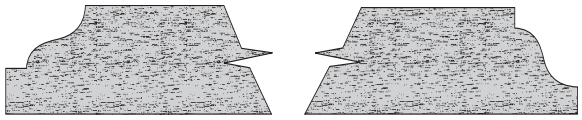


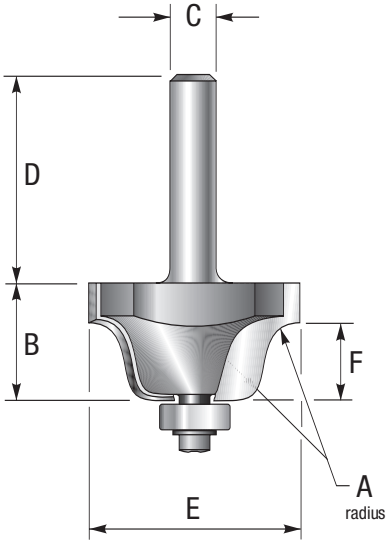


ROMAN OGEE

This bearing guided two flute cutter produces the Roman or reverse ogee. A traditional moulding which finds many uses in furniture making, joinery and cabinet work.

Part No.	A	B	C	D	E	F
T5705B	4.0mm	16mm	1/4	25mm	26mm	8.5mm
T5708B	6.0mm	20mm	1/4	25mm	34mm	13.5mm
T5708B 1/2	6.0mm	20mm	1/2	36mm	34mm	13.5mm
T5714B 1/2	8.0mm	25mm	1/2	38mm	43mm	17.5mm
T5716B 1/2	10.0mm	32mm	1/2	38mm	51mm	21.5mm

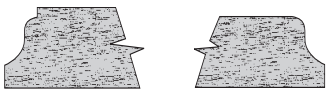


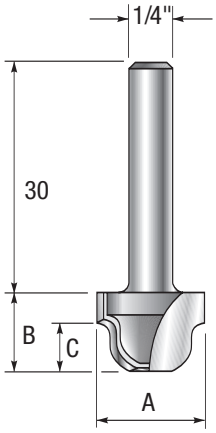


ROMAN OGEE - MINIATURE

A cutter to produce a miniature version of the Roman ogee profile. This cutter is not fitted with a bearing and must therefore be used with a fence.

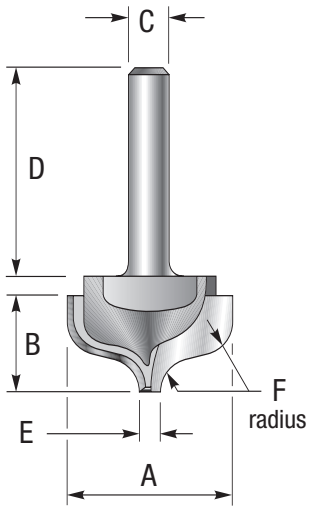
Part No.	A	B	C	D
T6650	15mm	11mm	6	30mm



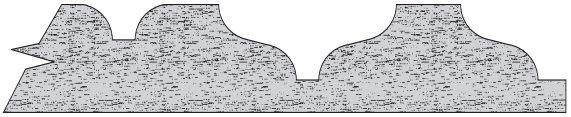


OGEE PANEL

A two flute moulding cutter which has many uses in decorative edge and panel moulding. If the cutter is run shallow it will produce an attractive round over panel mould. Deeper cuts will produce a flat ogee profile, which is often used for decorative panelling effects.



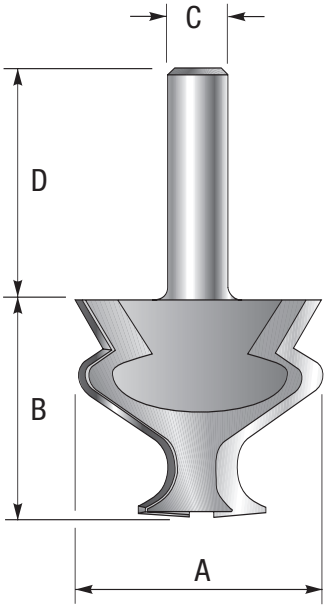
Part No.	A	B	C	D	E	F
T7520	10.0mm	10mm	1/4	28mm	3.0mm	3.2mm
T7522	13.0mm	10mm	1/4	28mm	3.2mm	3.2mm
T7524	24.0mm	15mm	1/4	28mm	4.0mm	5.0mm
T7524 1/2	24.0mm	15mm	1/2	40mm	4.0mm	5.0mm
T7526	33.0mm	15mm	1/4	28mm	5.0mm	6.4mm
T7526 1/2	33.0mm	15mm	1/2	40mm	5.0mm	6.4mm



GRECIAN OGEE WITH BEVEL

A two flute cutter to produce a traditional grecian ogee with bevel profile. This profile is commonly used for skirtings, architraves etc. It may also find uses in furniture making for dressers, cabinets etc. A bearing kit is available as an optional extra, to allow these cutters to be bearing guided.

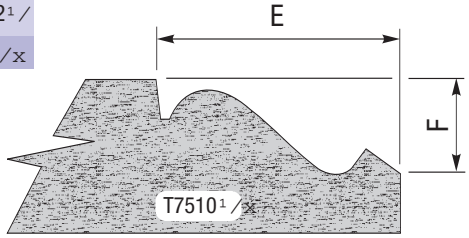
The T7512 1/2 is a large cutter and is intended for use in stationary machines and at a MAXIMUM SPEED OF 12,000 RPM.

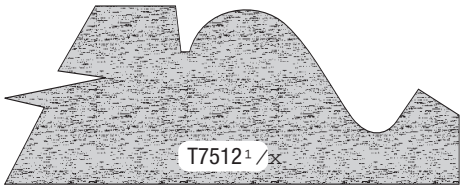


Part No.	A	B	C	D	E	F
T7507	25mm	24mm	1/4	28mm	24mm	9mm
T7507 1/2	25mm	24mm	1/2	36mm	24mm	9mm
T7510 1/2	38mm	35mm	1/2	45mm	34mm	12mm
T7512 1/2	48mm	45mm	1/2	45mm	44mm	18mm

Guide bearing kit (order separately)

Part No.	
TB7500	for T7510¹ /&T7512¹ /
TB7500A	for T7507 & T7507¹ /x





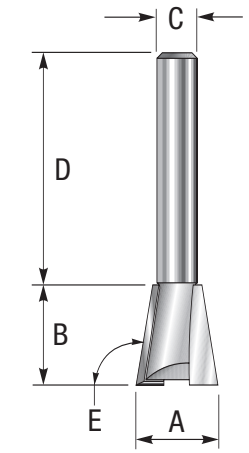
Profiles are shown approximately full size

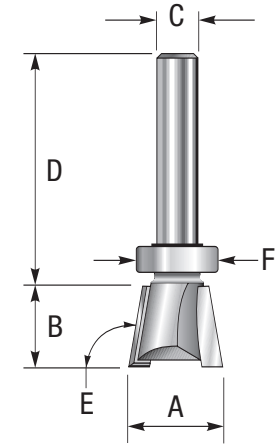
DOVETAIL

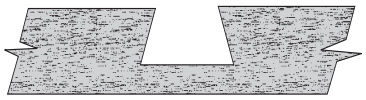
Two flute dovetail cutters are suitable for use either freehand or in dovetail jigs. They are most useful for producing accurate joints on housings, drawer fronts, corners etc. An entry under jigs in the list below indicates that the cutter is suitable for use with that make of dovetail jig.

* The T1026B cutter is fitted with a guide bearing and is suitable for use with most makes of Taiwanese cam locking type jigs.

Part No.	A	B	C	D	E°	F	Jigs
T1007	6.3mm	7.9mm	1/4	32mm	97.5		
T1009	7.9mm	9.5mm	1/4	32mm	99		
T1011	12.7mm	18.0mm	1/4	48mm	101°		Leigh
T1012	9.5mm	15.0mm	1/4	48mm	98°		Leigh
T1013	9.5mm	10.0mm	1/4	35mm	98°		
T1014	12.7mm	14.0mm	1/4	38mm	103°		Elu
T1015	12.7mm	12.0mm	1/4	35mm	103°		
T1016	12.7mm	22.0mm	1/4	48mm	98°		Leigh
T1017	12.7mm	14.0mm	1/4	48mm	104°		Leigh
T1018	14.4mm	15.0mm	1/4	35mm	103°		
T1018 1/2	14.4mm	15.0mm	1/2	38mm	103°		
T1021	15.0mm	15.0mm	1/4	40mm	105°		
T1021-8	15.0mm	15.0mm	8mm	48mm	105°		
T1019 1/2	19.0mm	20.0mm	1/2	38mm	103°		
T1025 1/2	17.5mm	25.0mm	1/2	48mm	98°		Leigh
T1026 1/2	20.6mm	32.0mm	1/2	48mm	98°		Leigh
T1029 1/2	16.3mm	14.0mm	1/2	48mm	106.5°		
Fitted with guide bearing:							
T1020B	14.9mm	12mm	1/4	30mm	104	12.7mm	*



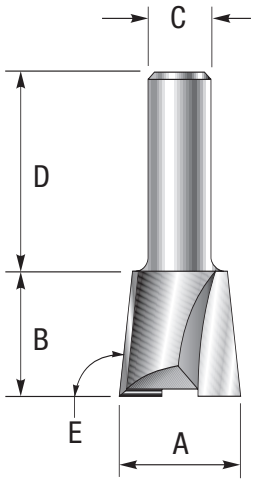


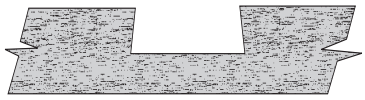


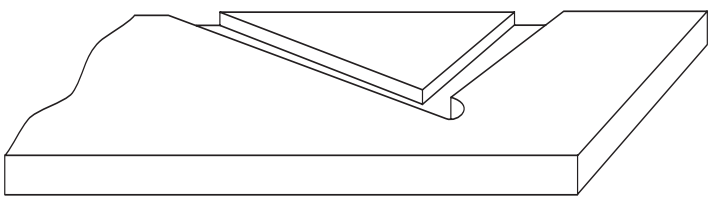
STAIR HOUSING

A range of two flute cutters for producing traditional stair housings, large dovetail joints etc. The T1045 series may be used in conjunction with some types of stair jigs.

Part No.	A	B	C	D	E°
T1045 3/8	19.0mm	25.4mm	3/8	38mm	95°
T1045 1/2	19.0mm	25.4mm	1/2	38mm	95°
T1050 1/2	25.4mm	25.4mm	1/2	38mm	95°





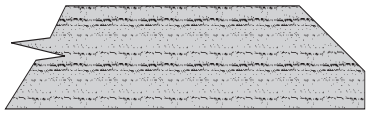


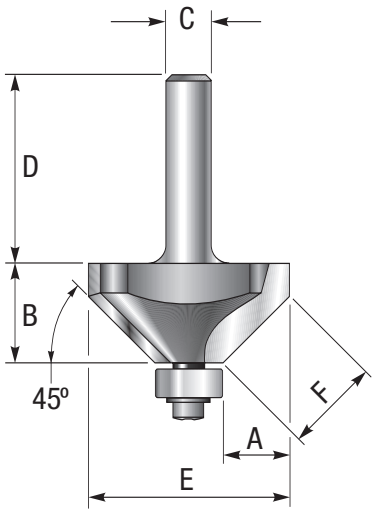
CHAMFER

Two flute cutter with guide bearing to produce chamfered edges. Used for relieving edges on frames, legs, sills, mouldings etc. Stopped chamfers can be an attractive decoration for beams, gates etc.

N.B. The T917B1/2 is a large cutter and should be used at 16,000 RPM MAXIMUM, please also ensure this cutter will fit through the base of your machine.

Part No.	A	B	C	D	E	F
T916B	12.0mm	16mm	1/4	25mm	34mm	17mm
T916B - 8	15.0mm	20mm	8mm	32mm	40mm	21mm
T916B 1/2	14.6mm	20mm	1/2	36mm	42mm	20mm
T917B 1/2	25.0mm	30mm	1/2	36mm	63mm	35mm





BEVEL CUTTER

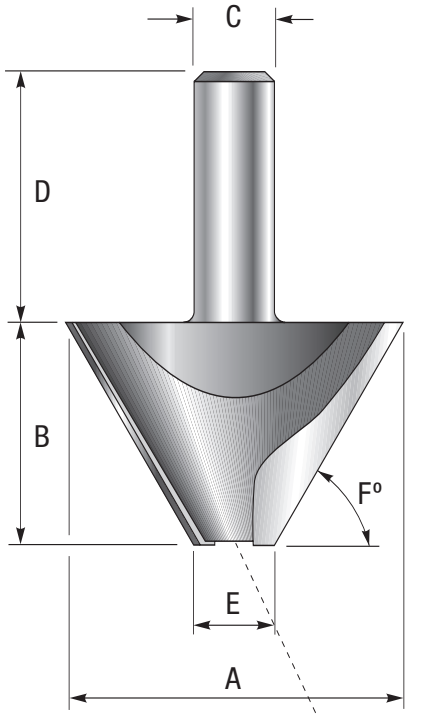
This range of two flute cutters allows the bevelling of timber up to 35mm thickness. The cutters may be used to bevel timber for the production of multi sided boxes etc. The table below lists the cutter angle and the number of sides to the box.

Angle	80º	18 sides
Angle	75º	12 sides
Angle	70º	9 sides
Angle	67.5º	8 sides
Angle	60º	6 sides

A guide bearing kit TB1940 is available to convert these cutters for bearing guided operation. The kit should be ordered separately.

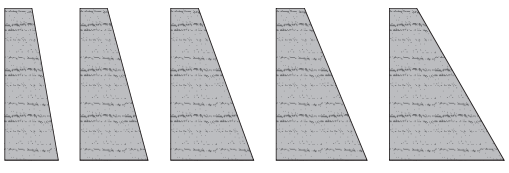
N.B. The T1949 1/2 is a large cutter and is intended for use in a stationary machine and at a MAXIMUM SPEED OF 16,000 RPM.

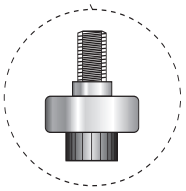
Part No.	A	B	C	D	E	Fº
T1940 - 8	25.1mm	35mm	8mm	32mm	13mm	80º
T1941 1/2	25.1mm	35mm	1/2	38mm	13mm	80º
T1942 - 8	31.5mm	35mm	8mm	32mm	13mm	75º
T1943 1/2	31.5mm	35mm	1/2	38mm	13mm	75º
T1944 - 8	38.2mm	35mm	8mm	32mm	13mm	70º
T1945 1/2	38.2mm	35mm	1/2	38mm	13mm	70º
T1947 1/2	41.7mm	35mm	1/2	38mm	13mm	67.5º
T1949 1/2	53.2mm	35mm	1/2	38mm	13mm	60º



Guide bearing kit (order separately)

Part No.
TB1940

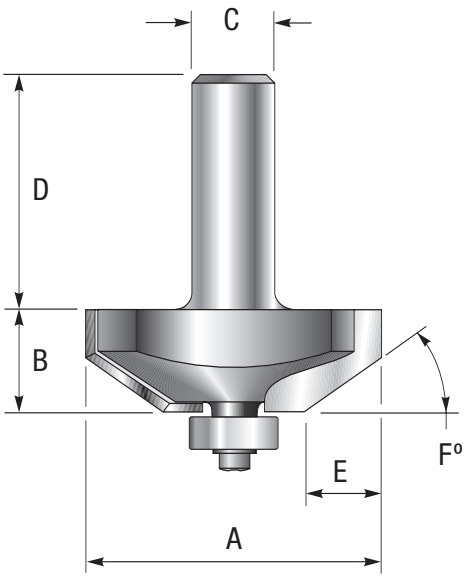




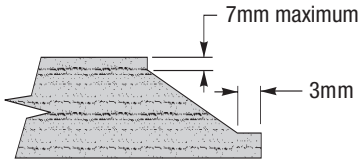
Bearing kit TB1940 (order separately)

CHAMFER - PANEL RAISE

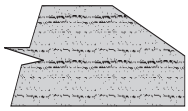
This two flute chamfering cutter is supplied with two bearings. The TB504 bearing produces a chamfer with a quirk, whilst the TB748 bearing cuts a plain chamfer. The profile can be used to produce decorative edges and may also be used to produce a small panel raise.



Part No.	A	B	C	D	E	Fº
T1916B	41.0mm	15mm	1/4	32mm	11mm	35º
T1916B 1/2	41.0mm	15mm	1/2	40mm	11mm	35º



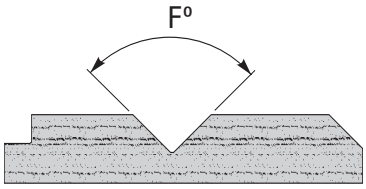
Cut with TB504 bearing

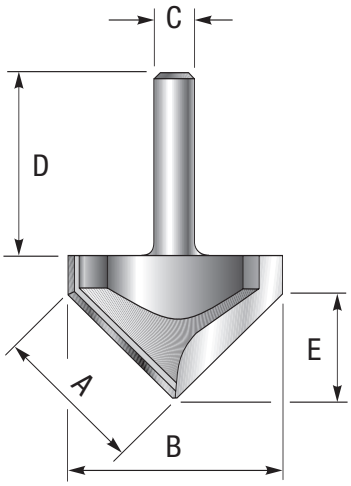


Cut with TB748 bearing

V GROOVE

Two flute grooving cutters with 60º or 90º included angle. Uses include lettering and sign work, chamfering panel edges, grooving and scoring panel design.

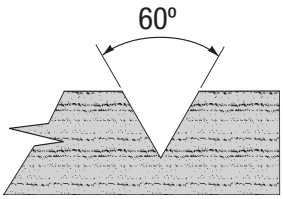


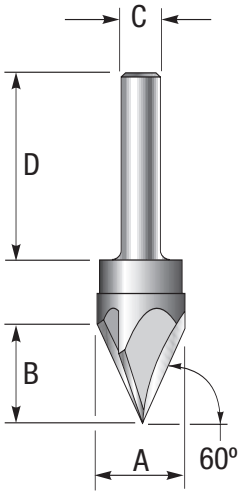


Part No.	A	B	C	D	E	Fº
T105	12.5mm	12.7mm	1/4	30mm	11.0mm	60º
T110	6mm	9.5mm	1/4	25mm	4.0mm	90º
T111	9mm	12.7mm	1/4	25mm	7.0mm	90º
T112	11mm	16.0mm	1/4	25mm	8.5mm	90º
T128	28mm	39.0mm	1/4	28mm	20.0mm	90º
T128 1/2	28mm	39.0mm	1/2	38mm	20.0mm	90º

ENGRAVING BIT - 3 FLUTE

This three flute cutter is ideal for lettering and decorative engraving. The solid carbide cutting head cuts to a fine 'V' point and produces clean cuts without feather edging.

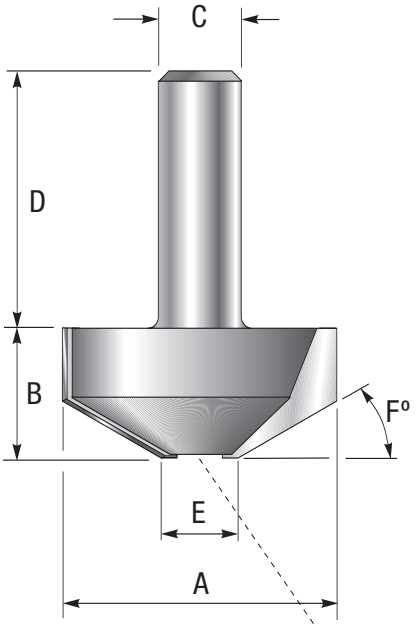




Part No.	A	B	C	D
T108	15mm	13mm	1/4	32mm

MORTAR GROOVE - CHAMFER

This range of two flute cutters is suitable for producing mortar grooves and chamfers and, in addition, has the option of fitting a bearing kit to increase the cutters' versatility.

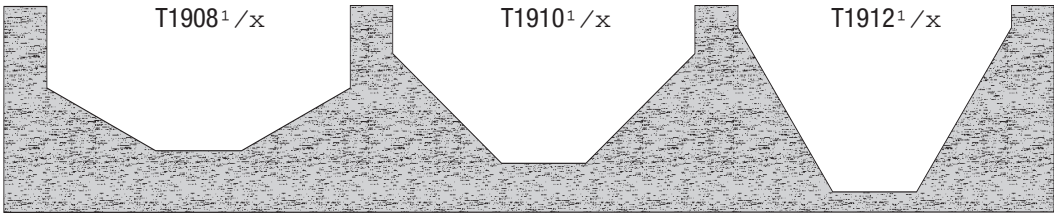


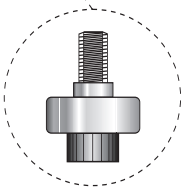
Part No.	A	B	C	D	E	Fº
T1908 1/2	42mm	20mm	1/2	38mm	12mm	30º
T1910 1/2	42mm	22mm	1/2	38mm	12mm	45º
T1912 1/2	38mm	26mm	1/2	38mm	12mm	60º

Guide bearing kit
(order separately)

Part No.
TB1910

Profiles are shown approximately full size



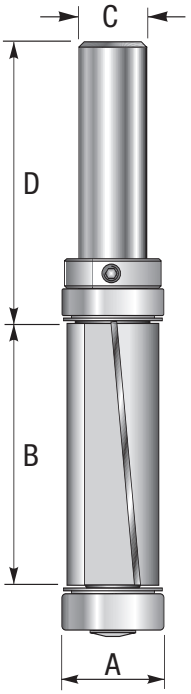


Bearing kit TB1910
(order separately)

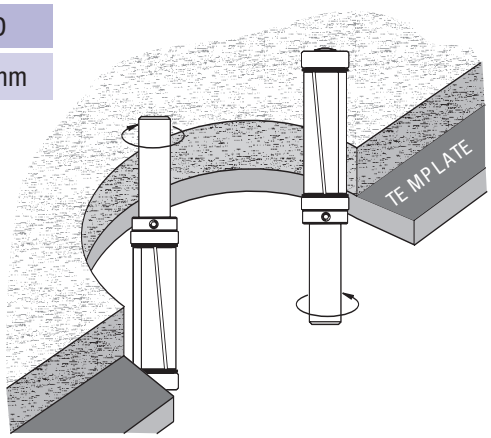
DOWN CUT SHEAR MULTI TRIMMER

This adaptable double bearing guided cutter has two down-shear cutting blades which ensure a clean cut even in difficult materials. In addition, the positive shear angle reduces breakout on the top edge, making it ideal for trimming veneered board.

The two bearing design allows the cutter to be used with the template mounted on either side of the work and, consequently, it is possible to cut from either direction using only one template and without moving the template to the other side of the workpiece. This is especially useful when cutting curves which run both with and against the grain.



Part No.	A	B	C	D
T8175B 1/2	19.0mm	50mm	1/2	50mm

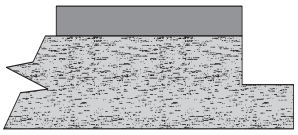


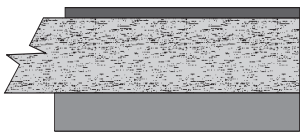
Replacement parts

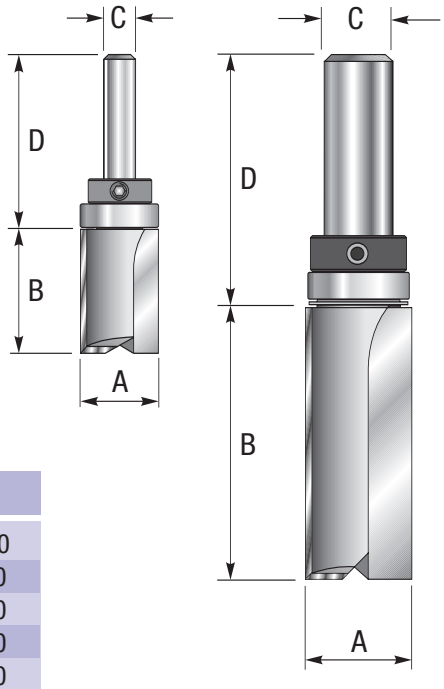
Part No.	Description
TC002	Shaft collar
TB575	Shaft bearing
TB748	Bottom bearing
TS1603	Shaft dust shield
TS3900	Bottom dust shield

TEMPLATE TRIM

A bearing guided two flute trimming cutter with the guide bearing mounted on the cutter shank. This enables the cutter to produce profiles by following a template. This type of cutter is particularly suited to profile work with the router mounted in a table. The long series 1/2" shank cutter may also be used for trimming and profiling worktops etc.





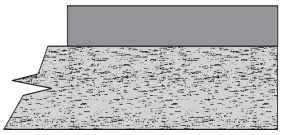


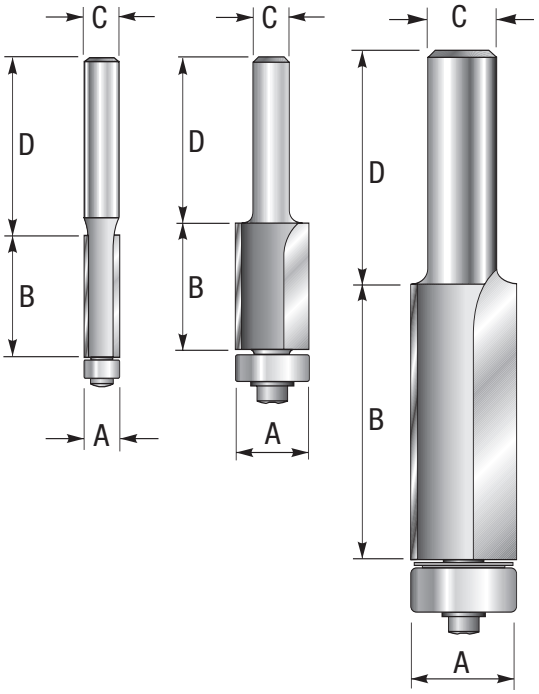
Replacement parts

Part No.	A	B	C	D	Bearing	Collar
T8027B	12.7mm	12mm	1/4	32mm	TB504	TC6300
T8028B	12.7mm	19mm	1/4	32mm	TB504	TC6300
T8030B	12.7mm	25mm	1/4	35mm	TB504	TC6300
T8032B	16.0mm	25mm	1/4	35mm	TB625	TC6300
T8034B	19.0mm	25mm	1/4	35mm	TB748	TC6300
T8036B 3/8	26.0mm	25mm	3/8	45mm	TB920	TC6500
T8038B 1/2	19.0mm	20mm	1/2	48mm	TB575	TC002
T8039B 1/2	19.0mm	30mm	1/2	48mm	TB575	TC002
T8040B 1/2	19.0mm	55mm	1/2	40mm	TB575	TC002

PANEL TRIM

Bottom bearing guided two flute cutter for trimming and profiling to a template. May also be used as a low cost trimmer for laminates, veneering, edge banding etc.





Replacement parts

Part No.	A	B	C	D	Bearing
T8010B	6.35mm	12mm	1/4	32mm	TB250
T8012B	6.35mm	25mm	1/4	32mm	TB250
T8013B	9.5mm	25mm	1/4	32mm	TB380
T8014B - 8	9.5mm	25mm	8mm	38mm	TB380
T8016B	12.7mm	25mm	1/4	25mm	TB500
T8016B 1/2	12.7mm	32mm	1/2	36mm	TB500
T8017B	12.7mm	35mm	1/4	30mm	TB500
T8018B 1/2	12.7mm	45mm	1/2	40mm	TB500
T8020B 1/2	19.0mm	55mm	1/2	40mm	TB748

TEMPLATE TRIMMERS

Easi-Tip

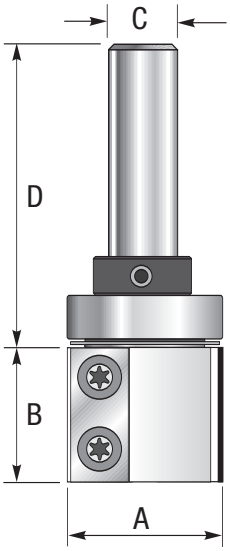
A bearing guided two flute trimming cutter with the guide bearing mounted on the shank. These Easi-Tip cutters have replaceable TC tips, giving the benefits of consistent cutting properties and low costs, making them especially suitable for difficult or abrasive materials such as solid surface etc.

The cutters are supplied complete with two TCT blades and a Torx key.

Part No.	A	B	C	D	Blade Part no.
T8110B - 8	28.5mm	24mm	8mm	40mm	TK24
T8111B 3/8	28.5mm	24mm	3/8	45mm	TK24
T8112B 1/2	28.5mm	24mm	1/2	50mm	TK24

Replacement parts

Part No.	Description
TB975	Bearing
TC002	Collar
TQ405	Torx screw M4 x 5
TS1604	Dust shield
KT15	Torx key



MULTI TRIMMERS

Easi-Tip

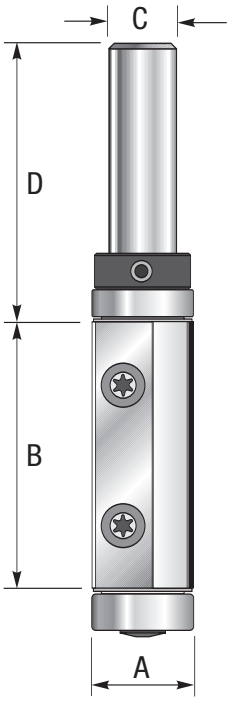
This new and unique cutter is a two flute replaceable tip bearing guided trimmer with the additional feature of both shank and bottom mounted guide bearings and dust shields. This enables the trimmer to work with both top or bottom mounted templates with just one cutter. In addition, the trimming of curved shapes where the cutter is cutting up the grain resulting in poor finish and grain tear-out can be solved by simply placing the routing machine on the other side of the workpiece and cutting down the grain, using only one template and without removing this from the workpiece. The wide range of sizes and the low cost replaceable tips make this a cost effective cutter.

The cutters are supplied complete with two TCT blades and a Torx key.

Part No.	A	B	C	D	Blade Part no.
T8142B 1/2	19mm	24mm	1/2	38mm	TK24
T8145B 1/2	19mm	30mm	1/2	38mm	TK30
T8148B 1/2	19mm	40mm	1/2	38mm	TK40
T8152B 1/2	19mm	50mm	1/2	38mm	TK50

Replacement parts

Part No.	Description
TB575	Shank bearing
TB748	Bottom bearing
TC002	Collar
TQ405	Torx screw M4 x 5
TS1603	Shank dust shield
TS3900	Bottom dust shield
KT15	Torx key

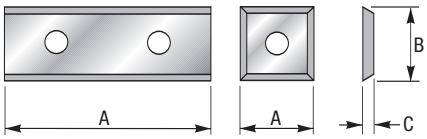


Easi-Tip REPLACEMENT BLADES

Part Number each	box 10	A	B	C
TK12	TK12B	12mm	12mm	1.5mm
TK24	TK24B	24.7mm	12mm	1.5mm
TK30	TK30B	30mm	12mm	1.5mm
TK40	TK40B	40mm	12mm	1.5mm
TK50	TK50B	50mm	12mm	1.5mm

TCT replacement blades for our Easi-Tip range of cutters. The TK12 blades have 4 rotatable cutting edges, whilst all other sizes have 2 rotatable edges. The blades are in standard grade carbide (K10).

IMPORTANT: To prevent blade fracture, ensure that the tip seating area is completely clean, when fitting a new blade.



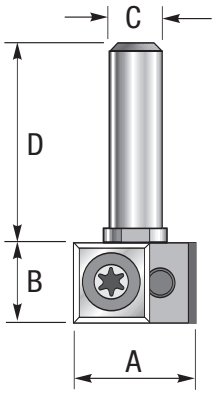
Telephone: 01663 766 714 Fax: 01663 766 721

EASI-TIP CUTTING TOOLS

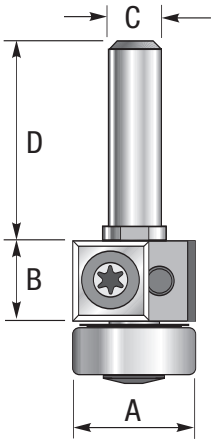
The EASI-TIP range of replaceable tip cutters features solid Tungsten Carbide blades which are easily replaced without removing the cutter from the machine. (Always ensure the power is disconnected before working on the cutter). The cutters with TK12 blades have 4 rotatable cutting edges, whilst all others have 2 cutting edges. These heavy duty cutters are especially suitable for production applications, where the easily replaced tips ensure consistent cutting properties with low down-time.

STRAIGHT TRIMMERS

Two flute replaceable tip cutters for flush trimming of hardwood lippings etc. The bearing guided version is designed for trimming laminates and veneered products and has a dust shield fitted to extend the bearing life. The cutters are supplied complete with two TCT blades and a Torx key.



T8120 / T8121-8



T8123B / T8124B-8

Part No.	A	B	C	D	Blade Part no.
T8120	19.0mm	12mm	1/4	28mm	TK12
T8121 - 8	19.0mm	12mm	8mm	32mm	TK12
T8123B	19.05mm	12mm	1/4	28mm	TK12
T8124B - 8	19.05mm	12mm	8mm	32mm	TK12

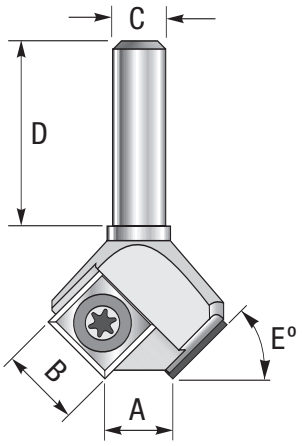
Replacement parts

Part No.	Description
TB748	Bearing
TQ405	Torx screw M4 x 5
TS3900	Dust shield
KT15	Torx key

BEVEL TRIMMERS

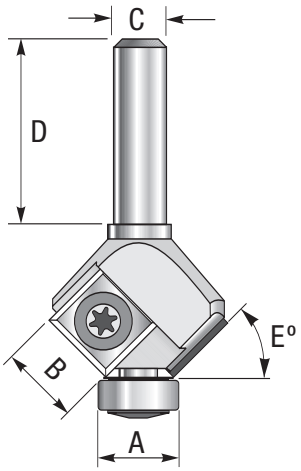
Two flute replaceable tip bevel trimmers suitable for bevel/chamfer cutting of solid timbers and laminated/veneered boards. Two cutting angles are available - 45 and 60 degrees. The 45 degree cutter is also available in a bearing guided version. The TCT replacement blades can be rotated in 90º steps, giving four times the life of a standard trimmer for each pair of replacement blades.

The cutters are supplied complete with two TCT blades and a Torx key.



T8130 / T8131-8

T8133 / T8134-8



T8136B / T8137B-8

Part No.	A	B	C	D	E	Blade Part no.
T8130	10.0mm	12mm	1/4	28mm	45º	TK12
T8131 - 8	10.0mm	12mm	8mm	32mm	45º	TK12
T8133	15.0mm	12mm	1/4	28mm	60º	TK12
T8134 - 8	15.0mm	12mm	8mm	32mm	60º	TK12
T8136B	12.7mm	12mm	1/4	28mm	45º	TK12
T8137B - 8	12.7mm	12mm	8mm	32mm	45º	TK12

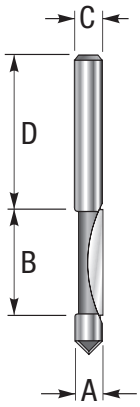
Replacement parts

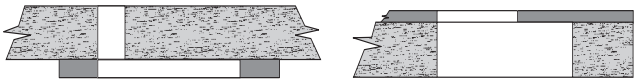
Part No.	Description
TB500	Bearing
TQ405	Torx screw M4 x 5
TS1580	Dust shield
KT15	Torx key

COMBINATION PANEL

Single flute pierce and trim cutters. These are typically used for cutting out apertures in composite boards, using a bottom mounted template if required.

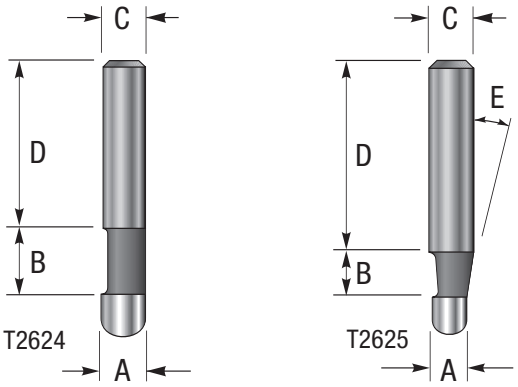
Part No.	A	B	C	D
T1506.4	6.4mm	20mm	1/4	30mm
T1509.5 3/8	9.5mm	20mm	3/8	30mm
T1512.7 1/2	12.7mm	26mm	1/2	35mm





ECONOMY TRIMMERS

Two types of solid carbide trimmers in 1/4" shank size. The T2624 produces a 90º trim and can be used self guided. T2625 produces a bevel trim at 7º and has a pilot guide if required.

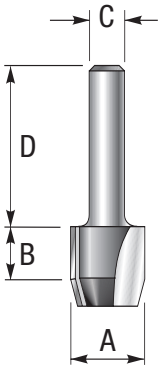


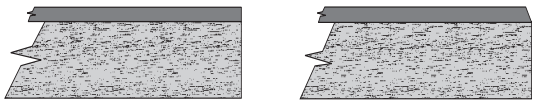
Part No.	A	B	C	D	Eº
T2624	6.3mm	9.5mm	1/4	40mm	-
T2625	4.0mm	9.5mm	1/4	40mm	7º

LAMINATE TRIM

A low cost two flute trimming cutter for laminated plastics, offering a straight and 15° bevel on the same cutter.

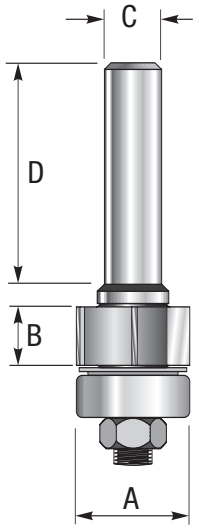
Part No.	A	B	C	D
T2622	12mm	12mm	1/4	25mm





LAMINATE TRIMMERS

A range of high quality cutters for rapid trimming with a superior finish. The straight cutters are 4 wing, whilst the bevel cutters are 3 wing. Cutter assemblies are complete with arbor, bearing and glue shield. These cutters are suited to fast trimming and bevelling of plastic laminates, perspex and other plastics materials. May also be used on particle board, hardboard and solid timber.



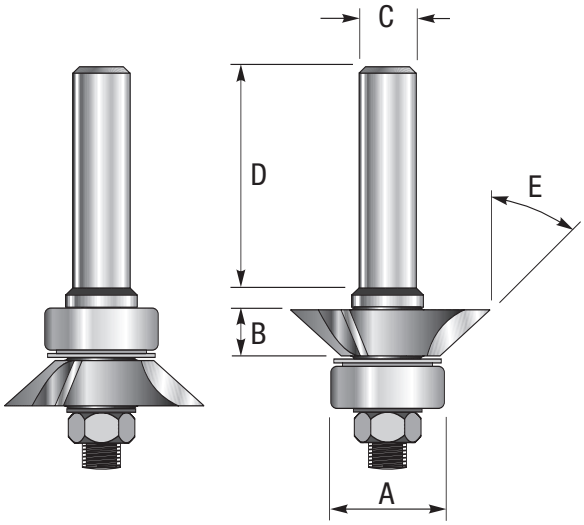
STRAIGHT ASSEMBLIES

Part No.	A	B	C	D
T3910	19mm	9.5mm	1/4	28mm
T3910 - 8	19mm	9.5mm	8mm	28mm
T3910 3/8	19mm	9.5mm	3/8	34mm
T3910 1/2	19mm	9.5mm	1/2	40mm

BEVEL ASSEMBLIES

Bevel assemblies may be either 22º or 45º angle of cut and left hand or right hand rotation. The standard assembly is right hand (RH) with the bearing below the cutter for top cutting. LH assemblies have the bearing above the cutter and are suitable for undercutting.

Part No.	A	B	C	D	Eº
T3946RH	19mm	8.0mm	1/4	26mm	45
T3946RH - 8	19mm	8.0mm	8mm	26mm	45
T3946RH 3/8	19mm	8.0mm	3/8	32mm	45
T3946RH 1/2	19mm	8.0mm	1/2	37mm	45
T3926RH	19mm	9.5mm	1/4	26mm	22
T3926RH - 8	19mm	9.5mm	8mm	26mm	22
T3926RH 3/8	19mm	9.5mm	3/8	32mm	22
T3926RH 1/2	19mm	9.5mm	1/2	37mm	22
T3946LH	19mm	8.0mm	1/4	26mm	45
T3946LH - 8	19mm	8.0mm	8mm	26mm	45
T3946LH 3/8	19mm	8.0mm	3/8	32mm	45
T3946LH 1/2	19mm	8.0mm	1/2	37mm	45
T3926LH	19mm	9.5mm	1/4	26mm	22
T3926LH - 8	19mm	9.5mm	8mm	26mm	22
T3926LH 3/8	19mm	9.5mm	3/8	32mm	22
T3926LH 1/2	19mm	9.5mm	1/2	37mm	22

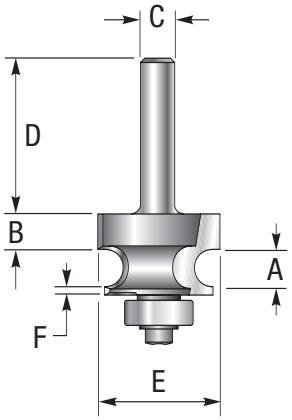


Replacement parts

Type	Cutter	Bearing	Glue shield	Arbor
Straight	T3900	TB748	TS3900	T3010 (plus shank size)
Bevel RH 45	T3945RH	TB748	TS3900	T3010 (plus shank size)
Bevel RH 22	T3922RH	TB748	TS3900	T3010 (plus shank size)
Bevel LH 45	T3945LH	TB748	TS3900	T3010 (plus shank size)
Bevel LH 22	T3922LH	TB748	TS3900	T3010 (plus shank size)

BEADED EDGE - SMALL SERIES

Small series bearing guided two flute cutters suitable for producing a side bead, corner bead or torus bead. A single cut will produce the side or edge bead whilst a double cut will produce a corner bead. The cutter may also be used to produce a torus bead with a fillet up to "B"in width.

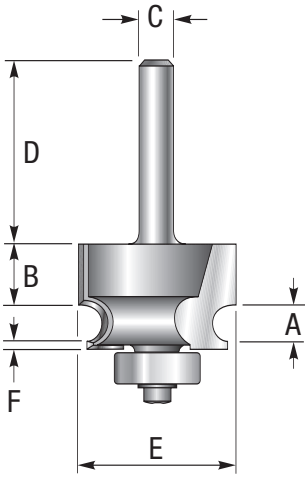


Part No.	A	B	C	D	E	F
T2501B	4.0mm	7mm	1/4	28mm	20mm	1.3mm
T2502B	4.8mm	7mm	1/4	28mm	21mm	1.3mm

BEADED EDGE - LARGE SERIES

A bearing guided two flute cutter suitable for producing a side bead, corner bead or torus bead. A single cut will produce the side or edge bead, and the step dimension "G" may be altered by fitting different sized bearings. A double cut will produce a corner bead. Ensure that the cut on the first side is stepped in from the edge of the workpiece by the same distance as dimension "G". This will ensure that a true bead is produced. The cutter may also be used to produce a torus bead with a fillet up to "B"in width.

NB. The cutter will be supplied with TB625 bearing, unless otherwise specified on your order.



Part No.	A	B	C	D	E	F
T2503B	6.4mm	11mm	1/4	28mm	28mm	1.3mm
T2503B-8	6.4mm	11mm	8mm	38mm	28mm	1.3mm
T2503B 3/8	6.4mm	11mm	3/8	32mm	28mm	1.3mm
T2303B 1/2	6.4mm	11mm	1/2	38mm	28mm	1.3mm
T2504B	9.5mm	8mm	1/4	28mm	30mm	1.5mm
T2504B 3/8	9.5mm	8mm	3/8	32mm	30mm	1.5mm
T2504B 1/2	9.5mm	8mm	1/2	36mm	30mm	1.5mm
T2505B 1/2	12.7mm	10mm	1/2	38mm	33mm	1.8mm
T2506B 1/2	16.0mm	10mm	1/2	38mm	36mm	2.0mm
T2507B 1/2	19.0mm	9mm	1/2	38mm	40mm	2.0mm

OPTIONAL BEARINGS

Part No.	G
TB748	0 mm
TB625	1.6mm
TB504	3.2mm

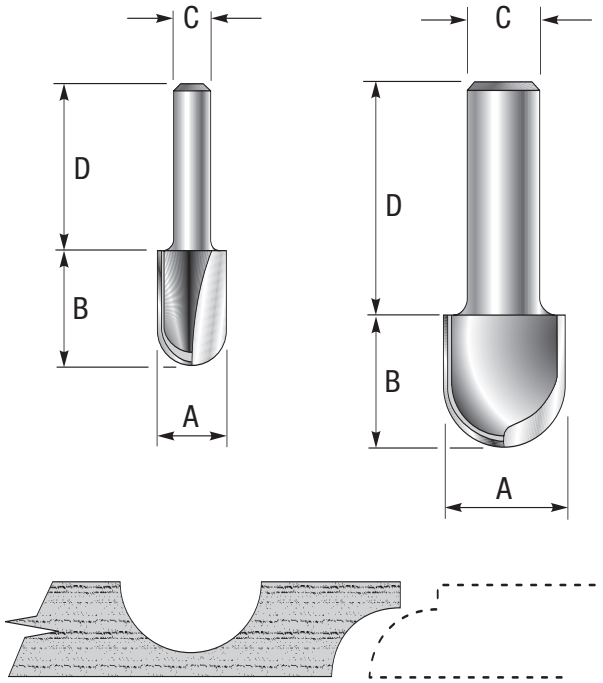
Telephone: 01663 766 714 Fax: 01663 766 721

CORE BOX

Two flute core box cutters used for decorative finishing work, panelling, concave moulded edges, drip grooves, fluting etc. They may also be used in conjunction with ovolo/round over cutters to produce drop leaf joints.

CUTTERS T438 1/2 and T450 1/2 SHOULD BE USED WITH CARE AND AT 16,000 RPM MAXIMUM.

Part No.	A	B	C	D
T403	3.2mm	8mm	1/4	25mm
T404	4.8mm	10mm	1/4	25mm
T406.4	6.4mm	16mm	1/4	25mm
T407 1/2	6.4mm	16mm	1/2	38mm
T408	8.0mm	16mm	1/4	25mm
T409 1/2	8.0mm	16mm	1/2	38mm
T409.5	9.5mm	16mm	1/4	25mm
T410 1/2	9.5mm	16mm	1/2	38mm
T411 1/2	10.0mm	16mm	1/2	38mm
T412.7	12.7mm	16mm	1/4	25mm
T413 1/2	12.7mm	16mm	1/2	38mm
T416	16.0mm	19mm	1/4	25mm
T417 1/2	16.0mm	20mm	1/2	38mm
T419	19.0mm	19mm	1/4	25mm
T420 1/2	19.0mm	20mm	1/2	38mm
T422	22.0mm	22mm	1/4	25mm
T425	25.4mm	22mm	1/4	28mm
T425.4 1/2	25.4mm	22mm	1/2	38mm
T432 1/2	32.0mm	25mm	1/2	38mm
T438 1/2	38.0mm	30mm	1/2	38mm
T450 1/2	50.8mm	32mm	1/2	38mm

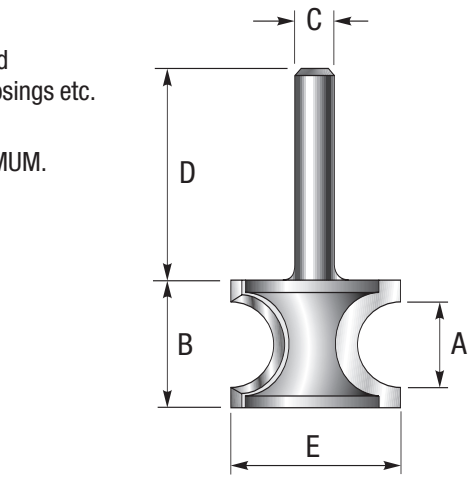


BEAD & EDGE RADIUS

These two flute cutters produce a full radius bead for rounding over edges and decorative work. Typical uses include table tops, sideboards, shelves, stair nosings etc. The cutter can also be used to produce a bead with a single or double quirk.

CUTTERS T2525 1/2 and T2526 1/2 SHOULD BE USED AT 16,0000 RPM MAXIMUM.

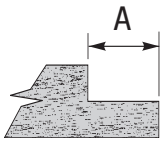
Part No.	A	B	C	D	E
T2520	6.0mm	20mm	1/4	28mm	20mm
T2519	8.0mm	20mm	1/4	28mm	22mm
T2519 1/2	8.0mm	20mm	1/2	38mm	22mm
T2521	10.0mm	20mm	1/4	28mm	24mm
T2521 1/2	10.0mm	20mm	1/2	38mm	28mm
T2522	12.0mm	20mm	1/4	28mm	26mm
T2522 1/2	12.0mm	20mm	1/2	38mm	30mm
T2523 3/8	16.0mm	30mm	3/8	34mm	32mm
T2523 1/2	16.0mm	30mm	1/2	38mm	32mm
T2524 1/2	20.0mm	35mm	1/2	38mm	36mm
T2525 1/2	25.0mm	40mm	1/2	38mm	43mm
T2526 1/2	32.0mm	46mm	1/2	38mm	48mm

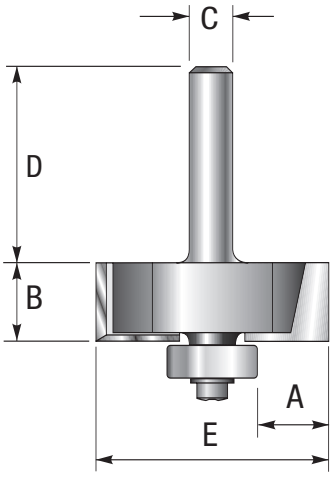


RABBETING - FIXED

This two flute cutter may be used for producing rebates, step edges etc. Guide bearings are fitted to produce a rebate width dimension (A). These cutters will only accept the bearing size as supplied. For cutters with interchangeable bearings, please see the range below.

Part No.	A	B	C	D	E
T1708B	6mm	13mm	1/4	25mm	24.7mm
T1708B 1/2	6mm	16mm	1/2	36mm	24.7mm
T1712B	10mm	13mm	1/4	25mm	32.7mm
T1712B 1/2	10mm	16mm	1/2	36mm	32.7mm
T1716B 1/2	14mm	18mm	1/2	36mm	40.7mm



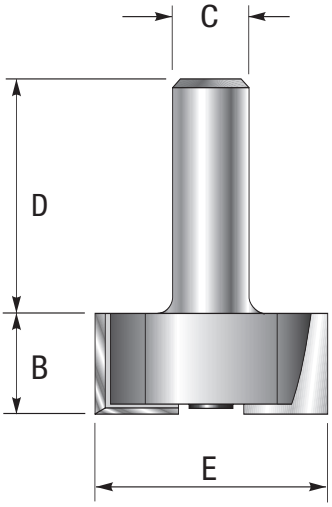


RABBETING - ADJUSTABLE

This alternative range of rabbeting cutters may be used with or without guide bearings. If used without a bearing, wide rebates may be produced by multiple passes. Guide bearings are supplied separately and should be selected from the table below depending on the rebate width (A) required. Cutters are up-shear cutting with the exception of T1705 which is down-shear. The down-shear cutter is especially suited to fine work requiring a clean finish on the top face (i.e. guitar banding etc.).

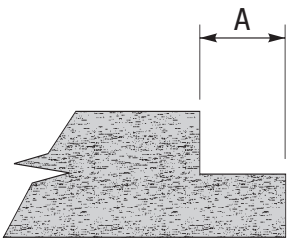
CUTTERS SUPPLIED WITHOUT BEARINGS - ORDER BEARINGS AS REQUIRED.

Part No.	A	B	C	D	E	TYPE
T1704	See	12mm	1/4	28mm	21mm	up-shear
T1705	guide	12mm	1/4	28mm	21mm	down-shear
T1714	bearings	14mm	1/4	30mm	38mm	up-shear
T1714 1/2	below	18mm	1/2	40mm	38mm	up-shear



Guide Bearings (order separately)

Part No.	A Rebate with T1704 or T1705	A Rebate with T1714 or T1714 1/x
TB885	-	6.0mm
TB850	-	8.0mm
TB740	1.0mm	9.5mm
TB680	1.5mm	10.0mm
TB670	2.0mm	10.5mm
TB620	2.5mm	11.0mm
TB454	3.0mm	11.5mm
TB453	3.5mm	12.0mm
TB452	4.0mm	12.5mm
TB501	4.2mm	12.7mm
TB450	5.0mm	13.5mm
TB394	5.5mm	14.0mm
TB315	6.5mm	15.0mm



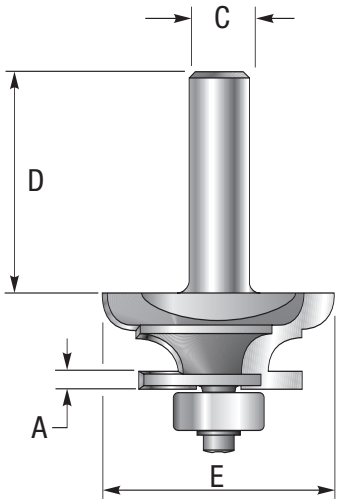
PANELLED DOOR SETS

A matched pair of two flute cutters to produce panelled doors with the traditional style cove and bead profile. The sets are available to produce either a 4mm or 6.5mm tongue. They are sold in sets with the 4mm groove available in either 3/8" or 1/2" shank and the 6.3mm groove in 1/2" shank only. The sets comprise a profile cutter, a scribe cutter and two bearings. The 4mm groove set is intended for use on 22mm nominal thickness timber, although this may be varied between 16 and 25mm, but with 16mm only a bead will be produced (i.e. no cove). For the 6.5mm set the nominal thickness is 26mm and the range is 20 to 29mm.

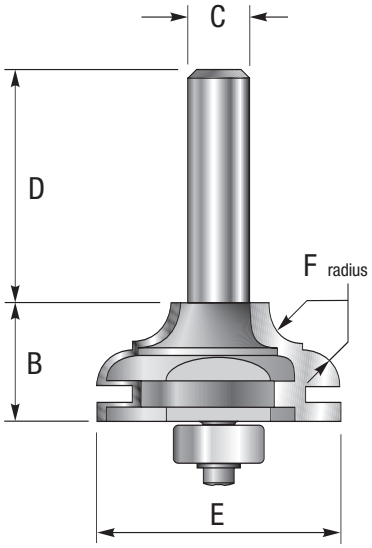
The profile cutter is used to mould the profile on to the rails and stiles, and at the same time cut a groove to accommodate the panelling which may be ply, solid fielded timber, close boarding etc. The scribe cutter moulds the ends of the rails to produce a mating profile to the stiles. This method of construction produces a strong joint with a long glue line and allows doors to be produced very quickly and with good repetitive accuracy. The cutters are suitable for machines with a power input of at least 750 watts.

These cutters are best used in conjunction with a router table, however they may be used freehand with the help of jigs. The application sheet supplied with the cutters details jigs and other set-up information to enable the rapid production of accurate joints. The application sheet is also available separately on request.

IMPORTANT: These are large cutters and you should ensure that they are suitable for use in your routing machine.



Profile cutter

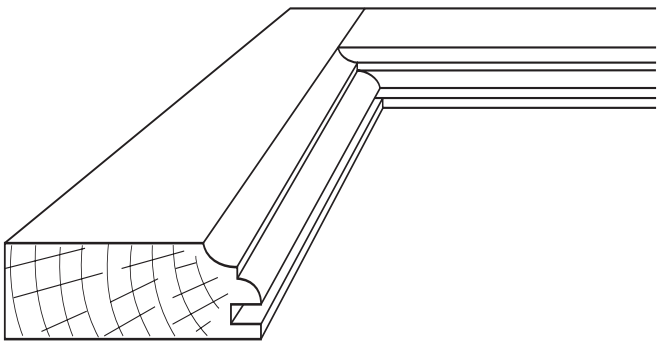


Scribe cutter

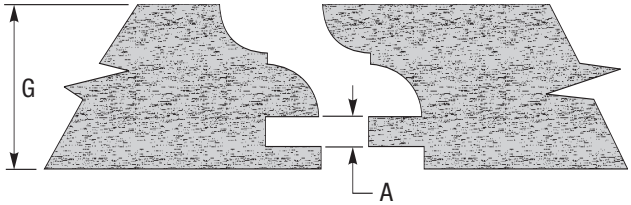
Part No.	A	B	C	D	E	F	G (max)
T4100 3/8	4.0mm	26mm	3/8	38mm	49mm	7mm	25mm
T4100 1/2	4.0mm	26mm	1/2	45mm	49mm	7mm	25mm
T4140 1/2	6.5mm	28mm	1/2	45mm	49mm	7mm	28mm

Replacement parts

Part No.	Description	Shank
T4101 3/8	4mm profile cutter	3/8
T4102 3/8	4mm scribe cutter	3/8
T4101 1/2	4mm profile cutter	1/2
T4102 1/2	4mm scribe cutter	1/2
T4141 1/2	6.5mm profile cutter	1/2
T4142 1/2	6.5mm scribe cutter	1/2
TB748	Bearing	



Profiles below are approximately full size



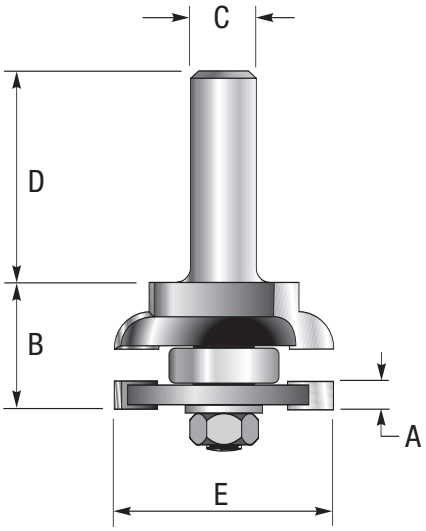
PANELLED DOOR SETS

Two sets of two flute panelled door cutters with either a round over or flat ovolo profile. Each set consists of a pair of cutters, one for the profile and one for the scribe, although each cutter may also be purchased separately as spare parts.

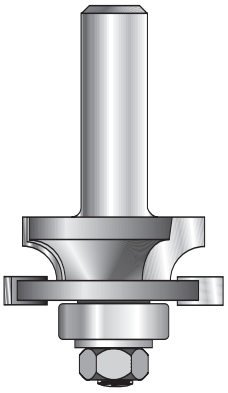
The cutters can be used for producing door frames for panelled doors and for any other joinery or cabinet work requiring a panelled frame construction.

The cutters are supplied with an application sheet detailing their use, which is available separately on request. They are suitable for use on timber with a thickness between 19mm and 25mm.

These cutters are suitable for use on machines with a power rating of at least 750 watts and are available in 1/2" shank only.



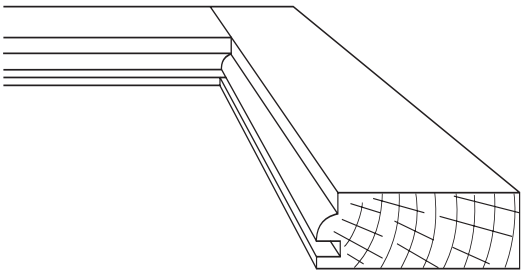
Scribe cutter

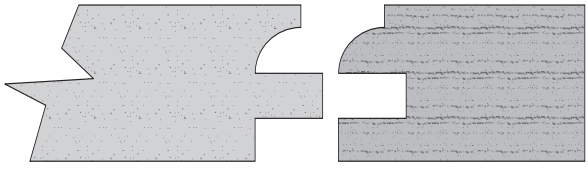

Profile cutter

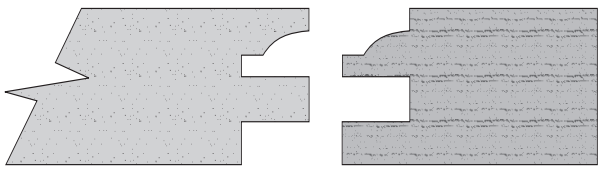
Part No.	A	B	C	D	E	Profile
T4310 1/2	6.3mm	25mm	1/2	38mm	41mm	Round over
T4320 1/2	6.3mm	25mm	1/2	38mm	41mm	Flat ovolo

Replacement parts

Part No.	Description
T4311 1/2	Round profile cutter
T4312 1/2	Round scribe cutter
T4321 1/2	Ovolo profile cutter
T4322 1/2	Ovolo scribe cutter
T4201	Groover 6.3mm
TB910	Bearing
TS4200	Shim set




T4310-1/2 ROUND OVER


T4320-1/2 FLAT OVOLO

Profiles approximately full size

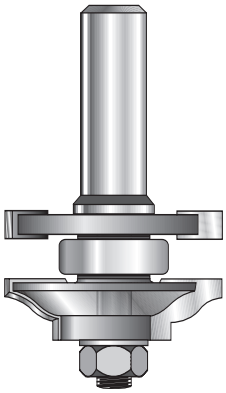
Telephone: 01663 766 714 Fax: 01663 766 721

REVERSIBLE DOOR SETS

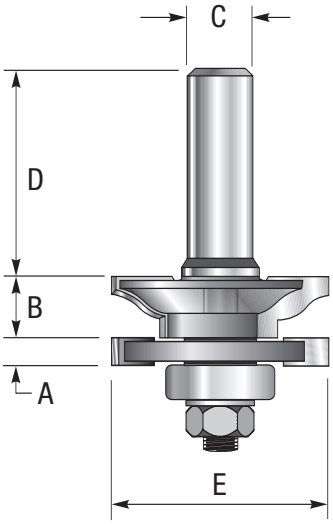
A two flute cutter set to produce moulded and scribed joints. The set is available in 4 different profiles and each set comprises the following four items: arbor, bearing, groover and reversible profile cutter. The components may be arranged on the arbor in two different ways to produce both the profile and scribing cuts. When arranged as a profile cutter it will mould both rails and stiles of door frames and, at the same time, cut a 6mm groove for the panel. When assembled with the alternative arrangement, the cutter will scribe the rail ends to produce an accurate mating joint.

This method of construction produces a long glue line, giving a strong yet rapid method of constructing doors/panelling etc. The timber should be between 18mm and 23mm in thickness. This cutter is suitable for use in machines having a power output of 750 watts or more and is available in 3/8" and 1/2" shank sizes only. Full size drawings of the profiles are available on request.

N.B. These cutters can now also be supplied with 8mm shank arbors. We can supply 8mm collets for the MOF 96E router (part number TA12), which will then allow the cutters to be used in this machine.

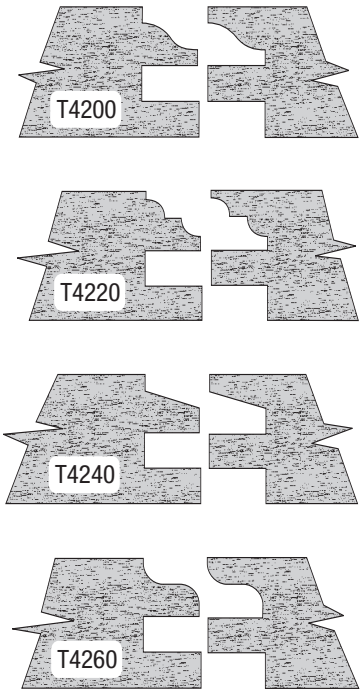


Cutter set up for scribe



Cutter set up for profile

Part No.	A	B	C	D	E	F	Profile
T4200 - 8	6.3mm	11mm	8mm	38mm	41mm	9.5mm	Roman Ogee
T4200 3/8	6.3mm	11mm	3/8	38mm	41mm	9.5mm	Roman Ogee
T4200 1/2	6.3mm	11mm	1/2	38mm	41mm	9.5mm	Roman Ogee
T4220 - 8	6.3mm	11mm	8mm	38mm	41mm	9.5mm	Classical
T4220 3/8	6.3mm	11mm	3/8	38mm	41mm	9.5mm	Classical
T4220 1/2	6.3mm	11mm	1/2	38mm	41mm	9.5mm	Classical
T4240 - 8	6.3mm	11mm	8mm	38mm	41mm	9.5mm	Raised
T4240 3/8	6.3mm	11mm	3/8	38mm	41mm	9.5mm	Raised
T4240 1/2	6.3mm	11mm	1/2	38mm	41mm	9.5mm	Raised
T4260 - 8	6.3mm	11mm	8mm	38mm	41mm	9.5mm	Ogee
T4260 3/8	6.3mm	11mm	3/8	38mm	41mm	9.5mm	Ogee
T4260 1/2	6.3mm	11mm	1/2	38mm	41mm	9.5mm	Ogee

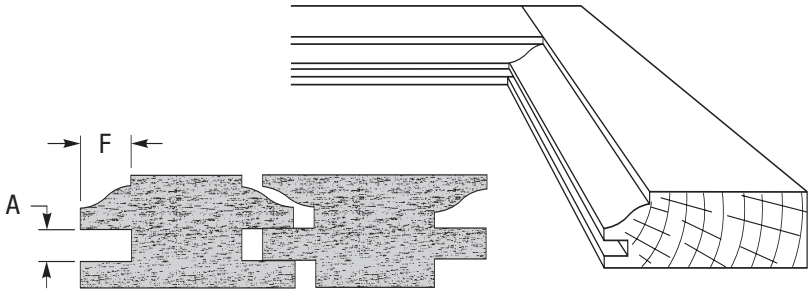


Replacement parts

Part No.	Description
T4200S	Profile cutter for T4200
T4220S	Profile cutter for T4220
T4240S	Profile cutter for T4240
T4260S	Profile cutter for T4260
T4201	Groover 6.3mm (standard)
T4202	Groover 8.0mm
T4203	Groover 10.0mm
T4204	Arbor 3/8 shank
T4205	Arbor 1/2 shank
T4206	Arbor 8mm shank
T4707	Extended arbor 1/2 shank
TB910	Bearing
TS4200	Shim set (copper)
TS4280	Shim set (stainless steel)
TA12	8mm collet for MOF 96

SHANK LENGTH

With some combinations of routing machine and table a longer shank length can be necessary. If required an extended arbor can be fitted to this range of cutters increasing the "D" dimension to 58mm. This is only available in 1/2" shank and the part number is T4207.

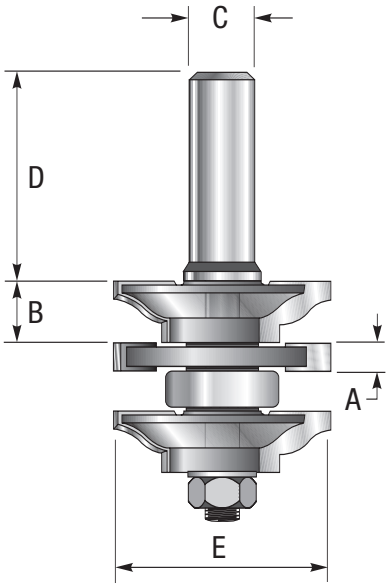


PROFILE & SCRIBE COMBINATION BIT

This two flute cutter set produces moulded and scribed joints similar to the reversible T4200 series. The advantage of this set is that both parts of the joint are cut by simply adjusting the height of the cutter. This removes the problems associated with re-arranging the components on the arbor and the possible loss of shims etc. The set is available in 2 different profiles - Roman Ogee and Classical.

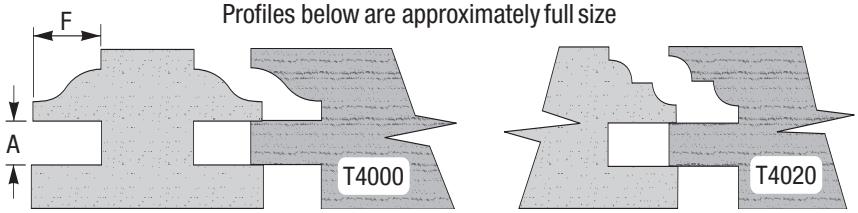
This method of construction produces a long glue line, giving a strong yet rapid method of constructing doors/panelling etc. This cutter is suitable for use in machines having a power output of 750 watts or more and is available in 1/2" shank sizes only. The cutters are suitable for use on timber between 18mm and 23mm in thickness.

ROUTER IN A TABLE ONLY OR OVERHEAD

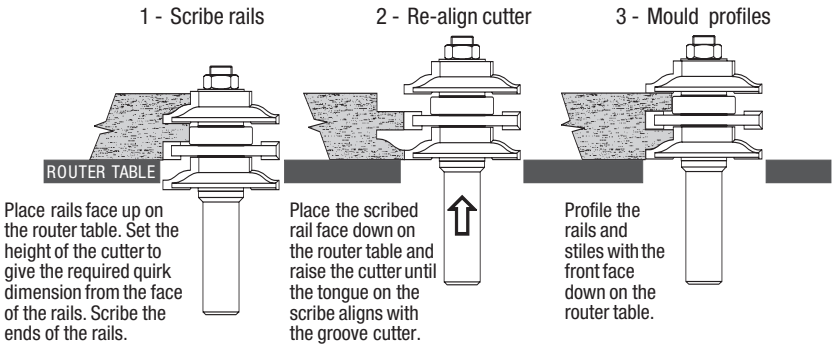


Part No.	A	B	C	D	E	F	Profile
T4000 1/2	6.3mm	11mm	1/2	38mm	41mm	9.5mm	Roman Ogee
T4020 1/2	6.3mm	11mm	1/2	38mm	41mm	9.5mm	Classical

Profiles below are approximately full size



Simple 3-step operation:



These cutters need to be used in a table-mounted or overhead router or similar. The table will need a back fence and mitre slide to locate and hold the rails while they are being scribed. The face of the back fence should be aligned with the guide bearing on the cutter which will ensure the correct depth of cut. The mitre slide should be fitted with a timber face to act as a support to prevent breakout while the rail is being scribed. A backstop or other method of clamping should be arranged to prevent the rail being pushed back during the scribe operation.

Full instructions for use are supplied with the cutter.

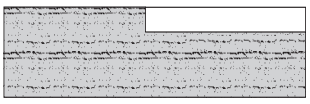
Replacement parts

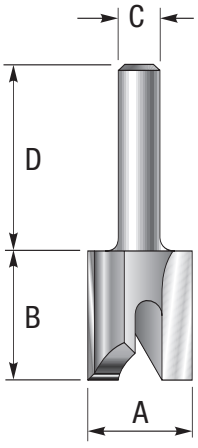
Part No.	Description
T4200S	Profile cutter for T4000
T4220S	Profile cutter for T4020
T4201	Groover 6.3mm
TB910	Bearing
T4359	Extended 1/2"arbor

HINGE MORTISING

A two flute cutter especially suitable for hinge recessing and shallow mortising. This design of bit is ideal for shallow surface cutting when the recess extends from the edge of the timber.

Part No.	A	B	C	D
T310	12.7mm	20mm	1/4	28mm
T311	16.0mm	20mm	1/4	28mm
T312	19.0mm	20mm	1/4	28mm
T312 1/2	19.0mm	20mm	1/2	40mm





Telephone: 01663 766 714 Fax: 01663 766 721

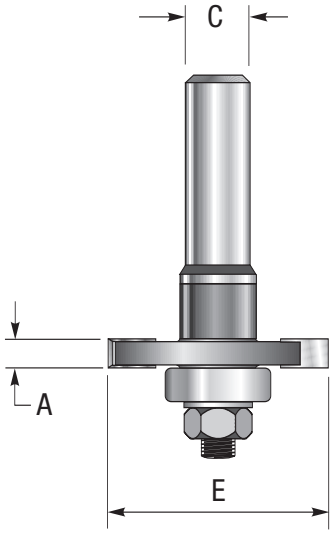
FRAME JOINTING SETS

This pair of cutters has been specially designed to enable the rapid and accurate production of frame joints for all types of panel construction. They may be used to produce doors, chests and furniture and, in fact, any form of construction that requires grooves for panels. The frame members may be left square edged and as such are suitable for **"Shaker"** style furniture. Alternatively they may be relieved with chamfers or beads to produce a more traditional style.

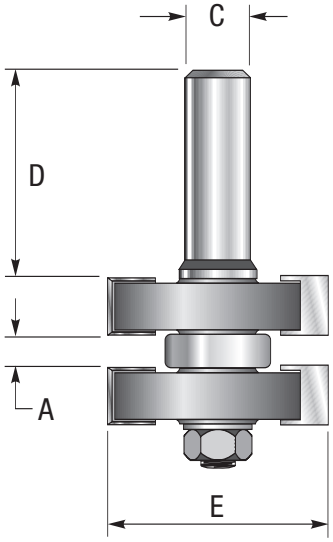
Three groove widths are available, 6 , 7 & 8mm, to allow the use of various thickness panel materials. The 7mm size should be suitable for veneered MDF board, however it would be prudent to check the thickness of the board, which varies considerably, before selecting the cutter width. Spare shims are provided with each set to allow the fit of the tongue in the groove to be adjusted. These are large cutters and the tongue cutter in particular will benefit from being run at a reduced speed.

All components are also available as spare parts and alternative width groovers may be purchased to suit different thickness boards. When purchasing an additional groover, a set of shims may also be required to adjust the width of the tongue. Longer arbors are available to suit some router/table combinations (see replacement parts list below). These will increase the "D" dimension to 58mm.

PLEASE NOTE: These cutters are sold as a pair (one tongue assembly and one groove assembly) and are only available in 1/2" shank. The groovers and other parts are not interchangeable with our 1/4" bore diameter groover range.



GROOVE ASSEMBLY

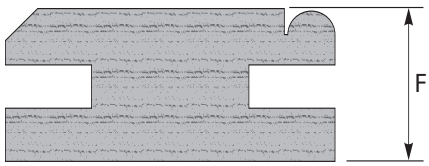


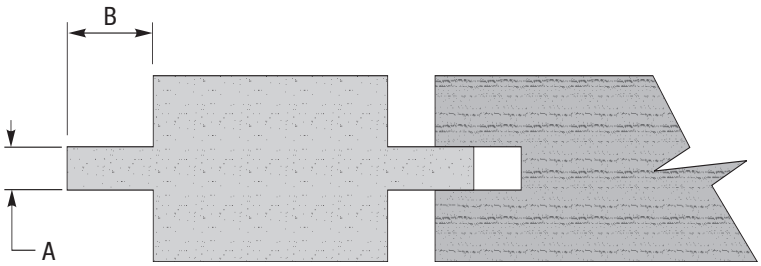
TONGUE ASSEMBLY

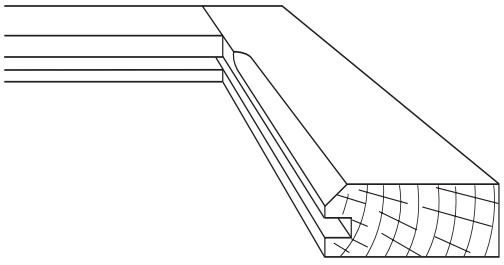
Part No.	A	B	C	D	E	F(min)	F(max)
T4344 1/2	6mm	12mm	1/2	44mm	46mm	14mm	29mm
T4346 1/2	7mm	12mm	1/2	44mm	46mm	15mm	30mm
T4348 1/2	8mm	12mm	1/2	44mm	46mm	16mm	31mm

Replacement parts

Part No.	Description
T4352	Groover - 6mm
T4353	Groover - 7mm
T4354	Groover - 8mm
T4355	Groover - 9mm
T4356	Tongue cutter
TS4351	Spacer
T4205	Arbor - groover
T4358	Arbor - tongue
TB910	Bearing
TB913	Bearing - reduces "B"dimension to 10mm
TS80	Set of shims
T4207	Arbor long - groover
T4359	Arbor long - tongue



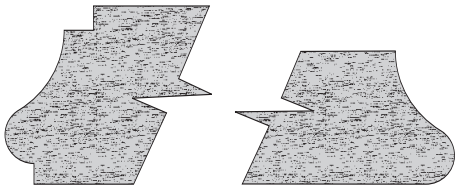


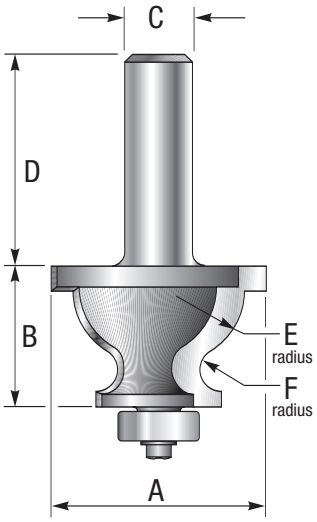


BULLNOSE MOULD

A two flute bearing guided cutter suitable for edge moulding table and dresser tops etc. The profile may be used with or without the top and bottom quirk and is suitable for timber thickness up to 16mm without quirks or 26mm with quirks.

Part No.	A	B	C	D	E	F
T2660B 1/2	40mm	26mm	1/2	38mm	13mm	4mm



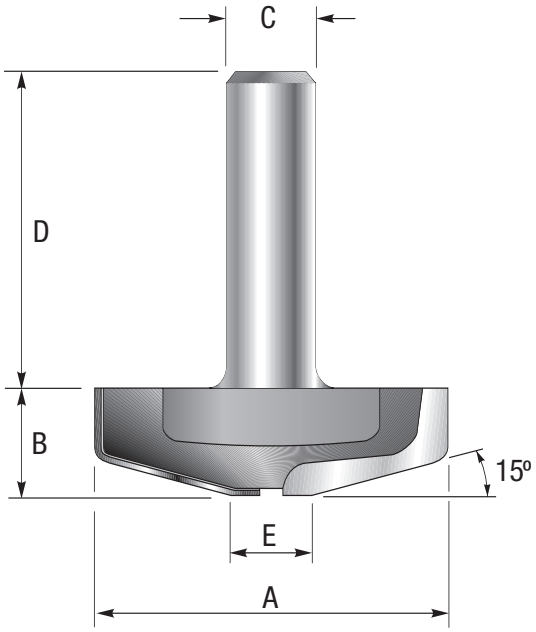


PANEL RAISING

Two wing cutters in 1/2" shank size to produce traditional raised and fielded panels. The T1920 1/x and T1922 1/x series produce a maximum cut width of 30.5mm and, if used freehand, must be used either with a roller follower or guide fence. The T1930 1/x and T1932 1/x series cutters produce a larger panel raise of 42mm. They can be used in stationary machines and may also be used in the larger variable speed portable machines. These larger cutters need to be run at 10,000 - 12,000 rpm maximum. Please ask for advice if in doubt about the suitability of your machine.

A bearing guide kit is available to fit the larger sized cutters, however this will NOT fit on the T1920 1/x or T1922 1/x cutters. When used with the bearing, dimension "E" becomes 6mm. This kit should be ordered separately.

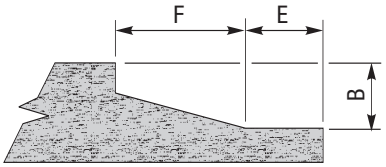
N.B. THE T1930 1/x & T1932 1/x ARE LARGE DIAMETER CUTTERS - PLEASE ENSURE THEY WILL FIT THROUGH THE BASE OF YOUR MACHINE AND THROUGH THE ROUTER TABLE.



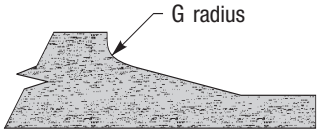
Part No.	A	B	C	D	E	F	G
T1920 1/2	49mm	15mm	1/2	45mm	12mm	18.5mm	-
T1922 1/2	49mm	15mm	1/2	45mm	12mm	18.5mm	6mm
T1930 1/2	64mm	15mm	1/2	45mm	20mm	22.0mm	-
T1932 1/2	64mm	15mm	1/2	45mm	20mm	22.0mm	8mm

Guide bearing kit
(order separately)

Part No.
TB1900



Square corner
T1920 1/x & T1930 1/x



Radius corner
T1922 1/x & T1932 1/x

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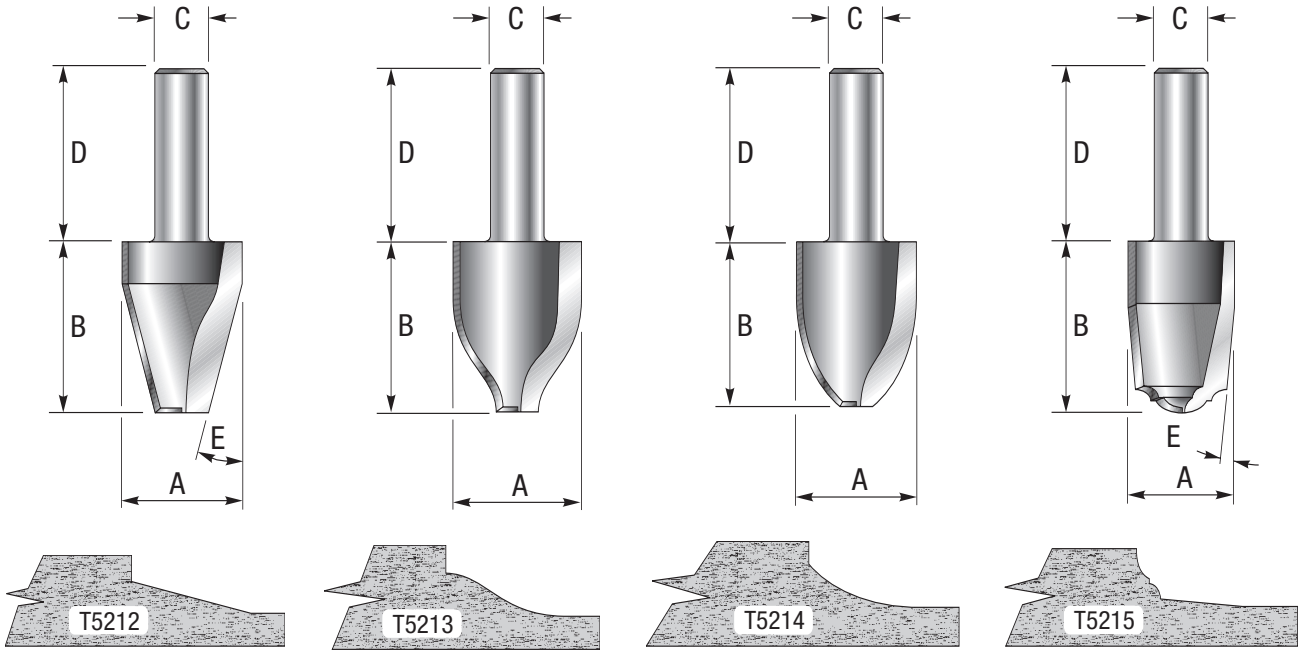
VERTICAL PROFILE

A range of two flute cutters for vertical profiling. May be used to produce raised panels as well as for skirtings, architraves, decorative mouldings etc. The relatively small diameter of these cutters enables them to overcome some of the problems that occur with the standard design panel raising cutters. Available in 8mm and 1/2" shank sizes only.

N.B. This type of cutter is not suitable for producing panels with curved edges (i.e. arched top panels).

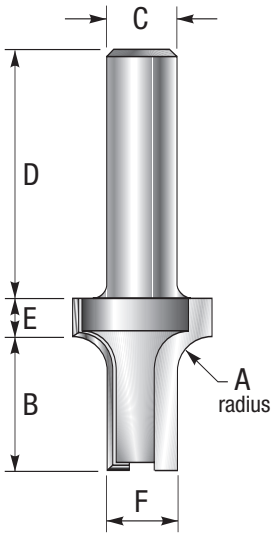
Part No.	A	B	C	D	E°
T5212 - 8	28mm	38mm	8mm	32mm	15°
T5212 1/2	28mm	38mm	1/2	38mm	15°
T5213 - 8	30mm	38mm	8mm	32mm	-
T5213 1/2	30mm	38mm	1/2	38mm	-
T5214 - 8	28mm	38mm	8mm	32mm	-
T5214 1/2	28mm	38mm	1/2	38mm	-
T5215 - 8	25mm	40mm	8mm	38mm	5°
T5215 1/2	25mm	40mm	1/2	38mm	5°

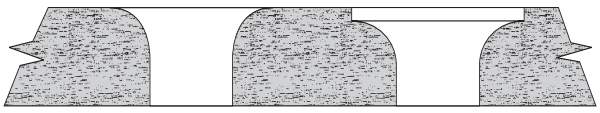


PIERCE & ROUND OVER

A two flute combination cutter to pierce through boards and produce a round over edge to the aperture.

Part No.	A	B	C	D	E	F
T4005 1/2	6.4mm	22mm	1/2	48mm	7mm	13mm
T4006 1/2	6.4mm	25mm	1/2	48mm	7mm	13mm
T4009 1/2	9.5mm	30mm	1/2	48mm	7mm	13mm
T4011 1/2	13.0mm	27mm	1/2	48mm	7mm	13mm
T4012 1/2	13.0mm	35mm	1/2	48mm	7mm	13mm



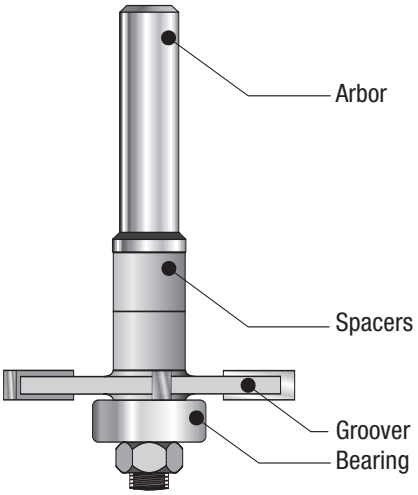


BISCUIT JOINTING SET

Biscuit jointing can be carried out with the router using a 4mm groover, an arbor and suitable bearings. The biscuit is made from compressed beechwood, which will swell when glued with a water based (PVA) adhesive and thus produce a tight joint. Selecting the correct size bearing will ensure a depth of cut slightly over half the width of the biscuit. The groove should be cut slightly longer than the length of the biscuits to allow for mis-alignment.The kits comprise a groover, arbor, spacers and three bearings to suit biscuit sizes #00, #10 and #20. Shank sizes of 1/4", 3/8", 1/2"or 8mm are available. Sets should be ordered using the part numbers listed below. The kit prices show a saving in cost compared with buying the individual components.

Kit Part No.	Shank size
T5390	1/4"
T5391 - 8	8mm
T5392 3/8	3/8"
T5393 1/2	1/2"

The parts should be assembled onto the arbor using the spacers to make up the length; the bearing can be fitted either above or below the groover. It is important to check that the groover is mounted the correct way round: fitting the groover upside down will stop it cutting and result in clouds of smoke!



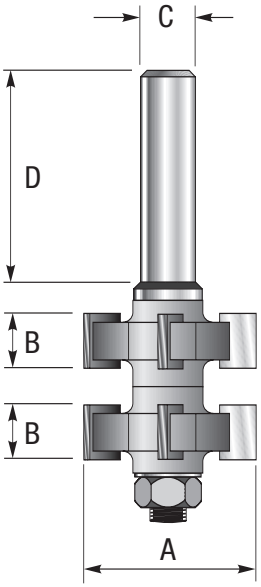
TONGUE CUTTERS & SETS

A versatile pair of 4 wing cutters which will produce either a 4mm or 6mm tongue, depending on which way they are mounted on the arbor. The cutters may be used in conjunction with 4mm or 6mm groovers, and the width of the tongue is set by the position of the router fence. Cutters are available in pairs, mounted on an arbor and, in addition, complete sets including both 4mm and 6mm groovers are available at a cost saving over the individual prices.

PLEASE NOTE: This cutter is not available in a 1/4" shank version.

ASSEMBLY comprises: Pair of cutters and arbor.

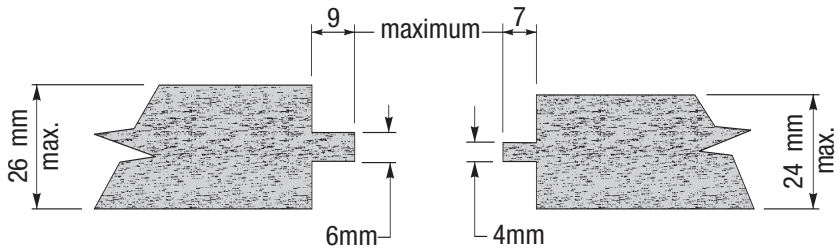
SET comprises: Pair of cutters, arbor, 6mm groover, 4mm groover and a set of spacers



Part No.	A	B	C	D	Description
T5510 - 8	30mm	10mm	8mm	40mm	assembly
T5510 3/8	30mm	10mm	3/8	40mm	assembly
T5510 1/2	30mm	10mm	1/2	40mm	assembly
T5530 - 8	30mm	10mm	8mm	40mm	set
T5530 3/8	30mm	10mm	3/8	40mm	set
T5530 1/2	30mm	10mm	1/2	40mm	set

Replacement parts

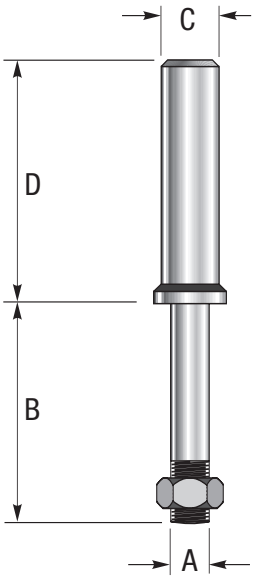
Part No.	Description
T5505	Pair of cutters
T3020 - 8	Arbor 8mm shank
T3020 3/8	Arbor 3/8"shank
T3020 1/2	Arbor 1/2"shank
T5440	Groover 4mm
T5460	Groover 6mm
TS900	Set of spacers



Telephone: 01663 766 714 Fax: 01663 766 721

ARBORS

A range of arbors to suit various 1/4" bore arbor mounting cutters including the groovers below. They are available in 1/4", 3/8", 1/2" and 8mm shank sizes. More than one cutter may be mounted on the arbor to produce the cutting width required. It is not advisable to use more than 2 cutters on the 1/4" shank versions. N.B. THE ARBOR IS SUPPLIED COMPLETE WITH A SET OF SPACERS.



Part No.	A	B	C	D
T3010	1/4	26mm	1/4	30mm
T3010 - 8	1/4	26mm	8mm	36mm
T3010 3/8	1/4	26mm	3/8	36mm
T3010 1/2	1/4	26mm	1/2	36mm
T3020	1/4	36mm	1/4	32mm
T3020 - 8	1/4	36mm	8mm	40mm
T3020 3/8	1/4	36mm	3/8	40mm
T3020 1/2	1/4	36mm	1/2	40mm
T3030 1/2	1/4	22mm	1/2	85mm

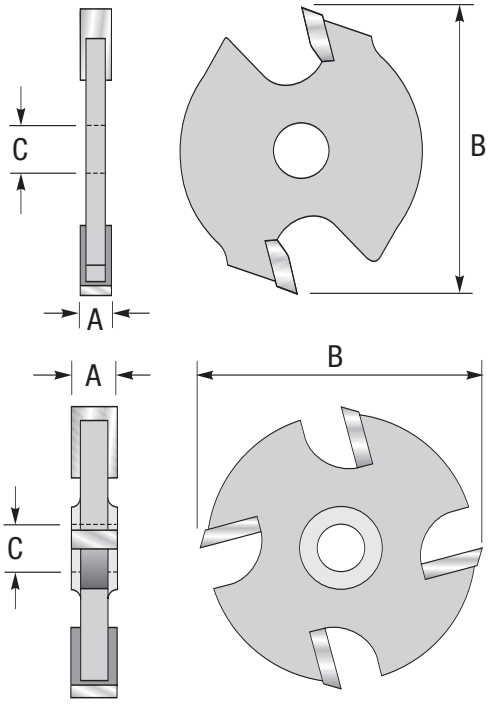
Replacement parts

Part No.	Description
TS900	set of spacers

GROOVERS

Grooving cutters for arbor mounting. All have 1/4"bore, and sizes up to 3.0mm have two wings, whilst above this size they are four wing. These cutters give a fast cutting rate and fine surface finish. They may be used with guide bearings, selected from the table below, to control the depth of cut. They may also be used without bearings in conjunction with a router fence. Uses include grooving, trimming, rabbeting etc. A groove in conjunction with a false tongue provides a rapid and strong method of joining boards etc.

The six wing groover (T5380) is particularly suitable for use in the production of decorative boxes, where this cutter in conjunction with the long arbor T3030 1/x may be used to separate the lid from the box with minimal figure loss.



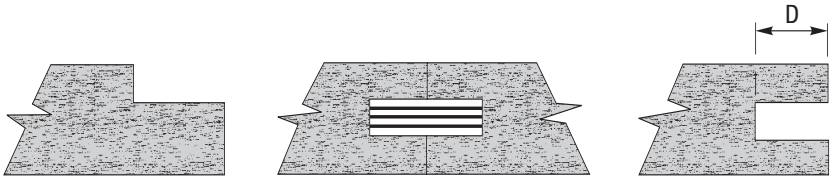
Part No.	A	B	C	Tips
T5415	1.5mm	40mm	1/4	2
T5420	2.0mm	40mm	1/4	2
T5425	2.5mm	40mm	1/4	2
T5430	3.0mm	40mm	1/4	2
T5432	3.2mm	40mm	1/4	4
T5440	4.0mm	40mm	1/4	4
T5450	5.0mm	40mm	1/4	4
T5460	6.0mm	40mm	1/4	4
T5464	6.4mm	40mm	1/4	4
T5480	8.0mm	40mm	1/4	4
T5495	9.5mm	40mm	1/4	4
T5410	10.0mm	40mm	1/4	4
T5380	1.5mm	60mm	1/4	6

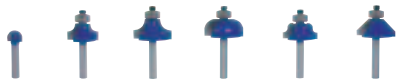
N.B.

These groovers will need an arbor to mount them on, as they are not supplied with an arbor. Any arbor which suits 1/4" bore cutters will be satisfactory.

OPTIONAL BEARINGS

Bearing	D (groove depth) 40mm cutters	60mm cutter
TB900	5.0mm	15.0mm
TB895	6.0mm	16.0mm
TB890	7.0mm	17.0mm
TB880	8.0mm	18.0mm
TB870	9.0mm	19.0mm
TB748	10.5mm	20.5mm
TB625	12.0mm	22.0mm
TB504	13.6mm	23.6mm





Using Router Cutters

SHANK SIZES

Due to the fact that there are far more 1/4" shank routers in existence than there are 1/2" the majority of the cutters in our catalogue are 1/4" shank. The exceptions are the heavy-duty cutters, which are normally on 1/2" shanks and require a 1/2" router to use them.

Although the majority of 1/4" router cutters may be used with a collet or reducing sleeve, a 1/2" shank cutter should be used wherever possible as it will be gripped more firmly, which will result in less whip and chatter, giving a better cut.

FITTING THE CUTTER

Cutters should be fitted into the router collet at least three quarters of the shank length. At the same time care should be taken to avoid grounding the end of the shank on the bottom of the motor spindle, because vibration will be transmitted to the cutter.

The collet nut should be tightened firmly but without any undue force. Over tightening can damage both the collet and the cutter shank.

REMOVING THE CUTTER

When using routers such as Atlas Copco, Bosch, Elu and DeWalt, it is worth remembering that when removing the cutter two 'bites' of the spanner are needed. The first 'bite' will free the collet nut, allowing it to be turned by hand for several revolutions, after which resistance will be encountered. A second 'bite' of the spanner is then needed to overcome this, after which the cutter can be removed.

ROUTER SPEEDS

Many routers have variable speed with 'soft start', which means there is often a noticeable pause before the motor reaches its operating speed. It is important that this speed has been reached before beginning to cut.

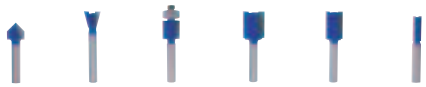
The router speed should be adjusted to take account of the size of the cutter and the material being used. Most cutter catalogues and router user manuals will provide guidance on speeds. Many heavy-duty cutters have a maximum speed for optimum cutting and safety, and it is worth mentioning that single speed models, even powerful ones, are unable to use such cutters efficiently.

ROUTER CUTTER AND COLLET CARE

Router cutters need to be kept clean and sharp as dirty cutters cause a build-up of heat on the cutting edges, which dulls them. There are two types of cleaner that can be used:

A solvent to remove resinous deposits.
One of the best is contact adhesive remover, although WD40 is good both as a solvent and a lubricant.

An abrasive household cleaner to remove heavier build-up.
One of the best abrasive cleaners is 'Astonish', obtainable from ironmongers.



CLEANING THE CUTTER

1. Remove any bearings.
2. Brush off loose dust with an old toothbrush or soft brass suede brush.
3. Remove gummy deposits with a rag moistened in solvent.
4. Remove any remaining deposits with the 'Astonish' using a damp rag.
5. Clean all parts of the cutter, taking care when cleaning the flutes.
6. Rub with the abrasive cleaner until the cutter is in its original pristine state.

After cleaning, the flat faces of the cutter flutes should be honed with a 'fine' grade diamond hone, which is usually coloured red. Make sure that the cutter flute is absolutely flat on the hone, then using a few drops of water on the surface of the hone rub it firmly backwards and forwards over the flat faces. It is important that each flute is given the same number of strokes. After honing, the cutter should be given a squirt of lubricant spray, and the surface of the hone should be dried and cleaned with a plastic eraser.

Most types of cutter can be honed but there are a few that cannot, these include:
spiral cutters, very narrow straight cutters, V-grooving, and pierce-and trim cutters. Bearing-guided cutters are not a problem once the bearing is removed.

CLEANING THE COLLET

The collet is a vital link between motor and cutter and as such should be kept in good condition. For the best results it should be cleaned using a rag dampened with solvent followed by a lubricant spray to prevent corrosion. For the inside of the collet a fine wire brush is recommended, suitable brushes, which look like miniature bottle brushes, are often available from dentists.

Collets are a consumable item as they are susceptible to metal fatigue even if kept scrupulously clean and should be replaced at regular intervals.

CUTTER DIRECTION

With most applications the router should be advanced in a direction opposite to that of the rotation of the cutter. The router cutter will rotate in a clockwise direction so the correct direction of cut is where the cutter, left to its own devices, wants to run back towards the operator.

FEED RATE

The material and type of cut will depend partly on the rate at which the router is fed into the workpiece. However the best guide is the type of waste being produced. Providing it consists of visible shavings and chippings, rather than dust or splinters, the feed rate is not far wrong. If the router is being fed too fast, or too deep, the sound of the motor labouring will act as a warning, conversely if it is being fed too slowly the workpiece is likely to burn.

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