

STARTING TO ROUT WITH A PLUNGE ROUTER

The router is undoubtedly the most versatile power tool you can have in your workshop. It will groove, cut, mould, and machine wood, MDF, and plastics. The beautiful finish it gives to the work is unsurpassable by any other machine or power tool.

With a small selection of basic bits and standard accessories, even the beginner can produce work with the speed and precision worthy of the most meticulous professional.

It is important to familiarise yourself with all the components accessories and functions of your router.

FITTING BITS

The collet is an essential part of the router. It ensures maximum grip on the bit shank at the high rotation speeds.

- Always choose the correct size collet to match the diameter of the bit shank.
- At least three quarters of the shank length should be held securely in the collet to reduce vibration and prevent damage to the shank.



- Never insert the shank completely otherwise the collet will tighten onto the flange of the shank and cause damage.
- Thread the nut by hand, tighten it using the correct size wrench to avoid cross-threading.
- Always tighten the collet nut securely, but do not over-tighten. Most routers are fitted with a spindle lock so only one wrench is needed.

SETTING THE DEPTH OF CUT

Always rout by taking a series of shallow passes to reach the full depth required.

- With the router switched off, plunge the router down gently until the bit just touches the workpiece.

- Release the depth stop until it rests on one of the staggered spindles of the rotary turret stop.
- Raise the depth stop to match the depth of cut you require.
- Alternatively, insert a piece of material the same thickness as the depth of cut required between the depth rod and the stop.



- When repetitive deep cutting is involved, the cutting depth can be staggered by rotating the turret stop on the router base (if fitted).
- To adjust the height of a stop, slacken off its locking nut and raise or lower the screw. Measure the height of each stop and re-tighten its locking nut.



- Always leave a minimal cut on the final pass to leave a precise smooth finish.

YOUR FIRST STEP

To familiarise yourself with applying the router, first make a simple groove with a straight bit.

- Ensure the router is disconnected from the power supply.
- After fitting the bit and setting the depth of cut, insert the side fence and adjust to suit the position of the groove required.
- Secure the workpiece and check there are no obstructions, and all knobs are secured.
- Make sure the router is NOT switched on and the bit is free to rotate.
- Connect router to the mains and rest router on the component with the side fence against the edge.
- Switch on and allow router to reach full running speed.
- Release locking handle (or knob) and plunge to first depth setting.
- Immediately guide router in direction shown. Keep a steady feed speed with gentle pressure in the direction as shown.
- When work is complete, release plunge control to allow bit to retract from workpiece. Switch off router and wait for it to stop revolving.
- Put router to one side and disconnect from mains.

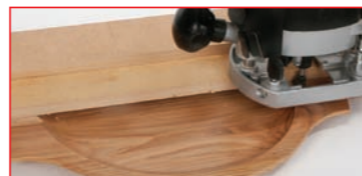
THE GUIDE BUSH

A template guide bush is used in conjunction with a template when the routing operation is repetitive or complex in shape. The template is cut from 1/4" MDF, plywood or plastic to the shape required. The template is then fixed to the top of the workpiece.

The guide bush is fitted into the base of the router. A bit is chosen with a diameter which will pass through the centre of the bush leaving enough clearance.



The router can then be guided around the template so that the shape of the template will be replicated.



It is important that the material used for the template is thicker than the projecting guide bush.



THE BEAM TRAMMEL

The beam trammel is used for routing curves or circles accurately. The trammel is fitted into the base of the router and adjusted to suit the radius of the curve required.

The router is fed in a counter-clockwise direction, with constant pressure placed on the pin to prevent it from moving.



BATTEN GUIDE

Guidance from a batten or clamp guide is similar to that obtained from a side fence. This method is appropriate if the edge of the workpiece is not straight or is not very smooth or simply the guide rods of the side fence are too short.

Standard technique is used, and side pressure used to ensure the router does not wander from the batten.



Full instructions are supplied with our products. Please ensure you read and fully understand the information before use. Instructions and Manuals can be downloaded from our website.

INFORMATION ON ROUTING AND OUR FULL RANGE OF ROUTER BITS

ROUTER BITS

THE PROFESSIONAL RANGE

TCT

TUNGSTEN CARBIDE TIPPED

ROUTER BIT WALL CHART INSIDE



THE BITS THE BRITS LIKE BEST
From the makers of the Trend Airshield

trend
routing technology

KNOW YOUR BIT

THE SHANK

Unlike drill bits, these are made to close tolerances to match the size of collet.

SHANK FLANGE

To give the bit strength. Always ensure bit does not grip at this point.

ROUND ANTI-KICKBACK DESIGN

Bits made to European Safety Standard EN847-1/2 which ensures quality materials are used and that tools are balanced and are round form to reduce user injury.

TUNGSTEN CARBIDE TIP

Tungsten carbide tips are brazed to the steel body and ground to specific angles to cut efficiently at high speeds.

BALL BEARING GUIDE

Bearings are mounted onto bits using a hex socket screw to secure them in place. Bearing guided bits self-guide themselves around templates or curved workpieces, thus simplifying edging work.

ROUTER BIT SET

30 PIECE SET 1/4" SHANK

Ideal for those getting started. This set contains a wide range of bits including bearing guided tools for decorative woodworking.

- Tungsten Carbide tipped Chrome Molybdenum steel.
- Suitable for grooving, profiling and moulding.
- Use on softwoods, hardwoods, MDF and plywood.
- Lid flips back for easy access to bits.



COMPLETE ROUTING

BY ALAN HOLTHAM

An essential read for the amateur or experienced router user. Packed full of solutions that will save you time and money.

- Full of easy to read routing techniques and step by step guides on how to use your router to its full potential.
- Hardback with 296 pages.
- With only a little experience you will soon be using the router to transform both the making and the detail of all your woodworking projects, but do be warned, it can become seriously addictive.



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COMMON BIT PROFILES

ROUNDING OVER & BEAD BITS

ROUNDING OVER BITS

The Bearing Guided Rounding Over bit is very popular and ideal for softening square edges.

BEAD BITS

Also a popular bit for moulding or decorating any edge, whether straight or curved. The ball bearing guide enables curved work to be machined freehand.



STRAIGHT BITS

Straights are the most popular type of bits and are generally used for grooving, profiling, slotting and recessing. You can also use them for trimming and template work in conjunction with a guide bush and template.

A whole range of edge to edge or jointing applications can be produced, often using standard accessories such as the side fence.

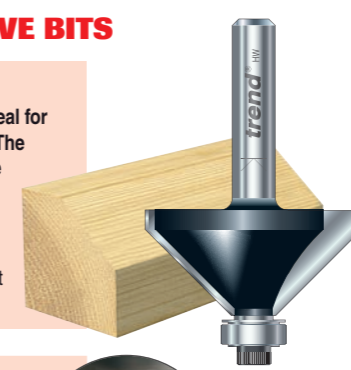


CHAMFER & 'V' GROOVE BITS

CHAMFER BITS

The ball bearing guide chamfer bit is ideal for edging straight or curved workpieces. The ball bearing will automatically guide the router around the workpiece.

When producing a decorative edge on the corner, a chamfer can be routed the full length of the workpiece or 'stopped' a short distance from both ends.



'V' GROOVE BITS

Will produce decorative grooves, flutes or edges. They are ideal for engraving work when used freehand.

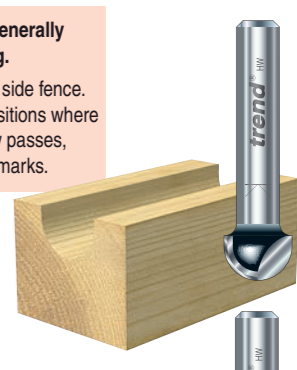
With practice, numbers or name plate designs can be routed freehand. One should first draw the design or motif on the workpiece and then rout the design, taking shallow passes.



RADIUS & COVE BITS

The core box, radius or cove bit is generally used for decorative edging or fluting.

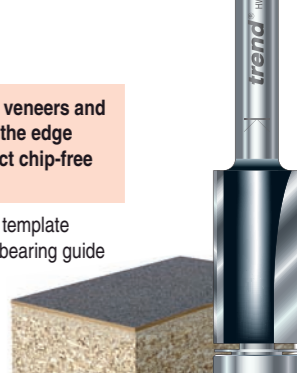
Fluting can be carried out by using the side fence. For stop flutes, simply mark out the positions where they are to start and end. Take shallow passes, stopping by eye at the pencil line stop marks.



TRIMMING BITS

Bearing guided trimming bits allow veneers and laminates to be trimmed flush with the edge of the base material leaving a perfect chip-free edge.

They can also trim the workpiece to a template made from any flat material. The ball bearing guide follows the template.

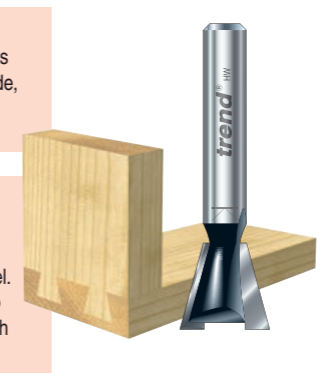


DOVETAIL BITS

The dovetail bit can be used to produce 'captive' sliding joints for shelving, but its most common use is to obtain high quality dovetailed joints.

DOVETAIL GROOVE

To cut the groove, a batten guide or side fence is used. A relief cut with a 3/16" straight bit is made, followed by a full depth pass with the dovetail bit.



DOVETAIL TONGUE

When cutting the dovetail tongue, clamp waste pieces to both sides of the material to give the router a parallel support base on which to travel. Carefully adjust the position of the side fence to produce a dovetail tongue that will exactly match the dovetail groove.

RABBETING BITS

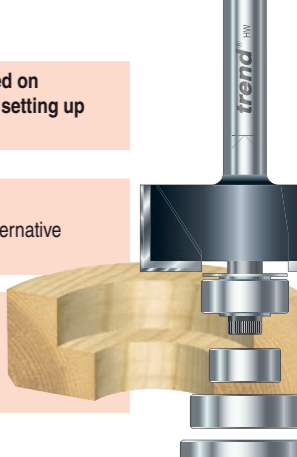
Self-guiding rabbet bits can be used on straight or curved edges with little setting up required.

RABBET WIDTH

The width of rabbet is set by using alternative sizes of ball bearing.

RABBET DEPTH

The depth of rabbet can be altered by raising or lowering the bit and by making several passes.



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STRAIGHT FLUTED

Straight Plunge Bits

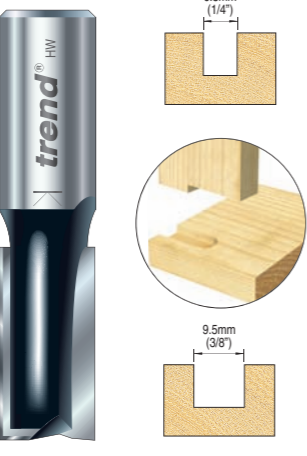
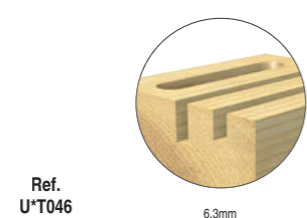
Gives a clean finish to abrasive materials such as chipboard, MDF, plywood and hardwoods. For housing, grooving and mortising.

Single Flute Straight

D	C	OL	Product	Shank Diameter
inch	inch	inch	Ref.	1/4" 1/2"
1/8	7/16	2	U'T002	✓
1/4	1	2-3/8	U'T004	✓

Two Flute Straight

D	C	OL	Product	Shank Diameter
inch	inch	inch	Ref.	1/4" 1/2"
1/16	3/16	1-3/4	U'T012	✓
3/32	1/4	1-13/16	U'T014	✓
1/8	7/16	2	U'T016	✓
5/32	7/16	2	U'T017	✓
3/16	7/16	2	U'T024	✓
7/32	3/4	2	U'T025	✓
1/4	3/4	2	U'T031	✓
1/4	1	2-1/4	U'T032	✓
9/32	1	2-1/4	U'T033	✓
5/16	1	2-1/4	U'T034	✓
3/8	3/4	2-1/2	U'T040	✓
3/8	1	2-1/4	U'T041	✓
7/16	1	2-1/4	U'T043	✓
1/2	1	2-1/4	U'T046	✓
1/2	1-1/4	2	U'T047	✓
1/2	1-1/2	3-1/8	U'T048	✓
1/2	2	4-1/4	U'T049	✓
5/8	3/4	1-15/16	U'T050	✓
5/8	1-1/4	2-7/8	U'T051	✓
3/4	3/4	2	U'T054	✓
3/4	1-1/4	2-7/8	U'T055	✓
1	3/4	2	U'T058	✓



'V' GROOVE & CHAMFER

'V' Groove

Ideal for fast chamfering to remove an edge on timber or to create a decorative edge.

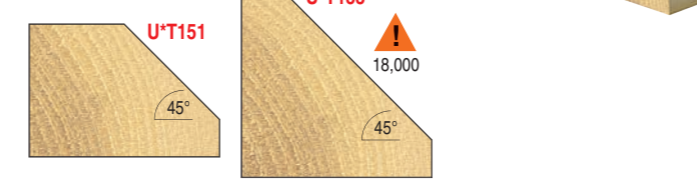
A	D	C	OL	Product	Shank Diameter
deg.	inch	inch	inch	Ref.	1/4"
45°	3/8	5/16	1-5/8	U'T140	✓
45°	1/2	1/2	1-3/4	U'T142	✓
60°	1/2	5/8	1-5/8	U'T144	✓



Guided Chamfer

Ideal for fast chamfering to remove edge on timber or create a decorative edge.

A	D	C	OL	Product	Shank Diameter
deg.	inch	inch	inch	Ref.	1/4" 1/2"
45°	1-1/4	5/8	2	U'T151	✓
45°	1-29/32	3/4	2-3/4	U'T153	✓



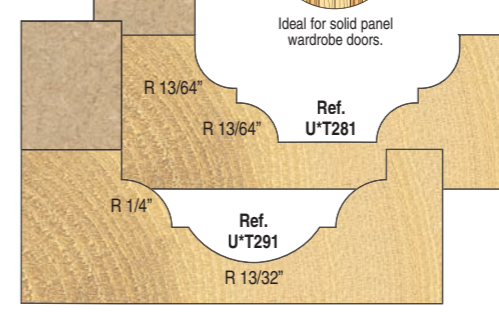
PANEL MOULD

Shank Mounted Guided Classic

Ideal for following template. It is advisable that the template is at least 3/4" thick.

R1	D	C	B	OL	Product	Shank Diameter
inch	inch	inch	inch	inch	Ref.	1/2"
13/64	1-3/8	9/16	1-3/8	2-5/8	U'T281	✓

R1	R2	D	C	B	OL	Product	Shank Diameter
inch	inch	inch	inch	inch	inch	Ref.	1/2"
1/4"	13/32"	1-3/8	9/16	1-3/8	2-5/8	U'T291	✓



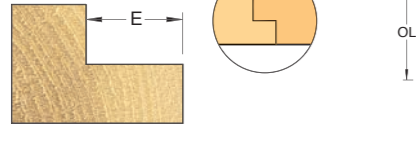
RABBETING

Guided Rabbeting

Easy to set-up. Bearing acts as guide for depth of cut. Three additional bearings included to give a choice of rabbets. Rabbet sizes 1/4", 5/16", 3/8" and 7/16".

D	C	OL	Product	Shank Diameter
inch	inch	inch	Ref.	1/4" 1/2"
1-1/4	1/2	2	U'T071	✓

Rabbet E	Bearing Dia.
inch	inch
7/16	3/8
3/8	1/2
5/16	5/8
1/4	3/4

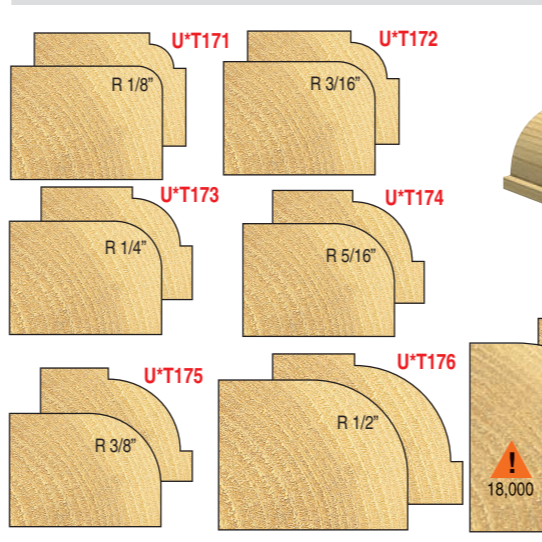


EDGE MOULDING

Guided Round Over Bead

Produces a smooth round over profile, or an ovolo beading mould with quirks. Includes extra 3/8" bearing for creating a quirk for a bead mould.

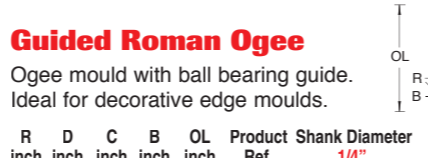
R	D	C	B1	B2	OL	Product	Shank Diameter
inch	inch	inch	inch	inch	inch	Ref.	1/4" 1/2"
1/8	3/4	3/8	1/2	3/8	1-15/16	U'T171	✓
3/16	7/8	1/2	1/2	3/8	2	U'T172	✓
1/4	1	1/2	1/2	3/8	2	U'T173	✓
5/16	1-1/8	1/2	1/2	3/8	2-1/16	U'T174	✓
3/8	1-1/4	5/8	1/2	3/8	2-3/16	U'T175	✓
1/2	1-1/2	3/4	1/2	3/8	2-1/4	U'T176	✓
3/4	2	1	1/2	3/8	2-7/8	U'T178	✓



Guided Corner Bead

Attractive edge moulds. A full corner bead can be produced by making a second pass at 90°.

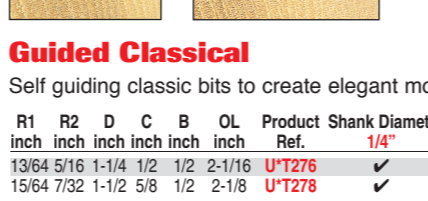
R	D	C	B	OL	Product	Shank Diameter
inch	inch	inch	inch	inch	Ref.	1/4"
1/8	7/8	1/2	1/2	2-1/8	U'T210	✓



Guided Roman Ogee

Ogee mould with ball bearing guide. Ideal for decorative edge moulds.

R	D	C	B	OL	Product	Shank Diameter
inch	inch	inch	inch	inch	Ref.	1/4"
5/32	1	15/32	3/8	2-1/8	U'T270	✓
1/4	1-3/8	3/4	3/8	2-1/4	U'T273	✓



Guided Classical

Self guiding classic bits to create elegant mouldings.

R1	R2	D	C	B	OL	Product	Shank Diameter
inch	inch	inch	inch	inch	inch	Ref.	1/4"
13/64	5/16	1-1/4	1/2	1/2	2-1/16	U'T276	✓
15/64	7/32	1-1/2	5/8	1/2	2-1/8	U'T278	✓



Guided Wavy Edge

An interesting and attractive mould with a unique wavy effect, using chords of the radius.

R	D	C	B	OL	Product	Shank Diameter
inch	inch	inch	inch	inch	Ref.	1/4"
5/32	1-1/4	5/8	1/2	2-1/4	U'T279	✓

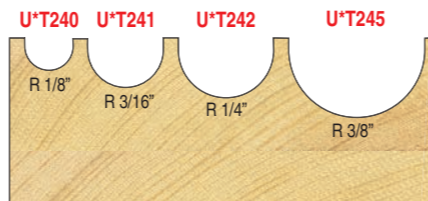


RADIUS & COVE

Core Box

For coves and part of a rule joint.

R	D	C	OL	Product	Shank Diameter
inch	inch	inch	inch	Ref.	1/4" 1/2"
1/8	1/4	1/4	1-7/8	U'T240	✓
3/16	3/8	1/4	1-1/2	U'T241	✓
1/4	1/2	3/8	1-1/2	U'T242	✓
3/8	3/4	7/16	1-1/2	U'T243	✓
1/2	1	5/8	1-7/8	U'T244	✓
1/2	1	3/4	2-3/16	U'T247	✓



Guided Cove

Ideally suited for cutting radiused edges at speed.

R	D	C	B	OL	Product	Shank Diameter
inch	inch	inch	inch	inch	Ref.	1/4"
1/4	7/8	1/2	3/8	2	U'T252	✓
3/8	1-1/8	1/2	3/8	2	U'T254	✓
1/2	1-3/8	5/8	3/8	2-1/8	U'T256	✓

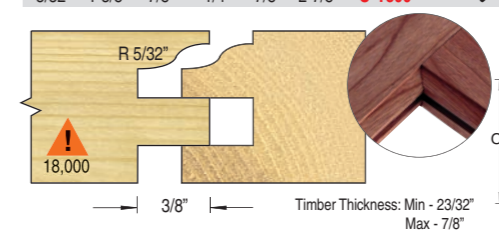


CABINET DOORS

Guided Reversible Ogee Stile & Coped Rail

Classic method of producing cabinet panelled door and drawer fronts. Two flute with ball bearing guide. The parts are re-arranged on the arbor to cut the profile on the stile or the cope on the rail. For use in a router table only.

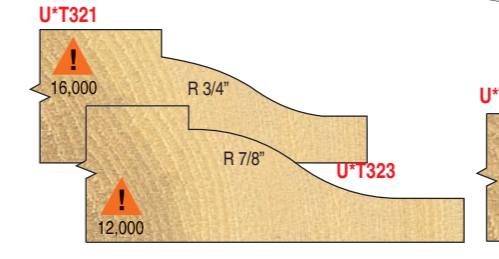
R	D	C1	C2	B	OL	Product	Shank Diameter
inch	inch	inch	inch	inch	inch	Ref.	1/2"
5/32	1-5/8	7/8	1/4	7/8	2-7/8	U'T300	✓



Guided Raised Panel

To create raised panels for cabinet panel doors. For use in a router table only. Take a minimum of 4 passes, increasing the depth with each pass.

R	D	C	B	OL	Product	Shank Diameter
inch	inch	inch	inch	inch	Ref.	1/2"
3/4	2-5/8	5/8	1/2	2-1/2	U'T321	✓
7/8	3-3/8	9/16	1/2	2-1/2	U'T323	✓

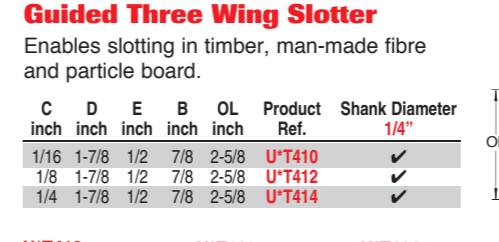


SLOTTING & GROOVING

Guided Tongue & Groover

A one piece set. Parts are inter-changed on the arbor to alter the set-up. For use in a router table only. The cutting edges should be staggered to each other.

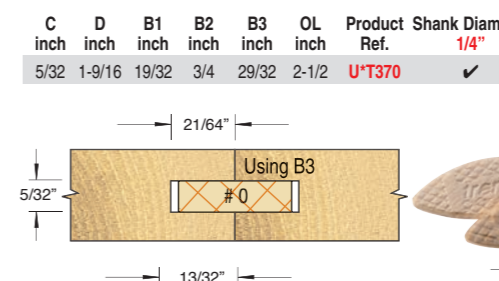
D	C1	C2	E	B	OL	Product	Shank Diameter
inch	inch	inch	inch	inch	inch	Ref.	1/2"
1-5/8	3/4	1/4	3/8	7/8	2-7/8	U'T380	✓



Guided Three Wing Slotter

Enables slotting in timber, man-made fibre and particle board.

C	D	E	B	OL	Product	Shank Diameter
inch	inch	inch	inch	inch	Ref.	1/4"
1/16	1-7/8	1/2	7/8	2-5/8	U'T410	✓
1/8	1-7/8	1/2	7/8	2-5/8	U'T412	✓
1/4	1-7/8	1/2	7/8	2-5/8	U'T414	✓



Guided Biscuit Joiner

For biscuit jointing of timber, man-made fibre and particle board with the router. The set includes a TCT slotter, an arbor and three sizes of bearing which set the correct depth of cut for the three sizes of biscuit available.

C	D	B1	B2	B3	OL	Product	Shank Diameter
inch	inch	inch	inch	inch	inch	Ref.	1/4"
5/32	1-9/16	19/32	3/4	29/32	2-1/2	U'T370	✓



TRIMMING

Guided Flush Trim Two Flute

For trimming and bevelling timber, lippings and plastic laminate edges.

D	C	B	OL	Product	Shank Diameter
inch	inch	inch	inch	Ref.	1/4" 1/2"
3/8	1/2	3/8	2-1/8	U'T091	✓
3/8	1	3/8	2-5/8	U'T092	✓
1/2	1/2	1/2	2-1/8	U'T093	✓
1/2	1	1/2	2-5/8	U'T094	✓
1/2	1-1/2	1/2	3-7/8	U'T096	✓
1/2	2	1/2	4-1/4	U'T097	✓

Guided Flush Trim Three Flute

For extra fine trimming and longer life.

D	C	B	OL	Product	Shank Diameter
inch	inch	inch	inch	Ref.	1/4" 1/2"
1/2	1/2	1/2	2-1/4	U'T098	✓
1/2	1	1/2	2-5/8	U'T099	✓

Shank Mounted Flush Trim Plunge

For trimming and bevelling timber, lippings and plastic laminate edges.

D	C	B	OL	Product	Shank Diameter
inch	inch	inch	inch	Ref.	1/4" 1/2"
1/2	1/4	1/2	1-3/4	U'T100	✓
1/2	1	1/2	2-1/2	U'T102	✓
1/2	1-1/4	1/2	2-3/4	U'T103	✓
5/8	1	5/8			