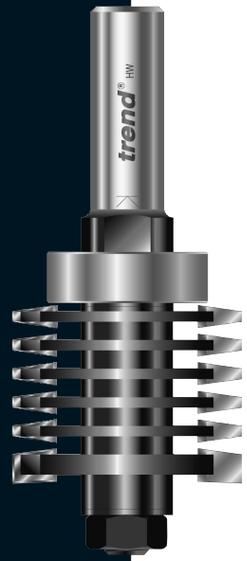
INST

Finger Jointer

866



trend®
routing technology

Please read carefully before use

FINGER JOINTER CUTTER SET REF. 866

Thank you for purchasing this Trend router cutter, which should give lasting performance if used in accordance with these instructions.

The finger jointer is an assembly of high quality carbide-tipped finger slotters which, together with the abutting edge cutter, creates a profile extending the glue line threefold, strengthening the joint significantly.

The set is suitable for all kinds of glued joints, which are applied mainly for furniture, board edging etc.

The following symbols are used throughout these instructions.

⚠ Denotes risk of personal injury, loss of life or damage to the tool in case of non-observance of the instructions.

Refer to the instruction manual of your power tool.

This cutter must not be put into service until it has been established that the power tool to be connected to this unit is in compliance with 98/37/EC (identified by the CE marking on the power tool).

INTENDED USE

This cutter is intended to be used in an inverted fixed head router with a suitable size collet, to create a finger joint in wood of thickness 11mm (7/16”) to 36mm (1 3/8”).

SAFETY

Please read and understand the safety points at the end of this instruction as well as the power tool instructions before use.

PLEASE KEEP THESE INSTRUCTIONS IN A SAFE PLACE.

The attention of UK users is drawn to The Provision and Use of Work Equipment Regulations 1998, and any subsequent amendments.

Users should also read the HSE/HSC Safe Use of Woodworking Machinery Approved Code of Practice and Guidance Document and any amendments.

Users must be competent in using woodworking equipment before using our products.

Attention should be made to the HSE’s Safe Use of Vertical Spindle Moulding machines Information Sheet No. 18 and any revisions.

⚠

Recommended speed 18,000RPM

ITEMS REQUIRED

- Router with suitable collet
- Router table
- 13mm A/F spanner
- Handtools

⚠

Before using cutter, please ensure it is correctly assembled and locking nut is fully tightened to correct torque setting

ITEMS ENCLOSED & DESCRIPTION OF PARTS

A. Arbor 13mm A/F **x1**

B. Bearing 28mm diameter, width 9mm **x1**

C. Finger-slot cutter 39.7mm diameter, kerf 1.8mm to 3.3mm **x5**

D. Abutting-edge cutter 39.3mm diameter, bore 8mm, kerf 5mm to 6.5mm **x1**

E. Spacer 3.6mm thick, 16mm diameter **x6**

F. Washer 1.0mm thick, 16mm diameter **x1**

G. Shim 0.5mm thick, 16mm diameter **x1**

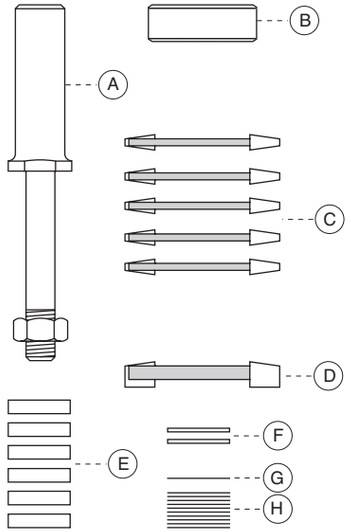
H. Shim 0.1mm thick, 16mm diameter **x10**

I. Instructions **x1**

⚠

All the above components are assembled on the arbor, except the 0.1mm shims (H), and one 3.6mm spacer (E), which are packed separately in the box.

Finger Jointer
as supplied



ENVIRONMENTAL PROTECTION

Recycle raw materials instead of disposing as waste.

Packaging should be sorted for environmental-friendly recycling.
The product and its accessories at the end of its life should be sorted for environmental-friendly recycling.

GUARANTEE

All Trend products are guaranteed against any defects in either workmanship or material, except products that have been damaged due to improper use or maintenance.

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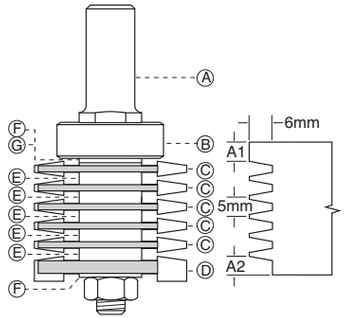
RECYCLABLE

ASSEMBLED JOINTER



As the diameter of cutter **C** is slightly larger than the diameter of the cutter **D**, a space of 0.2mm is created in the joint for surplus glue to escape.

OPERATION

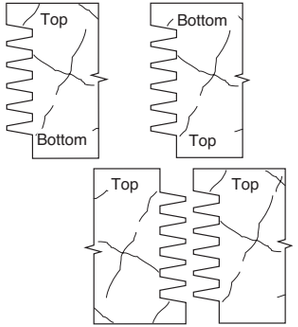
Carefully remove protective wax from cutter and dispose. Insert cutter into the router collet at least all the way to the marked line indicated on the shank. This ensures at least 3/4 of the shank is held in collet.

Choose the appropriate assembly according to the wood thickness, as shown. The cutters should be assembled to match the spindle rotation and should be square to one another to ease stress on the tool.

Make a trial cut on a piece of scrap material which has exactly the same thickness as the workpiece. Make sure that A1 is equal to A2 (see drawing). Cut the test piece into two sections and invert one piece against the other. Check their faces are perfectly aligned. If not, adjust the height of the tool by raising or lowering the router.

After having made the first cut, the counter cut is now carried out by inverting the wood. Check again on a piece of scrap material that the faces are aligned and correct the tool position if necessary. If especially tight joints are required, add the 0.1mm shims to the 3.6mm spacers.

After regrinding (resharpening) trial cuts for tightness will indicate whether further shims need to be fitted.



Assemblies

The appropriate assembly is chosen according to the wood's thickness as shown in the following diagrams.

If the thickness of the wood allows use of the two different assemblies, the assembly with more fingers should be chosen.

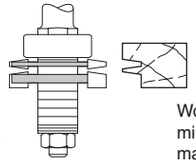
For example: wood thickness of 21mm allows use of two finger assembly (max) or three finger assembly (min). In this case choose the three finger assembly as the glue line is extended by the third finger slot-cutter.

Assembly Parts

- **B.** Ball bearing
- **C.** Finger slot-cutter
- **D.** Abutting edge-cutter
- **E.** Spacer 3.6mm
- **F.** Washer 1.0mm
- **G.** Shim 0.5mm
- **H.** Shim 0.1mm

One Finger Assembly Sequence

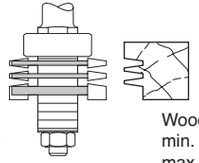
B.
F.
G.
C.
E.
D.
E. (x5)
F.



Wood Thickness:
min. 11mm (7/16")
max. 16mm (5/8")

Two Finger Assembly Sequence

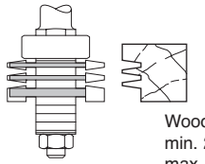
B.
F.
G.
C. (x2)
E. (x2)
D.
E. (x4)
F.



Wood Thickness:
min. 16mm (5/8")
max. 21mm (13/16")

Three Finger Assembly Sequence

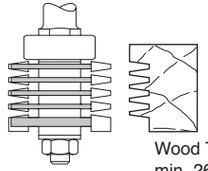
B.
F.
G.
C. (x3)
E. (x3)
D.
E. (x3)
F.



Wood Thickness:
min. 21mm (13/16")
max. 26mm (1")

Four Finger Assembly Sequence

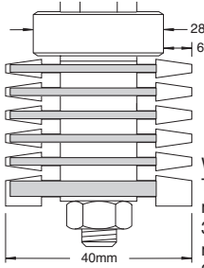
B.
F.
G.
C. (x4)
E. (x4)
D.
E.
F.



Wood Thickness:
min. 26mm (1")
max. 31mm (1 3/16")

Five Finger Assembly Sequence

B.
F.
G.
C. (x5)
E. (x5)
D.
F.



Wood Thickness:
min. 31mm (1 3/16")
max. 36mm (1 3/8")

- **Ensure timber is absolutely square.**
- **With soft wood, do not press the ball bearing too hard against the wood to avoid distortion.**
- **Do not use too much glue - only glue the tips of the fingers.**
- **Clamp up joint immediately after gluing to achieve a good joint.**

SPARE PARTS

Please use only Trend original spare parts

Item	Qty.	Desc.	Ref. (1 off)
A	1	Arbor with spacers	**SP-866A**
C	1	Tapered finger cutter	**SP-866B**
D	1	Tapered butting cutter	**SP-866C**
B	1	Ball bearing 28mm Ø	**BB28**
E	1	Spacer 3.4mm	**SPAC/8/34**
	1	Replacement arbor nut	**ANUT/33/30**
I	1	Instructions	**INST/866**

MAINTENANCE

Continual satisfactory operation depends upon proper tool care and regular cleaning.

Cleaning

- Ensure clamping surfaces are cleaned to remove dirt, grease, oil and water.
- Remove resin build-up regularly.
- Apply a rust protector to shanks. Do not use rust protector on ball bearing guides

Lubrication

- Use a PTFE dry lubricant spray on tool to increase cutting edge life.

Storage

- Return cutter to its packaging after use.

Safety Points

1. Disconnect power tool and attachment from power supply when not in use, before servicing, when making adjustments and when changing accessories such as cutters. Ensure switch is in "off" position. Always ensure cutter has stopped rotating.
2. Read and understand instructions supplied with power tool, attachment and cutter.
3. Current Personal Protective Equipment (PPE) for eye, ear and respiratory protection must be worn. Keep hands, hair and clothes clear of the cutter.
4. Before each use check cutter is sharp and free from damage. Do not use if cutter is dull, broken or cracked or if any damage is noticeable or suspected.
5. The maximum speed (nmax) marked on tool or in instructions or on packaging shall not be exceeded. Where stated, the speed range should be adhered to.
6. Insert the shank into the router collet at least all the way to the marked line indicated on the shank. This ensures at least 3/4 of shank length is held in collet. Ensure clamping surfaces are clean.
7. Check all fixing and fastening nuts, bolts and screws on power tool, attachment and cutting tools are correctly assembled, tight and to correct torque setting before use.
8. Ensure all visors, guards and dust extraction is fitted.
9. The direction of routing must always be opposite to the cutter's direction of rotation.
10. Do not switch power tool on with the cutter touching the workpiece.
11. Trial cuts should be made in waste material before starting any project.
12. Repair of tools is only allowed according to tool manufacturers instructions.

Please see **www.trend-uk.com/safety** for more safety advice.