

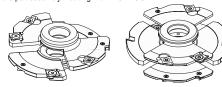


Industrial tooling

## **3 Part Disposable Insert Adjustable Grooving Cutters with Scorers 4-15.5mm** Ref. IT/7220301 - IT/7220307

INST/IT/ST v1.0

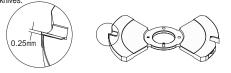
1. It is possible to assemble this cutter in two separate ways: a. 2 part assembly - cutting width 4 - 7.7mm. b. 3 part assembly - cutting width 7.8 - 15.5mm.



2. You can adjust the cutting width by adding or removing the supplied spacer rings. When using the three-part groover it is important that you spread the spacer rings equally above and below the middle cutter.

For example: To get a cutting width of 10mm with the three-part groover, you need to add spacer rings to a total width of 2.2mm (2 x 1mm and 2 x 0.1mm = 2.2 mm). Place 1 x 1mm + 1 x 0.1mm spacer on top of the middle cutter and 1 x 1mm + 1 x 0.1mm spacer below the middle cutter.

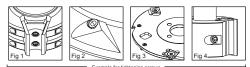
3. It is important that the knives in the middle cutter are kept with 0.25mm protruding above the top of the cutter body (see drawing below). To achieve this, use the supplied 0.25mm gauge, when replacing dull knives



## **General Instructions**

1. Thank you for purchasing this brand new cutter from Trend. This tool was designed and manufactured according to the European standard EN 847-1/2.

- 2. This cutter is only suitable for machining wood, wood derived materials, plastics and non-ferrous metals.
- **3.** Before first use, please check that the screws (see fig. 1 4) are tightened correctly and the cutting edges are not damaged. If any of the screws are missing, or the cutting edges are damaged, do not use the cutter and return it to the distributor from where it was purchased.
- 4. Before putting the cutter on the machine spindle, please ensure that the recommended RPM etched on the cutter matches the RPM of your machine and the cutter is rotating in the correct direction. An arrow is etched onto the body of the cutter showing the correct rotation direction.



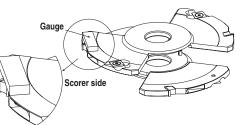
- 5. If the cutter is a set, please check every part of the Fig 5 set individually and only assemble according to the supplied instructions. Only assemble the parts in a way that is allowed by the positioning pins (see fig.
- 6. Don't remove, reassemble, or replace parts that will change the characteristics of the original cutter. Removing, reassembling or replacing parts of the cutter could invalidate the guarantee.

## **Disposable Insert Adjustable Grooving Cutter with Scorers 8.0-100mm** Ref. IT/7220021/031/041/051/071/ 271/281/291/321/331

- 1. It is possible to adjust these grooving and rebating cutters to different cutting widths.
- 2. The groove width is adjusted by adding or removing the supplied spacer rings
- 3. To get the required groove width, you must calculate the difference between the minimal width (without spacers) and the groove width you need to produce. The difference will be the width of spacers you need to add

For example: To produce a 13mm wide groove when the minimal width is 8mm, subtract the minimal width of the groover from the width of groove required. The width of the spacers you must use is 13 - 8 = 5mm.

- 4. It is important that the supplied gauge is used when replacing the straight cutting knives. (See picture).
- 5. When using the gauge, it must be placed on the scorer side of the tool. (See picture).



- 7. Handle the tool carefully. Cutting edges can be damaged if the tool is not handled properly
- 8. Try to avoid touching the cutting edges. The edges are sharp and may cause injury.

#### Installing the cutter on the machine

- 1. Make sure that the bore of the cutter matches the diameter of your machine spindle. Don't force the cutter onto the machine spindle and don't make any changes to the bore of the cutter.
- 2. Ensure that the rotation of the machine spindle corresponds to the rotation direction etched onto the cutter.
- 3. Tighten the spindle nut well before you start to work with the cutter.
- 4. Before starting the machine, make sure the cutter is able to rotate freely and does not come into contact with any part of the machine.

#### Working with the cutter

- 1. Please make sure you read and fully understand the machine instructions before working with this cutter.
- 2. Do not exceed the maximum RPM etched onto the cutter.
- 3. The wood can only be manually fed onto the cutter if the word "MAN" is etched onto the cutter.
- 4. We recommend that suitable eye, mouth and ear protection are worn whenever working with woodworking machinery.
- 5. Ensure machine is connected to suitable dust extraction equipment, as specified by the machine manufacturer. Failure to use adequate dust extraction equipment can result in harmful dust being released into the work place and poor cutter performance.
- 6. When using a new cutter, or after replacing the cutter knives, we recommend that the screws are checked and re-tightened if necessary, after a few minutes use.

## **Disposable Insert Adjustable Grooving Cutter with Scorers and Ring Nut 4-7.5mm** Ref. IT/7220161 and IT/7220171

1. It is possible to adjust these grooving cutters to different cutting widths.

- 2. The groove width is adjusted by rotating the ring nut on top of the cutter. To increase the cutting width, rotate the ring nut in an anticlockwise direction (open). To decrease the groove width, rotate the ring nut in a clockwise direction (close). Use the scale on top of the cutter for accurate adjustment.
- 3. The incremental scale is marked in steps of 0.1mm. One full rotation of the ring nut increases or decreases the groove width by 1.5mm.
- 4. To get the required groove width:
- a. Close the cutter completely by rotating the ring nut in a clockwise direction
- b. Calculate the difference between the minimal width and the groove width you need to produce.
- **c.** Open the cutter using the incremental scale, simply dialing the determined difference.

For example: To produce a 5mm wide groove, subtract the minimal width of the goover (4mm) from the width of groove required (5mm). The width you must dial is 5 - 4 = 1mm.

5. Fine adjustment can be made by slightly rotating the ring nut to increase or decrease the width of the cutter.

- 7. Check the knives regularly for sharpness. Dull knives can damage the tool, machine and work piece. Replace the knives before they get dull.
- 8. Try to keep the cutter as clean as possible. A clean cutter will improve chip flow and cut quality.
- 9. If the cutter comes into contact with a foreign object during use, immediately switch off the machine and check the cutter for damage. It is important to check the knife seating area (see fig. 6) for damage before replacing the new cutter knife. Damaged seating area will decrease the holding force on the knife and could cause the cutter to be dangerous.
- 10. Trial cuts should be made in waste material before starting any project.

#### Maintenance

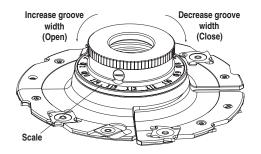
- 1. When replacing the knife, try to work in a clean environment. Remove any dust or chips with Trend Resin Cleaner.
- 2. Use only the original keys and gauges supplied with the cutter. The replacing of knives does not require any undue force. Exaggerated force will damage the screws and clamping parts.
- 3. After removing the dull knife, ensure that the knife seat is clean.
- 4. Make sure that the knife is positioned in the correct direction. When tightening the screws, push the knife against the seating area.

5. Use only original Trend spare parts.

6. The coating used on the cutters is sensitive to acid. Do not clean the tools with any products containing acid.

#### Storage

- 1. We recommend that the cutter is kept inside its box when not in use. This will protect it, keep it clean and oiled against corrosion.
- 2. Always return spare knives and blades to their protective storage packaging when not in use.

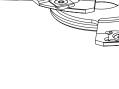


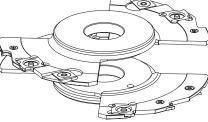


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# Disposable Insert Adjustable Grooving **Cutter with Scorers 4-7.5mm** Ref. IT/7220011 and IT/7220101

1. It is possible to adjust this grooving cutter to different cutting widths.

- 2. The groove width is adjusted by adding or removing the supplied

spacer rings. 3. To get the required groove width, you must calculate the difference

between the minimal width (without spacers) and the groove width

you need to produce. The difference will be the width of spacers you need to add.

For example: To produce a 5mm wide groove, subtract the minimal width of the goover (4mm) from the width of groove required (5mm). The width of the spacers you must use is 5 - 4 = 1mm.

> mailserver@trendm.co.uk 0044 (0) 1923 236879 Technical Support: 0044 (0) 1923 224681 £9£784 0080



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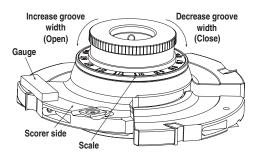
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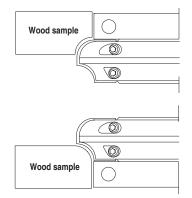
## **Disposable Insert Adjustable Grooving Cutter with Scorers and Ring Nut 8-24mm** Ref. IT/7220081 - IT/7220121

- 1. It is possible to adjust these grooving cutters to different cutting widths
- 2. The groove width is adjusted by rotating the ring nut on top of the cutter. To increase the cutting width, rotate the ring nut in an anticlockwise direction (open). To decrease the groove width, rotate the ring nut in a clockwise direction (close). Use the scale on top of the cutter for accurate adjustment.
- 3. The incremental scale is marked in steps of 0.1mm. One full rotation of the ring nut increases or decreases the groove width by 1.5mm.
- 4. To get the required groove width:
- a. Close the cutter by rotating the ring nut in a clockwise direction. b. Calculate the difference between the minimal width and the groove width you need to produce.
- **c.** Open the cutter using the incremental scale, simply dialing the determined difference.



## **Disposable Insert Corner Round/Cove** Cutter Blocks Ref. IT/7511031 - IT/7511301

1. It is possible to use this cutter with Gauge bearing guide ring (100mm) for perfect rounding over and cove joints. 2. Assemble the cutter, guide ring, bearing and safety disc exactly as it's shown in the pictures below and place them on the machine spindle. 3. Use a 1.0mm setting gauge when replacing the knives.



For example: To produce a 13mm wide groove with a cutter with a minimal width of 8mm, subtract the minimal width of the goover from the width of groove required. The width you must dial is 13 - 8 = 5mm.

- 5. Fine adjustment can be made by slightly rotating the ring nut to increase or decrease the width of the cutter.
- 6. It is important that the supplied gauge is used when replacing the straight cutting knives. (See picture).
- 7. When using the gauge, it must be placed on the scorer side of the tool. (See picture).
- 8. To change the straight cutting knives, use the supplied hex key. To change the scriber knives, use the supplied torx<sup>®</sup> key.

# **Disposable Insert Adjustable Chamfer Cutter** Blocks Ref. IT/7340301 - IT/7340351

- 1. This cutter can be adjusted from +90° to
- -90° in steps of 1°. 2. To adjust the cutter to the desired angle: a. Release the safety screws marked No. 1
- (see drawing). **b.** Use the supplied hex key in the screw marked No. 2 to adjust the cutter to the
- required angle.
- For example: To get a 22° angle put the longer zero line (etched onto the cutter body) between the 20° and 25° angle (see fig. 2G opposite), adjust the second notch on the lower scale to the second notch after the zero line on the top scale.

3. Re-tighten the safety screws marked No. 1 before using the cutter. IMPORTANT

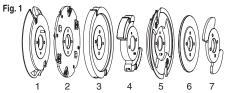
Do not try to rotate screw No. 2 before releasing screw No. 1.

# **Disposable Insert Profile – Counter Profile Cutter Block Set**

# Ref. IT/7420201 and IT/7420211

This cutter set that you have just purchased contains the following items:

The mini set includes the following parts: 1, 2, 3, 4, 2 x 6 and 7. The complete set includes the following parts: 1, 2, 3, 4, 5, 2 x 6, and 2 x 7. Under each tool shown below you will see an identification number (fig 1).



This number will be used in the following instructions With this set, it is possible to use four different profile shapes (fig. 2)



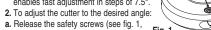
# **Getting started**

1. It is important that the dimensions shown below are maintained in order to get perfect results on the work piece (figs. 3 & 4). These dimensions are achieved by using the supplied gauges.



# **Disposable Insert Adjustable Chamfer Cutter** Blocks Ref. IT/7340141 - IT/7340147

1. This cutter can be adjusted to an accuracy of 1°. For convenience, you can also use the built in notched scale, which enables fast adjustment in steps of 7.5°.

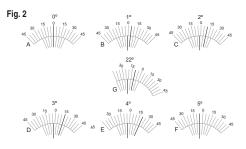


- item A), using the supplied hex key. **b.** Use the vernier scale, etched onto the cutter, to adjust to the
- required angle.

For example: To get a 22° angle put the longer zero line (etched onto the cutter body) between the 20° and 25° angle (see fig. 2G), adjust the second notch on the lower scale to the second notch after the zero line on the top scale.

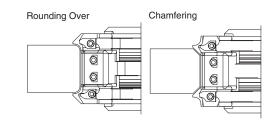
3. Re-tighten the safety screws before using the cutter.

### 4. To change the knives, use the supplied hex key.



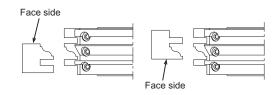
## **Disposable Insert Adjustable Rounding & Chamfering Cutter Block Sets** Ref. IT/7520021 - IT//7520051

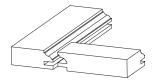
- 1. This cutter set enables you to round over and chamfer various thicknesses of timber.
- 2. The cutter height can be adjusted to suit the timber thickness by adding, or removing, the spacer rings which are supplied with the cutter
- 3. To change the cutter from rounding over to chamfering, you must swap the upper and lower cutters with each other as shown in the pictures below.

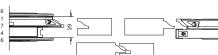


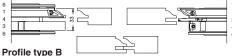
# Disposable Insert Profile – Counter Profile Cutter Blocks Ref. IT/7420311 - IT/7420341

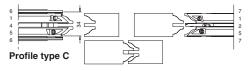
- 1. To use this cutter correctly you must adjust the table height of your machine to get the necessary rail or style profile.
- 2. See the pictures below showing the correct table height adjustment. 3. This cutter can also be used with the optional bearing and guide ring (98mm) to produce curved rail and style profiles.











2. Only assemble the cutters on the machine spindle as illustrated. 3. Make a complete wood sample before you start producing the final work

- pieces.
- 4. Adjust the height of the assembled cutters with the help of the wood sample (see fig. 5).



## Working procedure

Fig. 5

The following illustrations show 3 different types of wood assembly A, B and C. The mini set will produce assembly A and B. Please ensure that you assemble the parts as shown in the illustrations below.

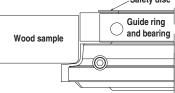


Profile type A



# **Disposable Insert Rounding Over Cutter** Blocks Ref. IT/7524231 - IT/7524501

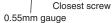
- **1.** It is possible to use this cutter with bearing guide ring (100mm) for perfect rounding over joints.
- 2. Assemble the cutter, guide ring, bearing and safety disc exactly as it's shown in the picture below and place them on the machine spindle. Safety disc



# **Disposable Insert Shear Rebating Cutter** Blocks Ref. IT/7330011 - IT/7330061

- 1. This rebate cutter requires special attention when replacing the main cutting knife.
- 2. Use the supplied 0.55mm gauge to accurately set the knife.
- 3. It is important that the gauge is placed on the side of the cutter, which is closest to one of the two clamping screws.
- 4. Make sure that the clamping screws are securely tightened before using the cutter.





# **Disposable Insert Panel Raising Cutterhead** Ref. IT/7510011 - IT/7510101

- 1. When using this raised panel cutter, 'witness' marks may appear during use or after replacing dull knives with new ones.
- 2. If 'witness' marks appear, use the adjustable setting screw to prevent the marks showing.



- 3. The setting screw allows the up and down adjustment of the small profile knife, whilst the long profile knife remains in a fixed position, achieving a better join between the two knives (fig 1).
- 4. To adjust the screw (fig 2), first remove the small knife, open the inner locking screw (1) with the supplied hex key, adjust the setting screw (2) with a small flat screwdriver to the necessary height and tighten the inner locking screw (1). Re-assemble the small knife on the cutter. A complete turn of the setting screw (2) equals 1mm.

