



## PCD Gemstone Worktop Cutter PCD/GEM01



INST/PCD/GEM v1.0

Please  
read carefully  
before use

### PCD GEMSTONE WORKTOP CUTTER REF. PCD/GEM01X1/2

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

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 2006/42/EC (identified by the CE marking on the machine).

#### INTENDED USE

This cutter is intended to be used with a 1/2" capacity plunge router with guide bush fitted and a suitable worktop jig to allow the cutting of mitre joints in Gemstone brand worktops.

#### 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 HSE's Safe Use of Vertical Spindle Moulding Machines information sheet No.18 and any revisions.

Please keep children and visitors away from tools and work area. All tools have a residual risk, so must therefore be handled with caution.

Only use tooling that meets EN847-1/2 safety standard and any amendments.

#### ITEMS REQUIRED

- Router with suitable collet fitted.
- Worktop jig.
- Dust extractor.



**Appropriate personal protective equipment (PPE) must be worn.**

**Always wear eye protection, an adequate dust mask and suitable hearing protection.**

**Users should wear non-skid shoes and gloves.**

**Always disconnect the router from the power supply before making adjustments or changing cutters.**

**Please handle tool with care.**



#### OPERATION

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

PCD tooling offers state of the art cutting performance and tool life. To obtain the best possible performance from this tool, please follow the instructions below:

1. PCD is a delicate crystalline material that when knocked with a foreign object, e.g. a spanner or vernier, will be prone to fracture. Great care must be taken at all times when handling your PCD tool.
2. Trend PCD tooling is supplied in a protective box. This box should be used to protect the tool at all times when not in use.
3. When fitting the tool or removing from the routing machine, it is advisable to protect the tool in some way. For example a wooden block could be used. The block is bored out to slip over the tool head leaving only the shank of the tool exposed. This block is then removed only when the tool is ready for use.
4. Ensure the correct spindle speed (RPM) and feed rate of the machine is set for the particular size and design of tool being used. This will extend tool life and give a better quality of cut on the material.

**trend**<sup>®</sup>  
routing technology

## 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

- Do not over-tighten the collet nut as this will score the shank and create a weakness.
- Check the routing machine collet and collet nut regularly for signs of wear and replace if necessary. A distorted collet should be discarded as it can damage the shank of the tool.
- The tool will periodically need cleaning to remove build up of resin etc. PCD tooling should only be cleaned with a cellulose thinner or other solvent cleaners e.g. Resin Cleaner. Wire brushes and scrapers must not be used. The use of dry lubricant will prevent resin build up. We recommend Trendicote PTFE spray for this purpose.
- The Gemstone material has flecks of glass and other solid particulates which may result in voids appearing on the finished cut. This is the nature of the material and not a fault with the tool.
- The extremely abrasive nature of the Gemstone material will cause the router cutting edge to heat up and cause blueing of the tool. We advise the tool is re-sharpened professionally.
- Do not use undue pressure on the router as this will result in damage to the cutter blades.
- Always make a series of small cuts and ensure the router is set to the correct speed.

- It is recommended to perform trial cuts on waste material for familiarity and understand the cutting characteristics before any production run is attempted.
- The material being cut, along with the template/jig will need to be supported and clamped securely.
- Ensure that the router base will not foul the clamps.
- Dust extraction is required when cutting Gemstone worktops.
- The dust from Gemstone is very abrasive and will scratch the worktop jig and the base plate of the router.

If you have any further questions about this product, our Technical Support Department will be pleased to help you.



**Recommended speed is 18,000 rpm.**

## MAINTENANCE

Please use only Trend original spare parts and accessories. Continual satisfactory operation depends upon proper tool care and regular cleaning.

### Cleaning

- Keep the cutter clean and sharp.

### Lubrication

- Your accessory requires no additional lubrication.

### Storage

- Always return cutter to its packaging after use.

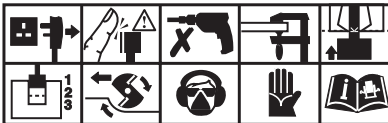
### Resharpener

- The tool can be resharpened. Please contact Trend Technical Support.

## Safety Points

- 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 and cutter has stopped rotating.
- Read and understand instructions supplied with power tool, attachment and cutter.
- Current Personal Protective Equipment (PPE) for eye, ear and respiratory protection must be worn. Keep hands, hair and clothes clear of the cutter.
- 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.
- The maximum speed (n<sub>max</sub>) marked on tool or in instructions or on packaging shall not be exceeded. Where stated, the speed range should be adhered to.
- 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.
- 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.
- Ensure all visors, guards and dust extraction is fitted.
- The direction of routing must always be opposite to the cutter's direction of rotation.
- Do not switch power tool on with the cutter touching the workpiece.
- Trial cuts should be made in waste material before starting any project.
- Repair of tools is only allowed according to tool manufacturers instructions.
- Do not take deep cuts in one pass, take shallow passes to reduce the side load applied to the cutter.

Please see [www.trend-uk.com/safety](http://www.trend-uk.com/safety) for more safety advice.



Our policy of continuous improvements mean that specifications may change without notice. Trend Machinery & Cutting Tools Ltd. cannot be held liable for any material rendered unusable, or for any form of consequential loss.