

# Pro'sKit®

## PT-5202

### Mini Grinder Set



**User's Manual**  
**1<sup>st</sup> Edition,**

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Test Equipment Depot - 800.517.8431  
99 Washington Street - Melrose, MA 02176  
[TestEquipmentDepot.com](http://TestEquipmentDepot.com)

## THANK YOU

Thank you for investing in a Pro'sKit product. The PT-5202 mini grinder set has been engineered and made to demanding high quality standards; ease of operation and proper care of your product will give you years of trouble-free use.

Normal wear and tear, including accessory wear, is not covered under guarantee.

**Warning** : User must read and understand the user manual before using the product to reduce the risk of injury. Failure to follow all instructions may result in electric shock, fire and/or serious personal injury. The product must be used only for its prescribed purpose. Any use other than those mentioned in this manual will be considered a case of misuse. The manufacturer shall NOT be liable for any damage or injury resulting from such cases of misuse, use of force, partially or completely dismantled appliances.



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This manual, the tool and accessories may show these warning symbols :



General Hazard



Read Instructions



Keep Dry



Protect Eyes, Ears, Lungs



Keep Bystanders Away



Flying Debris



Sharp Blades

## Important Safety Notes

**WARNING !** When using power tools, the following safety precautions should always be followed to reduce the risk of electric shock, personal injury and fire. Read all these instructions carefully before using the tool, and save for future reference or new users.



**Protect Eyes, Ears, Lungs**

**Important! Always wear eye protection when using this tool.**

**Important! Some materials can cause harm from inhalation of dust and fibers, take adequate precautions.**

### **Workplace Safety**

All onlookers and children should be kept well away from the work area and extension cables. This tool must only be operated by competent adults. When not in use, keep the tool in a secure place and out of reach unauthorized personnel, children, etc.

### **Avoid electric shock**

Keep the cable clear of the tool while working. Do not work on or near equipment that is connected to an electrical supply. Prevent body contact with grounded surfaces e.g. pipes, radiators. Always use a trip circuit to disconnect the power supply in case of short.

### **Work Environment**

Do not use the tool in damp or wet areas, or near inflammable liquids or gases. Always work in a well lit area. Keep the work area tidy to help avoid injuries. Sparks from within the tool and created by the materials worked on can ignite certain substances,

ALWAYS ensure there is no risk of this before activating the tool or commencing work.

### **Personal safety**

For your protection always wear safety goggles and breathing mask, keep fingers, hair and clothing clear of moving parts. Do not overreach particularly on ladders and maintain secure footing and balance. Always be aware of the required safety precautions.

### **Clothing**

Avoid wearing loose clothing or jewelry as they may be caught in moving parts. Wear a protective hair covering to contain long hair.

### **Protect the cable**

Do not carry the tool by the cable or pull the cable to remove the AC/DC adaptor from the socket. Protect the cable from heat, oil, solvents, sharp objects, or anything that could damage the insulation. Never use a power tool that has a damaged cable or exposed wires.

### **Disconnect tools**

Always ensure the power supply is disconnected when not in use.

### **Inspect the tool before use.**

Inspect the tool for any damage, cracks or missing parts, if in any doubt do not use and consult a qualified electrician. Keep the handle dry and free from oil and grease.

### **Avoid Unintentional starting**

Ensure the on/off switch is OFF before plugging into the power source. Do not use if distracted or tired.

### **The Tool stops**

If the tool stops unexpectedly or appears to break down in use, disconnect from the power supply before handling moving parts.

### **Use Outdoor extension leads**

When the tool is used outdoors, only connect to extension leads intended and approved for use outdoors. Never charge a battery outside or on an extension lead. Never use the tool in a wet environment or allow leads and cables to become wet or damp.

### **IMPORTANT ADDITIONAL SAFETY NOTES**

1. Do not use damaged/worn or unshaped tools.
2. Do not use tools with bent shafts.
3. The tool is designed for light and intricate work. Do not use for heavy work as you may damage the tool.
4. Check the collet nut frequently for tightness.
5. Use only the accessories supplied or recommended by your dealer, other accessories may cause injury.
6. Always wear eye protection with this tool.
7. Ensure work piece is secured to prevent it from being flung or moved by the rotation of the tool.

### **KEEP THESE INSTRUCTIONS AND MAKE THEM AVAILABLE TO OTHER USERS AND OWNERS OF THIS TOOL !**

At the end of this tool's life please dispose of in a manner which is considerate to the environment. Ask your local council if unsure.

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## Features :

- Precise in various tasks.
- Compact and powerful.
- Comfort rubber grip.
- LED light.
- Keyless chuck lock button.
- Ergonomic design.
- Lightweight.
- Switch adapter included.
- 21 accessories included.
- Durable plastic case.
- Ideal for drilling, milling, grinding, polishing, engraving, cutting, and removing.

## Specifications :

- No-load speed : 15,000 rpm
- Collet size : Ø 3.2mm maximum
- Acoustic pressure : < 70dB
- Working voltage : 18V DC
- Overall length : Ø43x127 mm
- Weight : 123 g
- Switch adapter input voltage : 100~240VAC 50/60Hz 0.5A Max.
- Switch adapter output voltage : 18V DC 400mA
- Boxed dimensions : 142x137x57mm (5.6"x5.4"x2.3")

## Unpacking and Description of Parts



Read and understand all instructions before use.



Your adapter will be supplied with a switch adapter suitable to your region. Insert into a suitable power socket before fitting to your-PT-5202 mini grinder. Always ensure the PT-5202 mini grinder is switched off before fitting the power lead.



## Fitting Tools and Operation

Observe safety notes.

Ensure tool is switched off and disconnected from the power supply.

### Fit a tool

1. Hold the tool firmly, press the spindle lock, loosen the locking collar.
2. Remove previous accessory and store safely.
3. Select the appropriate accessory for the job.
4. Seat the accessory fully into the collet and tighten the locking collar firmly.

The supplied collet can hold a tool spindle up to 3.2mm. To change the collet, completely remove the locking collar, the collet can then be freely replaced and then secured with the same locking collar.

### Operation

After fitting the tool, ensure the switch is in the off position and connect the PT-5202 mini grinder to the supplied power adaptor.

### Starting work

1. Mark the work to be done, the supplied stencils can assist with this (they are not designed to be used with the tools directly).
2. Use a mask or guide to prevent damage to surrounding areas.
3. Hold the grinder firmly and switch on, test the tool against the surface to check action before beginning work.
4. Complete the work in stages, do not apply excess pressure or cause the tool to slow down.



**WARNING,**  
Regularly stop  
the tool and  
check that the  
locking collar is  
tight.

Accessory

Locking  
Collar

Collet

**Do not press  
the spindle lock  
while the tool is  
running.**

Spindle  
Lock

**Always turn off  
the tool before  
removing  
power supply  
or changing  
tool.**

On/Off  
Switch

Power  
Supply



## Accessories

### HSS cutter



For detail engraving, carving and routing in wood, fiberglass, plastic and soft metals.

### Diamond grinding point

For fine detail work, cutting, engraving, carving, touch-up and finish, use on

wood, jade, ceramic, glass, hardened steel, semi-precious stones and other hard materials.



### Grinding point

Use on metals, welded joints, rivets and rust. Ideal for sharpening,

de-burring, rust removal and general purpose on most materials.



### Sanding sleeve



For rough shaping and smoothing wood and fiberglass; removing rust from metal surfaces;

shaping rubber surfaces. Sanding bands are easily replaceable on drums by loosening the compression screw.

## Grinding discs

For removing burrs, narrow cuts and shaping of plastics, wood, fiberglass and soft metals. Fit the disc between the 2 rubber washers and tighten with the locking screw.



## Engraving

Hold the-PT-5202 mini grinder so that it is close to vertical and move at an even pace with a steady pressure. Pauses and alterations in pressure will be noticeable. Use a straight edge where possible. Try printing a sticky label with your lettering on it. Stick onto the item to be engraved and trace the outline.

## Grinding

The PT-5202 mini grinder is perfect for modeling and detailing. Clamp the work piece securely, hold the grinder firmly, supporting your wrist and gradually work the area. Don't attempt to do the job in one pass. When you need to remove more material begin with the cutting tools and finish with the grinding tools. For large jobs use a larger tool.

## **FAQ**

### **When I switch the grinder on the motor doesn't run, why ?**

Check switch adapter the power is on and the plug is correctly fitted.

### **Why does my grinder stop sometimes ?**

Don't apply too much pressure the rpm shouldn't drop significantly on contact.

### **I keep slipping and have trouble controlling the grinder, what can I do ?**

Make sure you use the correct tool for the application. Hold the grinder like a pen and make minimal contact with the work piece to prevent kickback. Use a mask to prevent contact outside of the area to be engraved and make sure to use sharp new tools. Only grind small amounts off with each pass, gradually working toward the required finish.

### **Where should I store my mini grinder ?**

In a dry place at a stable temperature between 10°C and 24°C (50°F and 75°F).

### **What should I do if my mini grinder**

### **gets wet ?**

Dry fully for several days in a warm but not hot place before trying to charge or use.

### **How can I get my mini grinder repaired if it is damaged ?**

Contact your retailer.

### **Where do I find my model number ?**

On the base at the rear.

### **Where can I get replacement parts, advice or help ?**

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