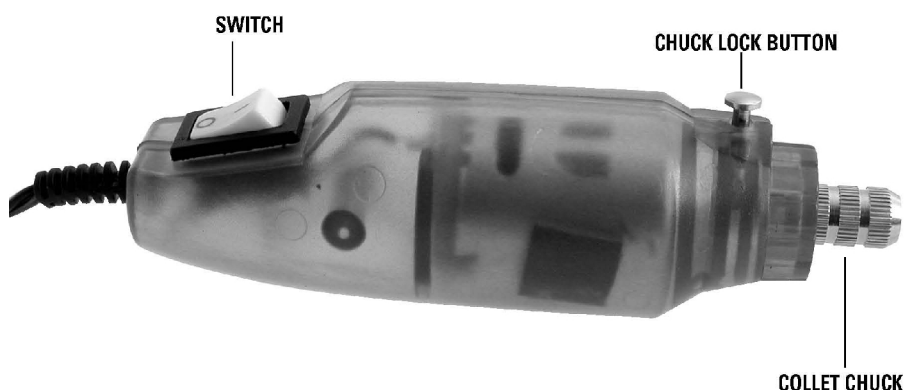


# DURATECH MINI ENGRAVER

TD2451

## Operating Instructions



This Mini Engraver is suitable for a wide variety of tasks, including engraving and shaping.

**Important! Please read these instructions carefully.**  
**Keep these instructions in a safe place for future reference**

### **WARNING**

Switch the power OFF at the power point BEFORE fitting tools into, or removing tools from the collet chuck

## SAFETY INSTRUCTIONS

**Warning!** When using power tools, the following safety instructions must be observed to reduce the risk of personal injury and property damage. Please read and observe the following instructions before use.

- 1. Keep work area clean**  
An untidy and cluttered work area increases the risk of accidents.
- 2. Use eye protection**  
Safety glasses or goggles are essential. A facemask should also be worn when dust is generated.
- 3. Wear suitable work clothes**  
Don't wear loose fitting clothes or jewellery. They can be caught in moving parts and may cause injury. For outdoor work rubber gloves and non-slip footwear are advised. Wear a protective hair net to contain long hair.
- 4. Guard against electric shock**  
Avoid any body contact with grounded surfaces eg. pipes, radiators, stoves and refrigerator enclosures.
- 5. Observe work area environment**  
Do not expose power tools to rain or damp and wet conditions. Do not use power tools in close proximity to flammable liquids or gases. The work area should be well lit and ventilated.
- 6. Keep children away**  
Children should be kept away from the work area. Do not permit them to handle compressor or the air tools.
- 7. Secure the work pieces**  
Use clamps or a vice to hold work. This will free up both hands to operate the tool, which is safer.
- 8. Don't overreach when working**  
Keep a balanced footing at all times. Avoid abnormal stances and awkward body positioning.
- 9. Do not overload or force tools**  
Tools operate better in the specified performance ranges. Forcing the tool may damage them.
- 10. Check for damage**  
Before further use always check the protection guards carefully to ensure proper operation and performance. Check for alignment of moving parts, binding of moving parts, breakage of parts, mountings and any other condition that may effect the tools operation. If the tool suffers severe impact, a crack or damage may occur - do not use a tool if a crack develops or air is escaping.
- 11. Repairs**  
This power tool is built in accordance with the relevant safety standards. An electrical specialist must carry out repairs, otherwise accidents may result.
- 12. Pull out power plug**  
When changing accessories or when the tool is not in use.
- 13. Use the right tool**  
Do not force a small tool or accessory to do the job of a heavy-duty tool. Only use the tool for its intended purpose.
- 14. Maintain tools with care**  
For efficient and safe operation tools should be kept clean and the accessories ie. drill bit, should be sharp during use. Check the plug and cable regularly, if damaged they should be repaired by an authorised electrical specialist.
- 15. Avoid unintentional starting**  
Do not carry tools by the switch. Always check that the switch is in the off position before connecting to power source.
- 16. Don't abuse power cable**  
Never carry the tool by the power cable. Do not use the power cable to pull the plug out of the power plug out of the power point. The cable should also be protected from heat, oil and sharp objects.
- 17. Storage**  
When not in use your power tools should be stored in a dry area, which is not accessible to children.
- 18. Stay alert**  
Do not use the tool when you are tired. Use common sense and watch what you are doing.
- 19. Remove keys and spanners**  
Do not forget to remove any adjustment keys, spanners and wrenches before switching on the tool.
- 20. Voltage warning**  
Before connecting the tool to the power source ensure the voltage specified on the nameplate is the same as the voltage supply. A power source with voltage greater than specified on the tool can cause serious injury and damage to the tool. Using a power source with voltage less than the tool rating can cause damage to the motor. Do not plug in tool if you are in doubt.
- 21. Recommended use**  
Please note the use of tools other than those described in instruction manuals or in the product catalogues can result in a risk of personal injury.

**THE COLLET CHUCK**

- A) Press the chuck lock button and turn the chuck until the lock engages with one of the holes in the motor spindle.
- B) Turn the chuck anticlockwise to loosen it.
- C) Insert the tool into the jaws of the collet, then tighten the chuck firmly with finger pressure.

**NOTE:** Do not press the chuck lock button while the motor is operating.

**THE POWER ADAPTOR**

Push the connector on the lead wires of the tool and power adaptor together.  
Use only the power adaptor supplied.  
Plug adaptor into 240 volt mains outlet.

**WORKING WITH THE MINI ENGRAVER**

Always wear safety goggles. Do not use any broken bits or bent shafts. Note that high performance is not achieved by high pressure but by even speed.

**SPECIFICATIONS**

|                       |                                                        |
|-----------------------|--------------------------------------------------------|
| Operating Voltage     | 12V DC                                                 |
| Current               | 400 mA                                                 |
| Spindle Speed No Load | 12,000 RPM                                             |
| Chuck Type            | Collet                                                 |
| Power Supply          | 230-240 volt, 50Hz<br>AC/12 volt DC<br>Plug in Adaptor |



For milling or engraving hold the unit like a pen (Fig.A).



For rough work hold the unit like a hammer (Fig.B).