

POWERmini grinder

Mini grinder User Manual

MG2

Innovation from
CEL
C Enterprise Ltd

THANK YOU

Thank you for investing in a CEL product. The POWERmini grinder has been engineered and made to demanding high quality standards; ease of operation and safety have taken a major role in development. 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. The product is guaranteed for **domestic use** against manufacturing faults for a period of 12 months (for additional guarantee period (if any) please refer to the store or agent from which you purchased the product or contact the nearest authorized dealer). This product is not guaranteed for HIRE purposes.

If you have any questions, please contact us at:

sales@cel-global.com

It is possible to download updated user manuals, view demonstration videos and find information about new products at: www.cel-global.com

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.



Transformer

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USE

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CARE

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

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.

Important. Always wear eye protection when using this tool.



Protect
Eyes,
Ears,
Lungs

Important. Some materials can cause harm from inhalation of dust and fibres, 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 of 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 over-reach particularly on ladders and maintain secure footing and balance. Always be aware of the required safety precautions.

Clothing

Avoid wearing loose clothing or jewellery 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 mains. 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.

Batteries

When using this product with batteries take care to read all related instructions and material. Never use a damaged or leaking battery and ensure batteries are kept at a safe working temperature.

IMPORTANT ADDITIONAL SAFETY NOTES

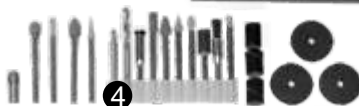
1. Do not use damaged/worn or unshaped tools.
2. Do not use tools with bent shafts.
3. The tool is designed for light and intricate work. Do not use for heavy work as you may damage the tool.
4. Check the collet nut frequently for tightness.
5. Use only the accessories supplied or recommended by your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

Your POWERmini grinder box contains:

- ① Case
- ② POWERmini grinder
- ③ Stencils
- ④ 21 Tools and sanding accessories
- ⑤ MG2-DC only 18v POWERhandle adaptor
- ⑥ MG2-AC only 18v AC/DC Transformer



Read and understand all instructions before use



MG2-DC only

The POWERhandle is sold separately and is common to all POWER8 products.

The adaptor slides onto the POWERhandle as show by the arrow. Release by pressing the release catch on the grip and sliding the adaptor off.



MG2-AC only

Your MG2-AC will be supplied with a transformer suitable to your region. Insert into a suitable power socket before fitting to your MG2.

Always ensure the MG2 is switched off before fitting the power lead.

Observe safety notes.

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

Fit a tool

Hold the tool firmly, press the spindle lock, loosen the locking collar.

Remove previous accessory and store safely.

Select the appropriate accessory for the job.

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 MG2 to the supplied power adaptor.

MG2-AC has a 240v AC to 18v DC transformer

MG2-DC has a fitting for an 18v POWERhandle (supplied separately)

Starting work

Mark the work to be done, the supplied stencils can assist with this (they are not designed to be used with the tools directly).

Use a mask or guide to prevent damage to surrounding areas.

Hold the grinder firmly and switch on, test the tool against the surface to check action before beginning work. Complete the work in stages, do not apply excess pressure or cause the tool to slow down.



Accessory

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

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





HSS cutter

For detail engraving, carving and routing in wood, fibreglass, 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 fibreglass; 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, fibreglass and soft metals. Fit the disc between the 2 rubber washers and tighten with the locking screw

Engraving

Hold the MG2 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 MG2 is perfect for modelling and detailing. Clamp the workpiece 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. The POWER8workshop and MULTI2Pro are excellent for heavy duty work.

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

- MG2-DC** Check the battery is charged and correctly fitted. **MG2-AC** Check the power is on and the plug is correctly fitted.
- Some POWERhandles in the CEL range have a protection circuit to prevent them from completely discharging. The battery will provide constant power then stop rather than slowing down. Recharge fully.

Why does my grinder stop sometimes?

See above.

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

Where should I keep my POWERmini grinder?

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

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 workpiece 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 POWERmini Grinder?

In a dry place with a stable temperature

What should I do if my POWERmini 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 POWERmini grinder repaired if it is damaged?

Contact your retailer.

Where do I find my serial number?

On the base at the rear.

Where can I get replacement parts, advice or help?

Ask at your retailer or visit
www.cel-global.com

What is your returns policy?

See inside cover of manual.

Technical specifications

13.0

Speed	- 15000rpm with no load
Collet Size	- 3.2mm maximum
Operating voltage	- 18V DC
Transformer Input (MG2-AC only)	- 230vAC 50Hz
Transformer Output (MG2-AC only)	- 18V DC 400mA
Boxed Dimensions	- 142x137x57mm - (5.6x5.4x2.3")
Weight MG2-AC	- 620g (21oz)
Weight MG2-DC	- 380g (13oz)
Product Codes	- MG2-AC and MG2-DC

If you experience any problems with the product please contact
email: sales@cel-global.com
www.cel-global.com



**GENERAL HAZARD
SAFETY ALERT**



**BEWARE OF FLYING
OBJECTS AND DEBRIS**



READ INSTRUCTION MANUAL



KEEP BYSTANDERS AWAY

CEL
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Transformer

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