

MAG 30, MAG 45, MAG 60
Instruction Manual

2022

KILNcare



MAG Grinder/Polisher Instructions



Thank you for choosing to purchase a MAG Grinder/Polisher for your glasswork.

We hope you will have many years happy use out of your MAG.

This Grinder/Polisher underwent a huge amount of research and testing in order to make it, what we believe, one of the most robust and reliable Grinder/Polishers in the world.

Please read this manual fully to get to know your MAG before use.

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Safety notices

Your MAG is designed and built to meet all European Directives and British Standards.

However, as with all rotating machinery, there are certain measures that you must take to achieve optimum safety.

Electricity

The MAG Grinder/Polisher meets all Electrical Safety Directives. However, the MAG is electric and as such certain measures should be taken.

Never attempt to remove any of the MAG cover panels or do any repair work when the kiln is plugged into a mains electricity socket.

Never use the MAG if external cables are damaged.

Have the MAG tested by a competent person at least every 12 months.



European Declaration of Conformity.

Kilncare Limited, The Kiln Works, 907 Leek New Road, Baddeley Green, Stoke on Trent, Staffordshire, United Kingdom, ST2 7HQ.

We declare that the equipment described below was manufactured to comply with directives listed.

We do not give any assurance that the equipment is suitable for any purpose other than that listed below and must be operated and maintained in accordance with our operating instructions.

Products.

MAG 30, MAG 45. MAG 60

Directives.

Machinery Directive 2006/42/EC

LVD - Low Voltage Directive 2006/95/EC.

EMC - Electromagnetic Compatibility Directive 2004/108/EC.

Harmonized Standards.

BS EN 292-1, BS EN ISO 13857-2008. BS EN 60204-2006.

Description.

Variable speed, AC, flat bed glass grinder / polisher.

Purpose of use.

Grinding and polishing of glass items.

Product serial number.

As per affixed data plate.

Manufacture year.

2022.

Technical documentation is held for this product.

Lee Sherwin,
Director,

Technical Specifications.

Electrical Supply	Single phase 220/240 volts
MAG 30	0.37 Kw = 5.7 amps
MAG 45	0.75 Kw = 9.7 amps
MAG 60	1.50 Kw =
Drive	Belt driven SPZ1250
Bearings	Top SF 35mm
	Bottom SF 25mm

Back up

We pride ourselves on our back up and after sales service and so in the unlikely event of any problems please do not hesitate to call our staff for friendly help and advise.

Contact us at

**Kilncare Ltd,
The Kiln Works,
907 Leek New Road,
Baddeley Green,
Stoke on Trent,
Staffordshire,
United Kingdom
ST2 7HQ,**

**Tel 01782 535915,
Fax 01782 535338**

**E-mail sales@kilncare.co.uk,
Web www.kilncare.co.uk**

The foot pedal operates at low voltage and is also rated to IP54 which means it is splash resistant. However, the foot pedal should never be submerged in water.

Your new arrival

For your records

Date of purchase. _____

Company purchased from _____

First date of use _____

Unpacking your MAG

Once unpacked, please show consideration to the environment when disposing of your kiln packaging.

Where to install your MAG

**WHEN POSITIONING AND MOVING THE MAG, NEVER APPLY PRESSURE TO THE WHITE POLYPROPYLENE WATER TRAY. THIS CAN RESULT IN THE TRAY BEING CRACKED.
ONLY MOVE AND POSITION BY HOLDING THE METAL BODY OF THE MAG.**

Ensure the floor that the MAG will be standing on is flat and sound. The MAG has balanced rotation so is very smooth, but, it may be that, depending on use, optimum smoothness is achieved by bolting the MAG to the floor through the bolts holes in the feet.

Ensure that the MAG is installed in such a position to avoid the water inlet feed and the mains power cord becoming a trip hazard.

Do not position the MAG immediately adjacent to the mains socket outlet that powers the MAG or any other electrical switch. It may be necessary to shield any sockets etc from any possible splash created when grinding/polishing.

We recommend that when not in use, the power supply to the MAG is disconnected and the water feed turned off.

Do not site the MAG outside.

Electrical connection

The MAG comes fitted with a 13 amp plug top fitted. It is designed to work from standard 230v socket outlets.

The electrical supply MUST have a sound earth connection.

It is advisable to have your chosen socket outlet tested by a qualified electrician prior to use to ensure its sound condition.

Set up and operation

The grinding/polishing disc.

The MAG is designed to be used with magnetic diamond discs for optimum performance.

The disc is best used when fitting as central as possible to the wheel head.

Always use the water feed to maintain the life and efficiency of the disc.

Never attempt to attach or remove a disc when the wheel head is rotating.

The water feed.

The water feed connector is a standard hose pipe snap connector that is available from any DIY store. There is no specialised installation required with regards to connecting the MAG.

The throw lever on the flexible disc feed outlet regulates how much water is fed to the disc and the flexible disc feed outlet can be positioned to where suits your work the best.

There are different outlet heads provided with the MAG. Clip your chosen head onto the end of the flexible disc feed outlet and ensure it is tightly connected prior to use.

Always use the water feed when grinding and polishing as this maximises the life of your magnetic / self adhesive disc and also minimises dust.

Speed control

The MAG is designed to rotate at speeds from 100 RPM to 430 RPM.

The is controlled using the foot pedal provided.

The speed can be adjusted whilst the disc is rotating.

Sequence of operation.

Turn on the water feed supply.

Plug in the MAG to the mains power socket and turn the socket on.

Turn on the MAG by pressing the green button on the front of the unit. A thud/ click will be heard from the MAG.

Turn the "on/off" switch to on and the disc head will start to rotate at 100r.p.m.

Select the desired speed using the foot pedal. Your foot can now be removed from the foot pedal and the disc will continue to spin at the selected speed.

Turn on the water feed throw valve and set the required amount of water jet and also the position of the jet head with relation to the disc.

Once finished depress the pedal fully and turn the "on/off" switch to "off".

Turn off the water feed.

Press the red button on the front of the MAG.

When the MAG is prepared for use by pressing the green button, the "on/off" switch must always be in the "off" position before turning to "on" to rotate the disc head. The disc head will not rotate if the "on/off" switch is in the "on" position prior to the green button being pressed.

Looking after your MAG

Your MAG is an extremely robust machine, designed to operate in relatively harsh environments, however, certain measures will help your MAG to achieve it's maximum potential.

Avoid heavy impacts to the wheel head as this can effect the bearings and also result in uneven rotation.

The water tray is heavy duty polypropylene and offers good physical strength but it is not unbreakable. Avoid moving the MAG by holding onto the tray and avoid heavy impacts to the tray.

Keep the unit clean as good house keeping is always a good practise.

Never use the MAG if the power cord to the mains supply or to the foot pedal are damaged.