

# **Operation Manual**



**Revision 2** 

## Contents

1. About the Power Knife Sharpener.					
<ul><li><b>1.1</b> User Precautions</li><li><b>1.2</b> Safety Instructions</li></ul>					
1.3 Care and Cleani	ing		•••••	•••••	•••••
2. Sharpening Knives.	••••••	••••••			•••••
3. Replacing Grinding	Wheels	•••••		••••••	•••••
4. Specifications					
5. Trouble Shooting					

#### 1. About the Power Knife Sharpener

Please read this manual and the User Precautions below before using this machine.

Your MEFE Power Sharpener is the culmination of years of experience in sharp edge technology, incorporated into the latest design with innovative ideas in engineering making the product small and portable at a competitive price.

This device is simple to operate with instruction and does not require professional skill.

The machine is designed for sharpening plain edged knives that are less than 4mm thick. The ground indicated angle is a 30 to 34 degree at the edge of the "Gothic Arch" form.

It is designed for use in butchery, catering and food manufacturing trades, providing a very sharp and efficient edge in a matter of seconds.



#### 1.1 User Precautions

- Wear proper apparel—remove any loose clothing, jewellery etc. that may get caught in moving parts
- Always wear safety glasses (note: everyday glasses do not contain impact resistant lenses they are not safety glasses)
- Always use a face mask if grinding operation is dusty
- Wear a protective hair cover if hair is long/medium
- Wear non-slip footwear
- Avoid distractions whilst operating the knife sharpener

#### **1.2 Safety Instructions**

#### Keep this information in a safe place known to all users of the knife sharpener. Keep out of reach of children at all times.

When using electrical tools, basic safety precautions should always be used, including the following:

- Read and save all instructions.
- Unplug from mains outlet when not in use, before cleaning, and when replacing grinding wheels.
- To protect against electric shock, do not immerse cord, plug, or appliance in water or any liquid.
- Do not use in dangerous environments or expose to damp or wet conditions.
- The appliance is fitted with an under voltage trip device, in the event of a power failure the On/Off switch will return to the Off position.
- The motors are specially rated for intermittent use only.
- Do not operate the appliance with a damaged cord or plug, if the product malfunctions, or if it is dropped or damaged in any way.
- Keep your working area well lit.
- Do not use this product for anything other than the intended purpose.
- Keep all non-users a safe distance away from the working area.
- Do not operate with the wheel guard removed.
- Before removing grinding wheel guard, switch the machine off, unplug from mains outlet and allow grinding wheels to come to a complete stop.

#### 1.3 Care and Cleaning

Magnets for collecting grinding debris



Figure 1—Showing magnets inside wheel guard



Figure 2—Showing wheels with guard removed

- Store in dry conditions.
- Keep clean and free from oil and grease.
- The frequency of cleaning will be determined by the amount of machine usage and may only be necessary when replacing the grinding wheels. It is however recommended that the machine is checked periodically for build up of grinding debris in order to achieve maximum benefit from magnets mounted inside the wheel guard (Figure 1).
- If your knives are contaminated with food products when sharpening, it is recommended that the guard be removed for cleaning daily.
- Before cleaning, disconnect from the main power supply –ensure that the grinding wheels have stopped rotating.
- Remove the five screws securing the wheel guard and remove.
- Using a small brush, clean away any grinding debris from the vicinity of the wheels (Figure 2). Again using the brush clean off the magnets located on the inside of the wheel guard.
- Refit the guard, securing the five retaining screws.

#### 2. Sharpening Knives

Your MEFE Power Knife Sharpener is designed for sharpening plain edged knives that are less than 4mm thick.

**Note:** Scalloped and serrated edged knives may be re-sharpened on this machine, but the edge will gradually become plain, and the manufactures original sharpness level may not be achieved.

Using the machine is relatively easy and once familiar with its use, re-sharpening knives will only take a few seconds. Read the following guidelines before use.

- The machine should be sited on a smooth flat work surface/bench, away from possible distractions and away from the immediate area of food preparation.
- Refer to the About the Power Knife Sharpener section of this manual.
- Clean off and dry the knives before sharpening.
- Hold the knife by the handle and guide the blade through the slot in the machine.
- Carefully lower the mid section of the blade into the wheel zone until contact is made with the grinding wheels, at this point start to traverse the blade back and forth from hilt to tip (Figure 3). A few passes is normally sufficient for re-sharpening and only a very slight amount of downward pressure is required. The weight of a larger knife will provide sufficient downward force without additional pressure being required.
- Finish the sharpening operation towards the tip of the knife, lifting the blade up and away from the grinding wheels when the tip is approximately half way through the width of the grinding wheels (Figure 4). Never draw the tip of the blade out of the front of the machine.
- Never attempt to introduce the knife point or tip directly in to the grinding wheels. Always aim to use the full width of the grinding wheels interlock, i.e. by keeping the portion of blade being sharpened parallel to the workbench/surface.
- Handle re-sharpened knives with extreme care.





Figure 3—Lowering of knife blade on to the wheels

Figure 4—Showing end of grinding operation, lifting knife away from the grinding wheels

#### 3. Replacing Grinding Wheels

- Unplug from the mains outlet and ensure the wheels have stopped rotating.
- Remove the five screws from the grinding wheel guard and remove.
- Look behind the wheels to the hexagonal shaped output shafts and turn until any 2 corners are uppermost. This means that the flat sides are vertical. Locate the double hex spanner over the 2 forms and simply hold in place with thumb pressure (figures 5-6). Using the box spanner loosen and remove the wheel retaining nut. Repeat this procedure for the opposite wheel—noting that the right hand wheel nut is a right handed thread (turn anti-clockwise to loosen).
- With both retaining nuts removed, slide both wheels simultaneously out and away from the machine.
- Remove the double hex spanner and align the output shafts with the drive pegs vertically uppermost (Figure 7). Hexagonal corners will again be uppermost. Put the spanner back in place.
- Remove the new grinding wheels from their packaging and working on a bench or a flat surface, position the wheels together (Figure 8), noting their left hand and right hand identification marks. Rotate the wheels together until the drive peg holes are vertically uppermost. Keeping the wheels in correct alignment slide the pair on to the machine output shafts (Figure 9).
- Ensure that the wheels have located fully on the drive pegs and replace the retaining nuts. Whilst the double hex spanner prevents the wheels from turning re-tighten the wheel nuts using the box spanner.
- After removing the spanner, rotate the wheels by hand to ensure freedom of movement. Re-fit the wheel guard replacing the five securing screws. The machine is now ready for use.

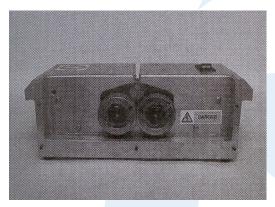


Figure 5—Showing double spanner for removing wheel nuts

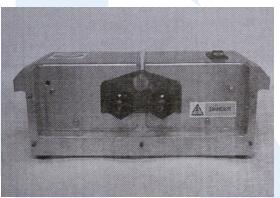


Figure 6—Showing double spanner positioned on output shafts (without wheels)

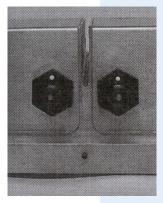


Figure 7—Showing drive pegs set uppermost ready to fit grinding wheels



Figure 8—Wheels set up on bench prior fitting



Figure 9—Fitting new wheels

#### 4. Specifications

Spindle rpm	3000	
Standard single phase mains outlet	220/240 V AC 2 amps	
Nominal Sharpening Angle	30 <sup>°</sup> included	
Abrasive wheels CBN grade	B107	
Weight	7 kg	

### 5. Trouble Shooting

Fault	Diagnosis
Machine will not start— ON/OFF switch will not hold in ON position	<ul> <li>If the fuse is OK, check the main supply with another appliance.</li> <li>If the supply is OK, contact MEFE for service/repair.</li> <li>If the motor tripped out on Overtemp*—unplug and leave for at least one hour to cool.</li> <li>If the machine has cooled down and still does not start, contact MEFE for service/repair.</li> </ul>
Machine runs slowly and nosily—	<ul> <li>Check the grinding wheels for correct fitment, refer to the manual and refit correctly.</li> <li>If the wheels are OK, contact MEFE for service/repair.</li> <li>Check abrasive coating on grinding wheels, replace if necessary.</li> </ul>
Poor re-sharpening—	If the wheels are okay, refer to the manual for correct technique.

The MEFE knife sharpening machine is only rated for intermittent use.

Note: There are no serviceable parts inside the machine.