Operating Manual

Power Knife & Scissors Sharpener

CAT 139 70



Revision 2
MEFE

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Recommendations and proper use

Careful reading and understanding of this manual to ensure correct handling of the machine is mandatory. The user must know all aspects related to operation, safety, and maintenance.

The FILUX machine has been designed exclusively for industrial use and should only be used to sharpen knives and scissors. The machine is set to sharpen knives at 35º total Sharpening Angle or 17.5º per side.

Correct use also implies compliance with these instructions for use, as well as compliance with the inspection and maintenance intervals.

Important: This machine does not include its own safety switch (RCD). It must be connected to a power supply that is already protected by a safety switch.

Waste and Environment

At the end of the machine's useful life, the owner, in accordance with current legislation, will ensure its environmentally friendly disposal.

This product complies with Directive 2012/19/EU.

For the correct disposal of this product, contact your town hall or local waste collection authorities.

General Safety

- Please read carefully and keep this manual near your workplace so you can consult it at any time.
- When using electrical machines, a series of precautions must be taken to reduce the risk of fire, electric shock or injury.
- This machine is not intended for use by children or unqualified personnel.
- Do not use the machine in a corrosive environment to avoid damaging the electrical elements.
- Do not use the machine in flammable, explosive, radiation-filled environments or near heat sources to avoid fire or explosion.
- Keep the work area in order and well lit to avoid the risk of accidents.
- Make sure that there are no unauthorized personnel near the machine.
- Wear appropriate clothing to avoid snagging and entrapment. Do not wear jewellery or loose clothing.
- Do not pour liquids on the machine.
- Do not disassemble the machine without prior authorization from the manufacturer. Go to a qualified service.
- When working with the machine, do so in an environment free of distractions.
- The use of safety glasses is mandatory to prevent steel particles from entering the eyes.

Mandatory Safety Pictograms



Eye Protection must be worn



Electrical Hazard



Crushing Hazard

Electrical Safety

- The plug must match the outlet. Do not modify or change the plug.
- Avoid body contact with grounded surfaces such as pipes, radiators, and refrigerators. There is an increased risk of electric shock if your body is grounded.
- Do not expose the machine to rain or wet conditions, as this will increase the risk of electric shock.
- Do not abuse the cable. Never use the cord to carry or directly unplug the machine. Keep cord away from heat, oils or fluids, sharp tools, or moving parts.
- Damaged or tangled cables increase the risk of electric shock.
- If operating the machine outdoors, use an extension cord suitable for outdoor use.
- If the machine is installed in a vehicle, ensure that the electrical installation is appropriate to avoid the risk of electric shock.

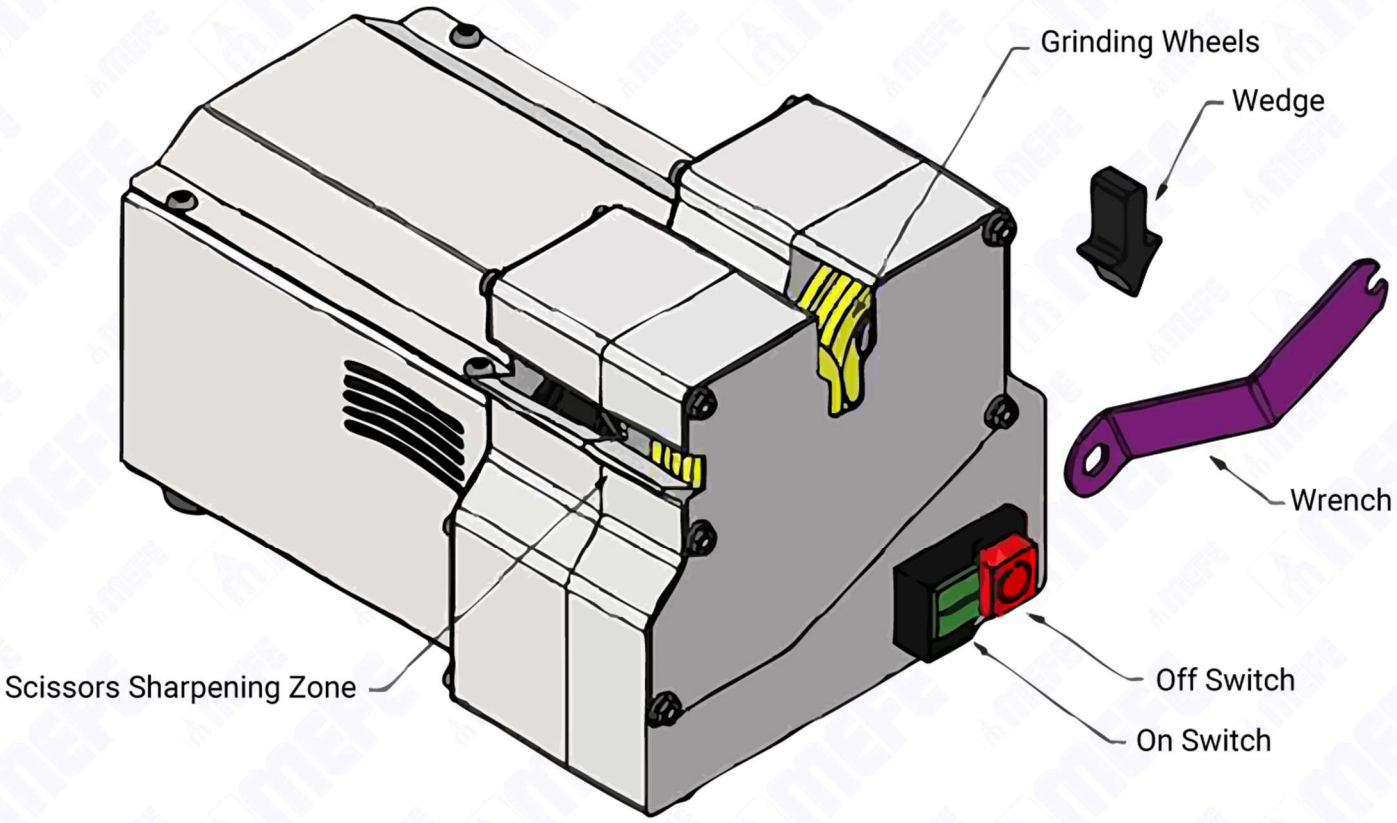
Use of the Machine

- If you notice that any spare part of the machine is worn or defective, replace it as soon as possible with an original spare part to avoid causing damage and accidents.
- Repairs must be carried out by specialized personnel and/or completely familiar with the equipment.
- Stay attentive and alert while using the machine. Do not work with it if you are tired, under the influence of substances or medications that alter the nervous system.
- Use appropriate personal protective equipment.
- Remove any tools that interfere with the use of the machine before using it.
- Adopt a proper posture.
- Wear appropriate clothing to avoid entrapment. Avoid jewellery, loose hair, and baggy clothing.
- Strictly follow safety regulations even if you are highly familiar with the machine, any distraction can cause injury.
- Do not use the machine if the switch does not work properly.
- Remove the power plug while carrying out cleaning and maintenance work.
- Keep the machine and its components clean and in good condition.

Specifications

Model	Voltage	Frequency	Power (kW)	Revolutions per min	Weight	Size
CAT 139 70	230V	50Hz	90W	1400	8kg	300 x 180 x 175mm

Components



Start Up

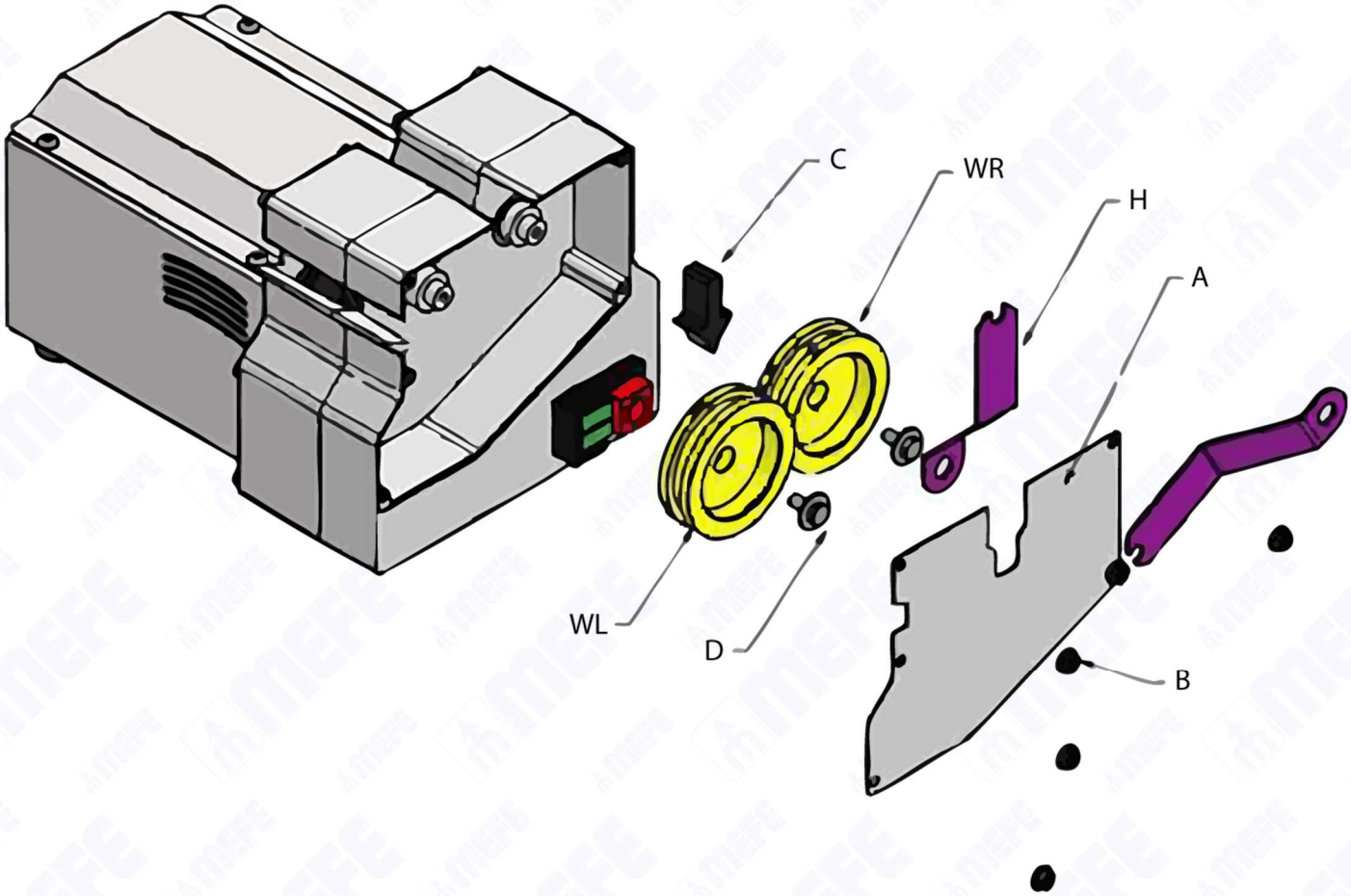
- To start the machine for the first time, follow the instructions below
- Place the machine on a platform that is as firm and level as possible.
- Before starting the machine, check that the front cover covering the grinding wheels is properly screwed in place, using the 4 nuts.
- Plug the machine into an electrical socket 230V—50Hz – 3A.
- Start the machine using the green switch.
- Stop the machine using the red switch.
- Stop the machine using the red switch.

Cleaning

- Unplug the power cord
- It is recommended to clean the machine daily or weekly, depending on its workload. Proper cleaning provides better results in sharpening cutting tools.
- Wipe the machine with a soft cloth to remove any particles and dust.
- Do not clean the machine with pressurised water or pouring liquids on it.
- Clean the outside of the machine with a damp cloth, avoiding the use ot corrosive products
- Clean the seat area of the grinding wheels. Remove the teeth, clean and dry the area properly.
- Clean the grinding wheel guard before replacing it.

Changing the Grinding Wheels

Changing the wheels is carried out as follows:

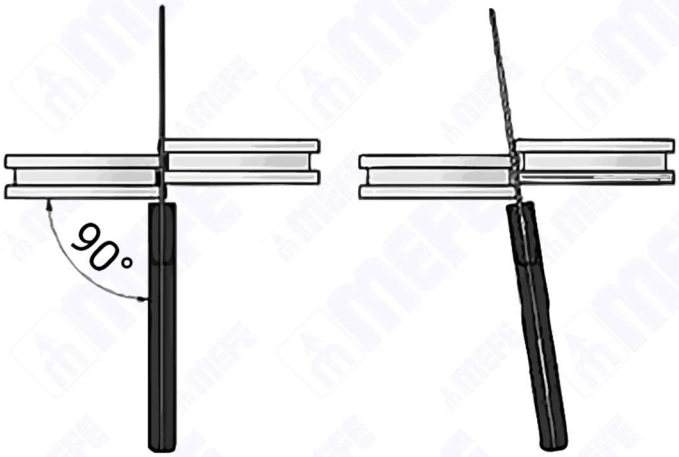


- Disconnect the machine from the socket to ensure that it will not start at any time
- Remove the protective cover (A) by removing the nuts (B), using wrench (H).
- Hold the wheels by Wedge (C) to prevent entrapment.
- Loosen and remove the screws (D) from the two wheels
- Extract both wheels at the same time.
- Clean the seating area of the axles.
- Place the two new wheels, inserting them at the same time, facing the grooves, taking into account that the left wheel (WL) is farther out than the right one.
- Tighten the grinding wheel retaining screws (D).
- Place the grinding wheel cover, using the nuts (B).

Maintenance

- Make sure the hardware is in good condition, otherwise it will have to be replaced.
- Check the fixing screws, retightening or replacing if necessary.
- Check that no element of the machine is visibly damaged and that there are no deformations.
- Check the status of the connections.
- If the safety pictogram stickers are not visible or damaged, replace them with new ones.

Knives Sharpening



- Start the machine
- Insert the knife between the grinding wheels, starting to sharpen from the part closest to the handle.
- Make sure that the blade of the knife is centred between the two wheels and that the knife is at 90°, as reflected in the sketch.
- Slide the knife gently back and forth, or just back, while sliding the knife try to maintain 90°
- When you reach the tip of the knife, raise the handle progressively so that the sharpening of the tip is done on the two wheels, this will force you to raise your arm.
- Make several passes with more pressure and a final pass with lighter pressure, so that the edge is burr free.
- Try to work with the entire surface of the wheels, saving on spare parts and obtaining better results.
- Use a sharpening steel to remove burr from the edge and clean with a cloth.





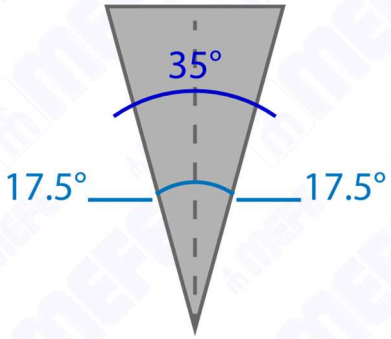
Scissors Sharpening

- The scissors' blade is positioned on the slot on the left side of the machine.
- Sharpen one blade first and then the other.
- It is not necessary to disassemble the scissors.
- Move the scissors at a constant speed and pressure for best results.
- Use the lower support as a guide for the blade.
- Repeat the process with the other blade.
- Open and close the scissors a few times to remove the burr.



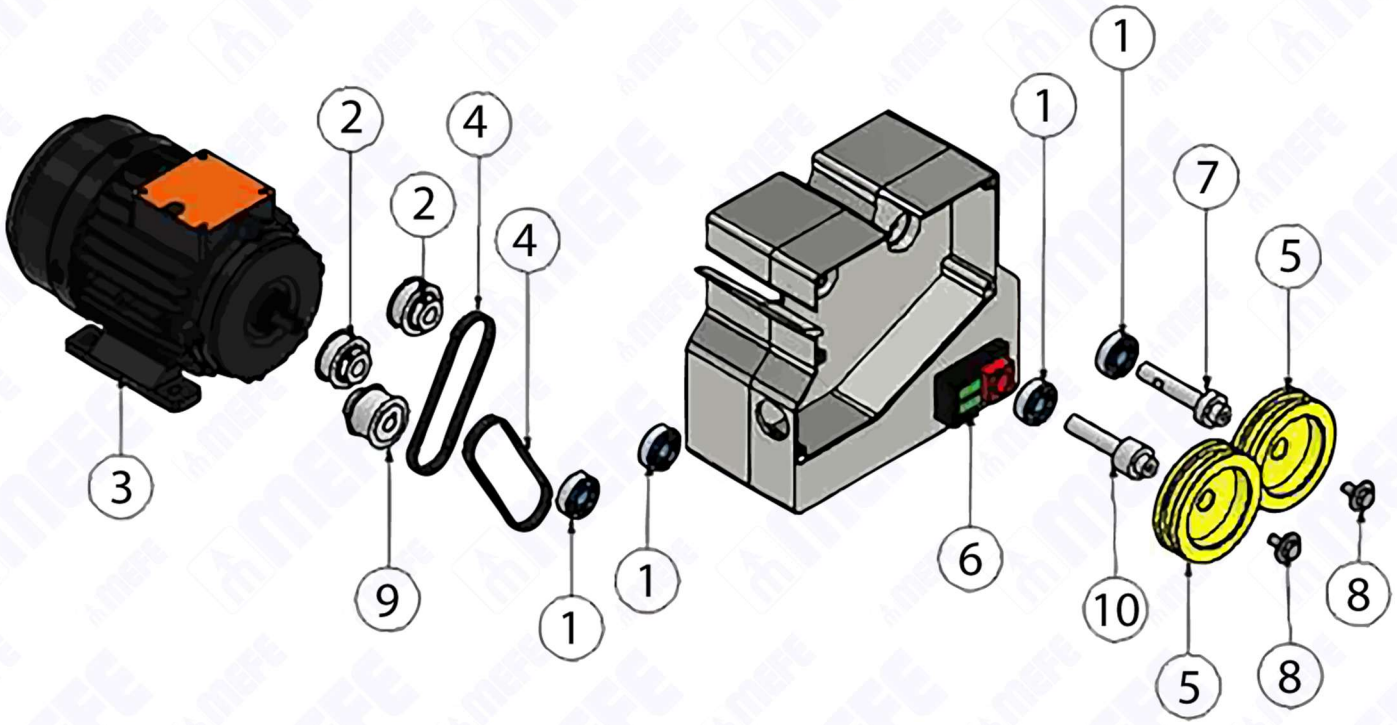
Sharpening Angle

- 35° = total angle between the two sharpened faces.
- 17.5° = angle on each side relative to the knife centreline.
- The angle is measured at the cutting edge, looking at the knife in cross-section.



Cutting edge (magnified cross-section)

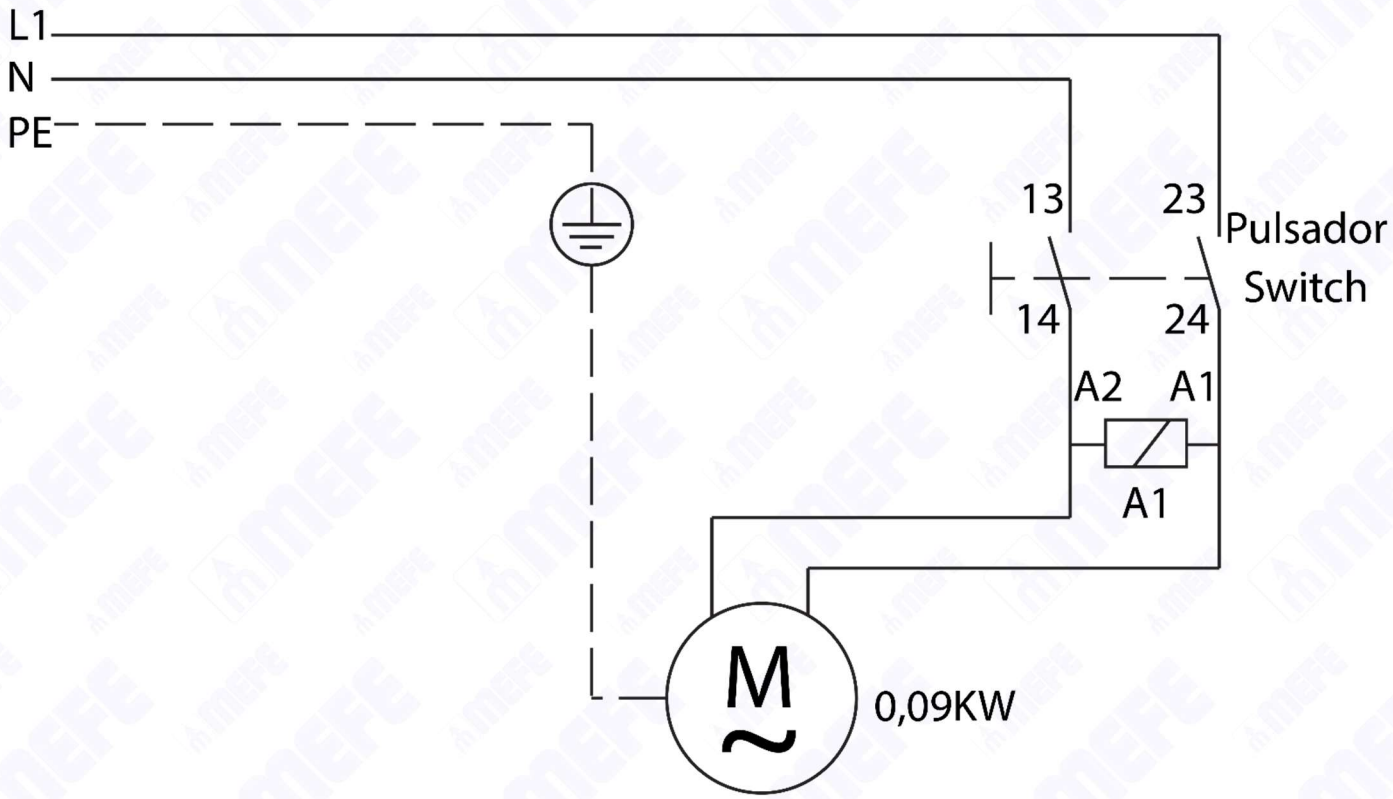
Breakdown



Parts List

No.	Qty	Part	No.	Qty	Part
1	4	Bearing 6000 2RS	6	1	Switch KjD17
2	2	Pulley HDT 30-3M-09	7	1	Fl-07
3	1	Motor Cemer Myte 56 B3	8	2	DIN 993—M6 x 14
4	2	Belt 225-5M-06	9	1	Pulley HDT 30-3M-15
5	2	Filux grinding wheel S 101 / F 102	10	1	Fl-06

Electrical Diagram



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