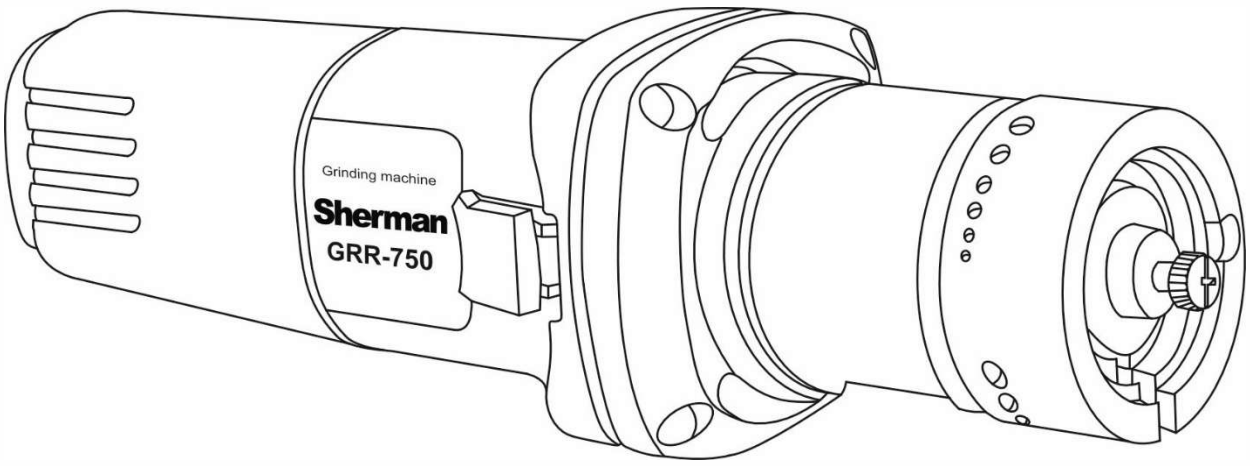
Sherman

ENG V1.2 04.09.26

USER MANUAL

MANUAL TUNGSTEN ELECTRODE GRINDER
GRR-750



CE



WARNING!
Before installing and starting the appliance, please refer to this manual

1. GENERAL COMMENTS

The device can only be commissioned and operated after carefully reading these Operating Instructions.

Due to the continuous technical development of the device, the external appearance and some of its functions may be modified and their operation may differ in detail from the descriptions in the manual and on the cardboard. This is not a fault of the device, but the result of progress and continuous modification work of the device. The standard equipment of the device may also change.

Damage to the device caused by improper operation will void your warranty rights.
Any modifications to the cutter are prohibited and will void the warranty.

2. SAFETY



Before each use, check the technical condition of the device and the supplied accessories. It is forbidden to use damaged or technically defective equipment. Worn and damaged parts of the device should be replaced with new and original ones.
It is forbidden to use the device for any other purpose

2.1 Personal protective equipment

Respiratory protection – A P3-rated respirator is recommended
Hearing protection - noise protection earmuffs or noise earplugs
Hand protection - work gloves resistant to cuts and friction (e.g. nitrile coated) protecting the hand from contact with the electrode and disc.
Eye and face protection – safety glasses with side shield or protective visor
Skin protection – Apron or work clothes (non-flammable, cotton with long sleeves.

2.2 General description of the risks

Grinding produces dust and dirt that can damage the eyes. Due to the strong action of frictional forces, high temperatures are generated. A rotating grinding wheel can cause damage to the operator's hands and fingers. To prevent the above and other hazards that accompany the grinding process, the following rules should be followed:
• it is strictly forbidden to use the device without a protective cover,
• it is forbidden to insert your hands or fingers inside the grinding chamber when the device is connected to the mains,
• The sharpened electrode should always be in the clamp. The electrode clamp should be tightened tightly.

2.3 Noise Protection

Noise levels increase when the electrode is sharpened Excessive noise can cause permanent hearing damage.
To prevent the above risks, the following rules should be followed:
• appropriate hearing protection should be worn,
• Persons in the vicinity should be informed of the danger arising from exposure to increased noise levels. Persons in the work area must wear appropriate hearing protection.

2.4 Protection against electric shock.

• Connect the device to a technically efficient electrical system with proper grounding and electrical protection (additional protection against electric shock); other devices at the workplace should also be checked and correctly connected to the network,
• It is forbidden to operate the device with the covers removed,
• It is forbidden to use when the power cord, plug or housing is damaged,
• Do not touch the electrical parts of the appliance under voltage,
• take special care when using the device in places with increased air humidity,
• absolutely avoid contact of the device with water,

When you have finished working, the power cord of the appliance must be unplugged.

WARNING!

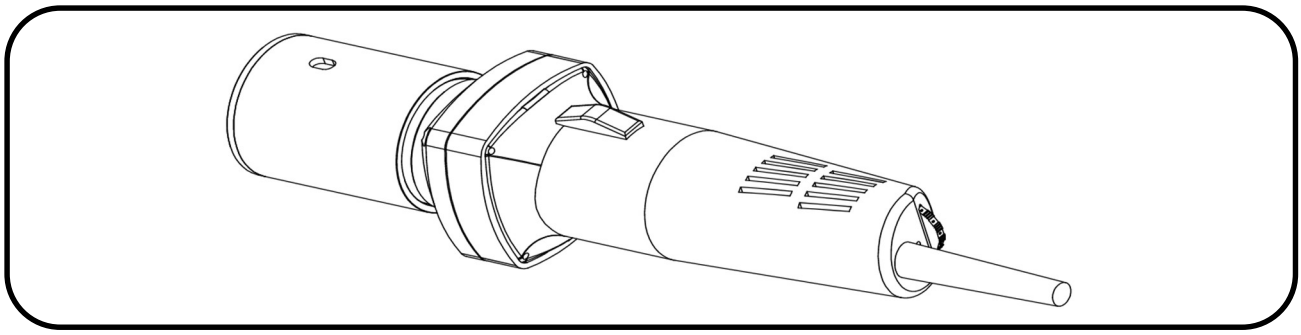
It is forbidden to grind tungsten electrodes with the addition of thorium without first connecting the extraction and dust separation with appropriate filtration! The dust generated by grinding the thorium electrodes is highly harmful to the health and life of the operator!

The hazards and general OHS rules presented above do not exhaust the issue of occupational safety, as they do not take into account the specifics of the workplace. They are an important complement to workplace OHS instructions and training and instructions provided by supervision employees.

3. INTENDED USE

The GRR-750 grinder is designed for grinding and sharpening tungsten electrode tips used in TIG welding.

4. GENERAL DESCRIPTION

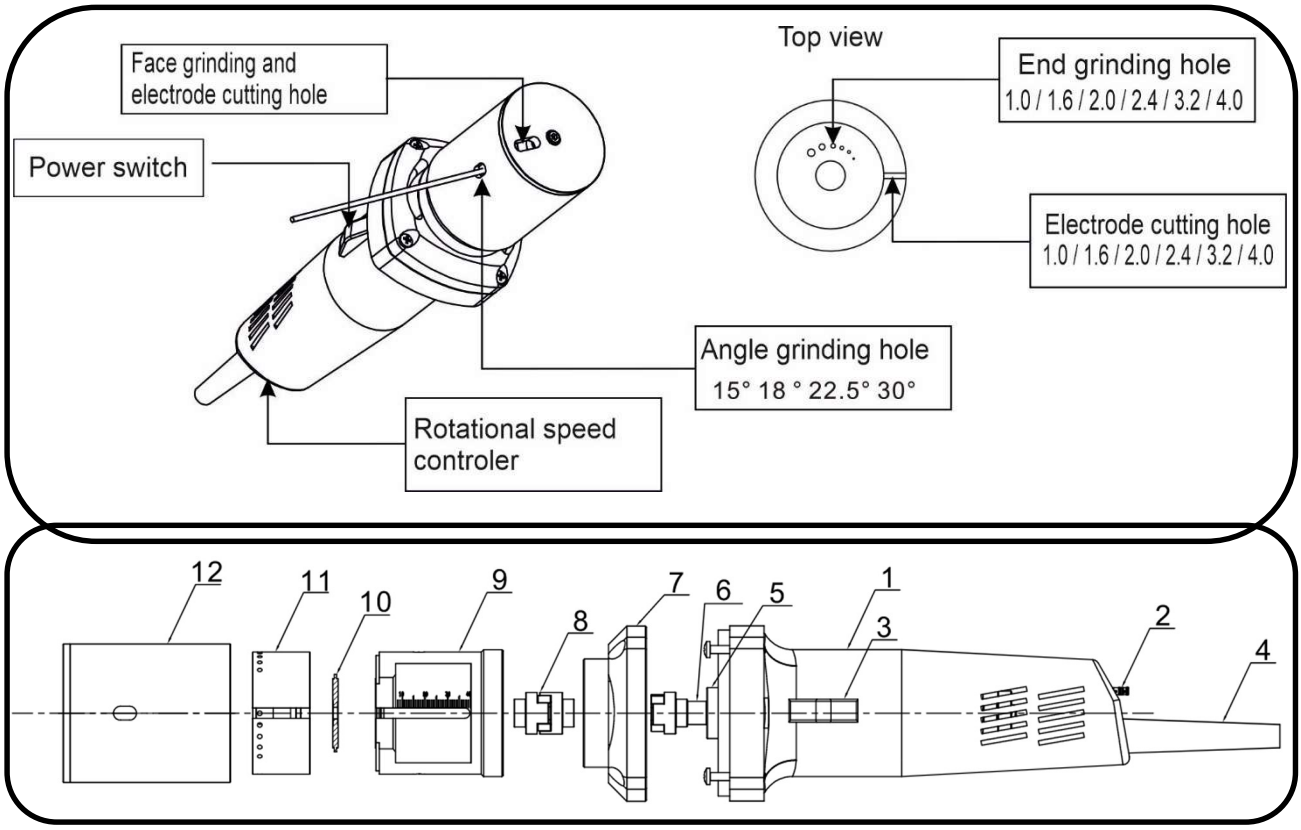


The sharpener is designed for precise tungsten electrode tip preparation, ensuring repeatable taper geometry and high weld quality. It allows the sharpening angle to be set and maintained stably, which improves arc concentration and stability and penetration depth control. The hermetic design effectively retains tungsten dust, meeting health and safety requirements. The device minimizes electrode wear and supports standard diameters of 1.0 / 1.6 / 2.0 / 2.4 / 3.2 / 4.0 mm, which provides versatility in various TIG (DC/AC) applications.

5. TECHNICAL PARAMETERS

	GRR-750
Supply Voltage	AC 230V 50Hz
Motor power	750 W
Range of sharpened electrode diameters	1,0 – 4,0
Electrode length	min 30mm
Grinding angle	15°, 18°, 22.5°, 30°
Grinding wheel speed	1100 rpm
Disc diameter	33.5 mm
weight	1.6 kg
Dimensions	340 x 76 x 76 mm

6. CONSTRUCTION



1. Motor and housing
2. Speed Controller
3. Switch
4. Power cord
5. Bearing
6. Shaft
7. Bearing cover
8. Clutch
9. Clutch cover
10. Grinding disc
11. Focus Angle Ring
12. Dust guard

7. CONNECTION TO THE POWER SUPPLY

1. The appliance should only be used in a single-phase, three-wire power supply system with a grounded zero point.
2. The sharpener is adapted to work with a 230V 50 Hz mains protected by 10 A delay-acting fuses.
3. Before connecting the power supply, make sure the power switch is in the OFF (off) position.

8. OPERATION

Before each use, check that the device and the power cord are in working order and that all components of the device are correctly installed. It is forbidden to use a device that is technically defective!

8.1 Angled Electrode Sharpening
1. Check that the switch (3) is in the "OFF" position.
2. Set the desired grinding angle
3. Insert the electrode into the hole corresponding to the diameter of the electrode.
4. Turn on the sharpener using the switch 3 .
5. Slowly and evenly rotate the electrode, thus sharpening the end of the electrode.
6. Turn off the sharpener.
7. Remove the electrode.

8.2 Electrode Face Grinding
1. Check that switch 3 is in the "OFF" position.
3. Insert the electrode into the face grinding hole.
4. Turn on the sharpener using the switch 3 .
5. Grind until the desired effect is achieved.
6. Turn off the sharpener.
7. Remove the electrode.

8.3 Cutting the Electrode
1. Check that switch 3 is in the "OFF" position.
2. Insert the electrode into the electrode cutting hole.
3. Turn on the sharpener using the switch 3 .
4. Rotate the electrode slowly and evenly until it is cut.
5. Turn off the sharpener.
6. Remove the electrode.

8.4 Adjusting the Grinding Speed
For the best grinding quality, adjust the grinding speed to the diameter of the electrode.

8.5 Grinding Wheel Replacement
1. Remove the protective cover by removing the screw using a hex (Allen key).
2. Unscrew the angle grinding ring screws and disassemble it.
3. Remove the locking screw in the bearing guard. When removing, hold the metal rod in the hole around the perimeter of the bearing cover. Remove the old grinding wheel and install the new one.
4. The grinding disc can be used on both sides.

9. WARNINGS

Harmful materials in tungsten electrodes
Tungsten electrodes may contain substances that are harmful to health. It is imperative to follow the manufacturer's recommendations and guidelines. If you have any doubts about the composition of the electrodes, contact their manufacturer or supplier.

Do not operate the device with the electrode applied to the grinding disc
Switching on the device when the electrode comes into contact with the grinding wheel risks twisting it and damaging the disc, the device, and also poses a risk of injury.
When starting, the electrode must not adhere to the surface of the disc. Always ensure that the electrode is correctly positioned before switching on the device.

Dust protection
During the operation of the grinding wheel, chips and dust may escape and be a hazard to the eyes and may enter the air. Do not use the sander with the dust cover removed. Plug unused holes in the dust cover during grinding.

Too much electrode pressure on the grinding disc

Excessive pressure of the electrode against the disc can lead to overheating and annealing of the electrode. Such damage to the electrode may render it unusable or cause the device to malfunction. Do not apply too much contact force. When sharpening, the electrode should be rotated evenly over the surface of the disc.

10. TROUBLESHOOTING

Tungsten Electrode End after grinding, it is overheated.	Too much pressure on the electrode end against the surface of the grinding wheel
Uneven electrode grinding	Incorrect tungsten electrode grinding technique.
	The grinding disc is worn

11. WARRANTY

The warranty is granted for a period of 12 months for business entities, but excluding warranty claims, or 24 months for consumers from the date of sale.
The warranty will be respected upon presentation by the complainant of proof of purchase (invoice or receipt) and a warranty card with the product name, serial number, date of sale and stamped point of sale.
To order a warranty repair, please fill in the form located on the www.tecweld.pl website_ in the SERVICE tab. On the basis of the notification, the device will be transported to the service by a courier company. Devices sent in any other way at the expense of TECWELD will not be accepted!
The device sent for complaint must be packed in the original cardboard box secured with original polystyrene fittings. TECWELD is not responsible for damage to the grinder resulting from transport.



If you intend to dispose of this product, do not dispose of it with ordinary household waste. According to the WEEE Directive (Directive 2012/19/EU) in force in the European Union, separate disposal methods must be used for used electrical and electronic equipment.
In Poland, in accordance with the provisions of the Act of 11 September 2015 on Waste Electrical and Electronic Equipment, it is prohibited to place waste equipment marked with the crossed-out bin symbol together with other waste.

The user who intends to dispose of this product is obliged to hand over waste electrical and electronic equipment to a waste equipment collection point. Collection points are operated, m.in, by wholesalers and retailers of this equipment and by municipal organisational units operating in the field of waste collection.
The above statutory obligations have been introduced in order to reduce the amount of waste generated from waste electrical and electronic equipment and to ensure an appropriate level of collection, recovery and recycling of waste equipment. The proper implementation of these obligations is particularly important when waste equipment contains hazardous components that have a particularly negative impact on the environment and human health.

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