



## ΓΩΝΙΑΚΟΣ ΤΡΟΧΟΣ



**HE115-125/950**



Read the booklet of instructions carefully before using!



**ΓΩΝΙΑΚΟΣ  
ΤΡΟΧΟΣ**



---

## Angle Grinder

HE115-125/950

Rated Voltage	220-240V~50/60HZ
Input Power	950W
No-load speed	11500r/min
Disc Dia	125mm

### SAVE THESE INSTRUCTIONS

#### Work Area

1.Keep you work area clean . Cluttered benches and dark areas invite accidents.

2.Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids,gases, or dust or fumes.

3.Keep bystanders,children and visitors away while operating a power tool. Distractions can cause you to lose control.

#### ELECTRICAL SAFETY

4.Power tools plugs must match the outlet. Never modify the plugs in any way. Do not use any adapter plugs with earthed power tools. Unmodified plugs and matching outlets will reduce risk of electric shock. Do not change the plug in any way. Double insulation eliminates the need for the three wire grounded power cord and grounded power supply system.

5.Avoid body contact with grounded surface such as pipes, radiators, ranges and refrigerators. This is an increased risk of electric shock if your body is grounded.

6.Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

7.Do not abuse the cord. Never use the cord to carry the tools or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cord

increase the risk of electric shock.

8.When operating a power tool outside, use an outdoor extension cord marked “W-A” or “W”. These cords are rated for outdoor use and reduce the risk of electric shock.

#### PERSONAL SAFETY

9.Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.

10.Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.

11.Avoid accidental starting. Be sure switch is off before plugging in. Carrying tools with your finger on the switch or plugging in tools that have the switch on invites accidents.

12.Remove adjusting keys or wrenches before turning the tool on. A wrench or key that is left attached to a rotating part of the tool in unexpected situations.

13.Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enables better control of the tool in unexpected situations.

14.Use safety equipment. Always wear eye protection. Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions. Ordinary eye or sun glasses are NOT eye protection.

#### TOOL USE AND CARE

15. Use clamps or other practical ways to secure and support the workpiece to a stable platform. Holding the work by hand

---

or against your body is unstable and may lead to loss of control.

16. Do not force tool. Use the correct tool for your application. The correct tool will do the job better and more safely at the rate for which it is designed.

17. Do not use tool if switch does not turn on or off. Any tool that cannot be controlled with the switch is dangerous and must be repaired.

18. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool. Such preventing safety measures reduce the risk of starting the tool accidentally.

19. Store idle tools out of reach of children and other untrained persons. Tools are dangerous in the hands of untrained users.

20. Maintain tools with care. Keep cutting tools sharp and clean. Properly maintained tools with sharp cutting edges are less likely to bind and are easier to control.

21. Check for misalignment or binding of moving parts, breakage of parts, and any other conditions that may affect the tools operation. If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.

22. Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool, may become hazardous when used on other tools.

#### SERVICE

23. Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel can result in a risk of injury.

24. When serving a tool, use only

identical replacement parts. Follow instructions in the Maintenance section of the manual. Use of unauthorized parts or failure to follow Maintenance instructions may create a risk of electric shock or injury.

#### SPECIFIC SAFETY RULES

DO NOT let comfort or familiarity with product (gained from repeated use) replace strict adherence to grinder safety rules. If you use this tool unsafely or incorrectly, you can suffer serious personal injury.

1. Always use proper guard with grinding wheel. A guard protects operator from broken wheel fragments.

2. Accessories must be rated for at least the speed recommended on the tool warning label. Wheels and other accessories running over rated speed can fly apart and cause injury.

3. Hold tool by insulated gripping surface when performing and operating where the cutting tool may contact hidden wiring or its own cord. Contact with a "live" make exposed metal parts of the tool "live" and shock the operator.

4. When using depressed center grinding wheels, be sure to use only fiberglass reinforced wheels.

5. Always use safety glasses or goggles. Ordinary eye or sun glasses are NOT safety glasses.

6. Check the wheel carefully for cracks or damaged before operation. Replace cracked or damaged wheel immediately. Run the tool (with guard) a no load for about a minute, holding tool away from others. If wheel is flawed, it will likely separate during this test.

7. Use only flanges specified for this tool.

8. Be careful not to damage the spindle,

---

the flange (especially the installing surface) or the lock nut. Damage to these parts could result in wheel breakage.

9. NEVER use tool with wood cutting blades or other saw blades. Such blades when used on a grinder frequently kick and cause loss of control leading to personal injury.

10. Hold the tool firmly.

11. Keep hands away from rotating parts.

12. Make sure cord is clean. Do not wrap cord around your arm or wrist. If tool is out of control, cord may become wrapped around you and cause personal injury.

13. Make sure the wheel is not contacting the workpiece before the switch is turned on.

14. Before using the tool on an actual workpiece, let it run for a while. Watch for vibration or wobbling that could indicate poor installation or a poorly balanced wheel.

15. Use the specified surface of the wheel to perform the grinding.

16. Watch out for flying spark. Hold the tool to let the spark fly away from you and other persons for flammable materials.

17. Do not leave the tool running. Operate the tool only when hand-held.

18. Do not touch the workpiece immediately after operation; it may be extremely hot and can burn your skin.

19. Always wear proper apparel including long sleeve shirts. Leather gloves and shop aprons to protect skin from contact with not grinding.

20. Use of this tool to grind or cut some products. Paints and wood could expose user to dust containing hazardous substance. Use appropriate respiratory protection.

## SAVE THESE INSTRUCTIONS

### WARNING:

**MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.**

### SYMBOLS

The following show the symbols used for the tool.

V-----voltage

n-----no load speed

A-----ampere

--/min -----revolutions or reciprocation per minute

Hz---hertz



Fig1

### Operation instructions:

Installing or removing grinding wheel.

To install the wheel guard and retaining plate on the front cover, then align the three holes of retaining plate with front cover screw holes, finally use the three screws to tighten it.

### Installing or removing grinding wheel

Caution:

When using an abrasive cut-off wheel, be sure to use only the supplied wheel guard,



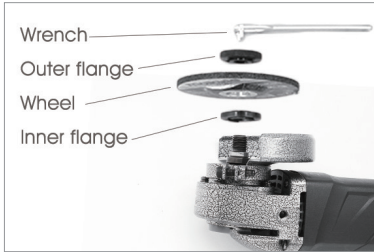


Fig2



Fig3



Fig4



Fig5

inner flange, look nut designed for use with cut-off wheels.(Fig 1)

1.Mount the inner flange onto the spindle. Fit the wheel/disc on the inner flange and screw the outer flange onto the spindle (Fig 2).

2.To tighten the outer flange. Press the shaft lock firmly so that the spindle cannot revolve, then use the lock nut wrench and securely tighten clockwise. (Fig 3).

3.To remove the wheel, follow the installation procedure in reverse.

**Notice:**

The groove of INNER FLANGE must align the flatness of spindle when you install the wheel and tighten enough.

**Side grip**

**Caution:**

Always be sure that the side grip is installed securely before operation.

The both sides of tool's head are designed with two screw holes to assemble the grip side.

Screw the side grip securely on the position of the tools as shown in the Fig 4.

Hold the side grip firmly by hand and you will control the tool better.

**Switch action**

**Caution:**

Before plugging in the tool, always Check the shaft lock in the "off" position twice.Switch can locked in "ON" position for ease of operator comfort during extended use. Apply caution when locking tool in "ON" position and maintain firm grasp on tool.

To start the tool, simply only press the switch trigger. For continuous running press the switch trigger and then depress the self lock button.

To stop the tool, release the switch trigger to freely. (Fig5)

### Maintenance and Daily care

#### CAUTION:

Always be sure that the tool is switch off and unplugging before attempting to perform inspection and maintenance.

1.The tool and its air vents have to be kept clean, regularly clean the tool's air vents or whenever the vents start to become obstructed.

2.Usually check the all screws if loosened or not.

3.Usually check the cord insulation if broken or not.

#### CAUTION:

Be sure to reinstall the knob after inserting new carbon brushes.

After replacing brushes, plug in the tool and break in brushes by running tools with no load for about 10 minutes. Then check the tool while running, when releasing the switch trigger. If the tool is not working well ask your local MAKUTE service center for repair.

To maintain product SAFETY and RELIABILITY, repairs, any other maintenance or adjustment should be performed by MAKUTE Authorized or Factory service centers, always using MAKUTE replacement parts.

Effective and safe operation for Grinding and sanding

Always hold the tool firmly with one hand on housing and the other on the side handle, turn the tool on and then apply the wheel or disc to the workpiece.

1.The users can get satisfied effects if the users give 1/2 strength compared with the own weight of the tool. Over strength is easy

to make the tool engine an abrasive wheel damaged because of overload.

2.Generally speaking, please keep the grinding and cutting part of the wheel and disc in the scope of 15 to 30 degree with the surface of processing object. (Fig 6)

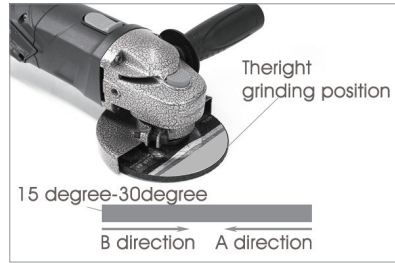


Fig6

3.In general operation, you should start first then work. In reverse you should leave workpiece then stop.

### Replacing carbon brushes

1.Remove and check the carbon brushes regularly. Replace when the tool occurs obvious sparks or wear down to the limit mark.

2.Both carbon brushes should be replaced at the same time.

3.Use a screwdriver to remove the handle cover and take out the worn carbon brushes, insert the new ones and secure the brush holder assembly.

