



[www.tehtools.com](http://www.tehtools.com)

Rotary Sander

**TS12524**

To Be Your Exclusive Helper



**TEH**



## TECHNICAL SPECIFICATION

Model	TS12524
Rated voltage	220V
Rated frequency	50Hz
Rated input power	240w
No-load speed	12000r/min
Sand disc size	125mm/5"

## COMPONENTS AND ACCESSORIES



### Accessories included:

- 1 instruction manual
- 1 sandpaper
- 2 spare carbon brushes

## SAFETY INSTRUCTIONS

### WARNING ⚠

Read all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or other serious injury. The term "power tools" in all of the warnings listed below refers to mains-operated (corded) power tool or battery operated (cordless) power tool.

### WORK AREA

- a) Keep work area clean and well lit. Cluttered and dark areas invite accidents.
- b) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- c) Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

### ELECTRICAL SAFETY

- a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- b) Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- c) Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tools. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increases the risk of electric shock.
- e) When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.

## PERSONAL SAFETY

- a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- b) Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce the risk of personal injuries.
- c) Avoid accidental starting. Ensure the switch is in the off-position before plugging in. Carrying power tools with your finger on the switch or plugging in the power tools that have the switch on invites accidents.
- d) Remove any adjusting key or wrench before turning the power tool on. A wrench or a key to a rotating part of the power tool may result in personal injury.
- e) Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- f) Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of these devices can reduce dust related hazards.

## POWER TOOL USE AND CARE

- a) Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- b) Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c) Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.






- d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- e) Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts, breakage or parts and any other condition that may affect the power tools operations. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- f) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from intended could result in a hazardous situation.

## ELECTRICAL SAFETY

- a) Tool service must performed only by qualified personnel. Service or maintenance performed by unqualified personnel could result in risk of injury.
- b) When servicing a tool, use only identical replacement parts. This will ensure that the safety of the power tool is maintained.

## IMPORTANT NOTE

### SYMBOLS

-  Read the manual
-  Warning
-  Wearing protection
-  Double insulation
-  WEEE marking

### SANDPAPER SELECTION

Selecting the correct size grit and type sandpaper is an extremely important step in achieving a high quality sanded finish. Aluminum oxide, silicon carbide, and other synthetic abrasives are best for power sanding. Natural abrasives, such as flint and garnet are too soft for economical use in power sanding. In general, coarse grit will remove the most material and finer grit will produce the best finish in all sanding operations. The condition of the surface to be sanded will determine which grit will do the job. If the surface is rough, start with a coarse grit and sand until the surface is uniform. Medium grit may then be used to remove scratches left by the coarser grit and finer grit used for finishing of the surface. Always continue sanding with each grit until surface is uniform

### WARNING

**Do not use sander without sandpaper. Doing so will damage the cushion.**

## OPERATION INSTRUCTION

### PRIOR TO SANDER OPERATION

- During operation hold the sander firmly with both hands.
- Ensure the abrasive paper does not touch processed material prior to switching the sander on.
- Ensure the abrasive paper is well installed before switching the sander on.
- Do not touch moving parts of the sander.
- After switching off, do not put away the sander until all moving parts stop.
- Use protective mask if the dust appears during sanding. Dust, which appears when sanding surfaces coated with lead-based paint, some types of wood and metal, is harmful.
- Pregnant women and children should not enter the room where lead-based paint is removed with the use of sander.
- Do not eat, drink or smoke in the room where lead-based paint is removed with the sander.
- Avoid using long extension cords.

### WHEN OPERATING THE SANDER

- Wear earmuff protectors and protection half-mask always when using the sander.
- Sander is not designed for wet operation.
- Ensure the switch is in the OFF position before plugging the sander to power supply.
- Keep the power cord away from moving parts of the sander.
- Use safety goggles or glasses when operating the sander above head.
- When operating the sander do not apply excessive pressure that might stop the tool.

**CAUTION** ▲

**This device is designed to operate indoors.**

**The design is assumed to be safe, protection measures and additional safety systems are used, nevertheless there is always a small risk of operational injuries.**

## CONSTRUCTION AND USE

Orbital sanders are hand-operated power tools with insulation class 11. Tools are driven by single-phase commutator motors. Orbital sander is designed for sanding and polishing surfaces of wood, metal, plastic and similar materials, with the use of sanding paper with appropriate gradation. Range of use covers repair and building works, and any work from the range of individual, amateur activities (tinkering).

**Do not use the sander for sanding surfaces that contain magnesium or asbestos, or covered with gypsum.**

## PREPARATION FOR OPERATION

### Choosing sanding paper

Coarse grained sanding paper is used for coarse processing of most materials, while fine-grained paper is used for finishing works.

- When the surface is not flat, start the work with coarse grained sanding paper and continue until the surface is flat.
- Next use middle grained paper to remove traces of coarse processing .
- To finish the work use fine: grained sanding paper.

### Installing sanding paper

Orbital sander is equipped with pad with so called hook-and-loop and only perforated sanding paper of appropriate size should be used.

- Put the sanding paper close the sander backing pad

- Place the paper so its (a) holes match holes on the sander backing pad.
- Press the sanding paper against the backing pad.
- Ensure that the holes on the sanding paper and backing pad fully match; it ensures possibility of dust extraction,

The dust bag is located in a plastic case. In order to empty it, the lower section of the plastic case must be slid down, the dust bag must be taken out of its mount and its contents can be disposed of. The dust bag must be fastened in the reverse order to the disassembly.

## OPERATION/SETTINGS

### SWITCHING ON/SWITCHING OFF

The mains voltage must match the voltage on the rating plate of the sander.

Switching on - set the switch button to position I.

Switching off - set the switch button to position O.

### ORBITAL SANDER OPERATION

- Whole area of backing pad must rest on the processed surface.
- Turn the sander on and apply moderate pressure; move it on the processed material in circular movements, in transverse or lengthwise direction.
- For coarse processing use sanding paper with coarse grain, for finishing processing use fine-grained paper. It is best to match the type of sanding paper by trials and errors.
- When finishing polishing, reduce pressure, lift the sander above the processed surface and only after that switch the tool off.

## MAINTENANCE

Unplug the power cord from the mains socket before commencing any activities related to installation, adjustment, repair or maintenance.

- Always keep the sander clean.
- Remember to always keep the ventilation holes of the sander casing pervious.
- Never use any caustic agents for cleaning plastic parts.
- In case of excessive commutator sparking check technical condition of carbon brushes of the motor.

### REPLACEMENT OF BACKING PAD

Damaged backing pad must be replaced immediately.

Unscrew four screws that fix the backing pad.

Remove and replace the backing pad.

Screw the fixing screws.

### REPLACEMENT OF CARBON B BRUSHES

Replace immediately used up (shorter than 5 mm), burnt or cracked motor carbon brushes. Always replace both brushes at a time.

Entrust replacement of carbon brushes only to a qualified person. Only original parts should be used.

All faults should be repaired by service workshop authorized by the manufacturer.

## WARRANTY CARD

Dear customers, the warranty service for purchasing TEH products is as follows:

**Under normal use, the wear of the rotor steering gear is less than 0.2 mm within three months from the date of purchase. It is guaranteed that the damage is caused by the quality of the tool.**

The following conditions occur during the warranty period, not covered by the warranty:

- Any valid legal document (single ticket) certifying the date of purchase
- Any damage caused by natural wear and overload
- Any damage caused by the use of low-priced inferior accessories
- Any damage caused by improper carrying, transportation or storage
- Any product that has been opened, repaired, replaced, or modified by itself
- Any damage caused by misuse, beyond the scope of use of the tool, and failure to use and maintain in accordance with the instructions.

-----  
 ladies/gentlemen : \_\_\_\_\_ employer : \_\_\_\_\_

contact number : \_\_\_\_\_ fax number : \_\_\_\_\_

contact address : \_\_\_\_\_

warranty record : \_\_\_\_\_

post code : \_\_\_\_\_

### IMPORTANT NOTE

- The invoice and warranty card must be presented at the time of warranty.
- The fuselage number on the invoice is the same as the fuselage number on the warranty card.
- Once this warranty card is issued, if it is lost, it will not be reissued. Please keep it properly.

Note: The company reserves the right to amend the above provisions and has the final interpretation right in the case that the warranty service does not violate national laws.