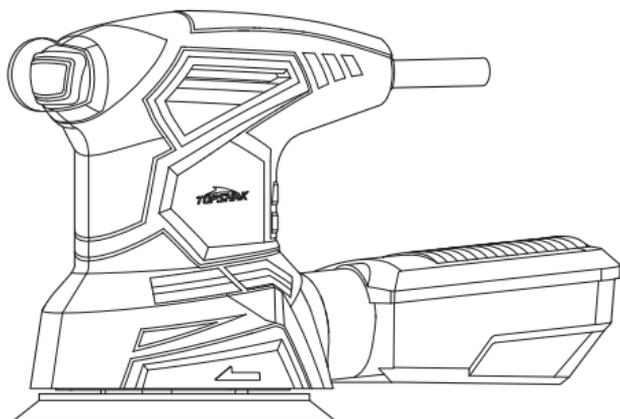


User Manual

TS-SD4



Leading new generation tool

Contents

Before you begin	01
Safety	02-06
Your machine at a glance	07
Specifications	07
Fitting the sanding sheet	08
Operation	08
Cleaning	09
Malfunctions and troubleshooting	09
Disposal	10

Before you begin...

Intended use

The unit is designed exclusively for non-commercial use to dry sand wood, metal, plastic, plaster and varnished surfaces.

The appliance is not suitable for sanding plaster-based substrates. This product is not intended for commercial use. Generally acknowledged accident prevention regulations and enclosed safety instructions must be observed.

Only perform work described in these instructions for use. Any other use is improper. The manufacturer will not assume responsibility for damage resulting from such use.

Danger notices and information are clearly marked throughout these instructions for use. The following symbols are used:

What are the meanings of the symbols used?

Danger notices and information are clearly marked throughout these instructions for use. The following symbols are used:



DANGER! Direct danger to life and risk of injury!

Directly dangerous situation that may lead to death or severe injuries.



WARNING! Probable danger to life and risk of injury!

Generally dangerous situation that may lead to death or severe injuries.

CAUTION! Possible risk of injury! Dangerous situation that may lead to injuries.



NOTICE! Risk of damage to the device! Situation that may lead to property damage.



Note: Information to help you reach a better understanding of the processes involved.

These symbols identify the required personal protection equipment:



For your safety

General safety instructions

- To operate this device safely, the user must have read and understood these instructions for use before using the device for the first time.
- If you sell or pass the device on, you must also hand over these operating instructions.

General power tool safety warnings



WARNING! Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference. The term power tool in the warnings refers to your mains operated (corded) power tool or battery operated (cordless) power tool.

Work area safety

- Keep work area clean and well lit. Cluttered and dark areas invite accidents.
- 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.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

Electrical safety

- 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.
- 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.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- 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.
- If operating a power tools in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

Personal safety

- **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.
- **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.
- **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- **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.
- **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

- **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.
- **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.
- **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
- **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- **Use the power tool, accessories and tool bits etc. in accordance with**

these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

Service

- Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

Safety information for random orbital sanders

- This electrical tool is to be used as a sander. Observe all safety information, instructions, illustrations and data you receive with the electrical tool. Non-observance of the following instructions can lead to electric shock, fire and/ or serious injuries.

- Do not use any accessory that has not been provided and recommended by the manufacturer specially for this electrical tool. Just because the accessories can be fixed on your electrical tool, no secured use is ensured.

- Use the electrical tool for dry sanding only. The risk of electric shock increases if water penetrates an electrical product.

- **Warning - risk of fire! Avoid overheating of the sander and the material being processed. Always empty the dust container before breaks.** Grinding dust in the dust container (or in the filter of the suction unit) can automatically ignite in unfavourable conditions.

- **Inform yourself with regard to the surface to be sanded and the dusts and vapours potentially arising. If in any doubt, do not inhale even small amounts of arising dusts or vapours.** Harmful/toxic dusts may arise when sanding certain surfaces (various metals, minerals or woods as well as weather protection coatings), which can cause severe allergic reactions or serious illness. Do not inhale these dusts and vapours and avoid contact. Materials containing asbestos may only be processed by specialists.

Special safety notes regarding sandpaper sanding

Do not use over dimensioned sanding sheets, instead following the manufacturer's instructions regarding size. Sanding sheets that protrude beyond the sanding plate may cause injuries, jamming and tearing of the sheets or cause kickback.

Special safety notes regarding polishing

Do not permit parts of the polishing hood to be loose, in particular, fixing cords. Conceal or shorten fixing cords. Loose, rotating fixing cords may catch your fingers or get trapped in the work piece.

Additional safety information

- **Prevent uncontrolled starting up.** Switch the product off or pull out the plug if the power supply is interrupted, e.g. due to a power failure.
- **Secure the workpiece.** The workpiece can be protected from rebounding or from being flung away uncontrollably by a clamping mechanism or a vice (e.g. if the tool becomes jammed).
- **Keep the workplace clean.** Mixed contamination by different substances is particularly dangerous. Light metal dust (e.g. aluminium) can easily ignite or explode.
- **Do not use the electrical tool with a damaged cable. Never touch a damaged cable and immediately pull out the plug.** Damaged cables increase the risk of electric shock.
- **Avoid overheating the device and workpiece.** Excess heat can damage both tool and product.
- **Keep the handles dry and free from grease.** Slippery handles can cause accidents.
- **Always heed the applicable national and international safety, health and labour regulations.** Before commencing work, inform yourself regarding the regulations valid at the location where the product is to be used.
- **Remember that moving parts may also be located behind ventilation and venting slots.**
- **Symbols appearing on your product may not be removed or covered.** Information on the product that are no longer legible must be replaced immediately.



Read and observe the operating instructions before commissioning.

Dust extraction

Dusts from materials such as lead-containing paint, some types of wood, minerals and metal may be harmful to health. Touching or inhaling the dusts can cause allergic reactions and/or ailments of the respiratory tract of the user or persons in the vicinity. Certain dusts such as oak or beech dust are considered carcinogenic, particularly in combination with wood treatment additives (chromate, wood preservatives). Materials containing asbestos may only be processed by experts.

- Always use a dust extraction facility.
- Make sure the workplace is well ventilated.
- Always wear a dust protection mask. We recommend wearing a dust protection mask which meets filter class P2.
- Observe the regulations valid in your country for the materials to be processed.

Risks caused by vibrations



CAUTION! Risk of injury due to vibrations! Vibrations may, in particular for persons with circulation problems, cause damage to blood vessels and/or nerves.

If you notice any of the following symptoms, stop working immediately and consult a doctor. Numbness of body parts, loss of sense of feeling, itching, pins and needles, pain, changes in skin colour.

The vibration values specified in the technical data represent the main uses of the device. The actual existing vibrations during use may deviate from these as a result of the following factors:

- Incorrect use of the product;
- Unsuitable tools inserted;
- Unsuitable material;
- Insufficient maintenance.

You can reduce the risks considerably by following the tips below:

- Maintain the device in accordance with the instructions in the operating instructions.
- Avoid working at low temperatures.
- When it is cold, make sure your body and your hands, in particular, are kept warm.
- Take regular breaks and move your hands at the same time to promote circulation.

Personal safety equipment



Wear a dust protection mask when the work develops a lot of dust.



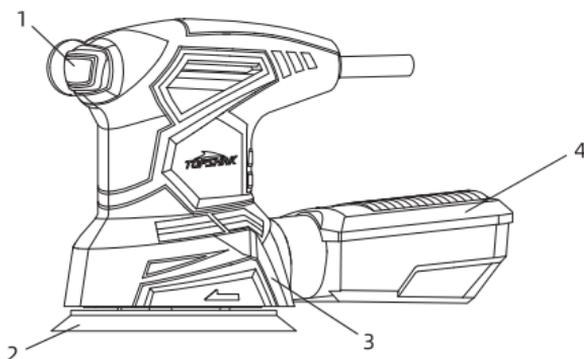
Wear protective glasses when using abrading equipment.



Wear hearing protection.

Your machine at a glance

1. On/Off switch
2. Sanding plate
3. Outlet piece
4. Dust collection box



Specifications

Model	TS-SD4
Voltage	120V~ 60Hz
Power	2.0A
No-load Speed	6000-12000 r/min
Sanding Pad Size	5inch
length of cable	2m with UL plug
Protection type	IP20
Standard accessories	dust box sander paper x20pcs,
Acoustic power (LWA)*	85,7 dB(A) (K = 3 dB(A))
Acoustic pressure (LPA)*	74,2 dB(A) (K = 3 dB(A))
Vibration	ah = 4,286 m/s ² (K = 1,5 m/s ²)

Fitting the sanding sheet



Note: Both perforated and unperforated sanding sheets can be used. Dimensions:

► Technical data – p. 7

The sanding sheet is fixed by means of a hook/loop connector.

- Position the sanding sheet carefully and press it down onto the sanding plate.



Note: Scope of use:

- For cleaning, deburring, smoothing, and sanding metal, wood, and plastic surfaces.

- Effective removal of corrosion and surface contamination. Finish on metal surfaces. Smoothing wood surfaces, removal of wood fibres before and after priming.



Note: If the machine is operated together with a dust extractor, perforated sanding sheets must be used.

Position perforated sanding sheets so that the holes in the sanding plate and the sanding sheet coincide.

Operation



Check before switching on!

Check the safe condition of the appliance:

- Check it for visual defects.
- Check that all parts of the machine have been securely fitted.
- Make sure that the On/Off switch is not locked in position.

Switching on/off

- Press the On/Off switch (1) to switch the appliance on.
- Press the On/Off switch to switch the appliance off.

Grinding/sanding

- Clamp the work piece or hold it tightly.
- Switch the appliance on and press with even pressure on the surface to be sanded.



DANGER! Attention – danger of injury! The machine must only be used for dry sanding.



Note: When working vertical surfaces, hold the device in such a manner that the dust sack faces downward.



Note: Excess pressure does not result in improved sanding performance, but increases the wear on the appliance and the sanding sheet.

Cleaning

Overview of cleaning

Regularly, depending on conditions of use

What to?	How to?
Remove all dust from the ventilation slits of the motor	Use a vacuum cleaner or a brush.
Clean the machine.	Wipe the unit with a slightly damp cloth

Malfunctions and troubleshooting

In the event of a malfunction...



DANGER! Attention - danger of injury!

Improperly conducted repairs may prevent your machine from working safely. Such repairs will endanger you and your surroundings.

Malfunctions are often caused by minor faults. You can easily remedy most of these yourself. Please consult the following table before contacting the vendor. You will save yourself a lot of trouble and possibly money too.

Fault/malfunction	Cause	Remedy
Appliance is not running.	Appliance is faulty?	Contact your local vendor.
	Sanding sheet unsuitable for the material?	Replace the sanding sheet (► Fit-ting the sanding sheet - p. 8).
Sanding performance insufficient.	Sanding sheet worn?	

If you can't fix the fault yourself, contact your nearest vendor. Please be aware that any improper repairs will also invalidate the warranty and additional costs may be incurred.

Disposal

Disposal of the appliance



Appliances which are labelled with the adjacent symbol must not be disposed of in household waste. You must dispose of such old electrical and electronic equipment separately

- Please check with your local authority about the possibilities for correct disposal.

Through separate disposal you send old equipment for recycling or for other forms of re-use. You will thus help to avoid in some cases that damaging material gets into the environment.



Disposal of the packaging

The packaging consists of cardboard and correspondingly marked plastics that can be recycled.

- Make these materials available for recycling.

*) The specified values are emission values and do not necessarily represent safe workplace values. Although there is a correlation between emission and immission levels, this cannot be used to infer whether additional safety measures are necessary or not. Factors which affect the current immission levels at the workplace, include the type of room, other sources of noise, e. g. the number of machines operating and other processes taking place in the vicinity. Permitted workplace values can differ from country to country. This information is designed to help the user to better assess the dangers and risks.

Determination of noise emission values in accordance with EN 60745-1.

**) The specified vibration emission value was measured in accordance with a normed test procedure and can be used in order to compare one tool with another. The specified vibration emission value can also be used for an introductory evaluation of the exposure. The vibration emission value may fluctuate from the specified value during actual use of the power tool. These fluctuations will depend on the way in which the power tool is used. Try to keep vibrations to a minimum. One method of reducing the vibration load is, for example, limiting the length of time you work with the tool. All parts of the operating cycle must be taken into account for this purpose (for example, also including times in which the power tool is switched off and times in which it is switched on, but is running without load). Determination of vibration emission values in accordance with EN 60745-1.



MADE IN CHINA

