

Operation Manual

Reciprocating Saw

61076



Illustration similar, may vary depending on model

Read and follow the operating instructions and safety information before using for the first time.

Technical changes reserved!

Due to further developments, illustrations, functioning steps, and technical data can differ insignificantly.

Updating the documentation

If you have suggestions for improvement or have found any irregularities, please contact us.



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If you should find a mistake or wish to make a suggestion for improvement, we look forward to hearing from you.

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Introduction

Thank you for purchasing this quality product. **To minimise the risk of injury we urge that our clients take some basic safety precautions when using this device. Please read the operation instructions carefully and make sure you have understood its content.**

Keep these operation instructions safe.



Read the operating manual thoroughly before using the reciprocating saw.



When working with the reciprocating saw, wear protective glasses.

Field of application

Proper use

This product is a hand-guided power tool, which can saw various materials, due to the lifting motion of a single-sided fixed sawing blade. Tight corners and wavy lines can be sawn into thin sheets or boards. Wood, metal, plastic, and other similar materials stated in the manual can be processed. In the pendulum stroke operation (optional), the saw blade oscillates back and forth, this enables the saw dust to be ejected better. Only saw blades which have been authorised by the manufacturer, as stated in the operating manual, may be used.

Improper use

All purposes of the device, which are not stated in the chapter "Proper use," are regarded as a not proper use of the device.

The device must **not** be used for the following purposes:

- sawing firewood,
- processing materials containing asbestos or other hazardous materials.

For all material damage as well as personal injury, which occurs due to misuse, resulting from this, the operator of the device is liable. When using other/not original parts, the warranty of the device given by the manufacturer will expire.

Residual risks

Even when using the device properly, there is a certain residual risk, which cannot be entirely excluded. With this type and design of device, the following potential dangers can derive:

- injuries from cuts with contact with the unprotected part of the saw blade,
- injuries from cuts with ejected broken parts of the saw blade,
- thrusts with work pieces being re-percussed and ejected,
- loss of hearing ability without a necessary hearing protection when working,
- electric shock with contact with electrical currents due to broken or damaged (e.g., sawn) supply cables, motor casing,
- emissions of harmful saw dust.

If the instructions contained in this operating manual are not followed, other risks can occur due to improper operation.



Description of the device

Technical data

Type	M1 W-DD16–115
Rated voltage (V)	230–240
Frequency (Hz)	50/60
Power consumption (W)	710
Idle speed (stroke/min)	0–2500
Saw blade stroke (mm)	20
Insulation	Protection class II
Max. cutting depth (wood) (mm)	115
Accessories	1 × electric reciprocating saw 1 × saw blade 125 mm (for cutting wood) 1 × saw blade 85 mm (for cutting metal)
Weight (kg)	2.45

Information on reducing vibrations

Warning: The actual existing vibration emission during the use of this device can be caused by the following factors, which should be regarded before and during use:

- Is the device used correctly?
- Is the type of material processed correctly?
- Is the condition of use of the device correct?
- Are the handles/vibration handles mounted and are they tightened to the machine casing?

If you have an unpleasant feeling or notice a discolouration of the skin on the hands during the use of the device, immediately stop working. Take sufficient work breaks. If work breaks are insufficient, a hand-arm-vibration syndrome (HAVS) can occur.

An estimation should be made regarding the work and use of the machine and according breaks should be taken. This way, the degree of strain during the entire work time can be reduced noticeably. Minimise the risk of being exposed to vibration. Maintain the machine according to the instructions in this manual.

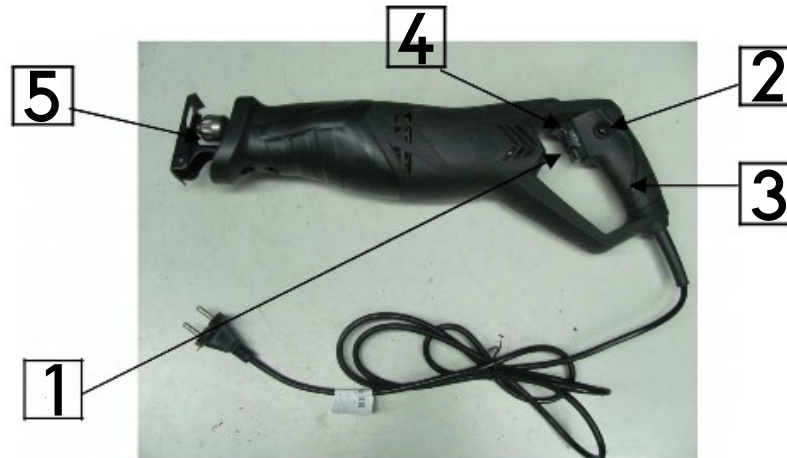
If the machine should be used more frequently, you should contact the seller for anti-vibrational equipment.

Avoid the use of this machine with temperatures of 10 °C or less. Create a work plan to reduce the strain of the vibration on the operators.

Information on reducing noise

A certain amount of noise from this device is not avoidable. Schedule noise-intense work for hours and places, which allow this. Comply to potentially existing hours of quietness and limit the work duration to the maximum requirements. For personal safety and safety of people in proximity, a suitable hearing protection needs to be worn.

Main components



No	Name	No	Name
1	On/off switch	4	Speed control
2	Locking knob	5	Chuck
3	Handle		

Safety instructions

General safety notes for electric tools

⚠ Warning! Read all safety notes and instructions. Non-compliance with the safety notes and instructions can lead to electric shock, fire and/ or serious injury.

Keep all safety notes and instructions for future reference. The term “electric tool” used throughout this manual refers to wired electric tools (with electricity cable).

Working area safety

- **Keep the working area clean and well lit.** Cluttered/untidy or badly illuminated working areas can lead to accidents.
- **Do not work in explosion endangered areas, which contain burnable substances, gases, or dusts with this electric tool.** Electric tools create sparks, which can ignite dusts or vapours.
- **Keep children and other people away when working with the electric tool.** Distractions can lead to loss of control.

Electric safety

- **The connector plug of the electric tool needs to fit into the socket. The plug must in no way be altered! Do not use any adapters together with earthed electric tools.** Unaltered plugs and matching sockets reduce the risk of electric shock.
- **Avoid body contact with earthed surfaces such as pipes, radiators, cookers, and refrigerators.** There is an increased risk of electric shock, when your body is touching an earthed object.
- **Keep electric tools away from rain or dampness.** Water entering an electric tool increases the risk of electric shock.




- **Do not use the cable for other purposes, such as carrying, hanging or pulling the device from the socket. Keep the cable clear from heat, oil, sharp edges or moving parts.** Damaged or twisted cables increase the risk of electric shock.
- **When working with an electric tool outside, only use extension cables suitable for the outside area.** The use of an extension cable suitable for the outside area reduces the risk of electric shock.
- **If the use of the electric tool in a damp room is not avoidable, use a fault-current circuit breaker.** The use of a fault-current circuit breaker decreases the risk of electric shock.

Personal safety

- **Be aware and focus on what you are doing and always act responsible when working with an electric tool. Do not use electric tools if you are tired, under the influence of drugs, alcohol, or medical substances.** One moment of inattentiveness can lead to serious injury.
- **Always wear personal protective gear and protective glasses.** Wearing a personal protective gear, such as a dust mask, slid-proof safety shoes, a protective helmet and hearing protection, depending on the type and use of the electric tool, reduces the risk of injury.
- **Avoid an accidental operation. Ensure, that the electric tool is switched off before connecting it to the electricity supply or carrying it.** When your finger is located on the switch whilst carrying it or the device is connected to the electricity supply, this can lead to accidents.
- **Remove the adjustment tools or wrench before turning the device on.** A tool or wrench, which is in a moving part can cause injury.
- **Avoid unnatural body postures. Ensure a secure positioning and always keep your balance.** This allows you to handle the electric tool better in an unexpected situation.
- **Wear suitable clothing. Do not wear loose clothing or jewellery. Keep hair, clothing, and gloves away from moving parts.** Loose clothing, jewellery or long hair can get caught in moving parts.
- **If the vacuum cleaner and collection system can be mounted, ensure that these are connected and used properly.** Using a vacuum cleaner can decrease the danger from dust.

Use and treatment of the electric tool

- **Do not overburden the device. Solely use it for the purpose for which the device was designed.** A matching electric tool, allows the work to be carried out better and safer in the stated power range.
- **Do not use an electric tool with a broken switch.** An electric tool, which can no longer be switched on or off is dangerous and needs to be repaired.
- **Pull the plug from the socket before carrying out any adjustments to the device, exchanging parts or placing the device somewhere else.** This measure prevents the device from starting accidentally.
- **Store unused electric tools out of reach of children. Do not let people, who are not familiar with the device or have not read and understood the instructions operate this device.** Electric tools are dangerous if used by inexperienced people.
- **Maintain electric tools with care. Check, whether moving parts work impeccably and do not jam or if parts are broken or damaged, in a way that affects the function of the electric tool. Have damaged parts repaired immediately before using the device.** A lot of accidents are caused by badly maintained electric tools.
- **Keep cutting tools sharp and clean.** Well maintained cutting tools with sharp blades jam less and thus are easier to control.
- **Use electric tools, equipment, insertion tool, etc. according to this instruction. Always regard the working conditions and work needing to be carried out.** The use of the electrical tools for purposes, other than those described in this manual can lead to dangerous situations.
- **Only have your tools repaired by a qualified technician with original spare parts.** This way, the safety of the tool stays maintained.

 **Further safety notes for reciprocating saws**

- **Wear a dust mask.** Inhaling dust is a danger for the operator or by-standing people.
- **Hold the isolated handles of the device, when carrying out work, during which the tool can hit hidden electricity lines or the own electricity cable.** Contact with a live wire can put metal device parts under voltage and can lead to electric shock.

Other important safety notes

Thoroughly read the operating manual and keep it for future reference.

- The reciprocating saw may only be connected to a domestic socket with 230–240 V tension.
- Never leave children unattended when handling electric devices!
- When children are present, you should work especially careful.
- Place the reciprocating saw in a safe area, out of reach of children, after finishing the work.
- The device and the supply line must never touch hot surfaces or open fires.
- Before changing the saw blade, the electricity plug needs to be disconnected.
- After every use, but in any case, before cleaning, please unplug the electricity plug from the socket. The same applies to any form of malfunction, which might occur during operation.
- The device must never come into contact with water or other liquids, it may only be wiped with a dry cloth or soft brush.
- When working with the reciprocating saw, we recommend to wear safety glasses for safety reasons.
- Before connecting the device to the electricity supply, please ensure that it is switched off.

Operating manual for the electric reciprocating saw

Use

The reciprocating saw can be used for wood, plastic, plasterboards, and metals. Ensure that the mains voltage complies with the stated voltage of the type label of the device.

Changing the saw blade

Before every work on the device and when changing the saw blade, turn the saw off and unplug the plug from the socket. Turn the ring **(a)** at the saw blade intake **(6)**, as seen in Fig. 2, until the saw blade **(b)** can be pushed into the slot of the saw blade intake **(6)**. Let go of the ring **(a)**, it should go back into its starting position. If this is not the case, try to place the ring **(a)** back into its position. Now, check whether the saw blade stays in the intake by carefully pulling it.



Turning the device on/off

On: Push the switch, then the self-blocking button and release the switch.

Off: Push the switch and release it again.

Speed setting

Preselect the rotation speed with the wheel disk:



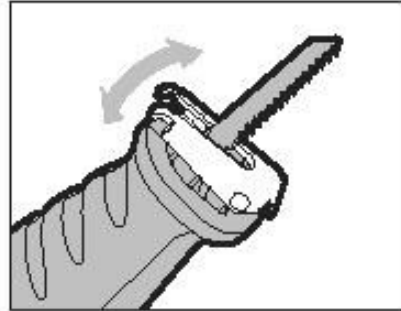
= decrease speed
 = increase speed

The more the button is turned in + direction, the higher the rotation speed. The speed can be adjusted stepless, to the required speed.

Adjusting the limit stop

Adjust the limit stop, to limit the cutting length and use the entire length of the saw blade economically.

To adjust the limit stop, hold the reciprocating saw and position the limit stop in the required position. Always keep the limit stop pushed against the work piece.



Sawing wood (Fig. H)

The workpiece needs to be secured or clamped down when working on it, so that it cannot slide away. Start with a low speed and increase it to the final speed; this allows a better control over the tool.



Cutting metals (Fig. I)

Dependent on the used saw blade as well as the material needing to be cut, the saw can also cut various metals.

The tool needs to be clamped **for all work** carried out, so that it cannot slide. Use a blade with fine teeth for iron metals and a coarse toothed blade for non-iron metals.

Always clamp thin metal sheets between two pieces of wood. This allows for straight cuts to be made and avoids strong vibration or the material from warping.

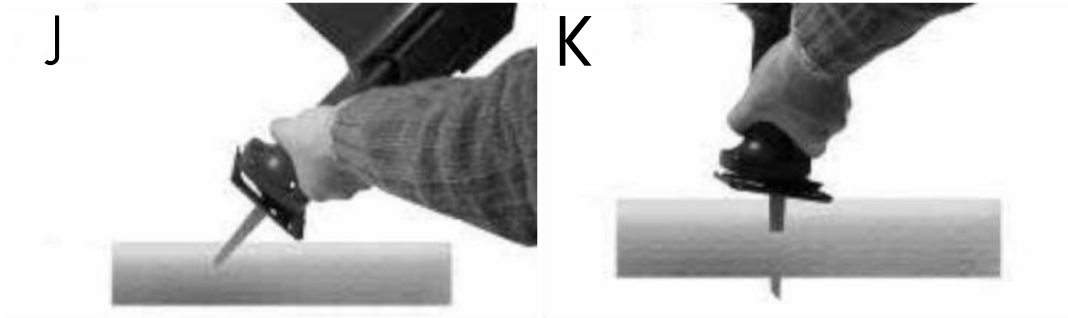
Never use force when sawing thin metal sheets. Too much force shortens the service life of the saw blade and can make the saw blade break.

Note: It is recommended to use some oil or other coolants on the cutting line with the saw blade. This will make the cutting easier and protects the saw blade. When cutting aluminium, use some kerosene.



Plunge cuts (only for soft materials, not metals!) (Fig. J and K)

Mark the section. Place the special blade into the intake, with the teeth pointing downward and secure it. Place the saw blade with its back on the surface needing to be cut. Start with a lower stroke speed and then increase the speed, as soon as the saw engages. Push the saw blade guard firmly against the surface and turn the saw blade upward carefully. The saw blade will work through the material. Ensure, that the material is properly separated, before sawing the remaining pocket.



Problem solution

- Choose suitable saw blades regarding the material needing to be cut and its thickness.
- The quality of the sawing will increase, if the number of the saw blade is increased.
- Ensure to have a firm grip on the workpiece.
- Support the big panel near the cutting line.
- Moving of the workpiece can have an impact on the quality of the sawing.

Maintenance

 **Before carrying out any work on the device,
the electricity plug needs to be disconnected from the socket!**

- Clean the device with a slightly damp cloth. Then dry it off thoroughly. A lot of cleaning detergents contain chemical substances, which can be harmful towards the plastic parts of the device. Never use petrol, turpentine, solvents, or similar products.
- Keep your tools sharp and clean, to be able to work better and safer. Do not open the device! Give it to a qualified technician, in case it is broken, damaged, or malfunctioning.
- Switch the device off and remove the electricity plug if the connection cable is damaged. If the power cord of this device has been damaged, it needs to be replaced with a special power cord by a qualified technician.

Disposal regulations

EU guidelines regarding the disposal of scrap electric appliances (WEEE, 2012/19/EU) were implemented in the law related to electrical and electronic equipment and appliances.

All WiTec electric devices that fall under the WEEE regulations are labelled with the crossed-out wheeled waste bin logo. This logo indicates that this electric equipment must not be disposed with the domestic waste.

The company WiTec Technik GmbH has been registered in the German registry EAR under the WEEE-registration number DE45283704.

Disposal of used electrical and electronic appliances (intended for use in the countries of the European Union and other European countries with a separate collection system for these appliances).

The logo on the article or on its packaging points out that this article must not be treated as normal household waste but must be disposed to a recycling collection point for electronic and electrical waste equipment. By contributing to the correct disposal of this article you protect the environment and the health of your fellow men. Environment and health are threatened by inappropriate disposal.



Material recycling helps reduce the consumption of raw materials.

Additional information on recycling this article can be provided by your local community, municipal waste disposal facilities, or the store where you purchased the article.

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