

LED	Capacity
Continuous lighting 3 x green	$\geq 2/3$
Continuous lighting 2 x green	$\geq 1/3$
Continuous lighting 1 x green	$< 1/3$
Flashing light 1 x red	Warning

Mounting the Protective Devices

Before any work on the machine itself (e. maintenance, tool change, etc. as well as during transport and storage, remove the battery from the power tool. There is danger of injury when unintentionally actuating the On/Off switch.

Note: After breakage of the grinding disc during operation or damage to the holding fixtures on the protection guard/power tool, the machine must promptly be sent to an after-sales service agent for maintenance. For addresses, see section "After sales Service and Application Service"

Protection Guard for Cutting

For cutting with bonded abrasives, always use the protection guard for cutting 10.

Provide for sufficient dust extraction when cutting stone.

Mounting the Grinding Tools

Before any work on the machine itself (e.g. maintenance, tool change, etc. as well as during transport and storage, remove the battery from the power tool. There is danger of injury when unintentionally actuating the On/Off switch.

Do not touch grinding and cutting discs before they have cooled down. The discs can become very hot while working.

Clean the grinder spindle and all parts to be mounted. For tightening or loosening the grinding tools, push the spindle lock button 2 forwards and simultaneously turn the grinding tool to fix the grinder spindle. **Actuate the spindle lock button only when the grinder spindle is at a standstill.** Otherwise, the machine may come damaged.

Grinding/Cutting Disc

Pay attention to the dimensions of the grinding tools. The mounting hole diameter must fit the mounting flange without play. Do not use reducers or adapters. When using diamond cutting discs, pay attention that the direction-of-rotation arrow on the diamond cutting disc and the direction of rotation of the machine (see direction-of-rotation arrow on the housing) agree. See graphics page for the mounting sequence.

After mounting the grinding tool and before switching on, check that the grinding tool is correctly mounted and that it can turn freely. Make sure that the grinding tool does not graze against the protection guard or other parts.

Disc Instal Instructions

Pull the half circle neck collar until it is stopped by the bolt. Put on the disc, use the wrench to tight the hex head.

Approved Grinding Tools

All grinding tools mentioned in these operating instructions can be used.

The permissible speed [min⁻¹] or the circumferential speed [m/s] of the grinding tools used must at least match the values given in the table.

Therefore, observe the permissible rotational circumferential speed on the label of the grinding tool.

Dust/Chip Extraction

Dust from materials such as lead-containing coatings some wood types, minerals and metal can be harmful to one's health. Touching or breathing-in the dust can cause allergic reactions and/or lead to respiratory infections of the user or bystanders.

Certain dust, such as oak or beech dust, is considered carcinogenic, especially in connection with wood treatment additives (chromate, wood preservative). Materials containing asbestos may only be worked by specialists.

Provide for good ventilation of the working place.

It is recommended to wear P2 filter-class respirator. Observe the relevant regulations in your country for the materials to be worked. Prevent dust accumulation at the workplace. Dust can easily ignite.

Advantages

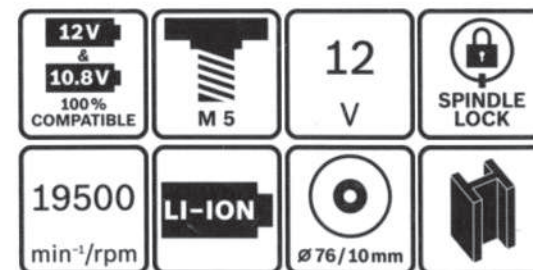
- Handy in every situation - extremely compact and ergonomic for fast disconnection on the construction site
- Fast work rate thanks to the high-performance EC motor
- Highly versatile for different materials
- The first 12 volt angle grinder
- Easy to swap discs thanks to the new spindle lock
- Easy adjustment of the protective cover without having to use tools



INSTA SAW



INSTRUCTION MANUAL



General Power Tool Safety Warnings

Work area safety

- Keep work area clean and well lit. Cluttered or 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

Technical Data

Performance data

No-load speed	19.500 rpm
Grinding spindle thread	M 5
Bore size, diameter	10,0 mm

Battery and power

Battery voltage	12 V
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Size and weight

Weight excl. battery	0.7 kg
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Tools

Grinding/cutting disc, diameter	76 mm
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Noise/vibration information

Surface grinding (roughing)

Vibration emission value ah	13,5 m/s ²
Uncertainty K	1,5 m/s ²

Noise

Sound pressure level	75 dB(A)
Sound power level	86 dB(A)
Uncertainty K	3 dB

Assembly

Battery Charging

- **Note:** The battery supplied is partially charged. To ensure full capacity of the battery, completely charge the battery in the battery charger before using your power tool for the first time.
- The lithium-ion battery can be charged at any time without reducing its service life. Interrupting the charging procedure does not damage the battery.
- The lithium-ion battery is protected against deep discharging by the "Electronic Cell Protection (ECP)". When the battery is empty, the machine is switched off by means of a protective 12 circuit: The inserted tool no longer rotates
- **Do not continue to press the On/Off switch after the machine has been automatically switched off.** The battery can be damaged.
- **To remove the battery** press the unlocking buttons and pull out the battery downwards. **Do not exert any force.**

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.

Battery tool use and care

- Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
- When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.

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.
- Follow instruction for lubricating and changing accessories.
- Keep handles dry, clean and free from oil grease.

Product Description and Specifications

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

Intended Use

The machine is intended for cutting and roughing of metal stone and wood materials, plastics, non-ferrous metals and tiles without the use of water. A specific protection guard must be used when cutting.

Product Features

The numbering of the product features refers to the illustration of the machine on the graphics page

- **Direction-of-rotation arrow on housing**
- **Spindle lock button**
- **On/Off switch**
- **Battery pack**
- **Battery unlocking button** 6
- **Battery charge-control indicator**
- **Protection guard for grinding**

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 shock.
- If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply. Use of an GFCI 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 energising 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 dust collection can reduce dustrelated 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

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**Any questions about this product,
please don't hesitate to contact us.**

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