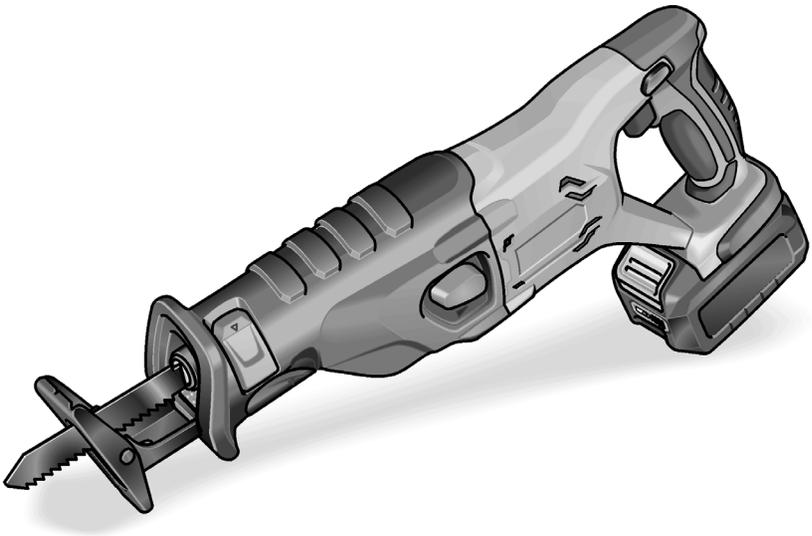


FLEX

ELEKTROWERKZEUGE

RS 29 18.0



Contents

Symbols used in this manual	12
Technical data	12
Overview	13
Important safety information	14
Noise and vibration	15
Instructions for use	16
Maintenance and care	18
Disposal information	19
CE conformity	20
Exemption from liability	20

Symbols used in this manual

WARNING!

Denotes impending danger. Non-observance of this warning may result in death or extremely severe injuries.

CAUTION!

Denotes a potentially dangerous situation. Non-observance of this warning may result in slight injury or damage to property.

NOTE!

Denotes application tips and important information.

Symbols on the power tool



Before switching on the power tool, read the operating manual!



Wear protective goggles!



Wear ear defenders!

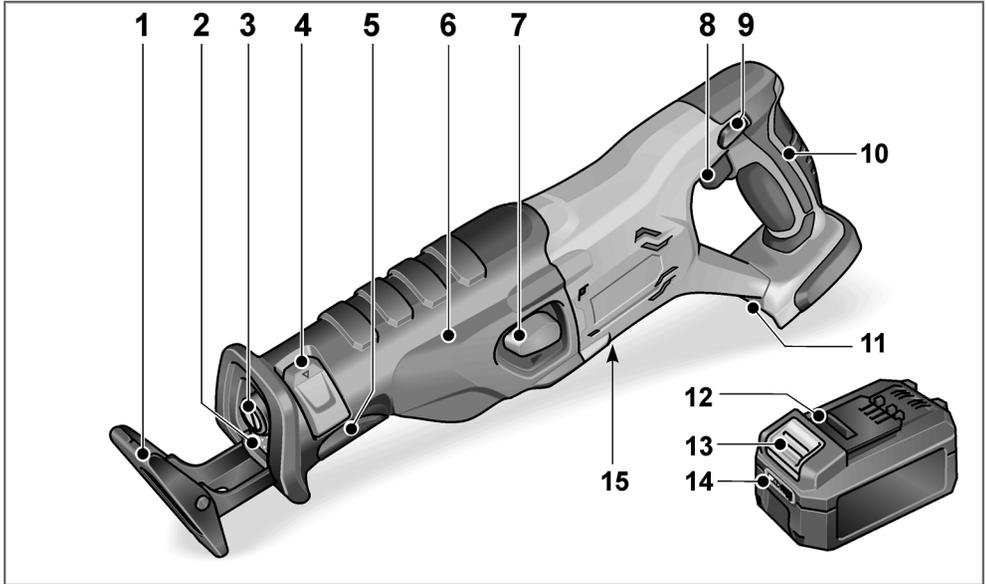


Disposal information for the old machine (see page 19)!

Technical data

Cordless sabre saw		RS 29 18.0	
Nominal voltage	V	18	
Battery	AP 18.0 (2.5 Ah) AP 18.0 (5.0 Ah)		
Stroke rate, no load	rpm	0–3100	
Stroke	mm	29	
Max. material thickness	mm	18	
– metal	mm	100	
– metal pipes	mm	200	
– plastic pipes	mm	180	
– wood	mm		
Weight according to “EPTA Procedure 01/2003” (without battery)	kg	2.9	
Weight of battery	2.5 Ah	kg	0.42
	5.0 Ah	kg	0.72

Overview



- | | |
|---|--|
| <p>1 Cutting support</p> <p>2 LED lighting
For illuminating the working area.</p> <p>3 Tool holder</p> <p>4 Tool holder lock</p> <p>5 Cutting support lock</p> <p>6 Front handle</p> <p>7 Orbital stroke switch</p> <p>8 ON/OFF switch
For switching on and off and for accelerating up to maximum stroke rate.</p> <p>9 Switch-on interlock</p> | <p>10 Rear handle</p> <p>11 Slot for battery</p> <p>12 Li-ion battery (2.5 Ah or 5.0 Ah)</p> <p>13 Release button for battery</p> <p>14 State of charge indicator</p> <p>15 Rating plate *</p> |
|---|--|

* (not visible)

Important safety information

WARNING!

Read all safety instructions and general instructions. Failure to comply with the safety instructions and general instructions may result in electric shock, fire and/or serious injuries. **Save all warnings and instructions for future reference.**

Before using the power tool, please read and follow:

- these operating instructions,
- the “General safety instructions” on the handling of power tools in the enclosed booklet (leaflet no.: 315.915),
- the currently valid site rules and the regulations for the prevention of accidents.

This power tool is state of the art and has been constructed in accordance with the acknowledged safety regulations.

Nevertheless, when in use, the power tool may be a danger to life and limb of the user or a third party, or the power tool or other property may be damaged. The power tool may be operated only if it is

- for its intended use,
- in perfect working order.

Faults which compromise safety must be repaired immediately.

Intended use

The cordless sabre saw is intended

- for commercial use in industry and trade,
- for sawing metal, plastic and wood,
- for sawing tiles and ceramics,
- for straight and curved cuts,
- for cutting pipes,
- to be used with suitable tools recommended by the manufacturer for this power tool.

Safety instructions for sabre saws

- **Hold the power tool by the insulated gripping surfaces when performing an operation where the cutting accessory may contact hidden wiring or its own cord.** The cutting accessory contacting a “live” wire may make exposed metal parts of the power tool “live” and shock the operator.
- **Keep hands away from the sawing area. Do not grip under the workpiece.** Risk of injury if contact is made with the saw blade!
- **Guide the power tool only when it is switched on against the workpiece.** Otherwise there is the risk of kickback if the cutting accessory snags in the workpiece.
- **Make sure the cutting support always rests on the workpiece when sawing.** The saw blade may snag, causing the operator to lose control of the power tool.
- **After completing the cutting operation, switch off the power tool and withdraw the saw blade from the cut only after the blade has come to a complete stop.** In this way, you will avoid any kickback and you can now safely put the power tool down.
- **Use only undamaged saw blades that are in perfect condition.** Bent or blunt saw blades may break or cause a kickback.
- **After switching off, do not attempt to brake the saw blade by applying lateral counterpressure.** The saw blade may incur damage, break or cause a kickback.
- **Clamp the material so that it is firmly secured. Do not support the workpiece with your hand or foot.** Do not touch any objects or the ground with the saw while it is running. Risk of kickback!
- **Use suitable detectors to detect concealed power supply cables or consult your local supply company.** Contact with electric cables may result in a fire and/or electric shock. A damaged gas pipe may cause an explosion. Cutting into a water pipe will cause damage to property or may cause an electric shock.

- **When working, hold the power tool firmly with both hands and ensure that you have a secure footing.** The power tool is controlled more securely if held with both hands.
- **Keep the workplace clean. Material mixtures are especially dangerous.** Light metal dust may burn or explode.
- **Wait until the power tool has come to a stop before putting it down.** The cutting accessory may snag, causing the operator to lose control of the power tool.
- **Secure the workpiece. A workpiece is held more securely in a clamping device than by hand.**

Special safety instructions

- **Use only original batteries with the voltage indicated on the type plate of your power tool.** The use of other batteries, e.g. imitations, reconditioned batteries or other makes, increases the risk of injury and damage to property by exploding batteries.
- **Recharge batteries only with chargers recommended by the manufacturer.** A charger that is suitable for one type of battery may create a fire hazard when used with another battery.
- **Pointed objects, such as nails or screwdrivers, or external forces may damage the battery.** This may cause an internal short-circuit and the battery to burn, smoke, explode or overheat.
- **Protect the battery against heat, including prolonged sunshine, fire, water and moisture.** Explosion hazard!
- **If the battery is damaged or used improperly, fumes may be emitted.** Ensure a supply of fresh air and consult a doctor if you feel unwell. The fumes may irritate the respiratory tracts.
- Do not work on materials which release hazardous substances (e.g. asbestos).
- Identify the power tool with stickers only. Do not drill any holes into the housing.

Noise and vibration

The noise and vibration values have been determined in accordance with EN 60745. The A-weighted noise level of the power tool is typically:

- Sound pressure level: 90 dB(A);
- Sound power level: 101 dB(A);
- Uncertainty K: 3 dB.

Total vibration value:

- when sawing wood:
 - Emission value a_{H1} : 20.2 m/s^2
 - Uncertainty K: 1.5 m/s^2



ATTENTION!

The indicated measurements refer to new power tools. Daily use causes the noise and vibration values to change.



NOTE!

The vibration emission level given in this information sheet has been measured in accordance with a standardised test given in EN 60745 and may be used to compare one tool with another. It may be used for a preliminary assessment of exposure. The declared vibration emission level represents the main applications of the tool. However if the tool is used for different applications, with different accessories or poorly maintained, the vibration emission may differ. This may significantly increase the exposure level over the total working period. To make an accurate estimation of the vibration exposure level, it is also necessary to take into account the times when the tool is switched off or running but not actually in use. This may significantly decrease the exposure level over the total working period. Identify additional safety measures to protect the operator from the effects of vibration such as: maintain the tool and the cutting accessories, keep the hands warm, organisation of work patterns.



CAUTION!

Wear ear defenders at a sound pressure above 85 dB(A).

Instructions for use

Before switching on the power tool

Unpack the power tool and accessories and check that no parts are missing or damaged.

i NOTE

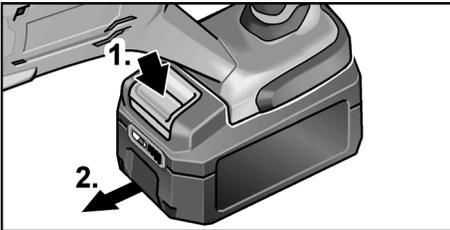
The batteries are not fully charged on delivery. Prior to initial operation, charge the batteries fully. Refer to the charger operating manual.

Inserting/replacing the battery

- Press the charged battery into the power tool until it clicks into place.



- To remove, press the release button (1.) and pull out the battery (2.).

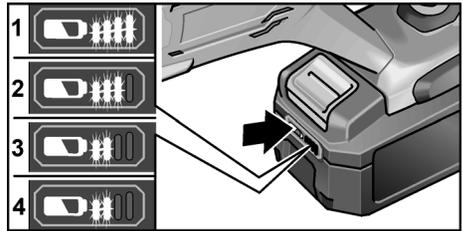


! CAUTION!

When the device is not in use, protect the battery contacts. Loose metal parts may short-circuit the contacts; explosion and fire hazard!

Battery state of charge

- Press the button to check the state of charge at the state of charge indicator LEDs.



If one of the LEDs flashes, the battery must be recharged. If none of the LEDs light up after the button is pressed, the battery is faulty and must be replaced.

The indicator goes out after 5 seconds.

i NOTE

Follow the instructions for charging the battery set out in the charger operating manual.

Inserting/changing the saw blades

! WARNING!

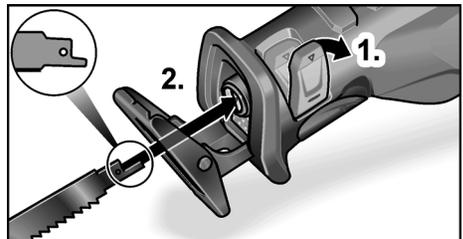
Remove the battery before carrying out any work on the power tool.

! CAUTION!

Used cutting accessories may become hot. Wear protective gloves!

Select a saw blade to suit the material to be machined. Refer to the manufacturer's catalogues for details of saw blades that can be used.

- Open the tool holder lock and press down (1.).
- Pull the used saw blade forward out of the tool holder.



- Insert the new saw blade into the tool holder and push in as far as it will go (2.).
- Close the tool holder lock.

Adjusting the cutting support

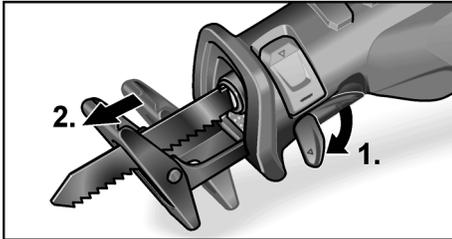
⚠ WARNING!

Remove the battery before carrying out any work on the power tool.

The cutting support should always rest on the material when sawing so as to avoid excessive vibrations.

It is possible, for example, to limit the saw blade cutting depth by adjusting the cutting support.

- Press the cutting support lock down (1.).



- Adjust the cutting support to the required depth (2.).
- Press the cutting support up as far as it will go.

Working with orbital stroke

⚠ CAUTION!

Press the orbital stroke switch only when the saw blade is fully stopped!

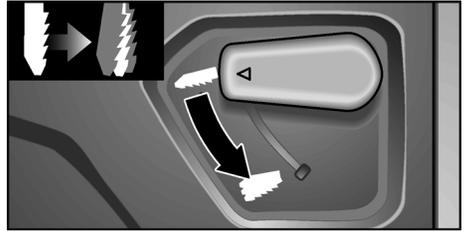
- The saw blade only performs horizontal movements when orbital stroke is switched off. This is suitable primarily for cutting metal.

Also use this setting if you require a very good cutting finish when sawing wood.

- The saw blade performs horizontal and vertical movements (oscillating movements) when orbital stroke is switched on. This is suitable primarily for cutting wood at high speed. The quality of the cutting edge is worse.

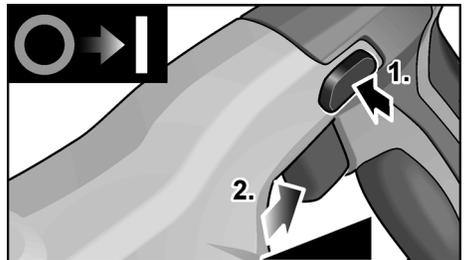
To switch on orbital stroke:

- Press the orbital stroke switch down as far as it will go.



- To switch off orbital stroke, press the switch up as far as it will go.

Switching the power tool on/off



- Press the switch-on interlock (1.).
- Press and hold down the switch (2.). The power tool starts.
- Release the switch-on interlock.

The power tool switch allows the operator to increase the stroke rate slowly up to the maximum setting.

The LED illuminates the working area when the power tool is switched on.

To switch off the tool:

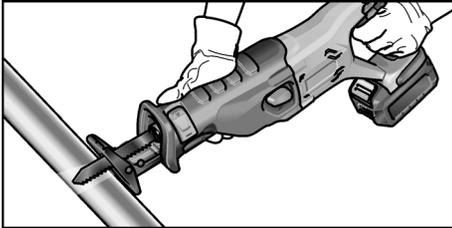
- Release the switch.



Operating instructions

⚠ WARNING!

Always hold the power tool firmly with both hands!



- Whenever possible, clamp the workpiece to be cut in a vice.
- The saw has a cutting support. This helps to reduce vibrations. It also enables square cuts to be made.
- After the power tool has been switched off, the saw blade continues running briefly.
- Never touch the saw blade straight after use as it may be very hot.

Sawing metal

When sawing metal, use lubricant along the cutting line. This stops the material from overheating.

Sawing wood

Place the saw square on the workpiece. Guide the saw with uniform pressure through the wood, pressing the cutting support against the workpiece in the process.

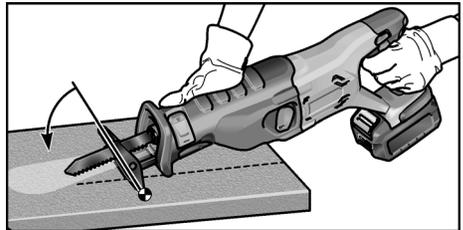
Sawing directly at the wall

Thanks to the elasticity of bi-metal saw blades it is possible to cut pipes flush with the wall. To do so, use a saw blade of sufficient length that exceeds the diameter of the pipe. Position the saw blade flush with the wall so that the kink point is outside the workpiece to be sawn.

Plunge cuts

The saw is suitable for plunge cuts in wood and plastic. Use only short saw blades (<150 mm) to perform plunge cuts!

- Switch on orbital stroke to perform plunge cuts.
- Place the saw on the workpiece with the bottom edge of the cutting support in such a way that the saw blade does not touch the workpiece.



- Switch on the saw.
- Press the cutting support firmly against the workpiece and swing the saw forwards. Slowly plunge the saw blade into the workpiece.
- When the cutting support is resting fully on the workpiece, continue sawing along the desired cutting line.

i NOTE

Do not perform plunge cuts in metal.

Other information

- The use of “sharp” cutting accessories increases performance and the service life of the power tool.
- After work, clean the power tool and store in the carry case in a dry location.

Maintenance and care

⚠ WARNING!

Remove the battery before carrying out any work on the power tool.

Cleaning

⚠ WARNING!

If metals are worked over a prolonged period, conductive dust may become deposited inside the housing.

Clean the power tool and ventilation slots at regular intervals. Frequency of cleaning is dependent on the material and duration of use.

- Regularly blow out the housing interior and motor with dry compressed air.

Charger

WARNING!

Before performing any work on the charger, pull out the mains plug. Do not use water or liquid detergents.

- Remove dirt and dust from the housing with a brush or a dry cloth.

Gear

NOTE!

Do not loosen the screws on the gear head during the warranty period. Failure to comply with this requirement will invalidate any claims under the manufacturer's warranty.

Repairs

Repairs may be carried out by an authorised customer service centre only.

Spare parts and accessories

NOTE!

Use only original parts supplied by the manufacturer for replacement purposes. The use of non-original parts will invalidate any claims under the manufacturer's warranty.

For other accessories, in particular cutting accessories, please refer to the manufacturer's catalogues.

Exploded drawings and spare-part lists can be found on our homepage:

www.flex-tools.com

Disposal information

WARNING!

Render disused power tools unusable by removing the power cord.



EU countries only.

Do not throw electric power tools into the household waste!

In accordance with the European Directive 2012/19/EC on Waste Electrical and Electronic Equipment and its incorporation into national law, used electric power tools must be collected separately and recycled in an environmentally friendly manner.



Raw material recovery instead of waste disposal.

Device, accessories and packaging should be recycled in an environmentally friendly manner. Plastic parts are identified for recycling according to material type.

WARNING!

Do not throw batteries into the household waste, fire or water. Do not open used batteries.

Batteries should be collected, recycled or disposed of in an environmentally friendly manner.

EU countries only:

In accordance with Directive 2006/66/EC defective or used batteries must be recycled.

NOTE!

Please ask your dealer about disposal options.

CE conformity

We declare on our sole responsibility that the product described under "Technical data" conforms to the following standards or normative documents:

EN 60745 according to the provisions of Directives 2004/108/EC (up to 19.04.2016), 2014/30/EU (from 20.04.2016), 2006/42/EC, 2011/65/EC.

Responsible for technical documents:
FLEX-Elektrowerkzeuge GmbH, R & D
Bahnhofstrasse 15, D-71711 Steinheim/Murr



Eckhard Rühle Klaus Peter Weinper
Manager Research & Head of Quality
Development (R & D) Department (QD)

27.05.2015, FLEX-Elektrowerkzeuge GmbH
Bahnhofstrasse 15, D-71711 Steinheim/Murr

Exemption from liability

The manufacturer and his representative are not liable for any damage and lost profits due to interruption in business caused by the product or by an unusable product.

The manufacturer and his representative are not liable for any damage which was caused by improper use of the power tool or by use of the power tool with products from other manufacturers.

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