Original Operating Manual (Translation)

Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST

Device Name:	**Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST**
Device Number:	**Nameplate**
Year of Manufacture:	**2018**
Country of Manufacture:	**Czech Republic**

Read the operating manual before putting into operation!

CE

1 Table of Contents

2 General

2.1 Foreword

This operating manual applies exclusively to the machine designated in the title.

This operating manual provides important information for the safe and efficient use of the machine. It is an integral part of the machine and must be kept in readable condition for the personnel working on it, in the immediate vicinity of the machine at all times.

The operating manual is a foundation for any work with the machine. A requirement for safe operation of the machine is the adherence to all of the safety and operation instructions provided. Personnel must, therefore, have carefully read this operating manual before beginning any work.

In addition, the national accident prevention regulations applicable at the place of use of the machine and the general safety provisions must be observed.

The operating manual is a foundation for any training on the machine.

2.2 Address

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2.3 Version status

Table 1: Version status

Date	Chapter	Reason	Version	Prepared
05/12/2018	Complete Document	New Version	1.0	Technische Dokumentation CE

2.4 Typographic conventions

To be able to work optimally with the operating manual the following, please note the following explanations of the typographical conventions.

Numbering

- Bullet points of the first level.
  - Bullet points of the second level.

Handling instruction

1. Step 1 of the operating sequence
2. Step 2 of the operating sequence
3. Step 3 of the operating sequence

The sequence of the work steps must be observed.

Warning and safety instructions

The following symbols are used in this operating manual to illustrate hazards and notices:

Danger

... indicates an immediate risk, which leads to death or serious injuries, if it is not avoided..

Warning

... indicates a possible hazardous situation, which can lead to death or serious injuries, if it is not avoided.

Caution

... indicates a possible hazardous situation, which can lead to light injuries, if it is not avoided.

Attention

... indicates a possible hazardous situation, which can lead to property damage, if it is not avoided.

Note

... provides tips and recommendations, as well as information for efficient and fault-free operation.

2.5 Customer service

Our customer service department is available to provide technical details.

You can obtain information regarding the contact persons for your region by telephone and at any time by fax, e-mail or via the Internet.

In addition, our personnel are always interested in any of your experiences and new information arising from your use of the equipment, which can be useful for the improvement of our products.

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2.6 Limitation of liability

All information and instructions in this operating manual were written while taking account of the applicable standards and regulations, the current state of technology and our many years of knowledge and experience. The obligations agreed in the delivery contract, the general terms and conditions as well as the delivery conditions of the manufacturer and the legal regulations valid at the time of the conclusion of the contract apply.

The manufacturer assumes no liability for damage due to:

- Failure to comply with this operating manual,
- unintended use,
- use of untrained and non-instructed personnel,
- unauthorized modifications and technical changes,
- use of unauthorized spare parts.

The actual scope of delivery can differ from the explanations and figures shown here in the case of special designs, the use of additional options or the latest technical modifications.

We reserve the right to make modifications to improve the characteristics of use and for further development.

2.7 Copyright

Dr. Schulze GmbH holds the copyright for the operating manual.

The operating manual includes instructions and diagrams or diagram sections of a technical nature, which may not be reproduced in the entirety or in part, distributed or used for competition purposes or otherwise communicated.

The creation of copies – even in part – is permitted for the operator of the machine expressly only for internal use in connection with operation of the machine. Dr. Schulze GmbH reserves all rights for the licensing of use for publication or distribution of copies or information from this operating manual to third parties.

In case of infringement the manufacture is entitled to make a claim for damages. Further claims are reserved.

2.8 Disposal

The operating manual is a component of the machine.

The operating manual must be provided when disposing of the machine.

2.9 Conformity

The relevant guidelines (with their accompanying modification guidelines) in the version applicable at the date of commissioning have been taken as the basis for the conformity assessment. The guidelines, to which it relates in particular, can be found in the conformity statement.

The conformity statement is in the appendix.

2.10 Personnel requisition

2.10.1 Fundamentals

Any activities on the machine may only be performed by persons who are able to carry out their work properly and reliably and who meet the specified requirements in each case.

Please note the following:

- Persons, whose reaction times are influenced by, e.g. drugs, alcohol or medications, may not carry out any work.
- Always observe the age and profession specific guidelines when appointing personnel.

2.10.2 Instructed personnel

Instructed personnel are those who have been trained fully and demonstrably by the operator in the duties entrusted to them and any possible dangers.

2.10.3 Qualified personnel

Qualified personnel include those, who on the basis of the occupational training, knowledge and experience of the relevant regulations are in a position to carry out the work assigned to them properly, recognize possible dangers independently and avoid personal or property damage.

Their tasks include scheduled maintenance to reduce and avoid incidents.

2.10.4 Qualified electricians

An qualified electrician is anyone who, due to his professional training, knowledge and experience and knowledge of the relevant provisions, is able to perform work on electrical equipment properly. Furthermore, he recognizes potential dangers independently and can avoid personal injury and property damage due to electrical voltage.

All work on the electrical equipment may, as a matter of principle, only be carried out by qualified electricians.

2.10.5 Unauthorized persons

Unauthorized persons are not admitted. They do not know the dangers in dealing with the machine and must be accosted in case of doubt and removed from the work area.

3 Safety

3.1 General

This section gives an overview of important safety aspects for the protection of the user and the operators. The instructions indicate possible dangers and serve the safe and trouble-free operation of the plant.

Where the operating, warning and safety instructions provided are not observed, considerable risks can arise.

3.2 Intended use

The Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST is conceived, depending on the material, for wet or dry cutting. It is exclusively designed for the division of mineral construction materials such as artificial or natural sandstone, washed concrete, concrete blocks and aerated concrete. It is designed for continuous use on building sites or in factories and may only be used for industrial purposes and only operated by trained personnel. The Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST may only be used in accordance with the environmental conditions listed in the Technical Data. The machine may only be operated by one person!

Proper use requires compliance with the instructions

- for safety,
- for operation,
- for servicing/maintenance,
- per the technical specifications

which are described in this operating manual.

3.3 Non-intended use

The Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST may not be used for cutting metal and wood.

Any other use beyond its intended use is considered improper use. The operator of the machine is liable for any damage resulting from this.

3.4 Responsibility of the operator

3.4.1 Operator

The operator is any natural or legal person who uses the machine or gives it to third parties for use. The operator is responsible for the safety of the users or third parties during use.

3.4.2 Responsibilities of the Operator

The machine is used for industrial purposes. The operator is therefore subject to the statutory obligations for occupational safety.

Safety for persons can only be guaranteed, if all of the required measures are taken. It is the responsibility of the operator of the machine to organize these measures, to implement them and to verify their execution.

In particular, the operator must:

- provide information about applicable health and safety regulations.
- ensure that the labels and signs on the machine indicate hazardous spots and are legible. damaged or unrecognizable labels and signs must be replaced by the operator immediately.
- ensure that the workplace lighting is in accordance with national and local regulations.
- determine by means of a risk assessment any possible additional hazards, which result from the special conditions of use at the place of use of the machine.
- implement in the operating instructions the required behavioral requirements for the operation of the machine in the place of use.
- during the entire period of use of the machine regularly check, whether the operating instructions correspond to the current state of the regulatory framework. if necessary, amend the operating instructions to new regulations, standards and conditions of use.
- unambiguously and clearly determine the responsibilities for the installation, operation, maintenance and cleaning of the machine.
- ensure, that all personnel involved with the machine have read the operating manual. In addition, they must train personnel in the standard distances to maintain when operating the machine and inform them of the hazards.
- prepare for the personnel assigned to work with the machine the prescribed and recommended safety equipment.
- possibly other special regulations such as for machines used in wet environments, the provisions of the “Stone and Earth” professional association.

The operator is also responsible for ensuring that the machine

- is always in a technically fault-free condition.
- is maintained in accordance with the prescribed maintenance intervals.
- all safety equipment on the machine is regularly inspected for completeness and functionality.

3.5 Responsibility of the personnel

In addition to the warning and safety notices in this operating manual, the safety, accident prevention and environmental protection provisions applicable to the place of use must also be observed.

In particular, it is the case that personnel:

- inform themselves regarding the applicable occupational safety regulations.
- implement the behavioral requirements provided in the operating instructions for operating the machine in the place of use.
- observe the allocated responsibilities for the operation, maintenance and cleaning of the machine properly.
- must have fully read and understood the operating manual before the commencement of work.
- the prescribed personal protective equipment applies. It must be checked regularly and replaced in case of damage. In particular, ear protection must be worn when operating the machine.
- Avoid abnormal postures when working. For all work, secure footing must be ensured, so that balance can be maintained at all times.
- Tools belonging to the device must be safely stored. They must not come loose during operation.

Furthermore, anyone who assigned to the machine in their range of responsibilities is responsible for ensuring that the machine

- is always in technically fault-free condition.
- is maintained in accordance with the prescribed maintenance intervals.
- all safety equipment is regularly inspected for completeness and functionality.
- Ensure that the machine is protected against unauthorized use after finishing work. It must be stored in a dry, locked room against unauthorized persons (e.g. children).
- Always pay attention to order and cleanliness in the work area, since loose surrounding objects can be accident sources.

3.6 Personal safety equipment

Personal safety equipment must be worn when working to minimize health hazards. For that reason:

– Wear protective equipment properly before starting work and wear it while working.

Protective Workwear

for protection against catching on moving machine parts.

Workwear is tight and with low tear resistance, with tight sleeves and no protruding parts.

Do not wear rings, necklaces or other jewelry.

For long hair, wear a hairnet.

Use of special cut-resistant work gloves to protect the hands against abrasion, grazes, scratches, scrapes, puncture wounds, piercing or similar injuries to the surface of the skin.

Safety Shoes

to protect the feet against injury by falling parts and against slips and falls on a slick surface.

Hearing Protection

for protection against hearing damage.

Protective Goggles

to protect against eye injuries due to flying parts, particles, sprays of liquid or escaping compressed air.

Face mask

to protect against damage caused by inhalation of dust and small particles.

Face Protection

to protect against face and eye injuries due to flying parts, particles, sprays of liquid or escaping compressed air.

3.7 Residual risks

3.7.1 Hazard and notice signs

The machine was subjected to a risk assessment. The identified hazards were, as far as possible, eliminated and acknowledged risks were reduced. The structurally unavoidable hazard points are marked by labels and signs. These must always be easy to read.

3.7.2 Special safety instructions

... indicates hazards due to electrical voltage.

Where safety notices are not observed there is a danger of serious or deadly injuries.

Responsibilities of the operator, installation of safety systems (RCD) that detect a short-circuit and isolate all connected phases.

... indicates hazards from hot surfaces.

Where safety notices are not observed there is a danger of burns and serious skin injuries due to heat.

... indicates hazards due to catching.

Failure to observe the safety instructions may result in hand injuries.

… indicates a risk of cutting due to rotating cutting blade.

Failure to observe the safety instructions will result in the risk of cuts and serious injury from a rotating cutting blade.

... indicates dangers due to trapping.

Where safety notices are not observed there is a danger of serious or deadly injuries.

... indicates that it may not be operated by persons with a pace-maker.

Where safety notices are not observed there is a danger of impairment to persons with a heart pace-maker.

... indicates a ban on carrying metal parts.

Carrying metal items, watches, magnetic or electronic data devices is forbidden, as the magnetic field can damage or destroy the items.

3.8 Machine areas

There are three different areas around the machine.

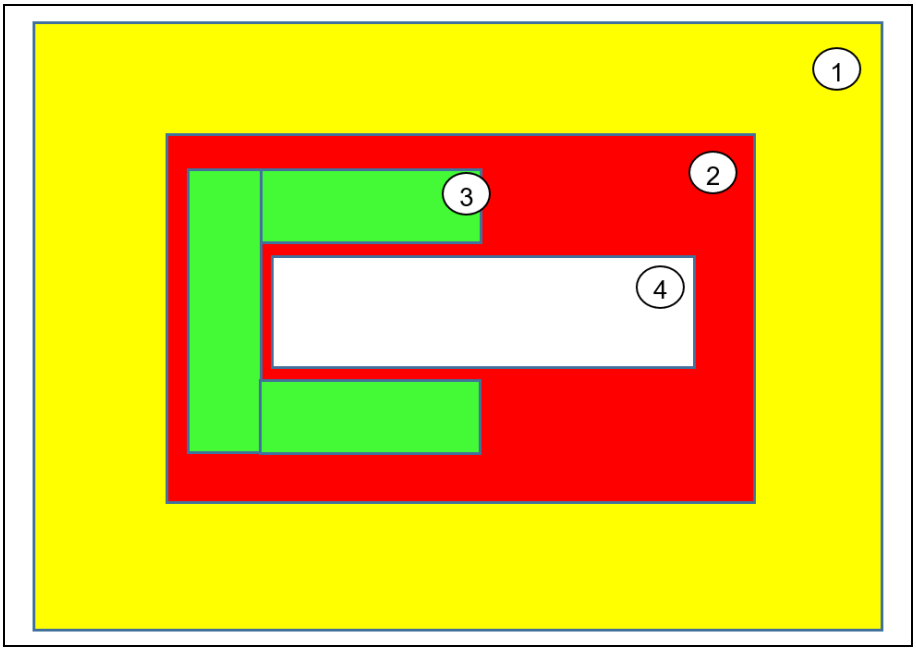

Figure 1: Machine areas on the Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST

1	Traffic Zone	3	Work Zone
2	Danger Zone	4	Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST

Work Zone

The area in which persons work with or operate the machine in normal operation; excludes inspection, maintenance, cleaning and repair.

The work zone (green area) may only be entered by authorized operational personnel to operate the machine.

Danger Zone

The person in which a person is faced with a risk of injury or hazards to their health.

The danger zone (red area) must be closed off and clearly marked and may not be entered by persons while the machine is being operated.

Traffic Zone

An area which is accessible for or open to persons without opening, crossing or bypassing a barrier.

The traffic zone (yellow area) must always be kept free and may only be used as a traffic route and for transport work.

3.9 Dangers

Observe the warning and safety instructions provided here and in the operating chapters of this manual without fail to avoid possible health hazards and dangerous situations.

3.9.1 Risks due to moving parts

Driven moving elements can present hazards that can lead to injury (such as bruising, pulling in of body parts).

Only operate the machine if all safety devices are installed and working properly. In particular, the blade guard must always be closed when operating the machine.

Before switching on the machine, make sure that nobody can be endangered by the starting machine. Nobody is allowed to access the running machine. Do not bring body parts into the area of moving parts when operating the machine. Always maintain a safe distance.

Switch off the power supply before entering the danger zone and secure it against being switched on again. Before starting work in the danger zone, always wait until the parts have come to a standstill and wait for the automatic removal of residual energy.

3.9.2 Risks from thermal hazards

The machine integrates parts / components that become hot during operation. There is a risk of burns when touching the hot surfaces. Wear appropriate personal protective equipment when working on hot parts (e.g. on motors).

Before doing any work, make sure that the parts/ components have cooled down.

3.9.3 Risks due to electrical voltage

Touching live parts can cause serious injury or even death. Therefore, work on electrical equipment may only be carried out by qualified electricians.

Before starting any work on electrical equipment, switch off the machine and check that there is no electrical voltage. Secure the power supply against re-start.

Check electrical equipment regularly for external damage (e.g. to the insulation) and loose connections to cable terminals. If any defects are detected, immediately switch off the power supply and arrange for repair.

The electrical equipment (e.g. as well as cables and plugs) must not come into contact with water.

Use only undamaged extension cables, which are designed for use in the respective environment and whose core cross-section is sufficiently dimensioned. Completely unroll a cable reel to prevent overheating. Protect the cable against heat, oil and sharp edges.

Do not bypass fuses or disable them. When inserting defective fuses always pay attention to the correct indication of the current intensity.

3.9.4 Risks due to vibrations

Strong vibrations can lead to damage to your health. Therefore, vibration dampers must not be disabled.

Do not stay in the area of heavily vibrating danger points during operation.

3.9.5 Risks due to noise

Refer to the Technical Data section for the emission level (sound pressure level) from the machine. Depending on local conditions, a higher sound pressure level may result, leading to damage to hearing or even hearing loss.

Therefore, the following applies:
From a sound pressure level of > 80 dB (A) at the workplace, the necessary personal protective equipment (ear protection) must be worn during all work.

3.10 Protective devices

The machine is built according to the applicable legal regulations and is safe to operate. Danger points not structurally excluded are provided with protective devices. When operating the machine, all protective devices must be present and functional.

Protective devices must not be changed or adapted.

3.10.1 Emergency stop button

The emergency stop button (1) is a push button. It is used to shut off the power supply and is depressed both for turning off and in case of danger.

After pressing the emergency stop button (1), the machine is switched off.

Before restarting the machine after an emergency situation, the cause must be eliminated.

The emergency off button (1) is unlocked by pulling out the cover.

The emergency off button (1) is on the control box of the Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST.

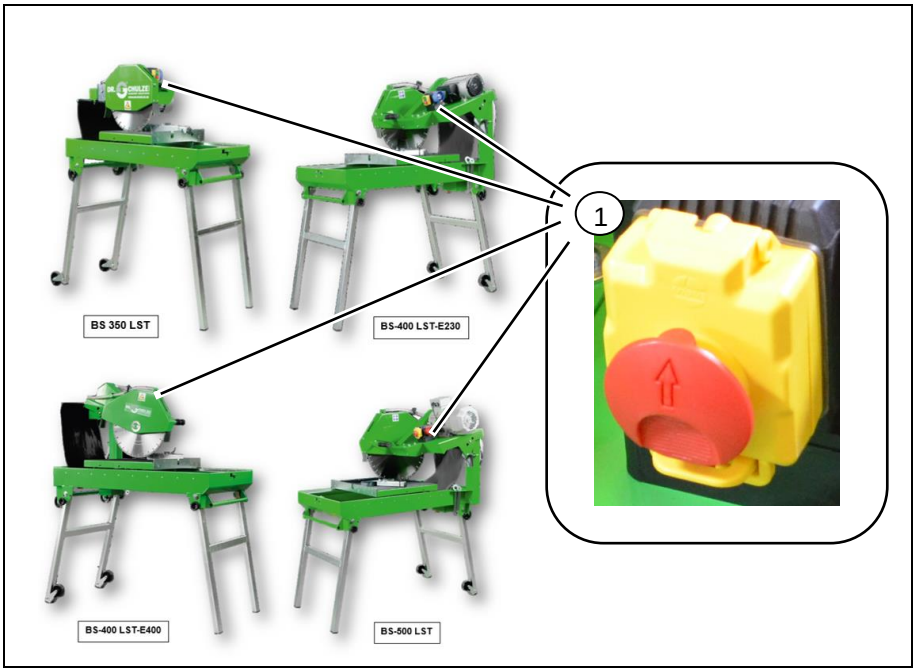

Figure 2: Position of the emergency stop button on the Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST

3.10.2 Blade guard

The machine may only be operated with the blade guard closed (1). This provides work safety.

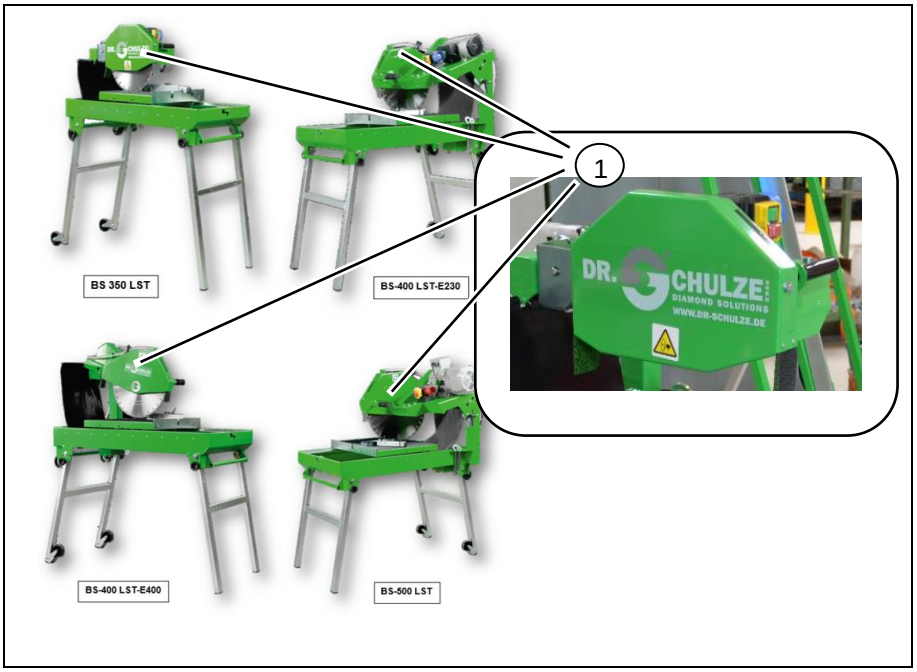

Figure 3: Position of the blade guard on the Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST

3.10.3 Main switch with emergency off function

Integrated in the control box are a main switch with emergency off function (1) a thermal overcurrent relay and an undervoltage release.

Green button - 1 = switch machine on

Red button - 0 = switch machine off

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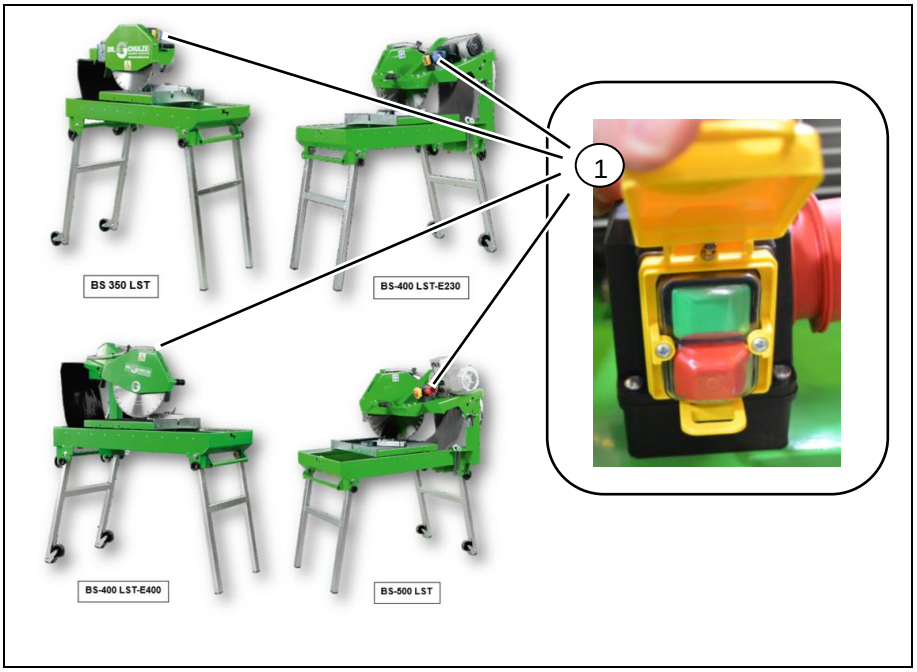


Figure 4: Position of the control box on the Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST

A bimetallic overload protector protects the drive and prevent the restarting of the motor outside the permissible temperature range. An overload can occur, e.g. by overly fast cut, hard material, dull cutting blade or route of the cut.

The built-in under-voltage release prevents, e.g. after a power failure, the accidental restart of the drive when voltage is applied again.

3.11 Actions in case of danger and accident

3.11.1 Preventative measures

In the event of danger, the following preventive measures must generally be taken:

- Always be prepared for accidents.
- Keep first aid equipment (first aid kit, blankets, etc.) and fire extinguishers at hand.
- Always keep the approaches for rescue vehicles free.

3.11.2 Handle accidents properly

In the case of an accident, the following rules of conduct should be observed:

- Immediately trigger emergency stop.
- Take first aid measures.
- Remove affected persons from the danger zone.
- Inform those in charge at the site.
- Call a doctor and/or the fire service in case of serious injuries.
- Always keep the approaches for rescue vehicles open.

3.12 Spare parts

Spare parts

Only spare parts specified by Dr. Schulze GmbH may be used. The information in the parts lists and/or spare parts lists is decisive in this case.

Other parts can influence the safety functions and the behavior of the machine. They may not, therefore, be used.

Date of use

Spare parts, which have exceeded the maximum date of use, may no longer be used.

4 Technical data

4.1 Environmental conditions

Table 2: Environmental conditions

Information	Value [unit]
Temperature range	-15 – 43 °C
Atmospheric humidity	60%

4.2 Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST

Table 3: Technical data of the Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST

Machine/System Information	Value [unit]
Drive motor (power)	
BS-350 LST	2,2 [kW]
BS-400 LST-E230	2,2 [kW]
BS-400 LST-E400	3,0 [kW]
BS-500 LST	3,0 [kW]
Voltage	
BS-350 LST	230 [V] / 50 [Hz]
BS-400 LST-E230	230 [V] / 50 [Hz]
BS-400 LST-E400	3 × 400 [V] / 50 [Hz]
BS-500 LST	3 × 400 [V] / 50 [Hz]
Rated current	
BS-350 LST	13 [A]
BS-400 LST-E230	13,5 [A]
BS-400 LST-E400	6,9 [A]
BS-500 LST	6,9 [A]
Rotational speed of the cutting shaft	
BS-350 LST	2800 [min^{-1}]
BS-400 LST-E230	2352 [min^{-1}]
BS-400 LST-E400	2352 [min^{-1}]
BS-500 LST	2352 [min^{-1}]
Location hole	
BS-350 LST	25,4 [mm]
BS-400 LST-E230	25,4 [mm]
BS-400 LST-E400	25,4 [mm]
BS-500 LST	25,4 [mm]

Table 3: Technical data of the Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST

Machine/System Information	Value [unit]
Max. cutting blade diameter	
BS-350 LST	350 [mm]
BS-400 LST-E230	400 [mm]
BS-400 LST-E400	400 [mm]
BS-500 LST	500 [mm]
Max. cutting length	
BS-350 LST	650 [mm]
BS-400 LST-E230	650 [mm]
BS-400 LST-E400	650 [mm]
BS-500 LST	650 [mm]
Max. cutting depth	
BS-350 LST	120 [mm]
BS-400 LST-E230	170 [mm]
BS-400 LST-E400	170 [mm]
BS-500 LST	220 [mm]
Dimension	
BS-350 LST	Length 1050 mm / Width 600 mm / Height 1330 (700 mm transport height) Cutting table / Length x Width 400 x 480 mm
BS-400 LST-E230	Length 1200 mm / Width 710 mm / Height 1470 mm (800 mm transport height) Cutting table / Length x Width 500 x 575 mm
BS-400 LST-E400	Length 1200 mm / Width 710 mm / Height 1580 mm (900 mm transport height) Cutting table / Length x Width 500 x 575 mm
BS-500 LST	Length 1200 mm / Width 780 mm / Height 1600 mm (900 mm transport height) Cutting table / Length x Width 500 x 575 mm

Table 3: Technical data of the Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST

Machine/System Information	Value [unit]
Weight (approx.) BS-350 LST BS-400 LST-E230 BS-400 LST-E400 BS-500 LST	 70 [kg] 116 [kg] 116 [kg] 119 [kg]
Protection class	IP 55
Sound pressure level, measured	93 dB(A), must wear ear protection
Sound power level, measured	104,5 dB
Total vibration value / hand-arm vibrations	under 2,5 m/s²
Volume of water container BS-350 LST BS-400 LST-E230 BS-400 LST-E400 BS-500 LST	 80 [l] 80 [l] 80 [l] 80 [l]

4.3 Name plate

The rating plate is used to identify the component assembly. The specification of the type plate facilitates communication with the customer service.

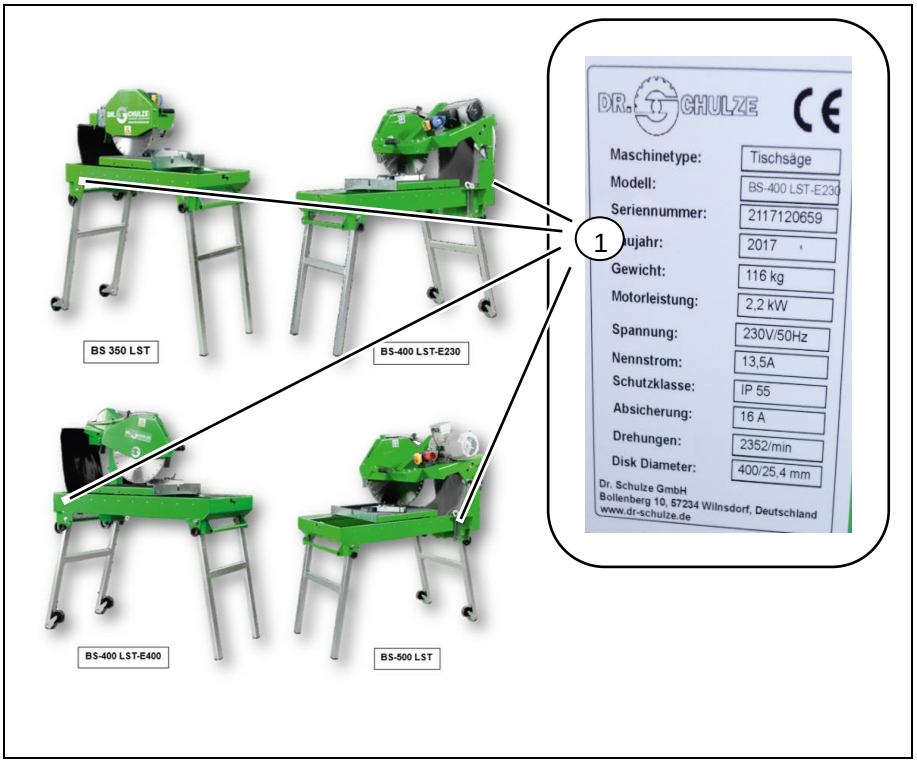


Figure 5: Name plate

5 Construction and function

5.1 Machine overview

The Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST is designed so that the water cooling and splitting mechanism are fixed on the basic frame. The cutting table can be moved between its limit stops.

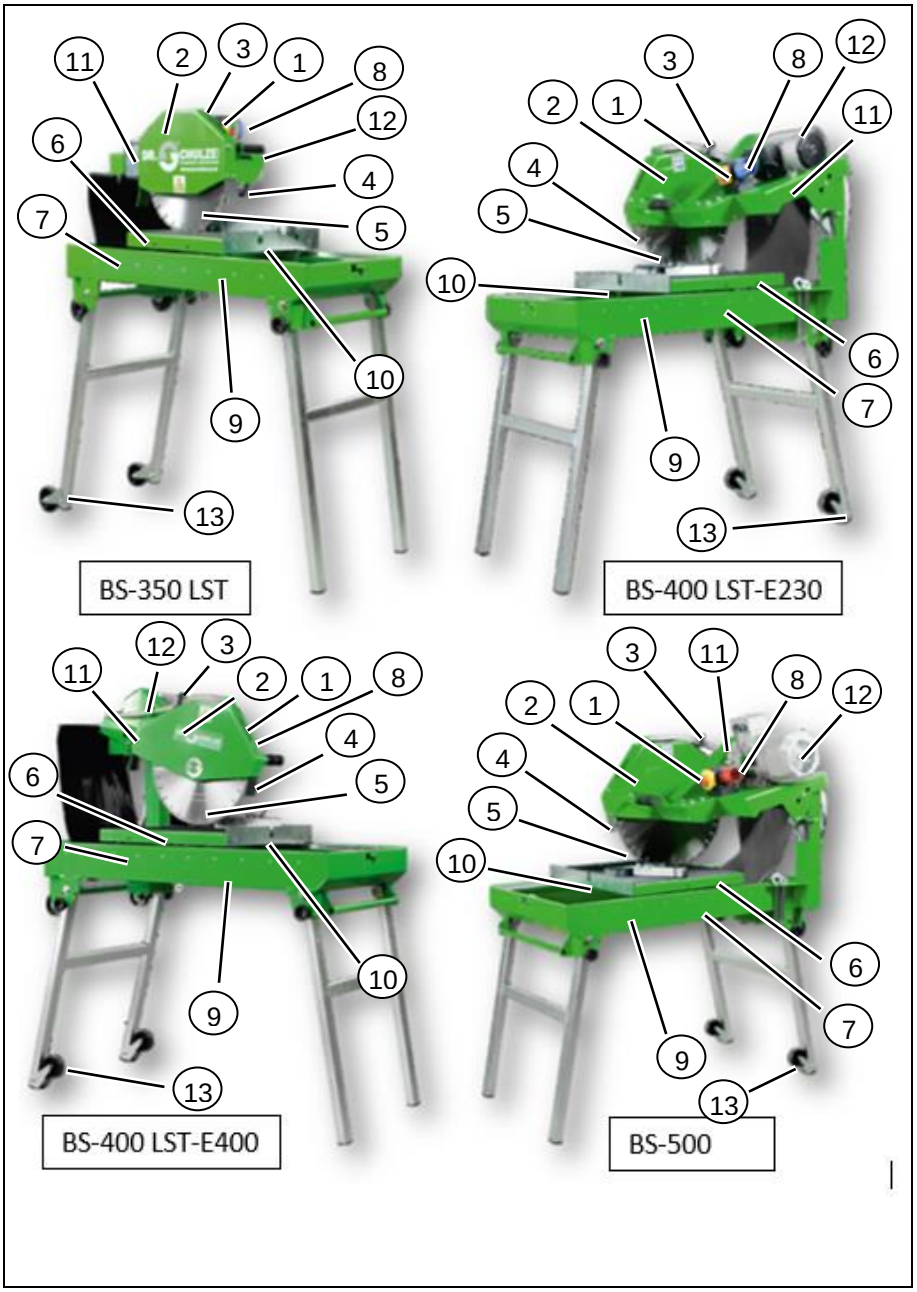


Figure 6: Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST

1	Control panel	7	Water pump (behind cover)
2	Blade guard	8	Socket - mains connection

3	Shut-off valve - cooling water	9	Water container
4	Spray guard	10	Guide carriage
5	Cutting blade	11	Cutting head
6	Cutting table	12	Drive motor
13	Mobile supports / foldable		

5.2 Functional description

Depending on the material, the Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST can be used in wet or dry cutting.

The material is clamped on the cutting table.

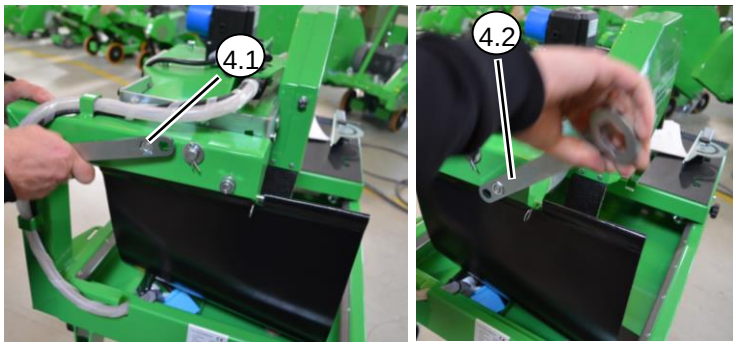
During operation, the cutting table and material to be cut are manually guided towards the cutting disc. An electric pump ensures the cooling water supply during wet cutting. It transports the cooling water from the cooling water tank directly to the cutting blade. This increases the service life of the cutting blade and serves to bind dust. The shut-off valve on the blade guard closes the water supply during dry cutting.

The cutting head is held by a cutting head mount (1). The position of the cutting head can be adjusted via the screw (2) and the catch (3). This allows the cutting blade to be positioned for full or reduced depth of cut. This guarantees a uniform cutting depth over the entire cut.

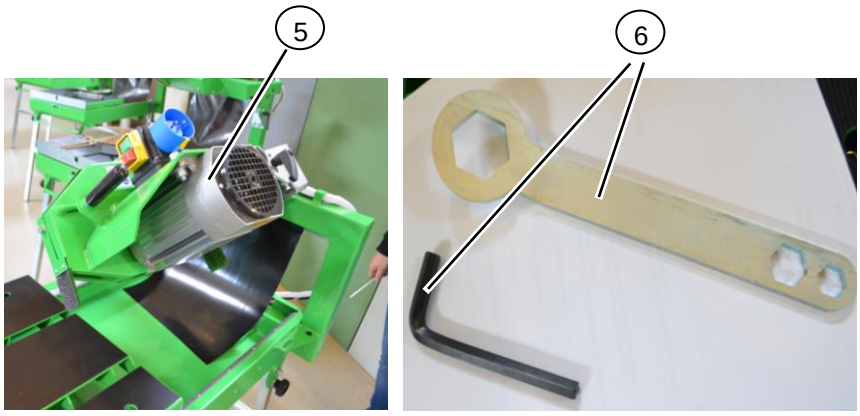
The cutting head of the Table saw BS-350 LST can be angled by 45° (for corner cuts).

To tilt the cutting head of the Table saw BS-350 LST loosen the screws (4.1 and 4.2) and tip the cutting head (5) to the desired angle. Use the tools supplied (6) for this.

BS 500 LST



BS 350 LST



BS 350 LST

Figure 7: Cutting head adjustment

5.3 Operating and display elements

Switchbox

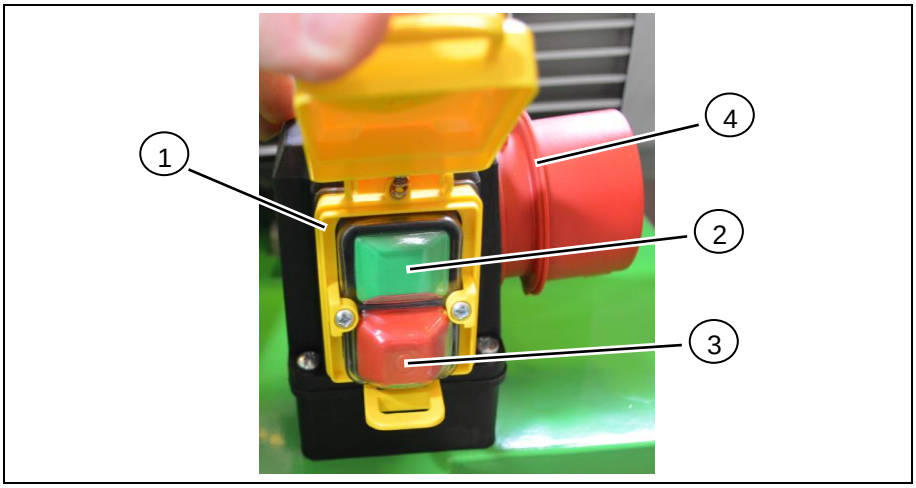


Figure 8: Controls on the switchbox

1	Main switch with emergency off function	2	On button green 1
3	Off button red 0	4	Socket - mains connection

Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST

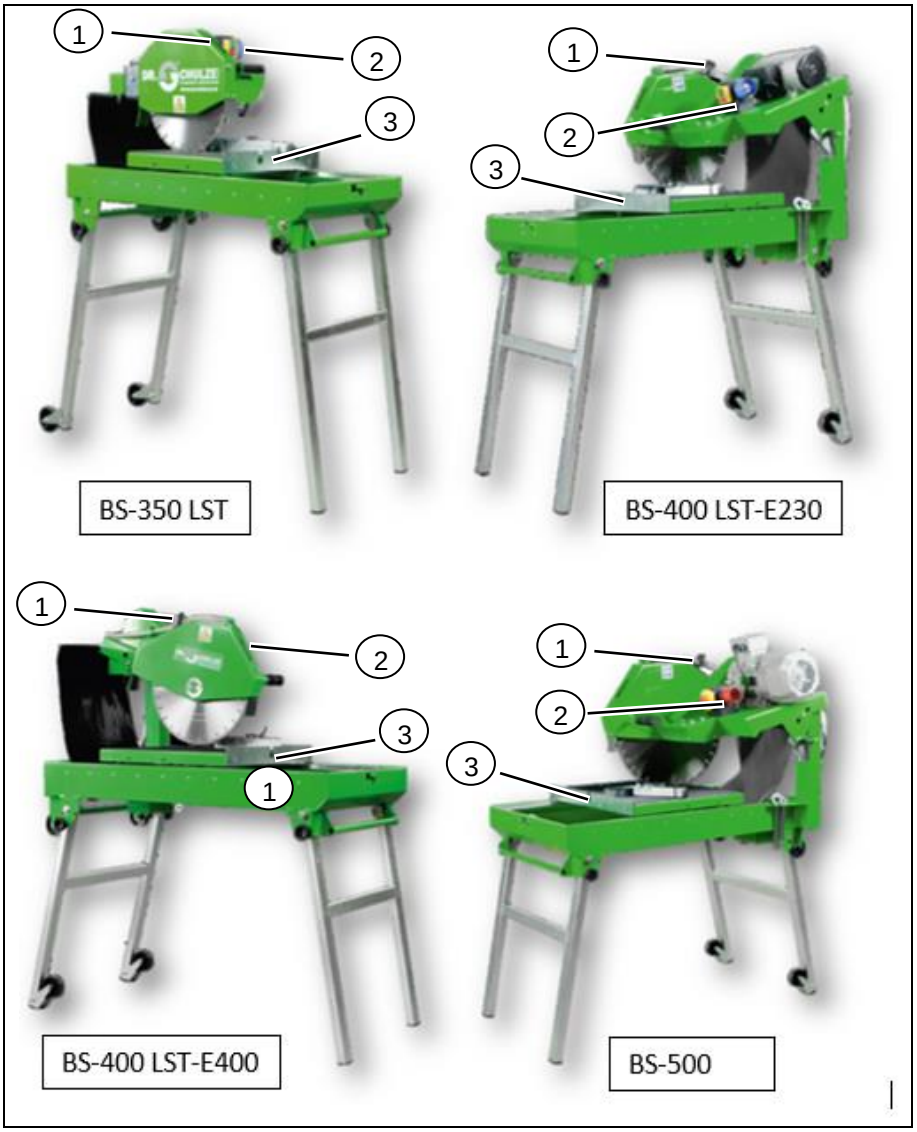


Figure 9: Operating elements of the Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST

1	Shut-off valve of the cooling water supply to the cutting blade	3	Cutting table
2	Socket - mains connection with phase inverter		

6 Transport and storage

6.1 Delivery

Upon delivery of the machine, the following parts / components are included:

Table 4: Delivery

Title	Order number
BS-350 LST with the original operating instructions	MS 1500 1609
BS-400 LST-E230 with the original operating instructions	MS 1500 3315
BS-400 LST-E400 with the original operating instructions	MS 1500 3507
BS-500 LST with the original operating instructions	MS 1500 3316

6.2 Transport

Attention

Serious damage to the transport equipment and the property nearby can result from incorrect transport.

- When loading and unloading and transporting goods within the plant, always proceed with the utmost care and caution.
- Observe the notices and symbols on the packaging.
- Only transport the machine with the transport lock installed.
- Always remove the transport lock during assembly.

The transport product is packaged securely and environmentally for the expected transport conditions. The packaging protects the parts until the start of installation against damage and corrosion.

The goods to be transported are delivered by a forwarding agency and can be brought to the place of use by means of a forklift truck. Transport may only be carried out by specially qualified personnel.

6.2.1 Transport inspection

Check the condition of the transport goods upon receipt of the delivery immediately for completeness and damage.

- Remove packaging and, if necessary, transport safety devices.
- Dispose of packaging material in accordance with local/regional/statutory regulations.
- Check the painted surface of the machine for perfect condition.
- Check all plugs and connections for proper fit.
- Check the model number and serial number on the name label to see if it matches the delivery slip.

Note

Make a complaint about any defect to the freight forwarder responsible as soon as the transported goods are received! Claims for damages due to transport damage can only be asserted within the statutory claims period.

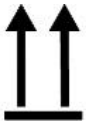
Where there is externally visible transport damage:

- Immediately notify the freight forwarder responsible for delivery in case of damage.
- Delivery is not accepted or subject to reservation.
- Entire the scale of the damage on the transport documents and mention it on the delivery note of the transporter.

6.2.2 Transport symbols

There are symbols on the transport product that correspond to the contents, which must be observed without fail during transport and storage.

The following transport symbols can appear on the transport product:



Above

The arrow points show the top of the transport product. They must point upwards, otherwise the contents can be damaged.

Protect from moisture

Protect the transport product from moisture and keep dry.

Attachment point

Only attach the lifting tackle at the marked positions.

Center of gravity

Indicates the center of gravity of the transport product.
Observe the position of the center of gravity during lifting and transport!

6.3 Transport in-plant

The Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST can be moved using the folding wheels (1) to the place of use. The machine may not be operated when on its transport wheels!

To move short distances with the machine, only two people are needed. To transport it further, it is recommended to use suitable means of transportation.

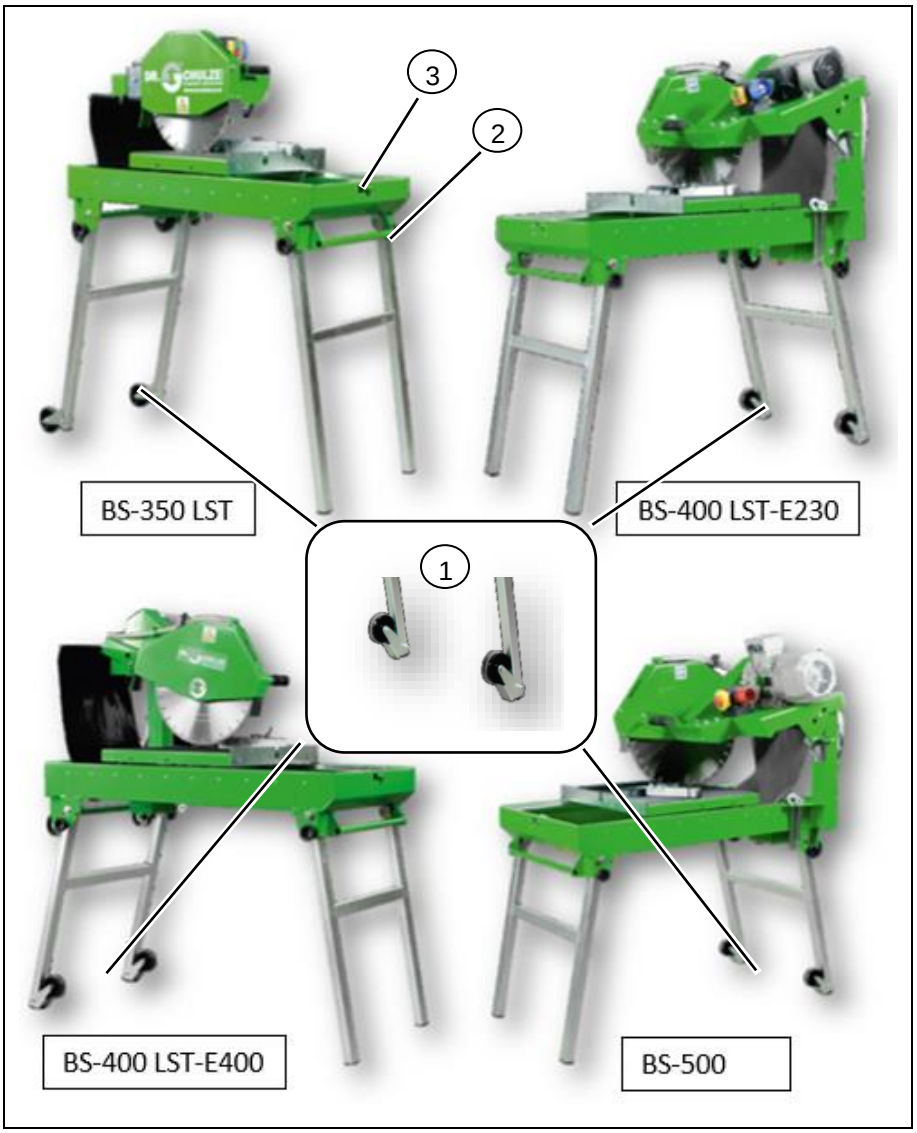


Figure 10: Transport wheels

1. Secure the table against rolling away using the locking system (3) on the rear limit stop of the machine.
2. Fold open the wheels (1) of the adjustable feet by lifting the rear area of the machine and folding the wheels (1) backwards. Use the transport handle (2) to move the machine, to be found in the front.
3. Wheel the Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST to the desired place of deployment.

4. Fold away the wheels (1) of the adjustable feet by lifting the rear area of the machine and folding the wheels (1) inwards.

6.4 Storage

For the storage of the machine, it is necessary to place it according to the indoor environment defined under the storage conditions. Prior to storage, the machine must be properly cleaned, lubricated and dried in accordance with the instructions in the maintenance section, in order to protect it from corrosion.

6.4.1 Storage conditions

Only store the machine under the following conditions:

- Do not store in the open.
- Keep dry and free of dust.
- Do not apply any corrosive substances.
- Protect against sunlight.
- Avoid mechanical shocks.
- Storage temperature 5 °C to 45 °C
- Atmospheric humidity, max. 60 %

6.5 Handling packaging materials

Observe the following when handling the packaging material:

- Always dispose of packing in an environmentally responsible manner.
- Observe local/regional/applicable statutory regulations. Where necessary use a qualified firm for disposal.

Environmental damage due to incorrect disposal!

- Packaging materials are valuable raw materials and can be used again or usefully processed and re-used.

7 Setup

Any installation work may only be carried out by trained personnel authorized by the operator. For all installation work the necessary personal protective equipment (workwear, safety shoes) must be worn.

Work on the electrical connection may only be carried out by qualified electricians.

7.1.1 Notes on setup

Caution

Danger of tripping due to faulty routing of the energy supply!

The cables laid on the floor pose a risk of tripping and therefore falling.

- When setting up the machine, make sure that the energy supply is covered or marked accordingly.
- If possible, move the energy supply in such a way that it poses no danger to transport traffic and people.
- The surface on which work takes place must: have sufficient load-bearing capacity, be non-slip, be horizontal and even or not exceed an inclination of 5 %.

7.1.2 Instruction for use

1) Solve the machine feet from the transport lock and fold them out. Insert each of them in their designed seating (slot) at the corners of the frame until it stops and then tighten the thumb-screws.
2) Take care that the machine stands on solid ground when cutting. Balance out uneven surface.
3) Attach the spring holder (Pos. 31, see exploded view) on the side (Pos. 27) and hang up the cable and water hose in the eyelet of the spring holder.
4) Tighten the clamping screw for securing the cutting head.
5) Solve the clamping screw on the blade guard box and bring the cutting head for clamping the blade in the uppermost position.
6) Remove the outer flange after loosening the hexagonal nut.
7) Fix the suitable diamond blade at the corresponding seat (Ø 25.4 mm) at the inner flange.
8) Pay attention on the correct mounting of the diamond blade:

a) The rotation direction of the blade (pay attention on the engraved arrow at the blade) and the shaft must be corresponding.
b) Bore of the blade (25.4 mm) and retainer at the flange must be corresponding.
c) The inner side of the flange must be free of dirt every time, to ensure a plain seat of the blade.

9) Replace the outer flange, tighten the flange nut, place blade protection cover/ guard and secure with the clamp screw.

10) Adjust the cutting depth by turning the cutting head and tighten the clamp screw.
11) Fill up the tub with water.
12) Connect the machine to the power supply system and switch it on, regulate water supply by using the water tap.
13) Solve the clamp screw, which secure the cutting head.

7.2 Electrical connection

Danger

Danger of injury due to electrical voltage!

There is a risk of injury when touching live parts.

- All electrical connection work may only be performed and inspected and approved by trained electricians.
- Live cables must not come into contact with water or water mist.

The electrical connection of the machine may only be made via a suitable power distribution board. Portable machines used outdoors must be connected through a fault-current circuit breaker.

The Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST are subject to increased safety requirements for wet operation.

Make sure that the machine is always grounded.

Do not use any adapters on the machine. Only use extension cords that meet the requirements of the Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST and the installation site (cross-section, insulation, etc.).

1. Check whether the mains voltage matches with the machine data (see section.
2. Check whether a correctly laid ground cable is available.
3. Connect the Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST to the mains according to the prescribed electrical specifications via the socket for the mains connection.

8 Operation

Any operation may only be carried out by trained personnel authorized by the operator. When working with the machine, wear the necessary personal protective equipment (protective clothing, safety shoes, protective gloves, hairnet, ear protection, face protection).

When working outdoors, rubber gloves and non-slip safety shoes are recommended in particular.

8.1 Notes on operation

Warning

Risk of injury due to improper operation!

The machine may only be operated with mounted protective devices, otherwise there is a risk of injury.

- Ensure before all work that the safety systems are correctly installed and function without error. Never disable safety equipment.
- Responsibilities of the operator, installation of safety systems (RCD) that detect a short-circuit and isolate all connected phases.

Caution

Risk of injury due to loose parts!

An improperly installed cutting blade may loosen during operation.

- Before each operation, check whether the cutting blade is firmly and centrally mounted.
- Check that the blade guard is mounted correctly.

Caution

Danger of injury due to loose workpieces!

Loose workpieces can be ejected uncontrollably during the cutting process.

- Always clamp the workpiece firmly on the storage table.
- Manual holding of workpieces is prohibited.

8.2 Clamping / changing the cutting blade

Caution

Danger of cutting by the cutting blade!

There is a risk of cutting when touching the cutting blade.

- Wear resistant gloves when mounting and changing the cutting blade.
- Isolate the machine from electrical current!
- Only cutting discs approved by the manufacturer and labelled as such may be used for dry cutting. Acute risk of injury arises from the use of unsuitable cutting discs.

Attention

The bore diameter of the cutting blade must match the receiving diameter of the driver flange.

The driver flange and cutting blade must be clean.

An eccentric clamping of the cutting blade will lead to damage to the machine, workpiece and cutting blade.

- Clean the driver flange and the cutting blade before clamping.
- After clamping, check the firm and central position of the cutting blade.

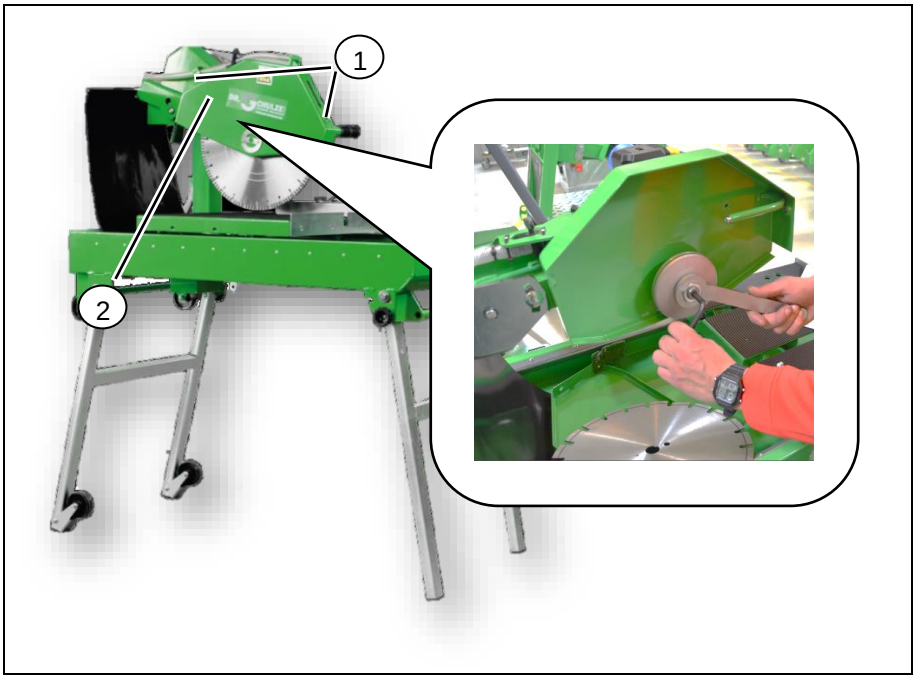


Figure 11: Open blade guard

1. Loosen the screw (1) and remove the blade guard (2).

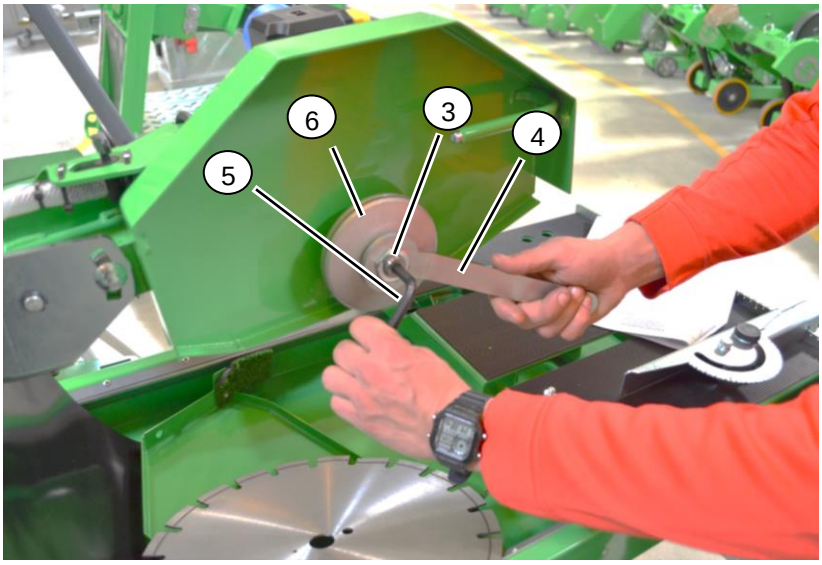
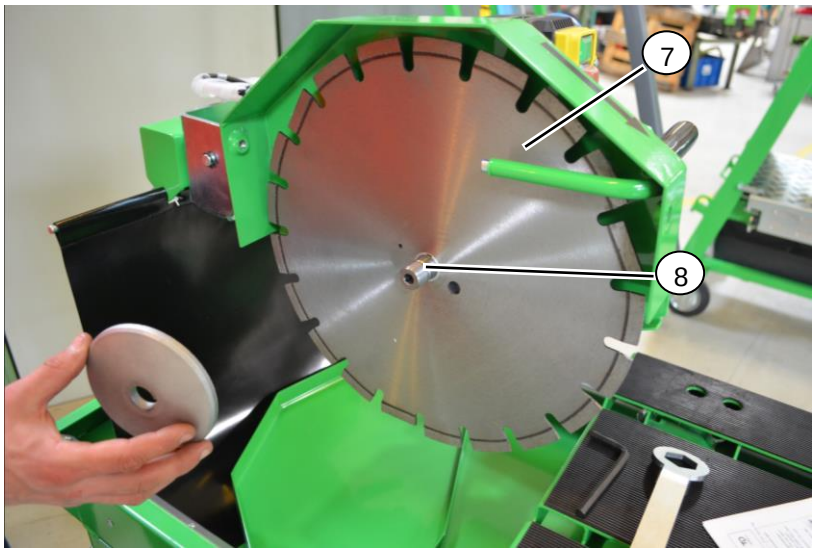


Figure 12: Mounting the cutting blade

2. Take note that this is a left-hand thread!
3. First release the nut (3) using the tools supplied (ring spanner (4) and Allen key (5)) and then unscrew it. To release it, hold the cutting shaft fast with the second tool supplied (ring spanner (4)).
4. Remove the outer driver flange (6) from the shaft.
5. To change, take the cutting disc (7) from the cutting shaft or place the new cutting disc on the cutting shaft.
6. Clean the driver flange (6) and the saw blade (7) to be clamped carefully.



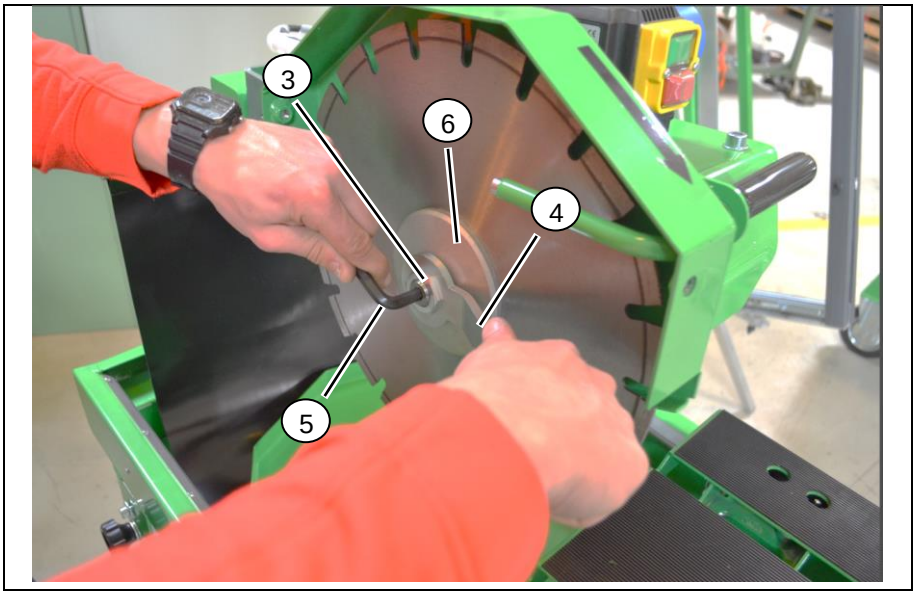


Figure 13: Mounting the cutting blade

7. Place the cutting blade (7) on the collar (8) of the inner driver flange.

Note

Use only by Dr. Schulze GmbH-approved cutting blades.

The cutting disc used must always be appropriate for the material to be cut. Always work in the specified performance range.

8. Put on the outer driver flange (6).
9. First attach the nut (3) and then do it up using the tools supplied (ring spanner (4) and Allen key (5)). To tighten it, hold the cutting shaft fast with the ring spanner (4) supplied.

Note

The cutting blade must turn to the right when looking at the outer flange. The direction of rotation indicated on the cutting blade must correspond to this direction of rotation.

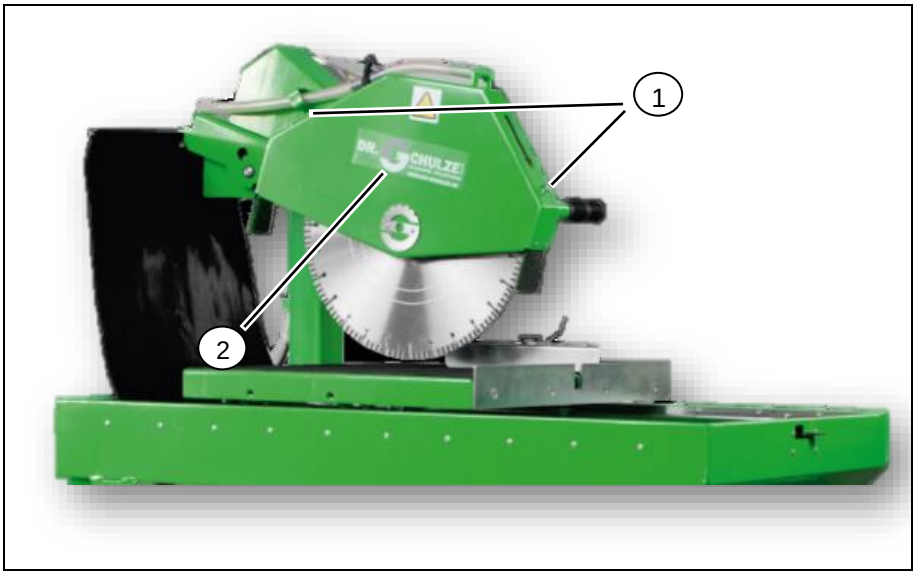


Figure 14: Mounting the blade guard

10. Close the blade guard (2) with the latches (1).

8.3 Filling the cooling water

Attention

If the cutting blade is not adequately supplied with cooling water during wet cutting, overheating may occur, leading to premature wear, failure or segment loss of the cutting blade.

- The outlet nozzle of the water hose on the blade guard must not be blocked.
- The water pump must not run dry.
- Check the level in the cooling water tank regularly and top up if necessary.
- If there is a risk of frost, drain the cooling water tub and open the shut-off valve.

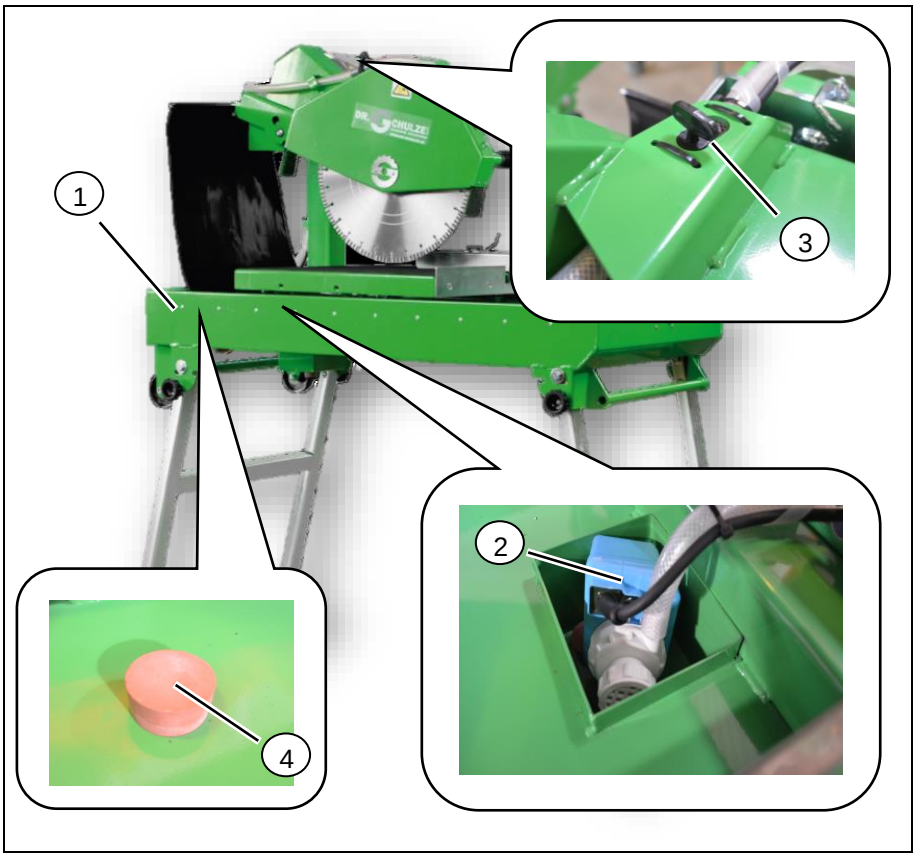


Figure 15: Water coolant tank with water pump

1. Ensure that the rubber stopper (4) is inserted in the tank's water outlet.
2. Fill enough water into the water coolant tank (1) that that pump (2) can always run.
3. Check that the shut-off valve is set correctly for each cut:
   - Wet cutting: Shut-off valve opened.
   - Dry cutting: Shut-off valve closed.

Note

When wet cutting, the rotating cutting blade must be sprayed with sufficient cooling water. You can regulate the amount of water via the shut-off valve.

8.4 Turn on the Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST

1. Make sure that the cutting blade is in perfect condition as well as fixed and centered.
2. Make sure the blade guard is closed.
3. Check the level of cooling water and the position of the shut-off valve.
4. Connect the power at the mains plug (1).

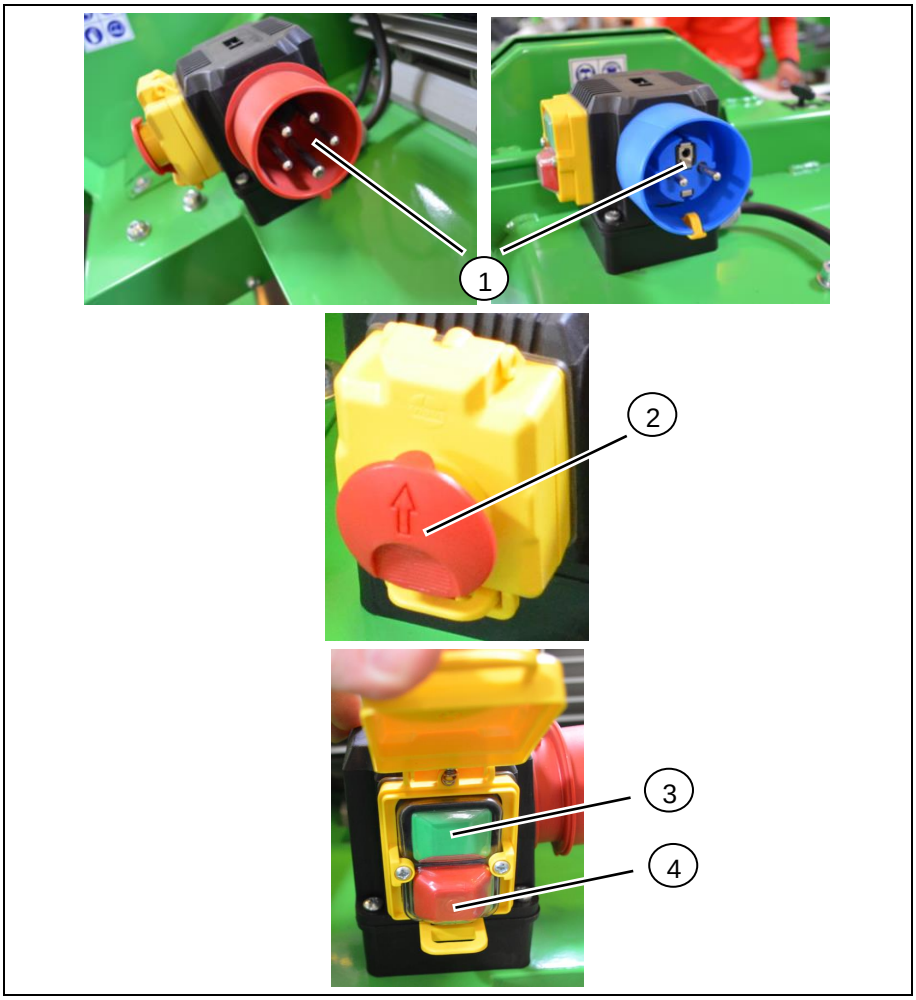


Figure 16: Turn on the Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST

5. Open the emergency off cover (2) of the main switch.
6. Press the green on button 1 (3).
7. Set the star-delta switch (1) to the “star” position.
8. Wait until the drive has reached its maximum speed.
9. Set the star-delta switch (1) to the “delta” position.
10. Check the direction of rotation of the cutting shaft using the cutting blade.

Note

BS-400 LST-E400 / BS-500 LST

If the cutting disc is turning in the wrong direction, press the emergency off button (4). Disconnect the Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST from the mains connection. Then turn the plug-in integrated phase inverter (3) with a screwdriver.

After changing the direction of rotation, make the mains connection and repeat the switch-on procedure.

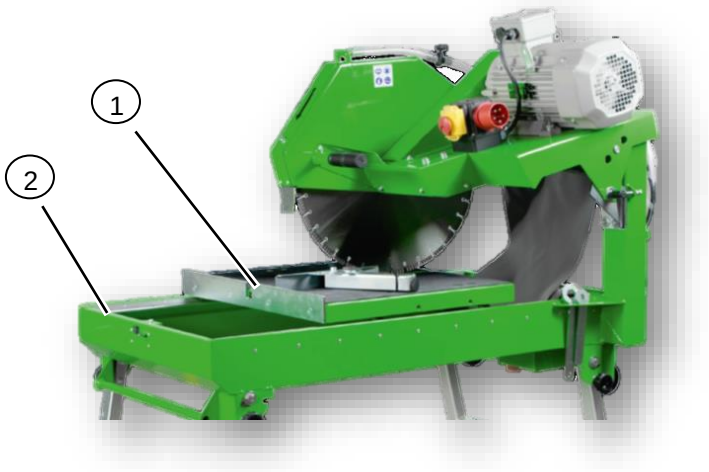
8.5 Cutting process

Warning

Danger of injury due to rotating cutting blade!

During operation, do not reach into the danger zone of the machine. In addition, the machine may only be operated with mounted protective devices.

- Ensure before all work that the safety systems are correctly installed and function without error.
- Do not reach into the running machine.



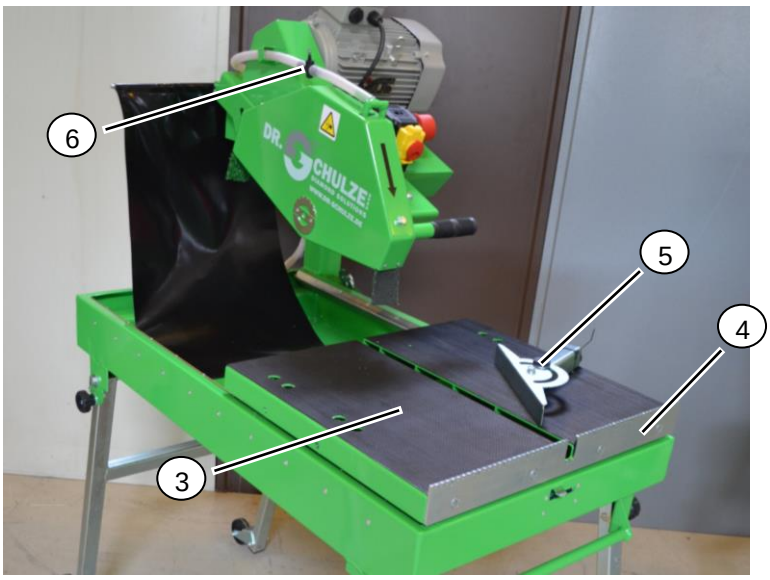


Figure 17: Cutting process

1. Move the cutting table using the manual guide (1) to the rear limit (2).
2. Place the workpiece on the support table (3) in such a way that it abuts the fixed stop rail (4). For angled cuts use the angle stop rail (5).
3. Switch the Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST on.
4. Switch on workpiece cooling.
5. Move the cutting table with the workpiece by pushing the manual guide (1) towards the cutting disc.
6. Continue to push the cutting table forward until the workpiece has been split. Take care in doing so that the workpiece does not twist.
7. Once the cutting procedure is complete, retract the mobile sections to the rear limit.
8. Close the shut-off valve.
9. Switch the Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST off.
10. Remove the cut workpiece from the cutting table.

8.6 Switch Off

8.6.1 Pause

1. After the mobile sections has reached the rear stop, press the emergency stop button (1).

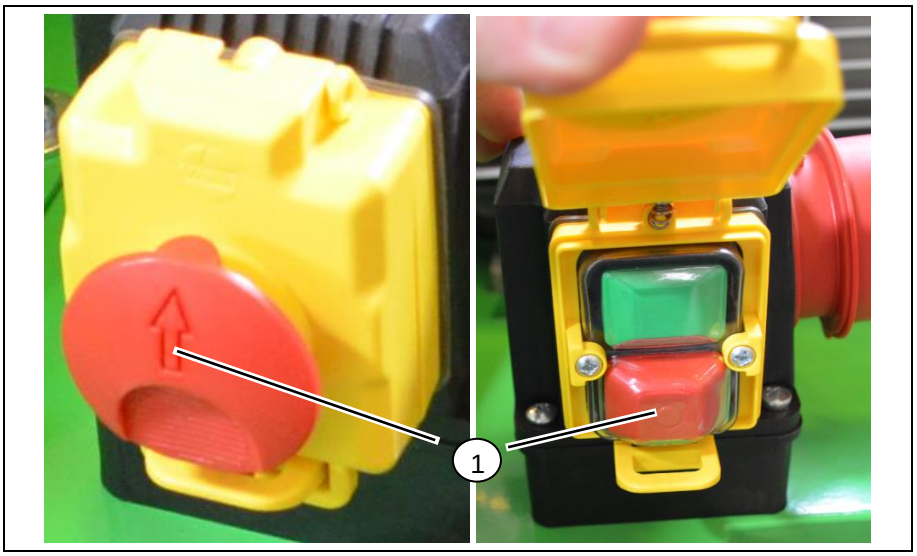


Figure 18: Turn off the Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST

8.6.2 Shutdown

1. After the upper carriage has reached the rear stop again, press the emergency stop button (1).
2. Clean the Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST as described in section 9.3.
3. De-tension the V-belt when the machine is shut down for longer periods (BS-400 LST-E400 / BS-500 LST) (see section > changing V-belt).

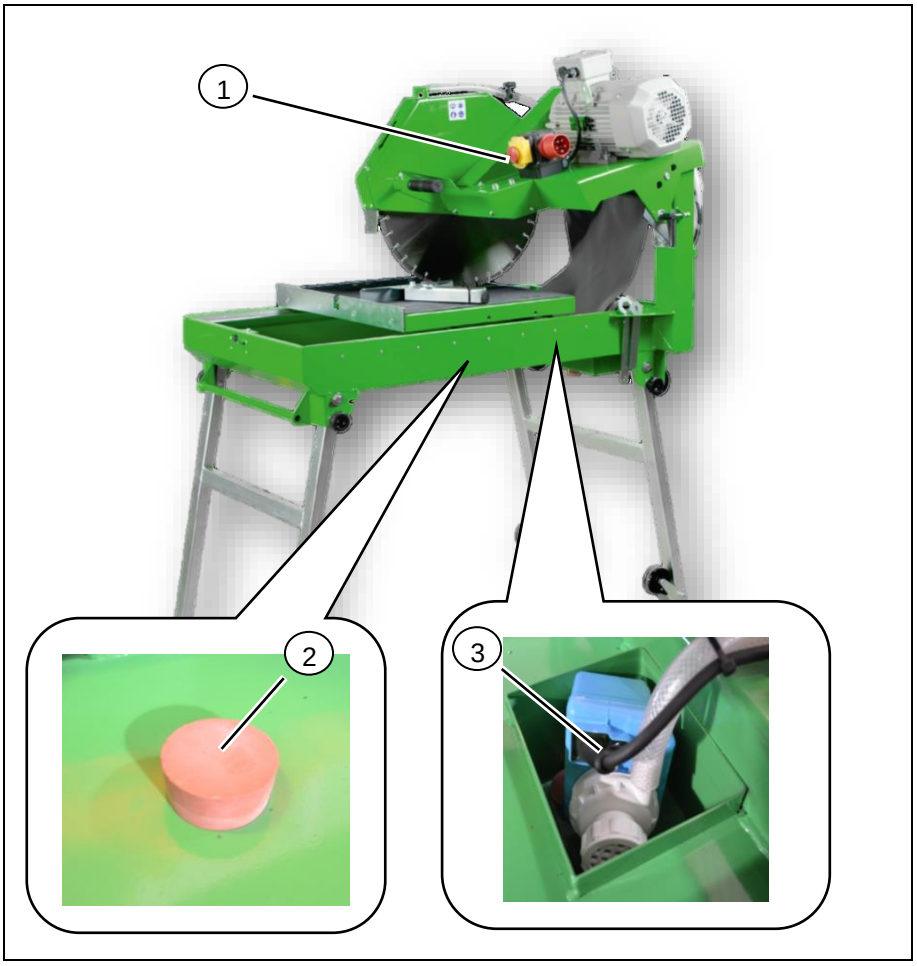


Figure 19: Turn off the Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST

4. Release the coolant water from the water coolant tank via the drain plug (2) and dispose it according to local rules and regulations. (Also see section 9.2.1)
5. For the machine at a longer standstill, remove the water pump (3) and clean it according to the manufacturer's instructions. (Also see section 9.2.1)

Note

For the water pump (3), Dr. Schulze GmbH offers no guarantee. The water pump must be thoroughly cleaned after every use according to maintenance plan 9.2.1.

8.7 Shutdown in emergency

In case of danger:

6. Immediately press an emergency stop button.
7. Inform those in charge at the site.
8. If required, alert a doctor and the fire service.
9. Retrieve injured persons and apply first aid.
10. Disconnect the plug.
11. Keep the approaches for rescue vehicles free.

8.7.1 Measures before restarting after an emergency stop

After rescue measures:

1. Where required, contact the responsible authorities.
2. In the event of damage to the machine, have it repaired by qualified personnel.
3. Inspect the machine thoroughly before restarting for its technical condition to ensure that all functions are operating without faults.

8.8 Settings

8.8.1 Setting the cutting depth

The cutting head is held by a cutting head mount (1). The position of the cutting head can be set using the tensioning lever (2) and the locking mechanism (3). This allows the cutting disc to be positioned for full or reduced cut depths. In this way, an even depth of cut can be guaranteed along the entire length.

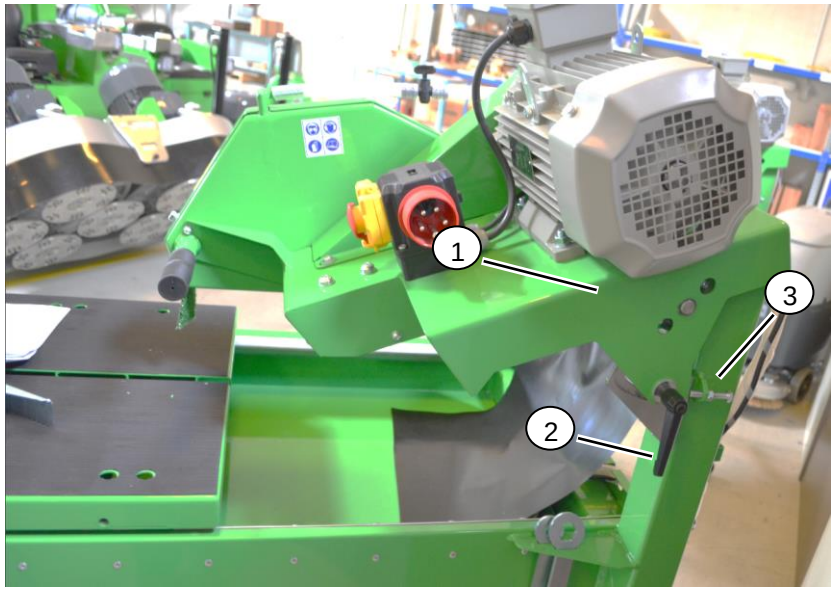


Figure 20: Setting the cutting depth

1. Loosen the tensioning lever (2).
2. Move the cutting head with the cutting disc along the elongated hole on the locking mechanism (3) to achieve the desired cut depth (vertical position).
3. Fix the cutting head (1) using the tensioning lever (2).

8.8.2 Adjust cutting table

Tools required:

- Allen key (1)
- Steel right angle (2)
- 1 piece of material: stone or brick

Start position: Look at cutting disc (6) (reference)

Start of adjustment:

- Isolate the machine from electrical current
- Undo the blade protector fixtures and remove
  the blade protector
- Place a steel right angle (2) against the limit stop (3) of the cutting table.

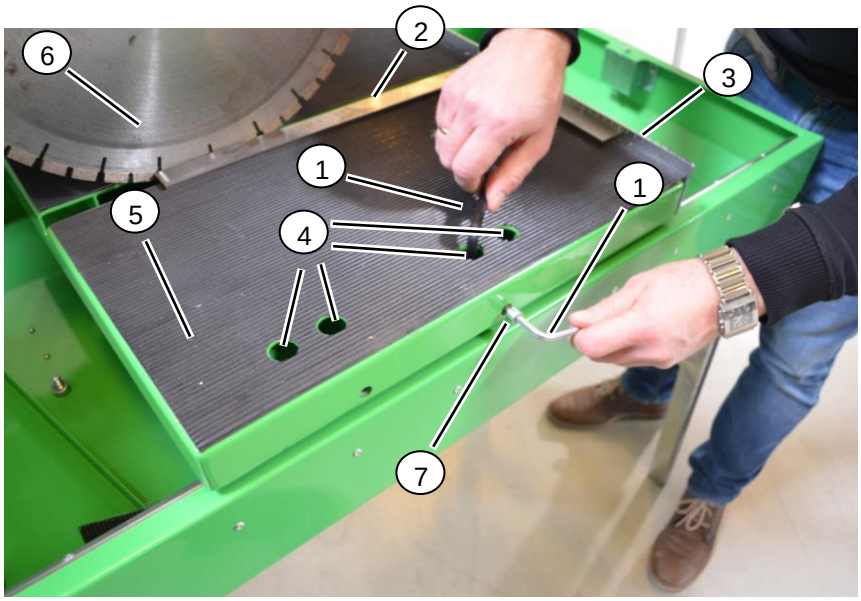


Abbildung 21: Adjust cutting table

- Release the 4 screws of the cutting table (5).
- Orient the cutting table (5) by the cutting disc (6).
  To do so, use the steel right angle (2).
- After the adjustment, tighten the 4 screws (4) on the cutting table (5).
- Using the clamping screw on the side (7), the gentle running of the
  Machine can be set.
  Please take note that these are eccentric guide rollers.

9 Maintenance and cleaning

Any maintenance work may only be carried out by trained personnel authorized by the operator. All necessary personal protective equipment (workwear, safety shoes) must be worn during all maintenance work.

Work on the electrical connection may only be carried out by qualified electricians.

9.1 Maintenance

9.1.1 Notes on maintenance

Danger

Danger of injury due to electrical voltage!

There is a risk of injury when touching live parts.

- All electrical connection work may only be performed and inspected and approved by trained electricians.
- Before carrying out maintenance and repair work, switch off the power supply and secure it against being switched on again.
- Be careful not to damage the insulation when working on electrical lines and cables.
- Remove moisture from the parts.

Warning

Danger of injury due to unintentional startup of the machine!

Maintenance work may only be carried out with the power supply disconnected.

- Before any maintenance work, make sure that the machine is disconnected from the mains connection.

9.1.2 Maintenance plan

In the following sections the maintenance works are described, which are required for optimal and fault-free operation.

- If the regular inspections show signs of wear on the parts, shorten the service intervals based on the actual signs of wear.
- Document all maintenance in a maintenance log.
- In case of questions on the maintenance works and intervals contact the manufacturer.

Table 5: Maintenance plan

Interval	Maintenance work	Remarks
Before every operation	– Check screws for tightness.	The machine is subjected to vibrations during operation.
	– Check connection cable and plug for damage.	By qualified electricians.
	– Check protective devices for function and presence.	
	– Visual inspection of the cutting blade for wear.	If worn or damaged, replace the cutting blade. Always clamp a cutting blade that fits the workpiece.
After every use	– completely clean the water pump.	Use a suction strainer and rinse through with fresh water
At each cutting blade change	– Clean the driver flanges.	
3 hours after commissioning	– Test the V-belt tension.	Re-tighten V-belt if necessary
8 h	– Visual inspection of the cooling water tank for deposition of slurry.	When the slurry has settled, clean the cooling water tank.
	– Visual inspection of the spray nozzles of the forks on deposits.	If the spray nozzles have become contaminated with deposits, clean them.
	– Clean the guide of the mobile sections. – If necessary, oil the chain.	
300 h	– Visual inspection of the handwheel shaft, rocker shaft and cutting shaft – If necessary, lubricate the bearings of the shafts via the grease nipple with 2-3 strokes.	
500 h	– Visual inspection of the V-belt for wear. – Test the V-belt tension.	Replace or tension V-belt if necessary.
	– Testing the chain tension.	If necessary, tension the chain.

Table 5: Maintenance plan

Interval	Maintenance work	Remarks
	– Check bearing for wear. The service life is 500 to 1000 h	Bearings may only be replaced by the manufacturer. Please ask customer service.
3 months	– Check the entire drive and the electrical parts of the machine for correct setting and function.	The test should be carried out by the manufacturer or by an authorized representative.
annually, before first use	– Have the machine checked for electrical safety in accordance with VBG4 [Accident-prevention regulations], §5.	By qualified electricians. The test must be documented.
See manufacturer's instructions	– Maintenance work on the water pump	For information, please refer to the manufacturer's instructions

9.1.3 Measures after Maintenance is Carried Out

After completing the maintenance and before turning on the machine, perform the following steps:

1. Check all previously loosened screw connections for tightness.
2. Check that all previously removed guards and covers are properly reinstalled.
3. Make sure that all electrical safety devices (e.g. emergency stop buttons) are working properly.

9.2 Maintenance work

Attention

Only original spare parts may be used.

Other parts can influence the safety functions and the behavior of the machine.

9.2.1 Emptying the cooling water tank

The water pump (1) is in a sludge protection nest (2) in the water coolant tank (3). The sludge protection nest in the water coolant tank ensures that the sludge does not deposit on the water pump and thus only relatively clean water enters the water pump.

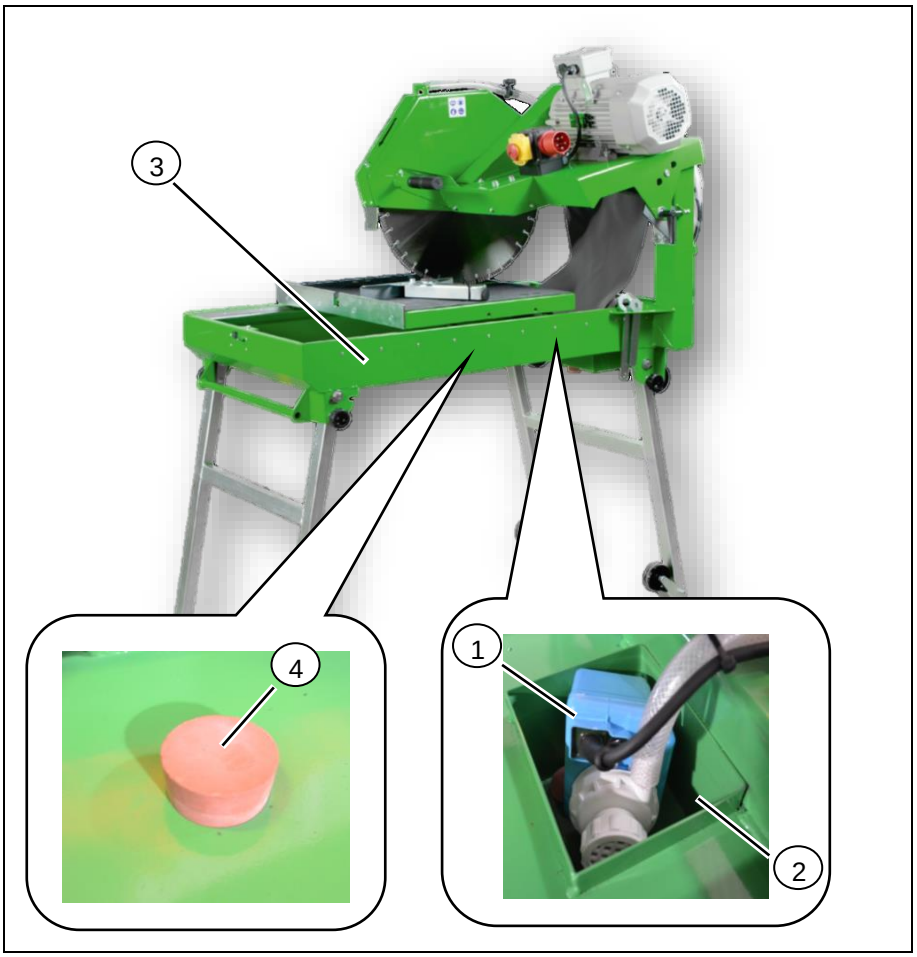


Figure 22: Draining the cooling water tank

1. Remove the drain plug (4) of the water coolant tank (3). These are in the water coolant tank (3).
2. Wait until the coolant water has drained. Take care, when disposing of it, of local rules and regulations.
3. Clean the water coolant tank (3) with water.

4. If the machine is shut down for a long time, dismount the water pump (3) and clean it according to manufacturer instructions.
5. Insert the drain plug (1).
6. Refill the water coolant tank (2) with water.

9.2.2 Clean the water fork

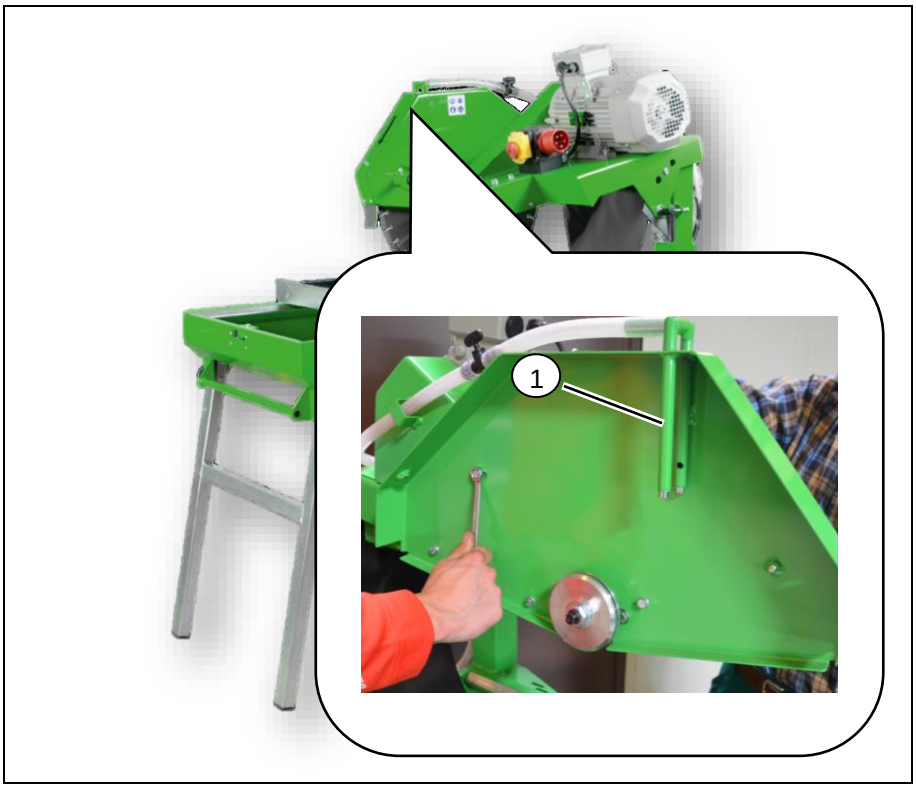


Figure 23: Clean the water fork

1. Open the blade protector by loosening the screws and removing the blade protector.
2. Dismount the cutting disc (see section 8.2).
3. Blast out the water fork with pressurised air or clean it with water.
4. Mount the cutting disc (see section 8.2).
5. Apply the blade protector and fasten it with the screws.

9.2.3 Replacing the V-belt

No V-belt is pre-attached to the Table saw BS-350 LST > direct drive.

Procedure to change the V-belt (BS-400 LST E400, BS-500 LST).

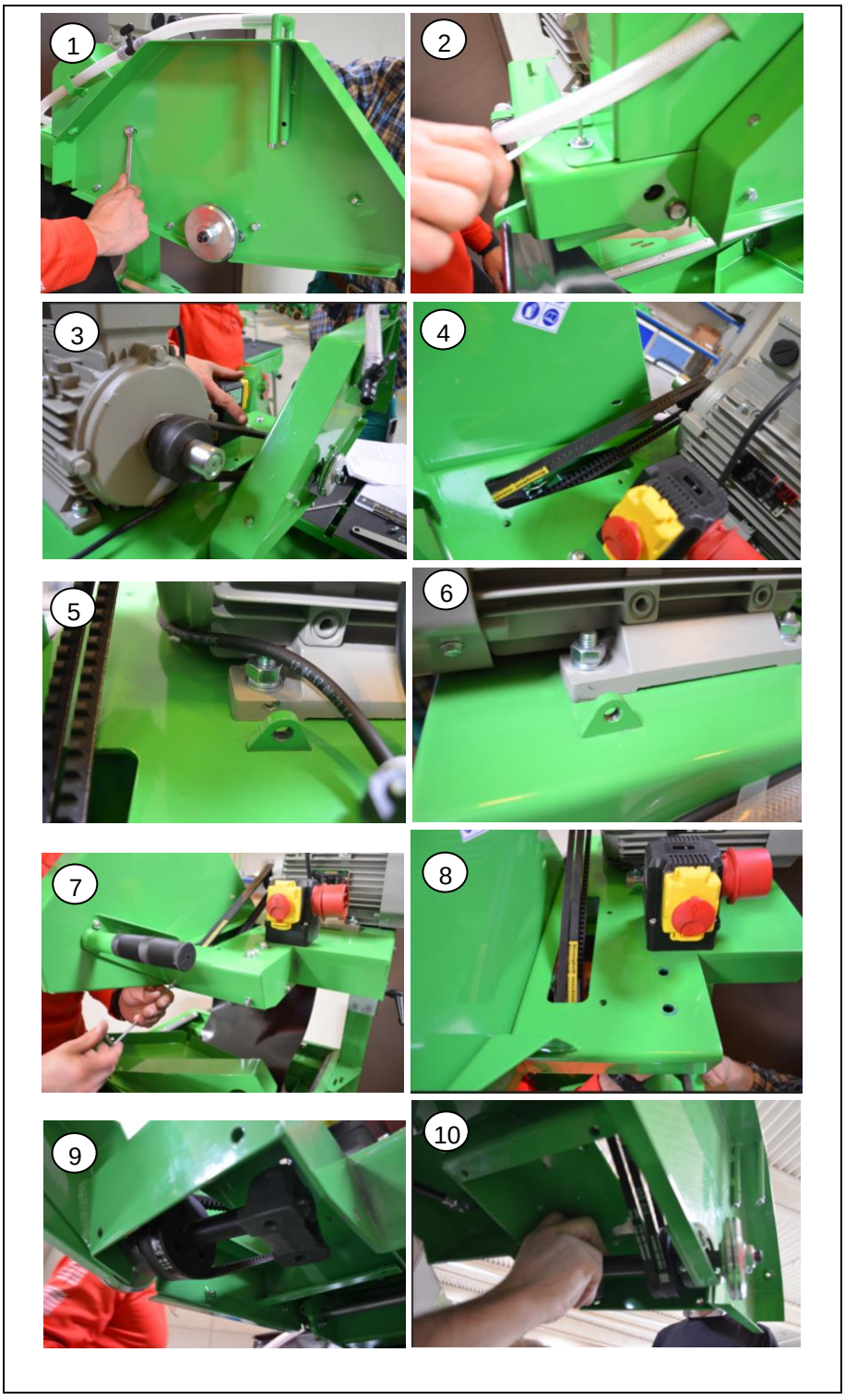


Figure 24: Replacing the V-belt

1. Open the blade protector by loosening the screws and removing the blade protector.
2. Dismount the cutting disc (see section 8.2).
3. Dismount the coolant tube.
4. Dismount the V-belt covers (upper and lower).
5. Release the drive motor’s attachment screws and loosen the V-belt.
6. Dismount the bearing block.
7. Remove the 2 V-belts.
8. Replace the 2 V-belts.
9. Assembly takes place in the opposite order.
10. Use a thread-locking adhesive during assembly!

9.3 Cleaning

Caution

Danger due to aggressive cleaning agents!

The use of cleaning materials can lead to injuries to the skin or airways.

- When working with cleaning materials the national and local statutory regulations for environmental protection and disposal must be observed.
- Wear appropriate personal protective equipment.
- No cleaning materials containing solvents may be used.
- Observe the instructions in the safety data sheets for the cleaning material used.

9.3.1 Cleaning the machine

1. Turn off the machine.
2. Disconnect the mains connection.
3. Clean the machine with water.

Note

Make sure that no water gets into the control box.

4. Wait until the machine is dry.
5. Reconnect the machine. (See section 1))

   The machine is ready for use again.

10 Faults

Faults may only be rectified by trained and authorized personnel. For all work, the necessary personal protective equipment (workwear, safety shoes) must be worn.

Work on the electrical connection may only be carried out by qualified electricians.

10.1 Actions in case of faults

Actions after the occurrence of a fault

In general, the following applies:

1. In the event of faults that pose an immediate danger to persons or property, immediately trigger the emergency stop button.
2. Switch off all power supplies and secure them against being turned back on.
3. Inform those in charge at the site.
4. Depending on the type of fault, report the fault to the responsible and authorized qualified engineer and have it resolved by them.

Action after remedying of a fault

1. Check all screw fittings for tightness.
2. Check whether all previously removed protective devices and covers have been properly installed again.
3. Ensure that all tools, materials and other equipment used are removed from the work area.
4. Clean the work area and remove any leaked substances, such as, for example, fluids, work substances or the like.
5. Make sure that all electrical safety devices (e.g. emergency stop buttons) of the system are working properly.

10.2 Process related faults

Table 6: Process related faults

Fault	Possible causes
The direction of rotation of the cutting blade is wrong.	The drive is incorrectly polarized. Turn the phases around at the phase inverter.
	Motor protection switch is closed in the control box.
The drive of the cutting head does not start.	The fuse of the mains connection is defective.
	The cable cross-section of the supply cable is too small.
	The supply cable is damaged.
	The drive is defective.
The drive does not have enough power or the thermal overload relay triggers.	The voltage of the mains connection does not match that of the motor.
Drive shuts off during the cutting process. The machine can be switched on again after a break.	The feed during the cutting process is too large.
	The cut takes place.
	The cutting blade is worn (dull).
	The cutting blade used does not fit the workpiece. The workpiece consists of overly hard material.
No cooling water on the cutting blade	The shut-off valve on the cooling water supply to the saw blade is closed.
	The level in the cooling water tank is too low
	The water forks or spray nozzles are clogged.
	The water pump is defective.
The cut takes place.	The cutting blade is not perpendicular to the cutting table.
	The cutting blade has come off.
	The cutting blade is worn (dull).
	The cutting table does not run straight forward on the guide.
The drive is running, but the cutting blade does not cut.	The cutting blade is worn (dull).
	The cutting blade used does not fit the workpiece. The workpiece consists of overly hard material.

11 Removal and disposal

11.1 Notes on removal and disposal

Caution

Risk of poisoning from grease and oil!

When working with oils and greases there is a risk of poisoning.

– Observe the safety data sheets from the supplier, use personal body protection equipment.

11.2 Disposal

This machine complies with Directive 2012/19/EU (WEEE) of 08/13/2012. The manufacturer undertakes to take back the associated equipment for disposal. The device should be delivered free of charge to Dr Schulze GmbH or the place of acceptance designated by the manufacturer. Abroad, the device shall be returned to the sales agents of Dr. Schulze GmbH.

Environmental damage due to incorrect disposal!

– Old devices contain valuable raw materials that can be reused or processed and recycled.

12 Indices

12.1 Table of Figures

12.2 List of tables

13 Annex

- Appendix 1: Conformity Statement
- Appendix 2: Circuit diagram
- Appendix 3: Replacement parts list

13.1 Declaration of conformity within the meaning of the Machinery Directive 2006/42/EC Annex II 1A

Declaration of conformity
within the meaning of the Machinery Directive 2006/42/EC Annex II 1A

We hereby confirm that the CE labelling process for the product listed below has been completed and has met the basic requirements of the EC Machinery Directive 2006/42/EC, EC Guideline for Electro-Magnetic Compatibility 2014/30/EU and the Outdoor-Guideline 2000/14/EC, guideline for environment-polluting sound emissions for devices and equipment designed for outdoor use. The protective regulations of the Low Voltage Directive 2014/35/EU have been met. In the event the equipment is modified without coordinating the modification process with us, this declaration is no longer valid. A complete list of the applied standards, guidelines and specifications as well as complete technical documentation is available at the manufacturers.

Manufacturer:	Dr. Schulze s.r.o. Hulínská 1814/1b 767 01 Kroměříž Czech Republic Tel.: +420 573 336 101
Provider of Documentation:	Dr. Schulze s.r.o. Hulínská 1814/1b 767 01 Kroměříž Czech Republic Tel.: +420 573 336 101
Machine:	Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST
Serial Number:	See name plate
Applied Standards:	DIN EN 12418 Stone cutting equipment for use at construction sites – safety DIN EN ISO 12100 Equipment safety – general design guidelines – risk assessment and risk reduction. DIN EN ISO 13857 Equipment safety – safety distance for approaching hazardous areas with the upper and lower extremities. DIN EN ISO 14120 Equipment safety – separation safety guards – general requirements for the design and construction of stationary and mobile separation safety guards. DIN EN ISO 13850 Equipment safety – emergency stop – design sets. DIN EN 349 Minimum distance to prevent contusions of body parts. DIN EN 60204-1 Electrical equipment for industrial machines.

767 01 Kroměříž June 08, 2018

Mr. Marek Motalik
Executive Director and CE-Representative

13.2 Circuit diagram for the Table saw BS-350 LST, BS-400 LST-E230, BS-400 LST-E400, BS-500 LST

Figure 25: Circuit diagram

13.3 Replacement parts list

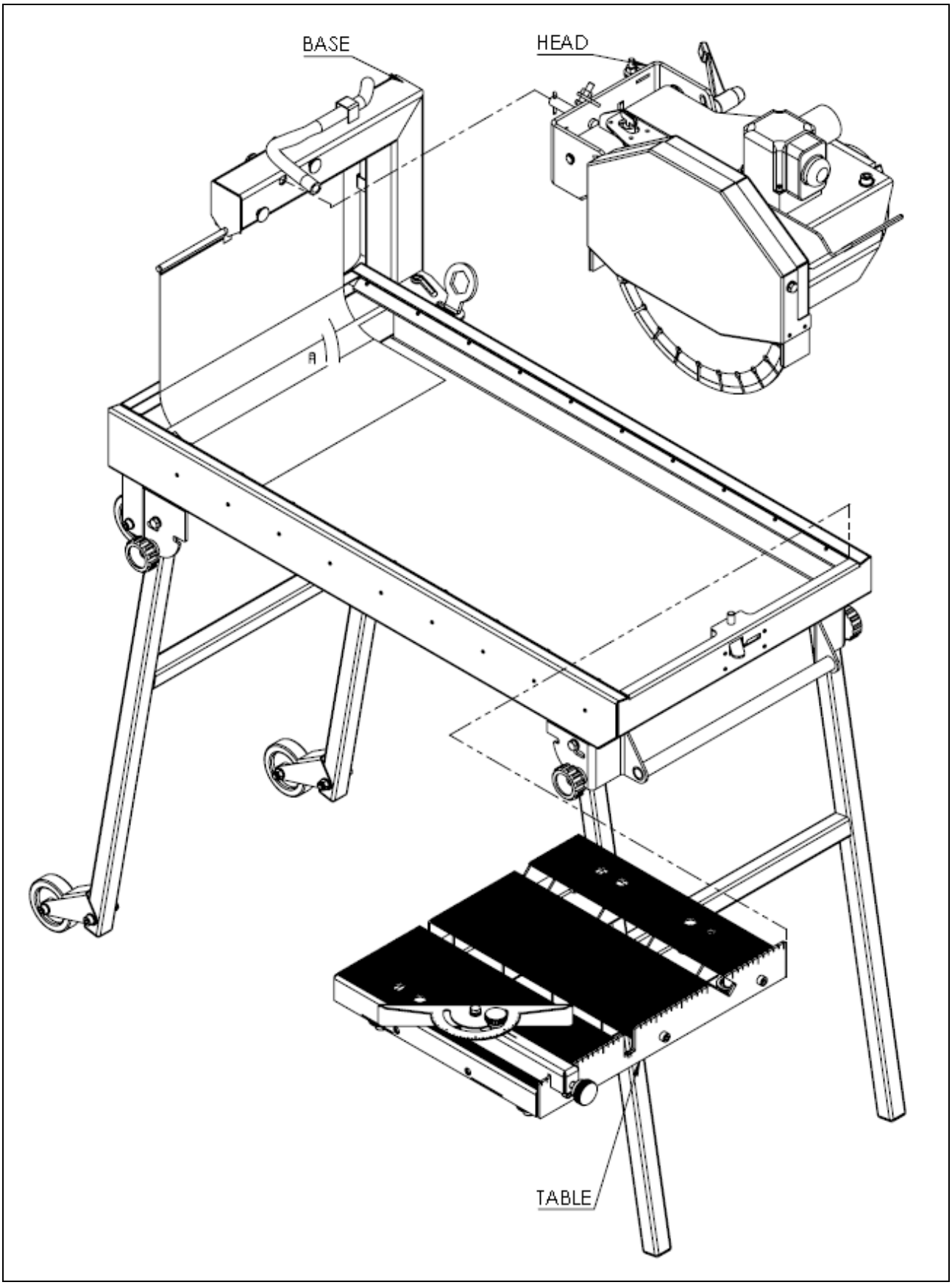


Figure 26: Replacement parts list

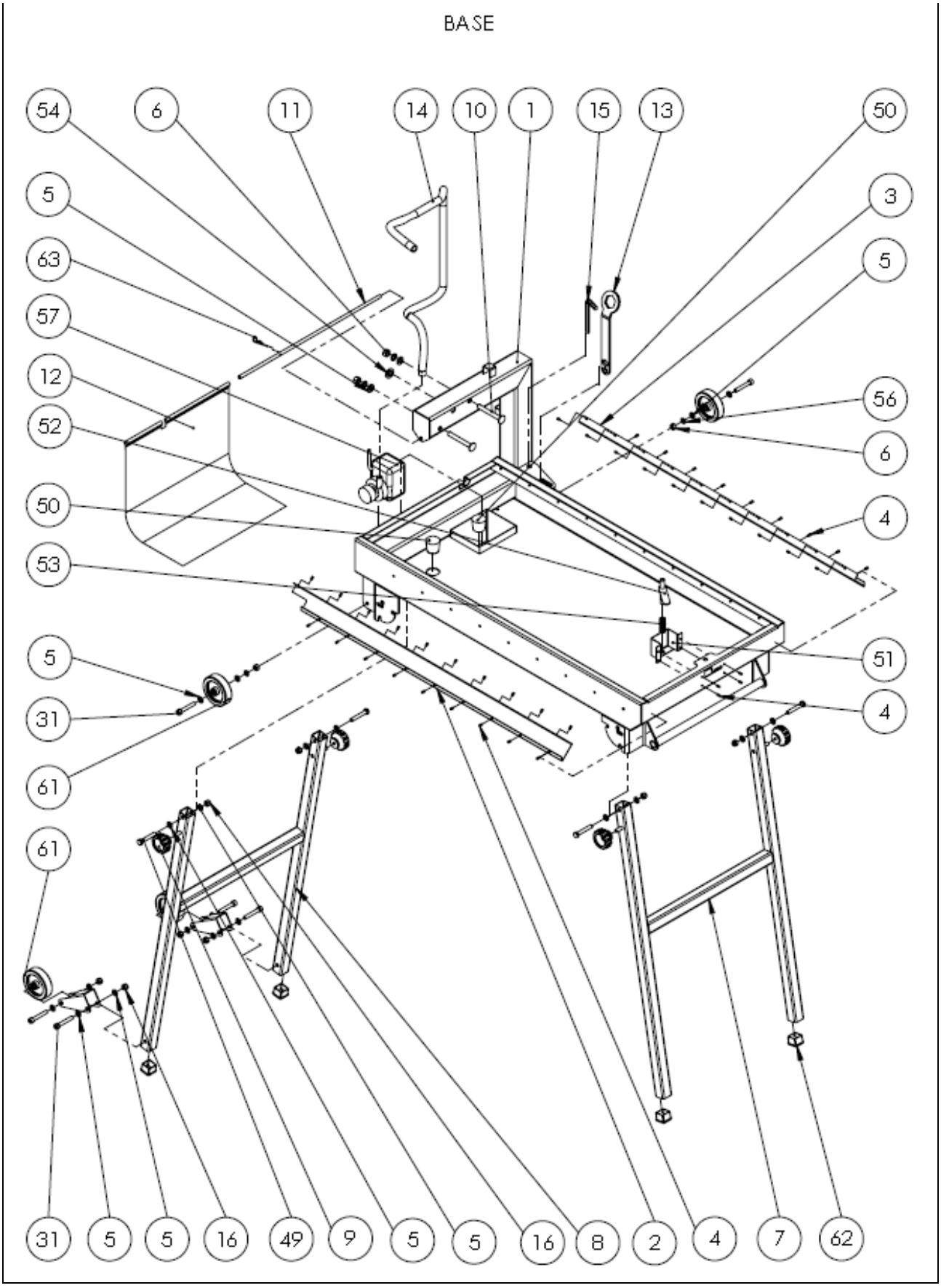


Figure 27: Replacement parts list

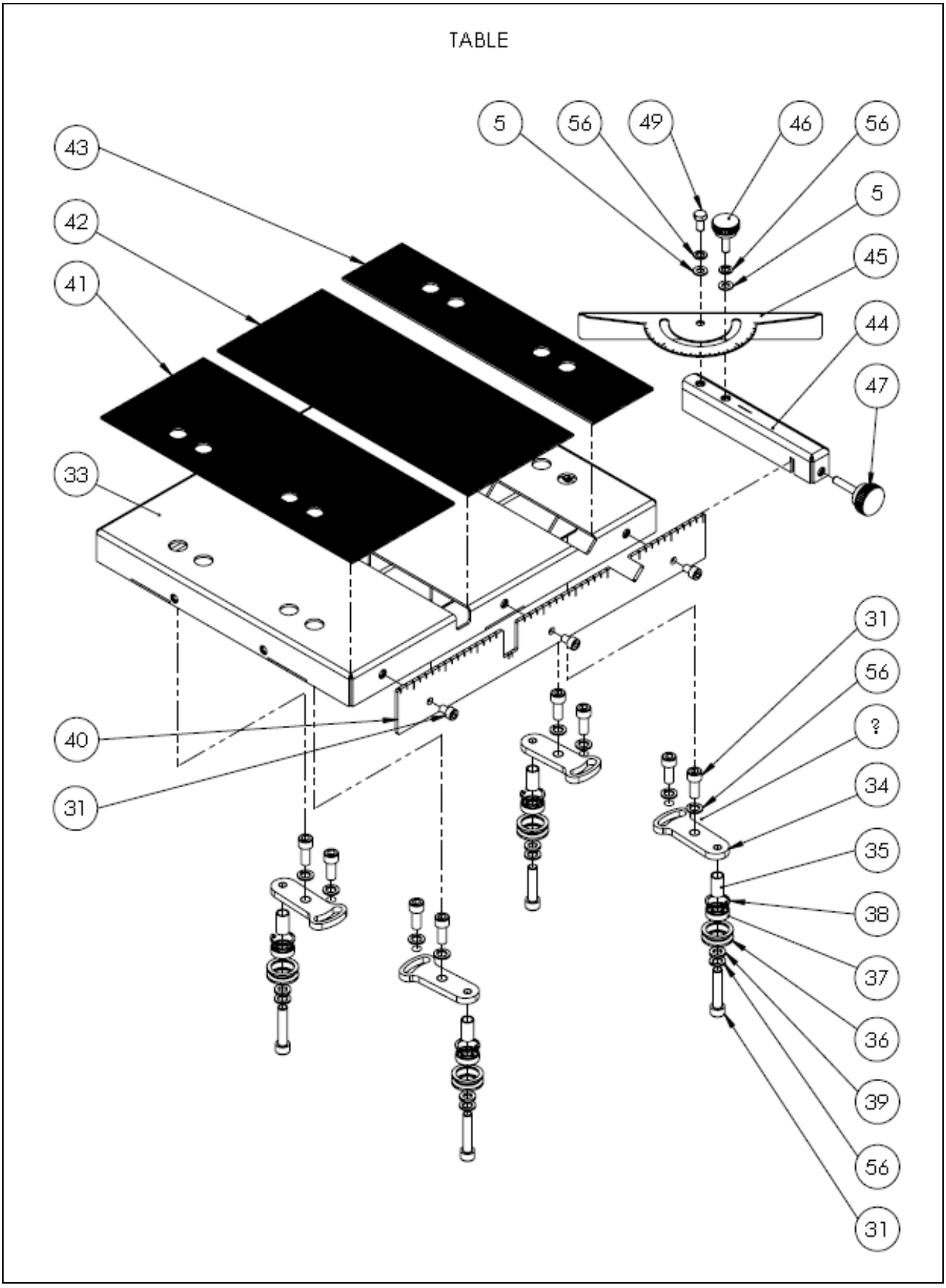


Figure 28: Replacement parts list

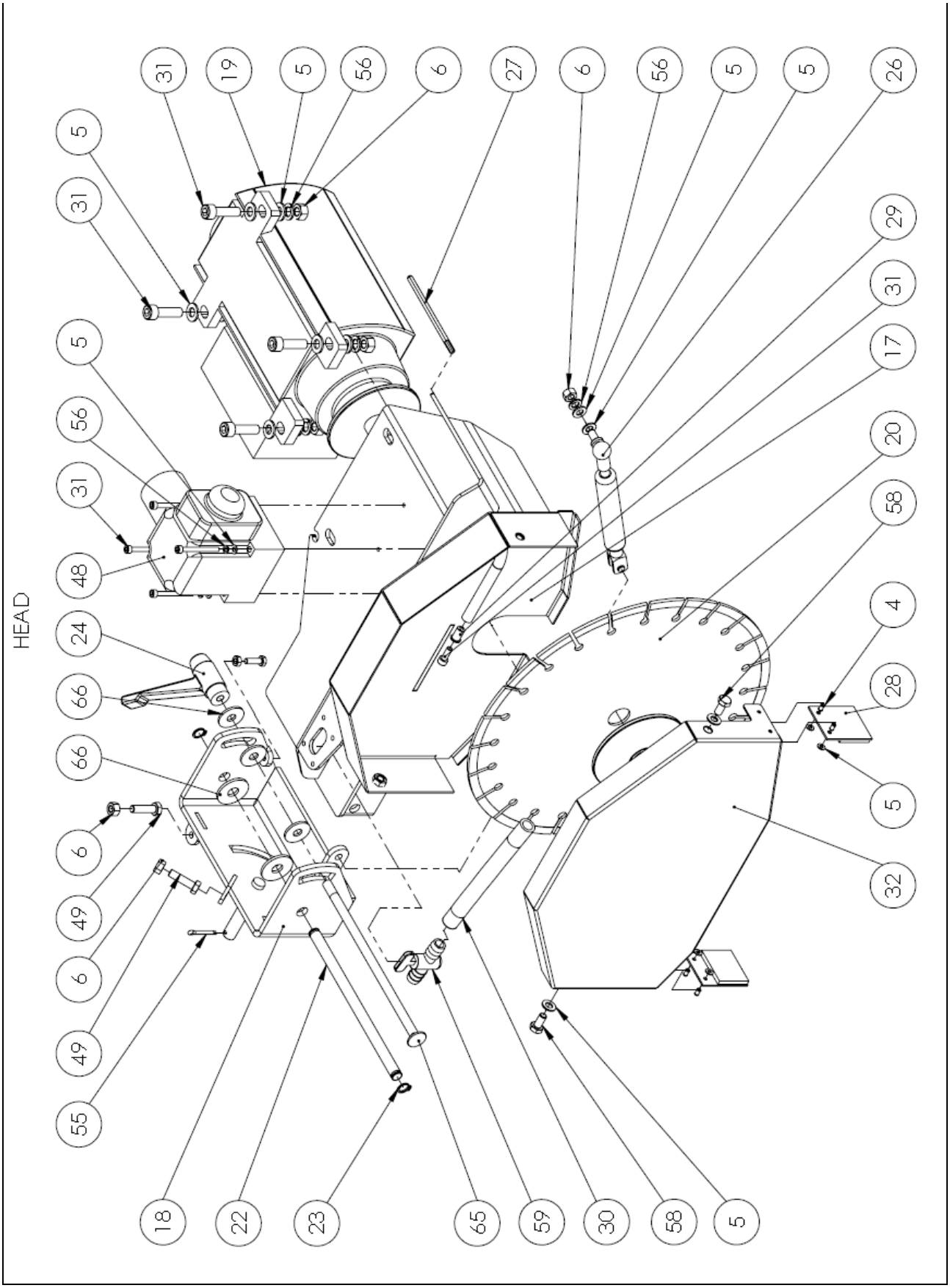


Figure 29: Replacement parts list

No.	Quantity	Name
1	1	Tank
2	1	Guide rail left
3	1	Guide rail right
4	46	DIN 7341-A4x8-St-AF-6
5	51	Washer DIN 125 - A 10.5
6	11	Hexagon Nut ISO 4034 - M8 - N
7	1	Short legs
8	1	Long legs
9	4	Plastic screw
10	3	Screw
11	1	Holder
12	1	Protective cover
13	1	Spanner
14	1	Tube
15	1	Allen key
16	8	Nut DIN EN ISO 7040 - M8 - N
17	1	Head
18	1	Head mount
19	1	Motor
20	1	Disc
21	1	Motor flange
22	1	Bolt
23	2	Washer DIN 471 - 12 x 1
24	1	Lever
25	1	Disc
26	1	Gas pressure support
27	1	Cap
28	2	Protective mat
29	1	Rivets
30	1	Tube
31	29	Screw DIN 912 M8 x 12 --- 12N
32	1	Hood
33	1	Table
34	4	Cam
35	4	Bolt
36	4	Wheel
37	4	Bearing
38	4	Washer DIN 472 - 26 x 1.2
39	4	Washer ISO 8738 - 10
40	1	Ruler
41	1	Mat
42	1	Mat
43	1	Mat
44	1	Protractor mount
45	1	Protractor
46	1	Screw
47	1	Screw
48	1	Switch
49	8	Screw ISO 4018 - M8 x 16-WN
50	2	Stopper
51	1	Lock
52	1	Lock
53	1	Spring
54	1	Washer DIN 1441 - 14
55	1	Linch pin
56	27	Spring washer DIN 128 - A8

57	1	Water pump
58	2	Screw ISO 4017 - M8 x 16-N
59	1	Hose valve
60	1	Hexagon Nut ISO 4032 - M6 - W - N
61	4	Wheel
62	4	Cap
63	1	Linch pin
64	2	Strap
65	1	Screw
66	5	Washer DIN 9021 - 10.5
67	1	Sleeve