

EN

**LISSMAC**

CONSTRUCTION TECHNOLOGY

# OPERATING MANUAL FLOOR SAW

COMPACTCUT 300 P  
COMPACTCUT 300 E



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**Imprint**

The operating manual is valid for:  
LISSMAC Floor saw

- COMPACTCUT 300 P
- COMPACTCUT 300 E

Manufacturer:

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# BASIC SAFETY INSTRUCTIONS

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Warning notices and symbols in this operating manual

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	 <b>SIGNAL WORD!</b>
	<b>Type and source of danger</b> Consequences of non-compliance <ul style="list-style-type: none"><li>➤ Actions to avert the danger.</li></ul>

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The signal word behind the danger symbol indicates the degree of danger:



This signal word signifies an extremely dangerous situation. If the situation is not avoided, fatal injuries will result. The danger symbol can specify the danger.



This signal word signifies a potentially dangerous situation. If the situation is not avoided, fatal or serious injuries can result. The danger symbol can specify the danger.



This signal word signifies a dangerous situation. If the situation is not avoided, medium to slight injuries will result. The danger symbol can specify the danger.



This signal word signifies a situation which presents risks to objects. If the situation is not avoided, property damage will result. The signal word is present without a danger symbol.



Import information is denoted by "i".

Handling information for operators:

The defined sequence of the handling steps makes proper and safe handling of the machine easier.

- Handling instructions for the operator.

The following warning and safety symbols were attached on the machine:

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This symbol indicates the reference to the operating manual.



This symbol indicates that hearing protection must be worn.



This symbol indicates the noise power level of the machine (CC 300 P).



This symbol indicates the noise power level of the machine (CC 300 E).



This symbol indicates the attachment point for crane transport.



This symbol of a rotating saw blade.



This symbol indicates:  
ATTENTION! Spray with oil spray once per month.



This symbol indicates:  
Working on the saw blade protective hood is prohibited when the saw blade is running.



This symbol indicates control of the drive belts.



This symbol indicates the running direction of the saw blade.



This symbol indicates:  
Any implementation of the machine outside this range, in which cutting work is done, must be done with a non-rotating tool.

# OPERATING MANUAL

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## **Preface**

This operating manual should make it easier to get to know the machine and make use of its intended applications.

The operating manual contains important information on how to operate the machine safely, properly and economically. Your close attention helps avoid risk, repair costs and downtime, and increase the reliability and lifetime of the machine.

The operating manual is to be supplemented by directives for accident prevention and environmental protection, according to applicable national requirements.

The operating manual is to be kept permanently available at the machine location.

The operating manual must be read and used by each person assigned to work with the machine, e.g.:

- Operating, including tooling, troubleshooting during operating, correction of production rejects, service, disposal of operating and auxiliary materials.
- Maintenance (service, inspection, repair) and/or
- Transport

Along with the operating manual and the valid legal regulations for accident prevention in the country of use and the place of use, also recognised technical regulations for safety and proper work are to be observed.

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## **Required tool**

In order for the Floor saw to be operated, a tool - in the form of a saw blade - is required. These tools can be purchased from the manufacturer.

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## **Additional documents**

Additional documentation of the respective manufacturers of individual components of the machine are available as supplements to this operating manual:

- Operating manual petrol motor

LISSMAC assumes no responsibility or liability for the completeness of any additional documents.

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## **Changes and reservations**

We attempt for this operating manual to be correct and up-to-date. To maintain our technological lead, it can be necessary to change the product without advance notice and to perform their operation. We accept no liability for malfunctions, breakdowns and damage caused by this.

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**Notes**

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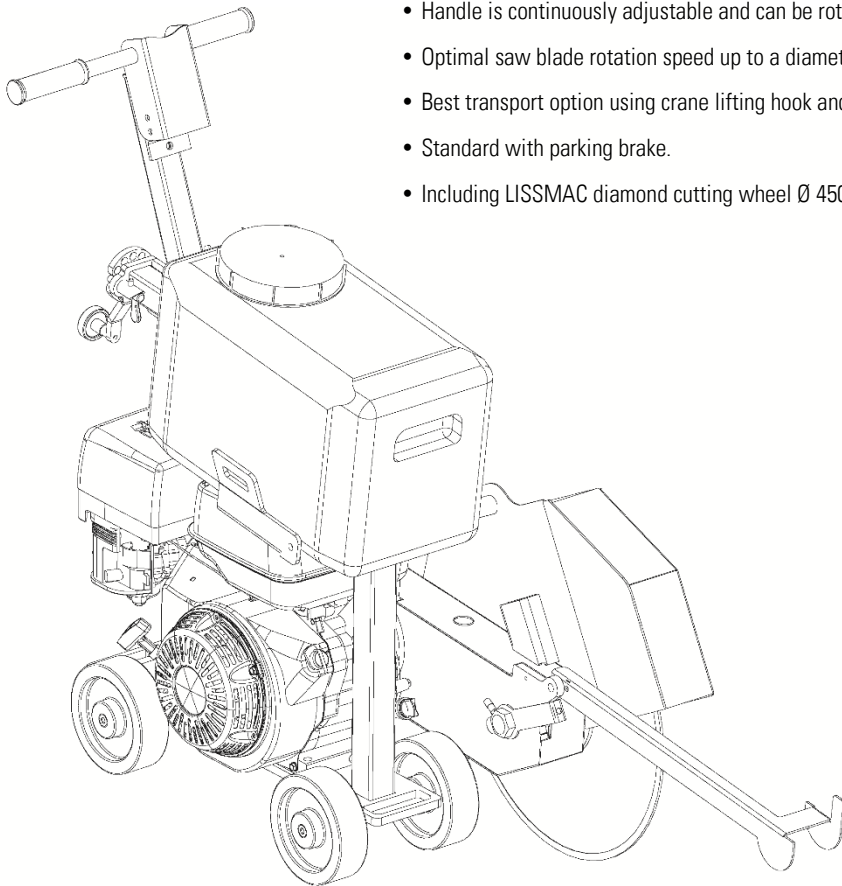


# 1. DESCRIPTION OF PERFORMANCE

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The Floor saw COMPACTCUT 300 is a Floor saw grinder and is used for cutting grooves into concrete and asphalt. This type of device belongs to the performance class of Floor saws. The COMPACTCUT 300 is fast and flexible in its application and covers a wide ranging spectrum of sawing tasks. The compact and robust design of the COMPACTCUT 300 series makes it perfectly suited for use on cramped construction sites.

- Lowering and raising the saw blade is done smoothly by means of an enclosed threaded spindle with cutting depth display, thereby preventing damage to the saw blade.
- Spindle outside of the dirt area and protected by a galvanised steel tube.
- Saw blade protective hood front can be raised.
- Standard with saw blade flange for multiple blade holders, up to 15 mm.
- A large 30 litre capacity water tank with a big filler nozzle and carrying handles makes refilling easier and reduces work interruptions.
- Connection for external water supply with separately adjustable water taps.
- Standard flange spraying ensures low water consumption and optimal cooling of the saw blade. In this way longer downtimes can be guaranteed for the saw blades.
- Water tank tips forwards - effortless tank filling is possible  
Water tank can be completely emptied.
- During cutting, more weight can be placed on the saw blade due to the tiltable tank.
- Vibration handle reduces the vibrations which can affect the user and improves the working conditions.
- Handle is continuously adjustable and can be rotated 180° for an optimal straight cut.
- Optimal saw blade rotation speed up to a diameter of 500 mm.
- Best transport option using crane lifting hook and handle.
- Standard with parking brake.
- Including LISSMAC diamond cutting wheel Ø 450 mm for asphalt (only for CC 300 P).



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## 1.1. Basics of intended use

<b>Appropriate usage</b>	<p>The warranty obligation of the manufacturer and supplier is voided for improper or non-intended use. Any change to the machine which is not carried out by the manufacturer is prohibited. Changes, removal or addition of parts to the Floor saw only with the written approval of the manufacturer.</p> <p>The machine is constructed according to the state of the art and recognised technical safety rules. However, danger to life and limb of the user or third parties, and/or damage to the machine or other property may still arise from its use.</p> <p>Only use the machine in technically faultless condition and for intended use, aware of safety and danger complying with the operating manual. You should particularly handle malfunctions which can compromise safety immediately, or have them addressed by experts.</p> <p>The LISSMAC Floor saw is a floor cutting grinder and is designed exclusively for cutting grooves into concrete or asphalt using water. Cutting uses saw blades, up to a maximum of 15 mm and may only be operated for cutting of floors. The Floor saw may only be operated by one person and is limited by proper positioning at the rear part of the Floor saw. Any other use or use above and beyond is not considered intended use.</p> <p>Intended use also includes compliance with the operating manual and observance of inspection and maintenance manual.</p>
<b>Non-intended use</b>	<p>Foreseeable misuse / non-intended use:</p> <ul style="list-style-type: none"><li>• Cutting without saw blade protective hood</li><li>• Cutting without water</li><li>• Cutting of wood, plastic or metal (except for reinforcement in concrete)</li><li>• Building changes, which alter the safety or the Floor saw design type</li></ul>

---

## 1.2. Organisational measures

	<p>The operating manual must be easily accessible for each person at the location of the Floor saw.</p> <p>All additions to the operating manual, all generally valid legal and otherwise binding regulations for accident prevention and environmental protection are to be followed and instructed!</p> <p>Such obligations may also apply, for example, to the handling of hazardous materials or the wearing of personal protective gear or traffic regulations.</p> <p>Personnel assigned to activities on the Floor saw must have read and understood the operating manual, particularly the Safety Instructions chapter, before starting work. In the middle of work it is too late. This particularly applies to personnel only occasionally engaged with the crane, such as those involved in tooling and maintenance.</p> <p>At least occasionally, perform checks for safe and hazard awareness work by operators while following the operating manual!</p>
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Use personal protection equipment if necessary or required by regulations!

Keep all safety instructions and danger warnings on the Floor saw and in legible condition!  
Replace safety and danger instructions that are damaged or non-readable any more.

For safety-related changes to the machine or its running behaviour, stop the machine immediately and mark it accordingly. Report the problem to the responsible post/person!

No changes, removal or addition of parts without the written approval of the manufacturer!  
The instructions of the tool maker must be followed.

Only use tested original replacement parts from the manufacturer!

Observe required or prescribed deadlines given in the operating manual for inspection.

Workshop equipment suitable for the work is absolutely necessary for performing maintenance actions.

Machines and combustion engines may not be used in closed areas.

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### 1.3. Personnel choice and personnel qualification; basic responsibilities

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Only qualified personnel 18 years of age or older may operate the Floor saw independently. All personnel must be trained in the operation and be explicitly, in writing, authorized by the company to operate the Floor saw.

Establish responsibilities of the personnel for operating, changeover, servicing, and repairing the machine.

Make sure that only authorized personnel works at the machine.

The operator must wear personal safety equipment according to the safety regulations, such as safety shoes, safety gloves and safety glasses.

Remaining in the working area of the Floor saw unnecessarily is prohibited! Direct unauthorised personnel, who are not working on the machine, away from the work area. Block off the working area, if necessary.

During all movement of the Floor saw, operating personnel must ensure that they and other people are not endangered. All obstacles which may hinder the operation or implementation of the machine at the location of use must be moved out of the way.

Work on the electrical equipment of the machine may only be carried out by qualified electricians or trained personnel under the management and supervision of a qualified electrician, and in accordance with the rules of electronics.

Establish the responsibility of the machine operator, also in respect to traffic regulations, and enable him to refuse to follow instructions by third parties that are contrary to safety!

Any personnel training, learning, being instructed, or currently involved in general education may only work with the machine under the continual supervision of an experienced person!

## 1.4. Safety instructions for operation phases

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### 1.4.1. Transport, assembly and installation

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Transport, assembly and installation on/with the Floor saw may only be carried out in transport position. Secure the Floor saw against rolling away.

Transport, assembly and installation on/with the Floor saw may only be carried out with removed saw blade and when the engine is turned off.

Transport the Floor saw in compliance with the maximum operating weight, this should be exclusively done by crane.

Transport may only be done, as long as all machine parts are tightened on the machine and individual parts cannot fall.

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### 1.4.2. Commissioning

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The commissioning of the Floor saw may only be carried out in transport position.

When inserting the saw blade, observe the running direction. The cutting process must always be done clockwise, otherwise material is ripped out which causes small pieces of debris to fly around.

When inserting the saw blade, protect against sharp edges.

Ensure that the floor on which cuts are to be made fulfils load carrying capacities.. All obstacles must be cleared away from the cutting area and make sure there is sufficient lighting.

Visual inspection of the whole Floor saw for damages and defects. Special check of the safety equipment.

The vibration dampened handle (pos. 3) must be set for the operator.

Keep water sources handy for refilling the water tank. Water sources may not be connected directly.

Smoking is absolutely prohibited when filling the combustion motor.

Special care is necessary when refilling the fuel tank. Motor parts that become warm during operating become a fire hazard.

Fuel storage may only be in authorized containers.

No rotating tools which have a maximum rotation speed smaller than the nominal speed of the machine can be used.

Defective or broken tools must be replaced immediately.

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### 1.4.3. Operation

Refrain from working in any manner that is questionable in regard to safety!

Take measures to ensure that the Floor saw is operated only in a safe, functional condition!

The Floor saw must be checked at least once per shift for externally identifiable defects or damages! Any changes which occur (including operating behaviour) must be reported immediately to the responsible post/person! If necessary, immediately stop the machine and secure it against restart!

Immediately stop and secure the Floor saw in case of malfunctions! Immediately correct malfunctions! Electrical work may only be carried out by qualified electricians.

Only suitable and tested tools must be used.

For protection before acceleration, move the depth setting of the saw blade slowly into the solid floor. Avoid any contact with the running tool.

It is prohibited to cut without the saw blade protective hood or the drive motor cover. The operator must be protected by turning parts.

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### 1.4.4. Cutting with an open saw blade protective hood.

Removing or opening of the saw blade protective hood or reaching into the saw blade during cutting is prohibited. This work may only be carried out with the saw blade at a standstill and the drive motor turned off.

When cutting with an opened saw blade protective hood folded open the saw blade protective hood does not cover the front area. Particular care is necessary!

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### 1.4.5. Moving the Floor saw

The Floor saw may only be moved when the saw blade is at a standstill.

Before leaving the operating position on the Floor saw, the fuel / electric motor must be switched off and the saw blade must be at a standstill.

There is a danger of injury by a rotating saw blade.

The operator may not leave the Floor saw if the parking brake has not been activated. The Floor saw must be secured against rolling away.

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#### 1.4.6. Special work while using the machine

Follow all setup, maintenance, and inspection activities and schedules prescribed by the operating manual, including all information about the replacement of parts / assemblies! These activities may only be carried out by technical personnel.

Inform operating personnel before beginning special and maintenance work! Name a supervisor!

If the Floor saw is turned off during maintenance and repair work, it must be secured against unexpected application of power.

Before cleaning all openings in which no cleaning agent should penetrate due to safety and/or functional reasons must be covered and glued. Electric motors, switches and plugs are especially at risk. After cleaning, remove the covers/tape completely!

During service and repair work, always tighten loose bolt joints!

If dismantling is required for fitting, servicing and repair, the safety fittings must be remounted and checked immediately following the service and repair work!

No rotating tools which have a maximum rotation speed smaller than the nominal speed of the machine can be used.

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#### 1.5. Safety instructions for special types of dangers

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##### 1.5.1. Danger for the operator by the machine

Before leaving the operating position on the Floor saw, the petrol motor must be shut down and the saw blade must no longer rotate.  
There is a danger of injury on a rotating saw blade.

Working on the Floor saw and moving with rotating saw blade is prohibited.

The petrol / electric motor of the Floor saw must only be put in operation for intended use cutting.

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### 1.5.2. Electric power

Use only original fuses with the specified current rating! In case of malfunctions, turn the Floor saw off immediately! Electrical work may only be carried out by technical and qualified personnel.

Carry out maintenance or repair work only when the motor of the Floor saw is turned off and the saw blade is not running any more. Transport position requires special care.

The machine's electrical equipment must be inspected/checked regularly. Faults such as loose connections or damaged cables must be corrected immediately. The machine must be labelled so that it cannot be started by others.

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### 1.5.3. Dust

When working in close quarters, follow any applicable national guidelines!

To prevent dust build-up during cutting, the saw blade must be cooled using water. Dry cutting is prohibited and damages not only the saw blade.

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### 1.5.4. Noise

see Chapter 2.4 Noise power level

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### 1.6. Transport

To implement using a crane, slinging equipment with sufficient load carrying capacity must be used. Slinging equipment must be checked for damage before use.

Name expert instructors for the lifting process!

Lift the Floor saw only according to the instructions in the operating manual and with proper lifting gear!

Only use suitable transport vehicle with sufficient load capacity!

Secure loads reliably according to the regulations. Use suitable attachment points!

Even when moving only for a short distance, the motor of the Floor saw must be turned off. The saw blade may not be rotating before a restart!

When recommissioning, follow the operating manual!

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### 1.7. Packaging and Storage

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	<p>To ensure sufficient protection during shipping and transport, the machine and its components are carefully packaged. When receiving the machine, the machine should be checked for damage. The packaging of the device consists of materials which can be recycled. Put these by type into the relevant recycling containers, so that they can be recycled properly.</p>
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	<p>In the case of damage, the machine must not be put into operation. Even damaged cable and plugs represent a safety risk and must not be used. In this case, please contact the manufacturer.</p>
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	<p>If the machine is not immediately put into operation after unpacking, it must be protected from moisture and dirt.</p>
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### 1.8. Environmental protection

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	<p>Packaging material, cleaning agents, used or residual operating materials, as well as removed wear parts, such as drive belts or motor oils must be taken to recycling corresponding to the valid regulations for environmental protection at the place of use.</p>
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### 1.9. Disposal

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	<p>If the expiry date of the device has been reached, in particular if functional errors happen, make the used machine unusable.</p>
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	<p>Dispose of the device according to the valid regulations for environmental protection of your country. Electrical waste may not be disposed of in household waste. Take the used device to a central rubbish collection centre.</p>
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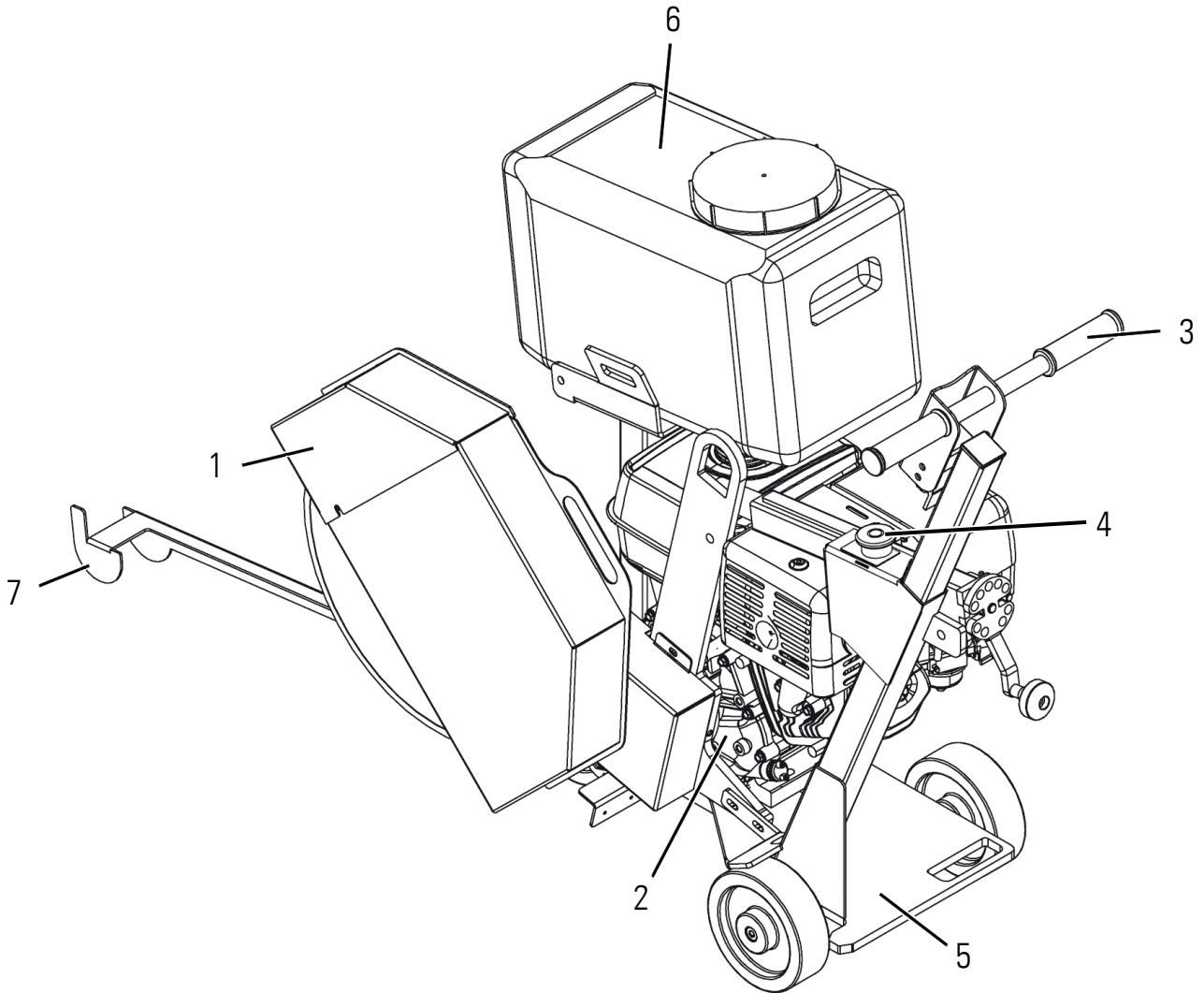


## 2. DESCRIPTION OF THE DEVICE

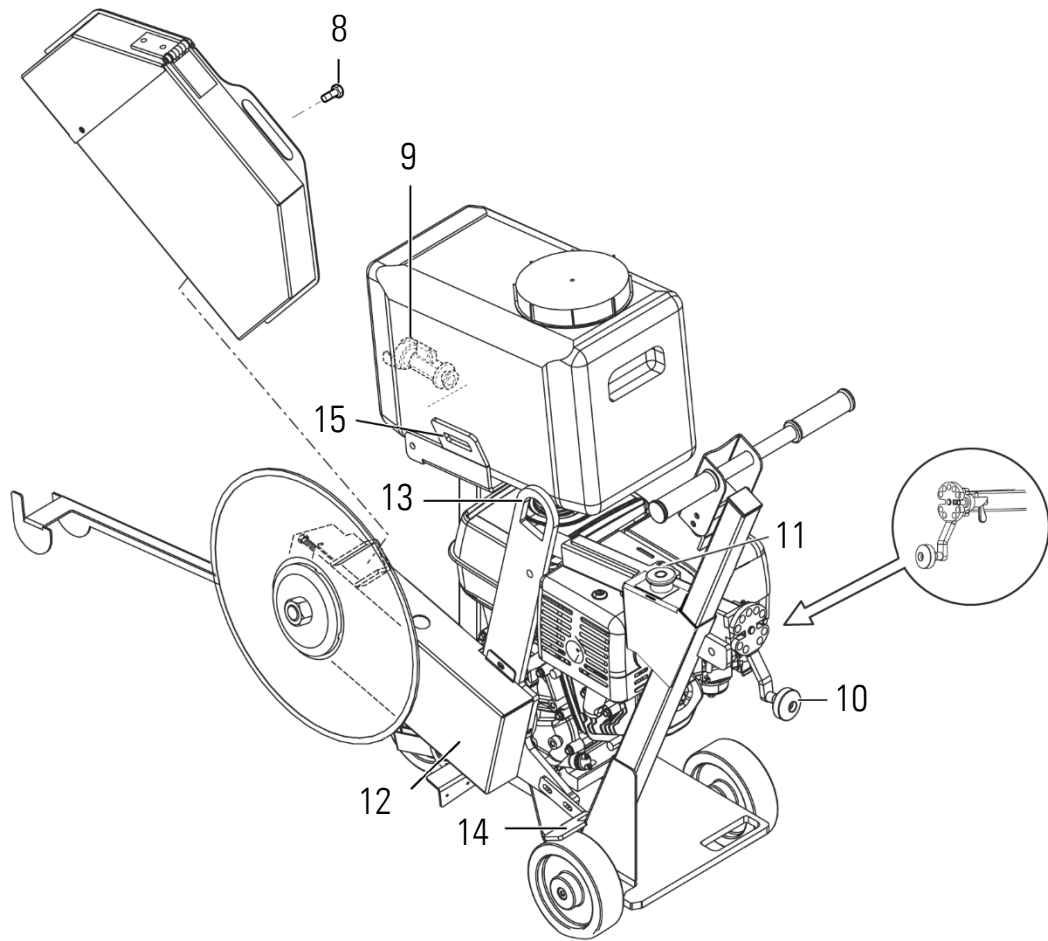
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### 2.1. Name of machine parts

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- Pos. 1 Saw blade protective hood
- Pos. 2 Drive motor
- Pos. 3 Vibration dampened handle
- Pos. 4 EMERGENCY STOP switch
- Pos. 5 Chassis (Base frame)
- Pos. 6 Water tank with ball valve and GEKA water connection
- Pos. 7 Steering rod



- Pos. 8      Screw to secure the saw blade protective hood
- Pos. 9      Ball valve with GEKA water connection
- Pos. 10     Height adjustment of the saw arm consists of: Crank with spring lock for locking
- Pos. 11     Depth stop
- Pos. 12     Drive motor cover
- Pos. 13     Hanging point for the crane
- Pos. 14     Parking brake
- Pos. 15     Fastening eyelet

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## 2.2. Safety guards

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- Pos. 1      Saw blade protective hood
  - Pos. 4      EMERGENCY STOP switch
-

### 2.3. Technical data

	<b>COMPACTCUT 300 P</b>	<b>COMPACTCUT 300 E</b>
Max. cutting depth	180 mm	
Max. saw blade diameter	500 mm	
Max. saw blade width	15 mm	
Saw blade holder	25.4 mm	
Saw blade speed	2300 rpm	1900 rpm
Empty weight	105 kg	123 kg
Max. operating weight	146 kg	163 kg
Water tank content	30 litres	
Drive motor	1-cylinder Honda	Electric motor
Power (kW/PS)	8.7 kW / 11.7 PS	7.5 kW
Fuel	Petrol	-
Voltage	-	400 V / 14.3 A
Cooling	Air cooled	
Tank capacity	6.1 litres	-
Dimensions of transport L/W/H	950 / 555 / 680 mm	
Dimensions in operation L/W/H	1040 / 585 / 910 mm	

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## 2.4. Noise power level

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### **WARNING!**

#### **Risk of hearing damage**

Regulations state that hearing protection must be worn above a noise level of 85 dB (A), .

- Wear personal hearing protection

The details define volume of noise level, related to the operator workspace and the noise power level of the Floor saw.

The measured noise level  $L_{wA}$  109 dB(A)

The emission noise pressure at the operator's place  $L_{pA}$  92 dB(A)

The guaranteed noise power level is:

COMPACTCUT 300 P	110 dB(A)
COMPACTCUT 300 E	96 dB(A)

The values are determined by the noise emission measurement.

Testing is done under load with the largest permitted saw blade of the Floor saw.

Measurement tolerances:

2.5 dB for the A-value noise power level

4 dB for the A-value emission noise pressure level

Emission noise pressure is done in compliance with EN ISO 3744, EN 13862 and guidelines 2000/14/EC.

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## 2.5. Hand arm vibration

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### **WARNING!**



#### **Hazard due to vibration**

Vibrations can lead to bone or joint injuries and to circulation dysfunctions.

- When working with the machine take regular breaks.

The given value was determined with a maximum saw blade diameter of 500 mm.  
The impact can be reversely proportional to the weight of the operator.

Total vibration value:

COMPACTCUT 300 P $a_{HV}$	6.0 m/s <sup>2</sup>
COMPACTCUT 300 E $a_{HV}$	2.5 m/s <sup>2</sup>

The following standards were complied with during measurement:  
EN ISO 5349, VD 2057 Sheet 2, Directive 2002/42/EC.

The given values were measured during concrete cutting at a cut depth of 5 cm. In practice, these values are influenced by the following conditions:

- Quality of the saw blade
- Number of saw blades
- Weight of the operator
- Feed speed
- Condition of the machine
- Concrete properties

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## 2.6. Scope of delivery

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Check the scope of delivery for completeness.  
Should parts be missing, immediately contact the manufacturer.

The scope of delivery of the Floor saw consists of:

- LISSMAC COMPACTCUT 300
- Saw blade Ø 450 mm for asphalt (only for CC 300 P)
- Water tank (30 Litres) with ball valve and GEKA connection
- Foldaway saw blade protective hood for saw blades up to Ø 500 mm
- Vibration dampened handle
- Tool kit
  - Open ended spanner SW 13
  - Open ended spanner SW 32
- Operating manual petrol motor

## 3. COMMISSIONING

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### 3.1. Connections and operating materials

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<b>Operating motor oil</b>	The motor is filled with motor oil by the manufacturer. Only motor oil approved by the manufacturer may be used. The details and the quality requirements are contained in the operating manual of the fuel motor.
<b>Fuel (CC 300 P)</b>	The Floor saw must be filled with petrol. The details and the quality requirements are contained in the operating manual of the fuel motor.
<b>Connection of electricity (CC 300 E)</b>	A reliable power source with an operating voltage and corresponding fuses as shown on the model plate must be available.
<b>Lubrication points</b>	Moving parts must be lubricated on the lubrication points of the Floor saw at regular intervals. The manufacturer uses qualified heat-resistant multi-purpose grease.
<b>Water tank</b>	The water tank may only be filled with clean water.  The water pressure in the lines must not exceed the water pressure of 5 bar. Otherwise use a pressure reducer and reduce the water pressure to max. 5 bar. <ul style="list-style-type: none"><li>• Remove the cover and fill with water (30 litres).</li><li>• Connect the water hose with the water tank.</li></ul>

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### 3.2. Filling the fuel tank

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## **DANGER!**



### **Highly flammable fuel vapours**

Death or injury from explosion

- Smoking is absolutely forbidden during this process.
- Remove all ignition sources.



## **WARNING!**



### **Risk of burning on hot motor parts**

Severe physical burns

- Do not touch any motor parts and/or wear gloves.

## **NOTE!**

### **Fuel storage**

Fuel storage may only be in authorized containers. The containers must be marked accordingly.

- Tip the water tank forwards
- Open the cover on the petrol motor
- Fill fuels through the filter sieve in the opening
- Fill fuel tank up to the filter sieve
- Close the cover on the petrol motor
- Tip the water tank backwards

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### 3.3. Parking brake

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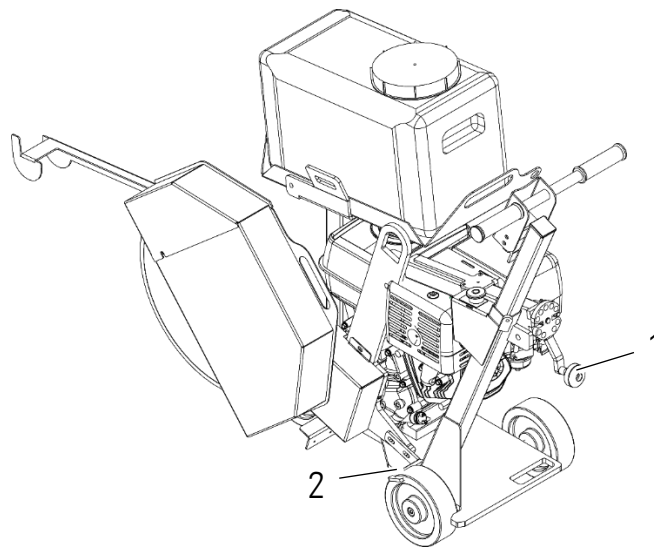
## **WARNING!**



### **Unintentional position changes of the machine**

Injury due to unintentional position changes of the machine.

- In order to secure the Floor saw against rolling away, the parking brake must be used.



The parking brake is set via the height adjustment of the saw arm.

- Loosen the spring lock on the crank (pos. 1) and turn it into the upper position
- The parking brake (pos. 2) presses on the wheel of the Floor saw and prevents rolling away
- Secure the height adjustment via the spring lock

---

### 3.4. Tools (saw blade)

---

## **NOTE!**

### **Tool selection**

No rotating tools which have a maximum rotation speed smaller than the nominal speed of the machine can be used. Defective or broken tools must be replaced immediately.

### **Selection of the saw blade**

See Chapter 7 Tools

### **Storage of tools**

The used tools must be protected by moisture. The applied segments around the saw blade must be protected from damage.



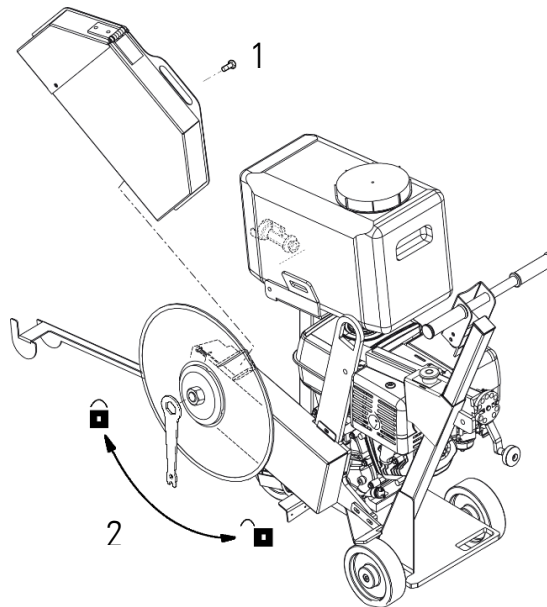
 **DANGER!**

**Removing and opening the saw blade protective hood**

Death or injury from rotating saw blade.

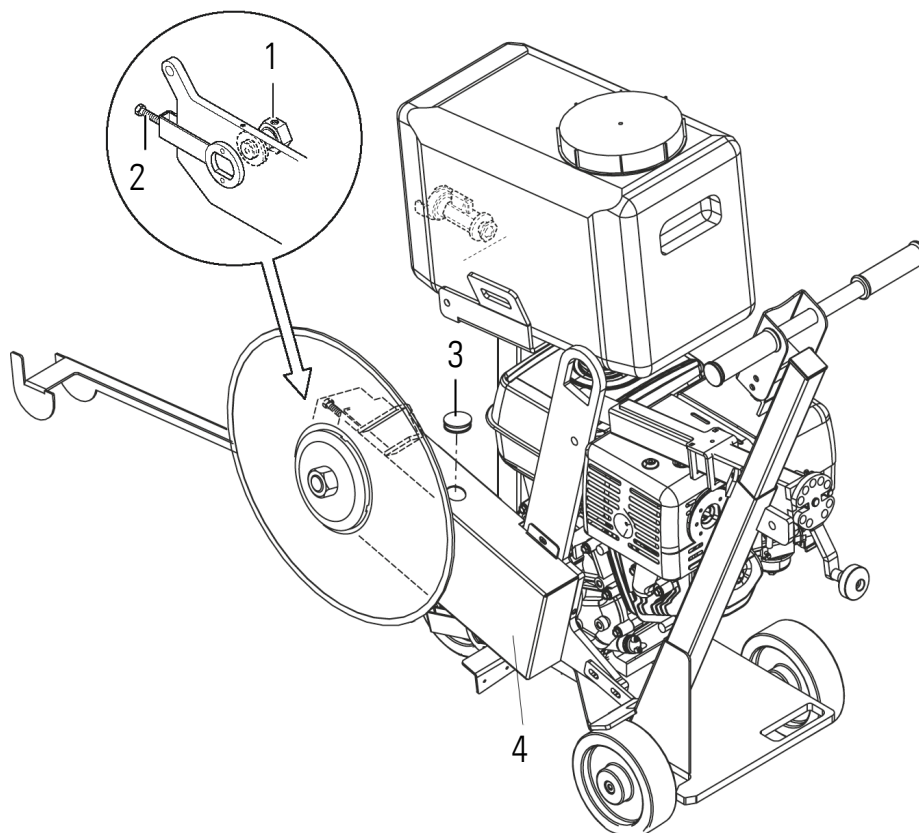


- Removing or opening of the saw blade protective hood or reaching into the rotating saw blade during cutting is prohibited.
- This work may only be carried out with the saw blade at a standstill and the drive motor turned off.



In order to change the saw blade, the following steps must be carried out:

- Loosen the hexagon head screw (pos. 1).
- Saw blade protective hood can be removed.
- Remove the flange nuts using the tool kit (pos. 2) and remove the pressure disc.
- Insert saw blade.
- Mount the pressure disc and flange nut.
- Plug-in the saw blade protective hood.
- Tighten the hexagon head screw (pos. 1).



 **DANGER!**

**Removing and opening the saw blade protective hood**

Death or injury from rotating saw blade.



- Removing or opening of the saw blade protective hood or reaching into the rotating saw blade during cutting is prohibited.
- This work may only be carried out with the saw blade at a standstill and the drive motor turned off.

**The effects of an improperly tensioned drive belt:**

- Drive belt too loose:  
Drive belt slips on the v-belt pulley, no or low power transmission.
- Drive belt tightened too much:  
Excessive wear, much heating of the v-belt pulley with resulting damage

**Inspection**

The drive belts can be checked by pushing on them with the thumbs.

- Remove the cover (pos. 3)
- Inspection by pushing them with the thumbs

**Inserting and removal or re-tensioning the drive belts**

- Remove the drive motor cover (pos. 4)
- By loosening the safety screw (pos. 2), the tensioning screw (pos. 1) can be released or tightened.
- The drive belts can be removed

## 4. TRANSPORT

### 4.1. Transport position



#### WARNING!



#### Unintentional position changes of the machine

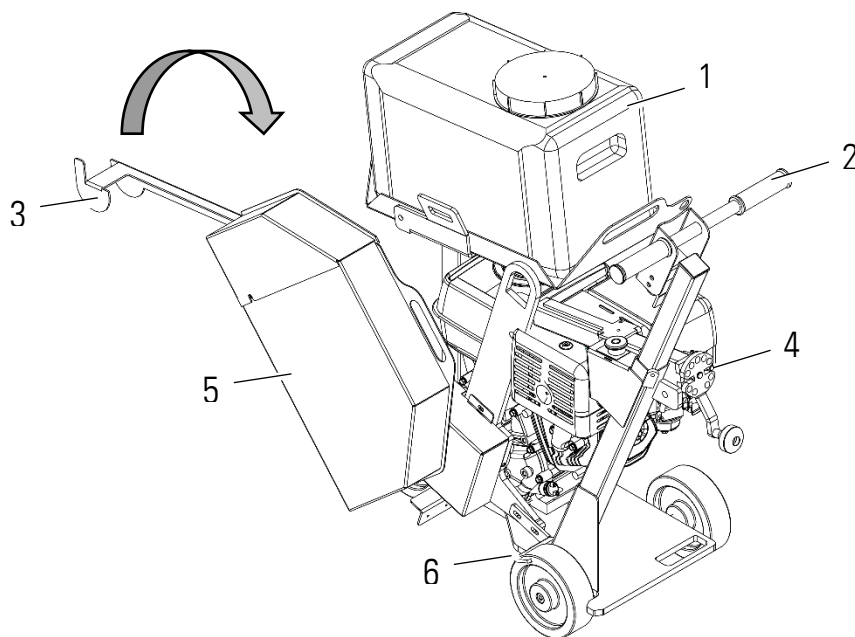
Injury due to unintentional position changes of the machine.

- Only transport the Floor saw in the transport position.
- Secure the Floor saw at the attachment points.

#### NOTE!

#### Transport of the machine

When transporting the Floor saw, unintentional position changes must be prevented. Motor oil can leak into the combustion area of the motor and damage it.



#### Transport position

- The parking brake (pos. 6) is actuated, Put the saw arm in the upper position and interlock using the spring lock (pos. 4).
- Saw blade (pos. 5) is removed, to avoid damage to the saw blade.
- Drive motor is turned off.
- Fold the steering rod (pos. 3) into the machine.
- Retract the vibration dampened steering wheel (pos. 2) into the frame.
- The water tank (pos. 1) must be emptied and secured with the machine.

---

#### 4.2. Move with the crane

---



### **DANGER!**



#### **Heavy loads**

Injury from falling parts.

- Do not stand under lifted machines or parts.
- Only use undamaged lifting gear and loading equipment with sufficient lifting capacity and length.
- The centre of mass of the machine is off-centre.



### **WARNING!**



#### **Garbage or damage from attachments**

Injury from machine parts.

- The machine may only be transported or moved in transport position.

- Hang the Floor saw in the crane eye with slinging equipment having sufficient carrying capacity.
- Name expert instructors before the lifting process.
- Only use suitable transport vehicle with sufficient load capacity.
- Lift carefully and pay attention to the centre of gravity.
- Always keep an eye on the Floor saw.
- Secure loads reliably. Use suitable attachment points.
- When recommissioning, follow the operating manual.

---

#### 4.3. Fastening for transport

---



### **WARNING!**



#### **Unintentional position changes of the machine**

Injury due to unintentional position changes of the machine.

- Only transport the machine in the transport position.
- Secure the machine via the attachment points.

- Pay attention to the permitted total weight of the transport vehicle
- Lock the parking brake via the crank  
(Lock and unlock the spring lock)
- Fasten the Floor saw with sufficient slinging equipment

## 5. OPERATION

---

### 5.1. Safety

---

#### **DANGER!**



Death or injury from rotating saw blade.

- Removing or opening of the saw blade protective hood or reaching into the rotating saw blade during cutting is prohibited.
- This work may only be carried out with the saw blade at a standstill and the drive motor turned off.

#### **DANGER!**



Death or injury from tripping into crevices.

- Ensure that the floor on which cuts are to be made fulfils load carrying capacities.
- When cutting, ensure that the Floor saw and personnel are not standing at the side to be cut.

#### **WARNING!**



**During cutting, consider the following points**

- The operator contracted with cutting must start the forwards movement using the steering rod operators are restricted to standing only in this area of the Floor saw.
- The Floor saw may only be operated by one person, direct other people away from the cutting area or block the area off.

---

## 5.2. Preparations for starting

---

### NOTE!

#### **Cutting without obstacles**

Damage from objects in the cutting area or the saw blade.

- All obstacles must be cleared away from the cutting area and make sure there is sufficient lighting.



The cut area can be labelled using a marking spray to orient the operator for cutting.

To be able to use the Floor saw safely and properly, the following pre-requisites must be fulfilled:

- Check the Floor saw for damages, loose screw connections and completeness of the attaching parts
- Inspecting the motor oil level
- Fuel tank must be filled with sufficient fuel
- The water tank must be filled with water
- A suitable saw blade, which meets the optimal conditions, must be mounted
- The water cooling system must be functional

---

### 5.3. Moving or setting up the Floor saw

---



## **WARNING!**



### **Danger of injury from rotating saw blade**

If rotating cutting blades are touched , clothes and extremities can be cut off.

- When moving the machine the saw blade must be at a stand still.
- Location changes with the saw blade rotating are prohibited.

Moving the Floor saw must first be done if

- The drive motor is turned off and the saw blade no longer rotates
- The parking brake is activated

During moving the parking brake must be released. During this the operator must not leave the intended position of the Floor saw. The parking brake must be activated again immediately after positioning!

 **WARNING!**



**All start preparations must be fulfilled.**

The machine may only be put into operation, if all starting preparations (see Chapter 5.2 Preparations for starting) are met.

- If start preparations cannot be fulfilled, it is prohibited to operate the machine.
- Dry cutting without water is prohibited.

- Put the Floor saw in position.
- Fold the steering rod downwards.
- ↺ Steering rod and saw blade are above / on the cutting line.
- Open the ball valve on the water tap.



Start the petrol motor.

- ➔ See operating manual of the fuel motor.

- Place an accelerator for the petrol motor up to the stopper.
- Introduce feed movement via the steering handle.
- Adjust the feed speed to the feed force.

 **WARNING!**



**Is the saw blade getting enough cooling water**

If the saw blade is not supplied with sufficient cooling water, parts can break out and there is a danger of overheating. Grinding dust is not sufficiently bound.

- Ensure that saw blade cooling is guaranteed.
- Dry cutting without water is prohibited!



Check for a straight cut to prevent bending the saw blade.



---

## 5.5. Cutting with an open saw blade protective hood

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### **DANGER!**

#### **Removing and opening the saw blade protective hood**

Death or injury from rotating saw blade.



- Opening the saw blade protective guard while the saw blade is rotating is prohibited.
- Removing or opening of the saw blade protective hood or reaching into the rotating saw blade during cutting is prohibited.
- This work may only be carried out with the saw blade at a standstill and the drive motor turned off.

### **DANGER!**

#### **Cutting with an open saw blade protective hood**

Death or injury from rotating saw blade or material to be processed springing out.



- Standing in the cutting area of the machine is prohibited.
- Block off the cutting area.
- Reaching into the rotating cutting area is prohibited.

The saw blade protective hood front on the Floor saw can be raised. This function is required to cut wall corners open.

- Turn off drive motor and wait until the saw blade is not running anymore.
- Loosen the screws on the side of the saw blade protective hood.
- Fold the saw blade protective hood upwards.
- Tighten the screws for safety.
- Start the drive motor according to the operating manual.

### **WARNING!**

#### **Danger of injury from rotating saw blade!**

If rotating cutting blades are touched, clothes and extremities can be cut off.



- After cutting, the saw blade protective hood must be closed again immediately.
- Turn off petrol motor and wait until the saw blade is not running anymore.

## 6. MAINTENANCE

### 6.1. Service



## DANGER!

### Danger of injury from rotating saw blade!

Death or injury from rotating saw blade.



- Maintenance and repair works may only be carried out when the machine is turned off.
- Maintenance and repair works must only be carried out by qualified personnel.
- The machine must be secured against turning on by other people.
- Opening the protective guard while the saw blade is still rotating is prohibited.

#### Cleaning

To protect painted surfaces no aggressive cleaning agents may be used.

#### Motor oil

Set a collection container with funnel under the oil drainage plug. Dispose of used motor oil properly and in an environmentally friendly manner at your recycling station. Follow the operating manual of the motor manufacturer which is included with each machine. Especially pay attention to the safety and maintenance procedures!

#### Lubrication

Use only high-quality grease which meets the specifications on lubrication nipples. The lubricant used for the Floor saw is called "Energrease LS2 BP".

	Before each use	Daily	Weekly	Monthly
Visual inspection for recognisable damage and deficiencies	●			
Clean the Floor saw thoroughly (depending on use)		●		
Check motor oil	●			
Changing motor oil	See operating manual of the fuel motor			
Grease lubrication point of the saw arm				●
Spray spindle for the height adjustment of the saw blade with oil spray				●
Lubricate spring lock using the lubrication nipple to the cut depth adjustment				●
Retighten drive belts after 2 operating hours			●	
Screw connections	Retighten all screw connections after 20 operating hours (See 6.3 Torque of screw connections)			

## 6.2. Troubleshooting table



Pull the power plug before any maintenance or repair work!

Measures must be taken, so that an accidental start-up by others is not possible!

Maintenance and service works may only be carried out by qualified personnel!

Error	Cause	Remedy
Low cutting performance	Saw blade is dull	Replace saw blade
	Too little cooling water	Clean the water sieve or rinse the water supply with pressure max. 5 bar
	V-belt slips	Retighten drive belts
	Motor does not perform the full power	See operating manual of the motor
Floor saw does not start	Fuel tank empty	Refill fuel
	Fuel filter contaminated	Remove and clean fuel filter
	Main switch in wrong position	Main switch in position ON
	Supply line defective	Check the supply lines
Crank cannot rotate	Spring lock not released	Release the spring lock
	Spring lock clamps	Grease spring lock

### NOTE!

**If the feed force is too large, the following points must be checked:**

- Saw blade dull or defective?
- Too little water to cool the saw blade?
- Saw blade selection correct?
- Full power or rotation speed from the motor?

---

### 6.3. Torque of screw connections

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Strength class:	8.8	10.9	12.9
Dimensions	Max. tightening torque in Nm	Max. tightening torque in Nm	Max. tightening torque in Nm
M4	3.3	4.8	5.6
M5	6.5	9.5	11.2
M6	11.3	16.5	19.3
M8	27.3	40.1	46.9
M10	54	79	93
M12	93	137	160
M14	148	218	255
M16	230	338	395
M18	329	469	549
M20	464	661	773
M22	634	904	1057
M24	798	1136	1329
M27	1176	1674	1959
M30	1597	2274	2662

---

#### 6.4. Maintenance plan

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This section should be used as a proof of already performed maintenance and as a service book.  
All warranty and service work must be entered as proof.

Machine/type:

Serial number/year of manufacture:

Date	Performed maintenance or service works	Date/signature
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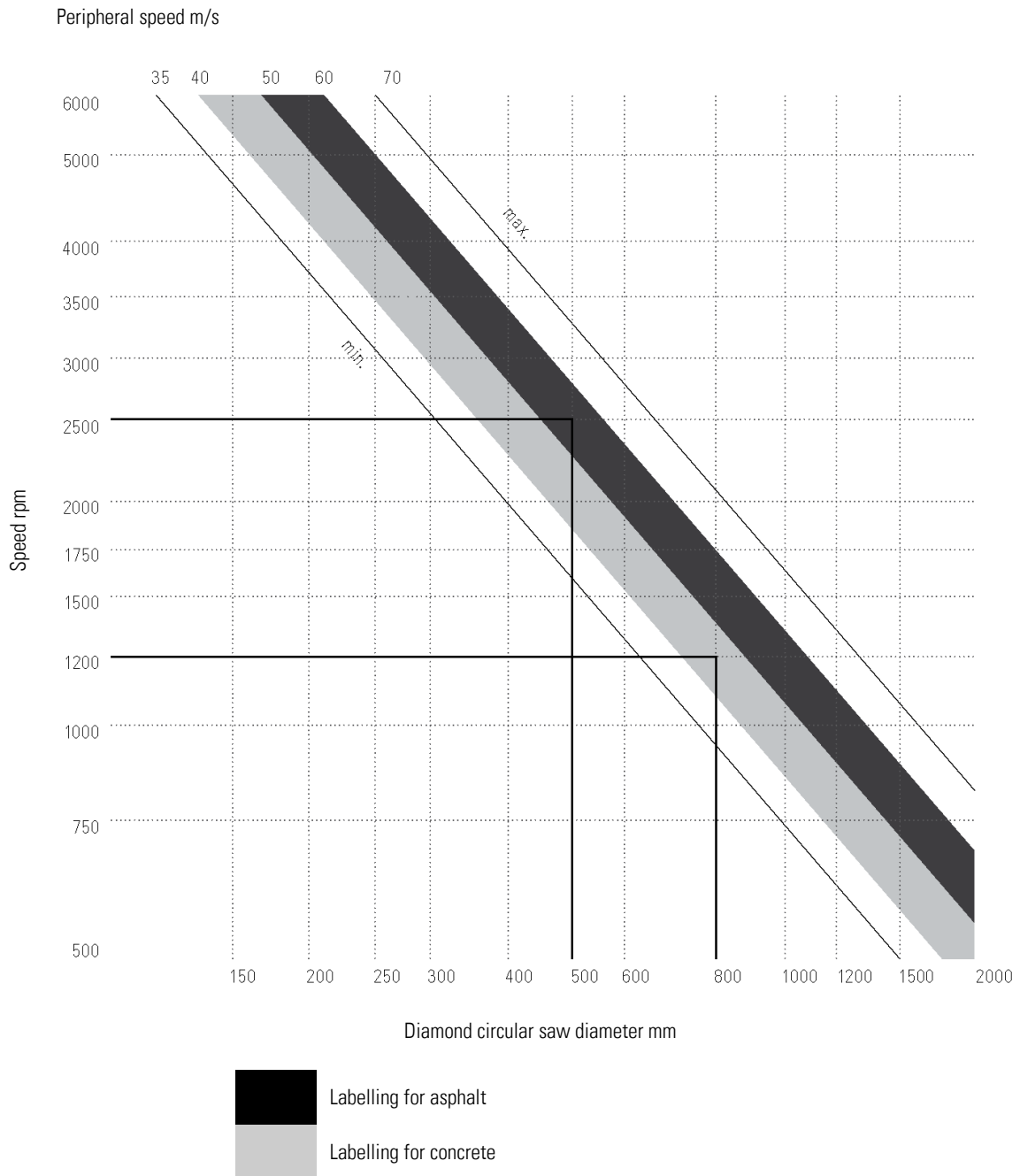
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## 7. TOOLS



All tools in the area of diamond tools are marked in colours. Depending on the application purpose and area, tools are different. To have the best results, the parameters must match. With this diagram, the optimal cutting performance can be determined.



In the LISSMAC sales booklet, the prices for the tools are determined. This sales booklet can be obtained from the manufacturer at any time.

## 8. WARRANTY

The warranty for this machine is 12 months. For the following listed wear parts the warranty only applies if the wear is not caused by operation.

Wear parts are parts that with intended use of the machine have limited operational wear. The wear time is not uniformly specified, it differs according to intensity of use. Wear parts are device specific and are to be maintained, adjusted and if required exchanged according to the manufacturers' operating manual.

Wear caused by operation does not qualify for warranty claims.

- Feed and drive elements, such as toothed racks, gears, pinions, spindles, spindle nuts, spindle bearing, cables, chains, chain wheels, belts
- Seals, cable, hoses, collars, connectors, couplings and switches for pneumatics, hydraulics, water, electrical, fuel
- Guide elements, such as guide strips, guide bushings, guide rails, rollers, bearings, anti-slide plating
- Tension elements from quick-coupling systems
- Flushing head seals
- Plain and roller bearings, which do not run in oil bath
- Shaft sealing rings and sealing elements
- Friction and overload couplings, braking equipment
- Carbon brushes, collectors
- Easily dissolvable rings
- External potentiometer and manual switching elements
- Fuses and lamps
- Auxiliary and operating materials
- Fastening elements, such as pegs, anchors and screws
- Bowden cables
- Lamella
- Diaphragms
- Spark plugs, glow plugs
- Parts of reversing starters, such as crank cable, crank handle, crank roller, crank spring
- Sealing brushes, sealing rubber, splash guard cloths
- All types of filters
- Drive and deflector rollers and bracings
- Cable laying protection elements
- Running and drive wheels
- Water pumps
- Cut goods transport rollers
- Drilling, separating and cutting tools
- Transport belt
- Rubber scrapers
- Needle felt protection
- Energy storage

## 9. REPLACEMENT PARTS

Item	Item no.	Designation	Specification	Units	Spare part Recommendation	CC 300 P	CC 300 E
1	300044	HEXAGON NUT	DIN 934 24x1.5	1	X	X	X
2	601020	PRESSURE DISC		1		X	X
3.1	613428	SAW BLADE FLANGE		1		X	
3.1	601019	SAW BLADE FLANGE		1			X
3.2	300267	SET SCREWS WITH SLOT AND FLAT POINT	DIN 427 10x25 A2	1	X	X	X
3.3	301272	HEX SOCKET HEAD CAP SCREW WITH ALLEN KEY	DIN 912 6x30 12.9	6		X	X
4.1+4.2	200240	SLIDE RING SEAL		1	X	X	X
5	205515	SEALING RING		1		X	X
6.1	692442	RIEMENSCHUTZ		1		X	
6.1	691992	RIEMENSCHUTZ		1			X
6.2	300566	HEXAGON HEAD SCREW	DIN 933 6x12	3		X	X
6.3	618387	SPLASH GUARD BRACKET		1		X	X
6.4	205240	RUBBER SPRAY PROTECTION		1		X	X
7	681463	SAW BLADE PROTECTIVE GUARD COMPLETE		1		X	X
8	400273	CABLE SLEEVE		1	X	X	X
10	615258	BEARING PINS		1		X	X
11	280253	BALL BEARING	6208 2RS A-bearing	2	X	X	X
12	615187	SEPARATOR		1		X	X
13	1209182	V-BELT	XPA 911 set	1	X	X	X
14	615158	V-BELT DISC SAW BLADE		1	X	X	X
15	615257	SPACER RING		1		X	X
16.1	615472	SAW ARM		1		X	X
16.2	615473	BRAKES		1		X	X
16.3	300045	SECURE HEXAGON HEAD SCREW	8x20 Verbus	2		X	X
17.1	300773	LUBRICATION NIPPLE	DIN 71412 8xH1	1		X	X
17.2	300575	PROTECTIVE CAP WITH LUBRICATION NIPPLE		1		X	X
19.1	690492	BELT TENSIONER COMPLETE		1		X	X
19.2	360145	HEXAGON HEAD SCREW	DIN 933 8x55	1		X	X
19.3	300834	LOCK NUT	BIW V-Form 8.0	2		X	X
19.4	300114	SQUARE NUT	DIN 557 M8	X		X	X
20.1	615275	STEERING ROD		1		X	X
20.2	300080	HEXAGONAL NUT WITH PLASTIC RING	DIN 934 12,0	1		X	X
20.3	300166	WASHER	DIN 125 A 13.0	1		X	X
20.4	300379	HEX SOCKET HEAD CAP SCREW WITH ALLEN KEY	DIN 912 12x50	1		X	X
20.5	209341	FRICTION PAD	R529 30x30x12.1 mm	1		X	X
20.6	300558	DISC SPRING	DIN 2093 25,0 X 12.2	6		X	X
20.7	300631	HEXAGON NUT	DIN 439 12.0	1		X	X
21	300539	ALIGNMENT DISC, STEEL	DIN 988 25x35x0.5	1		X	X
22	300457	ALIGNMENT DISC, STEEL	DIN 988 25x35x1.0	2		X	X
23	615288	HEXAGON HEAD SCREW	DIN 933 24x40	1		X	X
24	613115	HOSE NIPPLE	6-KT 10x39	1		X	X
25	200436	HOSE CLAMP, TORRO		1		X	X
26	200322	PVC HOSE 0.93 M		1		X	X
27	301118	SAFETY SCREW	8x25	1		X	X
28	615465	SPACER RING	45x11	1		X	X
29	300166	STEEL WASHER	DIN 7349 13.0	1		X	X
30	615259	V-BELT PULLEY	RD 90x48	1	X	X	
30	615163	V-BELT PULLEY	DRD 90x70	1	X		X



Item	Item no.	Designation	Specification	Units	Spare part Recommendation	CC 300 P	CC 300 E
30.1	208715	CLAMPING SET		1			X
31.1	680019	BRASS NUT		1		X	X
31.2	300644	HEX SOCKET HEAD CAP SCREW WITH ALLEN KEY	DIN 912 6x35 8.8 galv.	1		X	X
32	615277	SPACER BUSHING		1		X	
33.1	615015	MOTOR FLANGE	RD 150x34	1		X	
33.2	615407	MOTOR FLANGE	RD 160x43	1			X
33.3	301046	COUNTERSUNK HEAD SCREW, INCH THREAD	5/16" UNF x 3/4" 10.9 FS 20	4		X	
33.4	300395	COUNTERSUNK HEAD SCREW W/ ALLEN KEY	DIN 7991 10 X 30	4			X
34.1	206245	PETROL MOTOR	GX390	1		X	
34.1	403475	ELECTRIC MOTOR	7.5 kW	1			X
34.2	200387	PARALLEL KEY		1		X	
34.3	300240	LOCK NUT	BIW V-Form 10.0	1		X	X
34.4	300263	STEEL WASHER	DIN 7349 A 10,5	4		X	X
34.5	300262	HEXAGON HEAD SCREW	DIN 933 10x60	4		X	X
<b>37</b>	<b>680031</b>	<b>SPINDLE CC 300 P COMPLETE</b>				<b>X</b>	
37.1	692046	GUIDE PIPE COMPLETE		1		X	X
38	205147	STICKERS		1		X	X
39.1	615373	TRAPEZE SPINDLE		1		X	
39.2	300343	HEXAGON HEAD SCREW	DIN 933 10x20	1		X	X
39.3	300263	STEEL WASHER	DIN 7349 10.5	1		X	X
39.4	201959	THRUST WASHER		1		X	X
39.5	300166	DISC	DIN 125 A 13.0	1		X	X
39.6	300352	SHIM	DIN 988 12x18x0.5	1		X	X
39.7	205283	PLASTIC GLIDING STOPPER		1		X	X
39.8	202816	SPACER SLEEVE		2		X	X
39.9	261538	CYLINDER BUSH		1		X	X
40.1	690489	SCALE PUSHER		1		X	X
40.2	300808	WING SCREW	DIN 316 6x16	1		X	X
41.1	692420	SPINDLE FIXTURE		1		X	X
42.1	615467	ROTATING LEVER		1		X	X
42.2	300840	SPRING PIN	ISO 8748 6x24 Spiral	1		X	X
42.3	201183	SEPARATOR		1		X	X
42.4	209177	HANDLE		1		X	X
42.5	360108	HEX SOCKET HEAD CAP SCREW WITH ALLEN KEY	DIN 912 8x60	1		X	X
42.6	300273	HEXAGON NUT	DIN 934 8.0	1		X	X
37.2	300378	HEX SOCKET HEAD CAP SCREW WITH ALLEN KEY	DIN 912 12x50 12.9	1		X	X
37.3	300166	STEEL WASHER	DIN 125 A 13.0	2		X	X
37.4	201959	START UP DISC, PLASTIC		2		X	X
37.5	300998	HEXAGON NUT	DIN 985 12.0	1		X	X
39.1	628027	TRAPEZE SPINDLE		1			X
41.2	300379	HEX SOCKET HEAD CAP SCREW WITH ALLEN KEY	DIN 912 12x50	1		X	X
41.3	300166	STEEL WASHER	DIN 125 A 13.0	2		X	X
41.4	300998	HEXAGON NUT	DIN 985 12.0	1		X	X

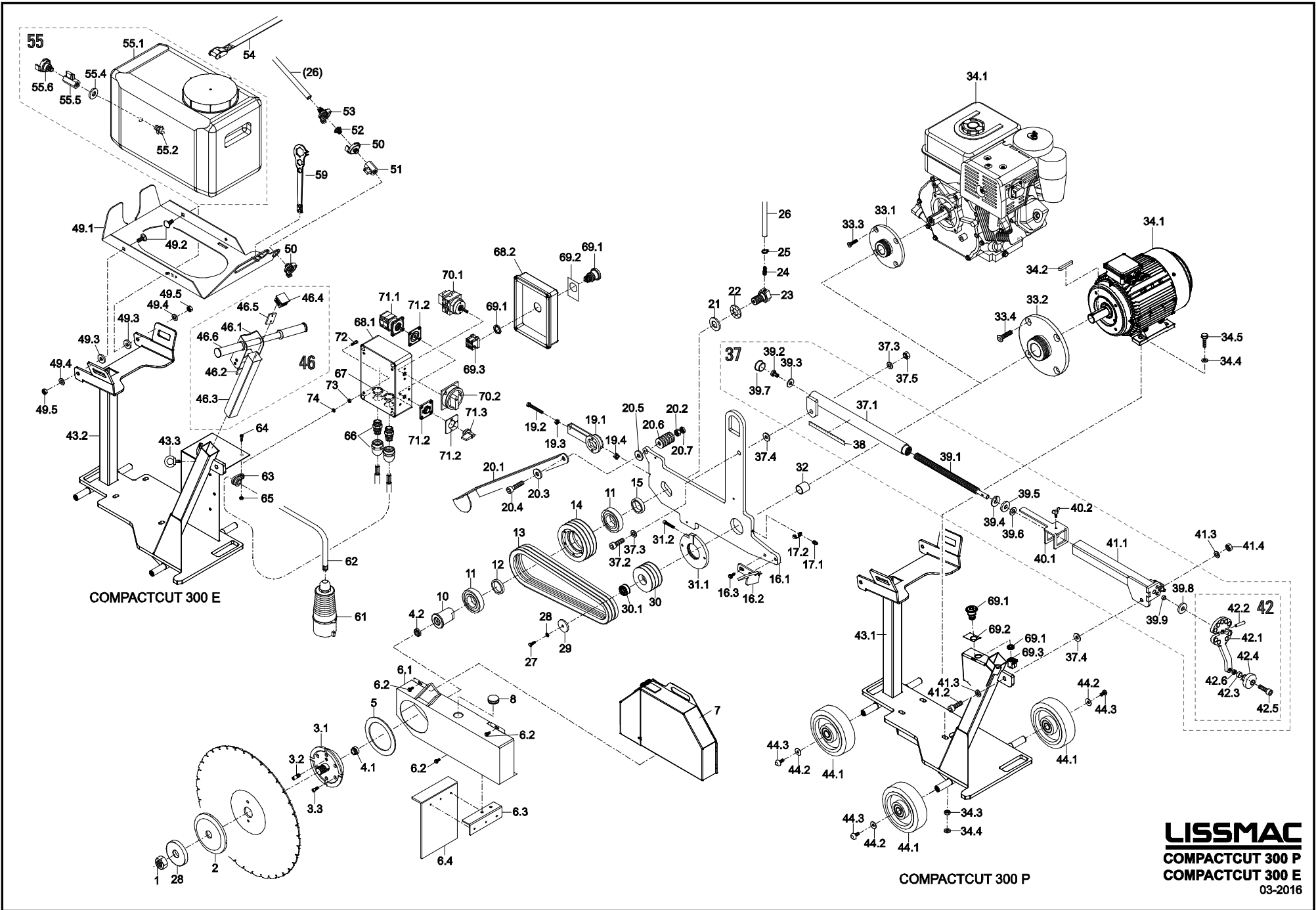
Item	Item no.	Designation	Specification	Units	Spare part Recommendation	CC 300 P	CC 300 E
<b>42</b>	<b>681399</b>	<b>MANUAL CRANK COMPLETE</b>				<b>X</b>	<b>X</b>
42.1	615467	ROTATING LEVER		1		X	X
42.2	300840	SPRING PIN	ISO 8748 6x24 Spiral	1		X	X
42.3	201183	SEPARATOR		1		X	X
42.4	209177	HANDLE		1		X	X
42.5	360108	HEX SOCKET HEAD CAP SCREW WITH ALLEN KEY	DIN 912 8x60	1		X	X
42.6	300273	HEXAGON NUT	DIN 934 8.0	1		X	X
43.1	690496	FRAME		1		X	
43.2	692053	FRAME		1			X
43.3	300003	RING SCREW	DIN 580 8.0	1		X	X
44.1	212005	SOLID RUBBER WHEEL	160x50mm 300 KG	4	X	X	X
44.2	300433	STEEL WASHER	DIN 440 9.0	4		X	X
44.3	300464	ROUND HEADED SCREW	8x16 10.9	4		X	X
<b>46</b>	<b>681648</b>	<b>HANDLE ASSBLY. PRE-MOUNTED</b>		<b>1</b>		<b>X</b>	<b>X</b>
46.1	692393	HANDLE		1		X	X
46.2	200088	RUBBER SPRING ELEMENT	DR-W 27x70	1		X	X
46.3	615454	SQUARE PIPE		1		X	X
46.4	200985	KU - SLIDE STOPPER		1		X	X
46.5	615455	THREAD PLATE		1		X	X
46.6	211416	HANDLE RUBBER		2	X	X	X
49.1	615244	TANK MUFFLER		1		X	X
49.2	300942	CARRIAGE BOLT	DIN 603 10x25 8.8	2		X	X
49.3	300166	STEEL WASHER	DIN 125 A 17.0	2		X	X
49.4	300177	STEEL WASHER	DIN 125 A 10.5	2		X	X
49.5	300240	LOCK NUT	BIW V-Form 10.0	2		X	X
50	280104	GEKA COUPLING	½" External thread	2		X	X
51	280263	BALL VALVE	SK 2XIG ½"	1		X	X
52	216095	SIEVE		1	X	X	X
53	280131	GEKA COUPLING HOSE PIECE	MS 3/8"	1		X	X
54	280142	TENSIONING BELT WITH CLAMPING LOCK		1		X	X
<b>55</b>	<b>680153</b>	<b>WATER CANISTER COMPLETE</b>		<b>1</b>		<b>X</b>	<b>X</b>
55.1	205698	WATER CANISTER 30 L		1		X	X
55.2	280109	REDUCING THREAD NIPPLE		1		X	X
55.4	262697	SEAL	Polyamide ½"	1		X	X
55.5	280263	BALL VALVE	SK 2XIG ½"	1		X	X
55.6	280104	GEKA COUPLING	½" External thread	1		X	X
59	615393	COMBO KEY		1		X	X
61	400060	PHASE TURNING PLUG		1			X
62	400338	FLEXIBLE LINE		1			X
63	200495	PIPE CLAMP WITH RUBBER PROFILE		1			X
64	300270	HEX SOCKET HEAD CAP SCREW WITH ALLEN KEY		1			X
65	300832	LOCK NUT		1			X
66	403166	CABLE SCREW FITTING		2			X
67	403168	LOCK NUT		2			X

Item	Item no.	Designation	Specification	Units	Spare part Recommendation	CC 300 P	CC 300 E
68.1	-----	HOUSING		1			X
68.2	-----	GEHÄUSE DECKEL		1			X
69.1	400057	PILZSCHALTER ROT		1	X	X	X
69.2	404646	IDENTIFICATION SIGN		1		X	X
69.3	400058	SWITCH ELEMENT		1		X	X
70.1	403441	MAIN SWITCH INSERT		1			X
70.2	400482	ROTATING HANDLE		1			X
71.1	403440	STAR TRIANGLE SWITCH INSERT		1			X
71.2	402230	COVER PLATE		1			X
71.3	400480	ROTATING HANDLE		1			X
72	300270	HEX SOCKET HEAD CAP SCREW WITH ALLEN KEY		4			X
73	300317	HEXAGON NUT		4			X
74	300248	STEEL WASHER		4			X

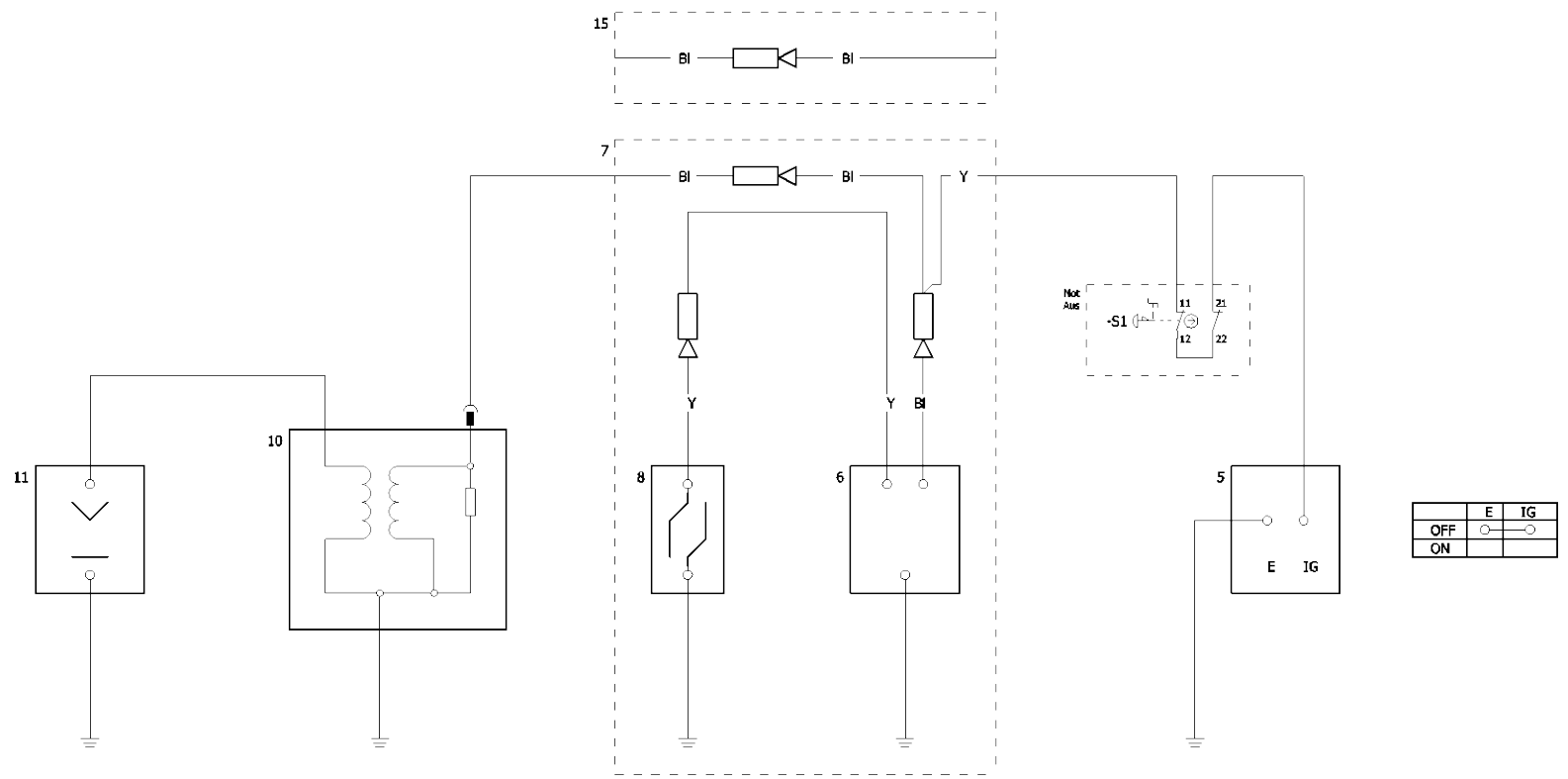


To prevent incorrect deliveries, when ordering spare parts, indicate the complete model designation, year of manufacture and the machine number!

Technical changes may be made! We make it explicitly clear that parts not supplied by us are also not tested and released by us. The installation and use of such products can therefore, in certain conditions, modify your equipment negatively and thus affect safety. For damages caused by the use of non-original parts and accessories, there is no liability!



**LISSMAC**  
 COMPACTCUT 300 P  
 COMPACTCUT 300 E  
 03-2016



- 5 Zündschalter
  - 6 Oil Alert-Einheit
  - 7 Typ mit Oil Alert-Einheit
  - 8 Ölstandschalter
  - 10 Zündspule
  - 11 Zündkerze
  - 15 Typ ohne Oil Alert-Einheit
- BI Schwarz  
Y Gelb

	E	IG
OFF	○	○
ON	○	○



Translation of the original EU  
Declaration of Conformity

**LISSMAC**



This EC Declaration of Conformity is valid for the following machine:  
LISSMAC Floor saw COMPACTCUT 300.

This declaration relates exclusively to the machine in the state in which it was placed on the market, and excludes components which are added and/or operations carried out subsequently by the final user. It is confirmed that the machine conforms to the relevant provisions of Directive 2006/42/EC and 2000/14/EC.

**Manufacturer:**

LISSMAC Maschinenbau GmbH  
Lanzstrasse 4  
D-88410 Bad Wurzach

The technical documentation retained by  
LISSMAC Maschinenbau GmbH, D-88410 Bad Wurzach

**Machine description:**

The LISSMAC Floor saw is a floor cutting grinder and is designed exclusively for cutting grooves into concrete or asphalt using water. Cutting uses saw blades, up to a maximum of 15 mm and may only be operated for cutting of floors.

	COMPACTCUT 300 P	COMPACTCUT 300 E
Cutting depth	180 mm	
Saw blade Ø max.	500 mm	
Saw blade holder	25.4 mm	
Drive motor	1-cylinder Honda	Electric motor
Output power max.	8.7 kW / 11.7 PS	7.5kW
Saw blade speed	2300 rpm	1900 rpm
Dimensions L / W / H	1140 / 585 / 910 mm	
Weight	105 kg	123 kg

**Harmonised standards:**

EN 13862:2010-03  
EN ISO 12100 Correction 1:2013-08  
EN 60204-1; VDE 0113-1/A1:2009-10

**Legally binding  
representative:**

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Bad Wurzach den 01.03.2021

Dr. Hinrich Dohrmann  
(General Manager)

**LISSMAC**

UNS BEWEGEN IDEEN

