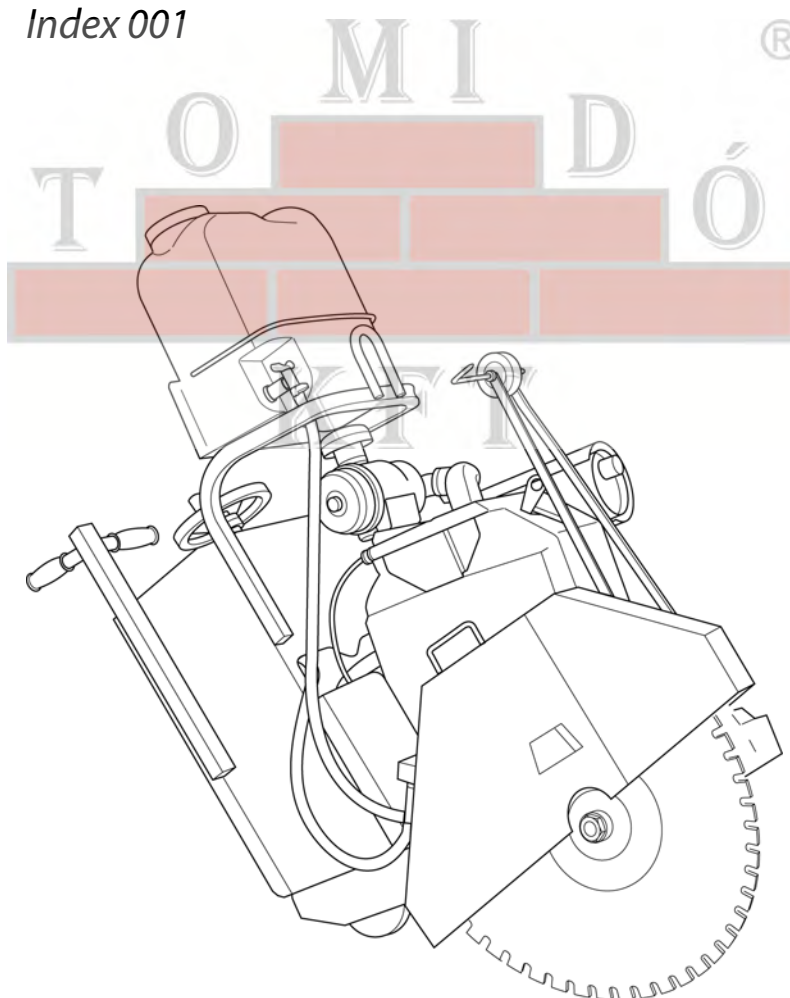



Operating Instructions

Floor Saw FSG620★ ★

Index 001



The TYROLIT logo is a large, faint watermark in the background. It features the word 'TYROLIT' in a serif font, with 'T' and 'O' on the left, 'M' and 'I' in the center, and 'D' and 'Ó' on the right. Below the letters is a stylized red pyramid with three tiers. To the right of the pyramid is a registered trademark symbol (®).

Congratulations!

You have decided to purchase a tried and tested TYROLIT-Hydrostress unit and have thus acquired a highly sophisticated and reliable state-of-the-art unit. The exclusive use of only TYROLIT Hydrostress spare parts ensures quality and interchangeability. If maintenance work is neglected or carried out inexpertly we will be unable to honour our warranty obligations. Any repair work must be carried out by trained personnel only.

Should you need more details concerning your TYROLIT Hydrostress unit in order to keep it in perfect condition, please contact our after-sales service for further information.

We hope that you enjoy untroubled and fault-free working with your TYROLIT unit.

TYROLIT Hydrostress

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Witzbergstrasse 18
CH-8330 Pfäffikon
Switzerland
Tel. 0041 (0) 44 952 18 18
Fax 0041 (0) 44 952 18 00

1 Safety



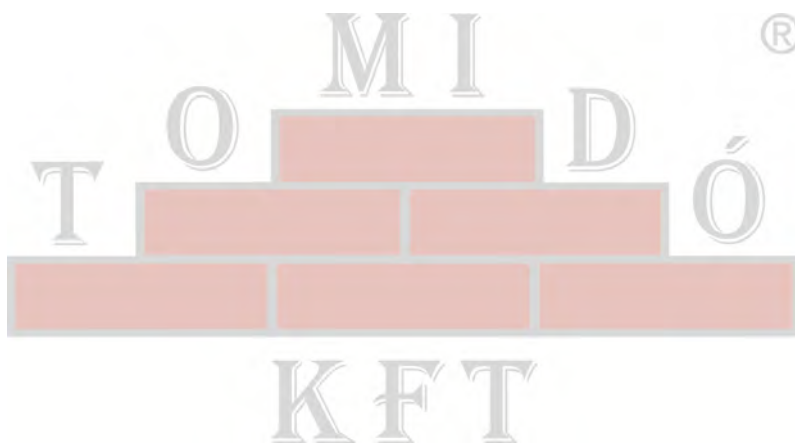
These instructions are just one part of the documentation which is supplied together with the floor saw. These instructions go together with the "Safety Manual / System Description for Floor Saws" to form a complete set of documentation.



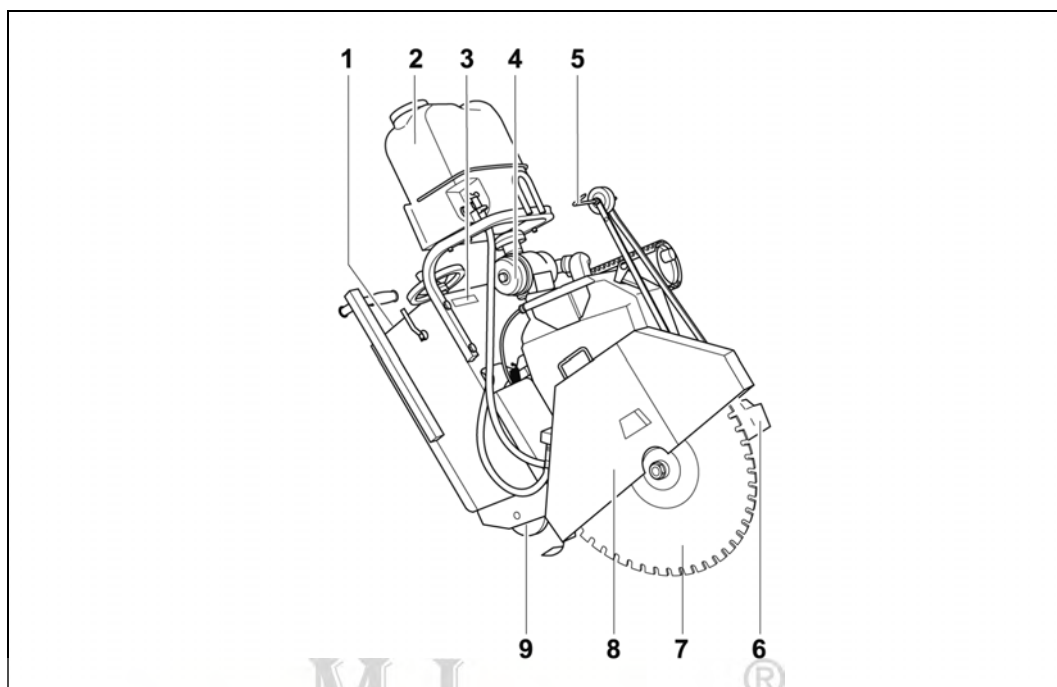
DANGER

Failure to comply with the safety instructions in the "Safety Manual / System Description" may result in serious injury or death.

- Please ensure that the "Safety Manual / System Description for Floor saws" has been read and understood in full.



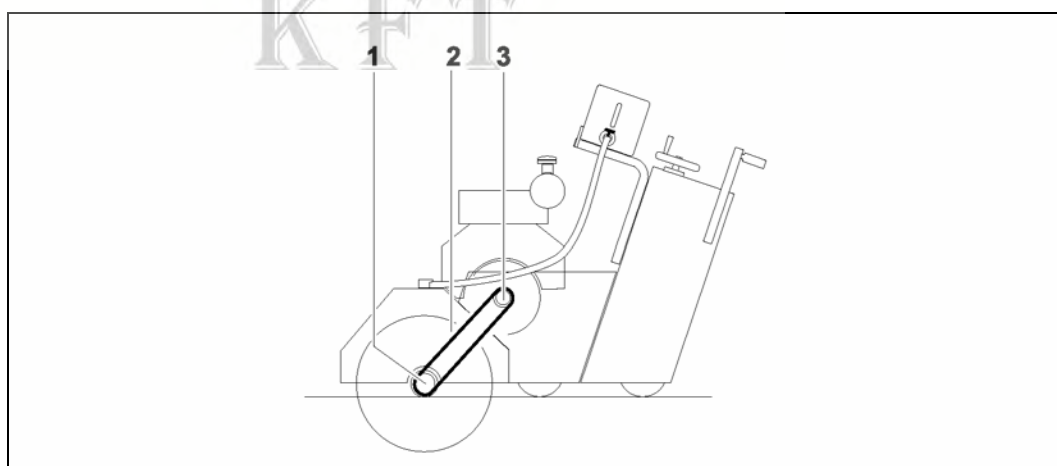
2 Design



Components

| | | | | | |
|---|-------------------|---|-------------|---|-------------|
| 1 | Operating console | 4 | Main motor | 7 | Saw blade |
| 2 | Water tank | 5 | Cut guide | 8 | Blade guard |
| 3 | Name plate | 6 | Shaft cover | 9 | Drive wheel |

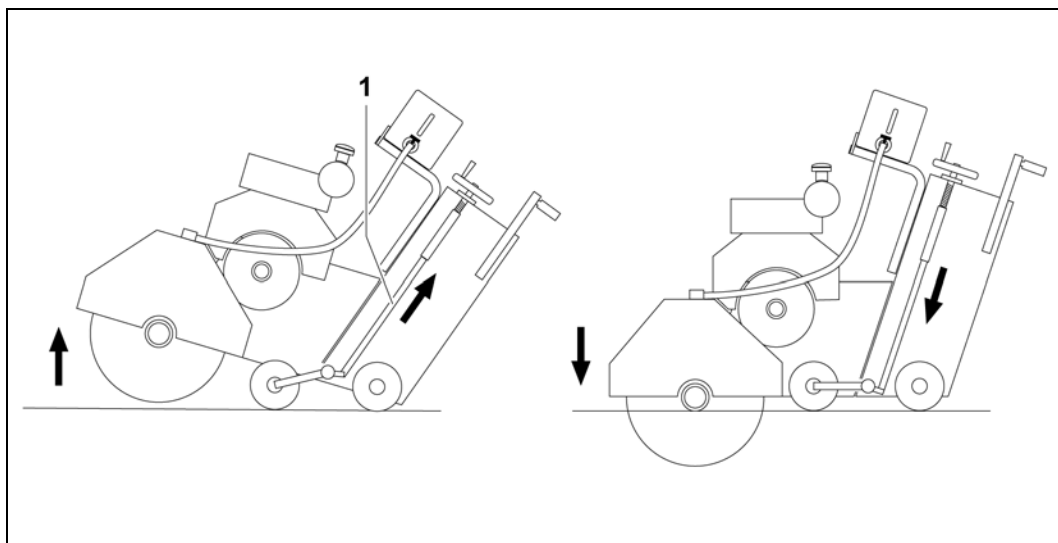
2.1 Saw blade drive



Saw blade drive (schematic)

- 1 Blade drive shaft
- 2 Drive belt
- 3 Main motor drive shaft

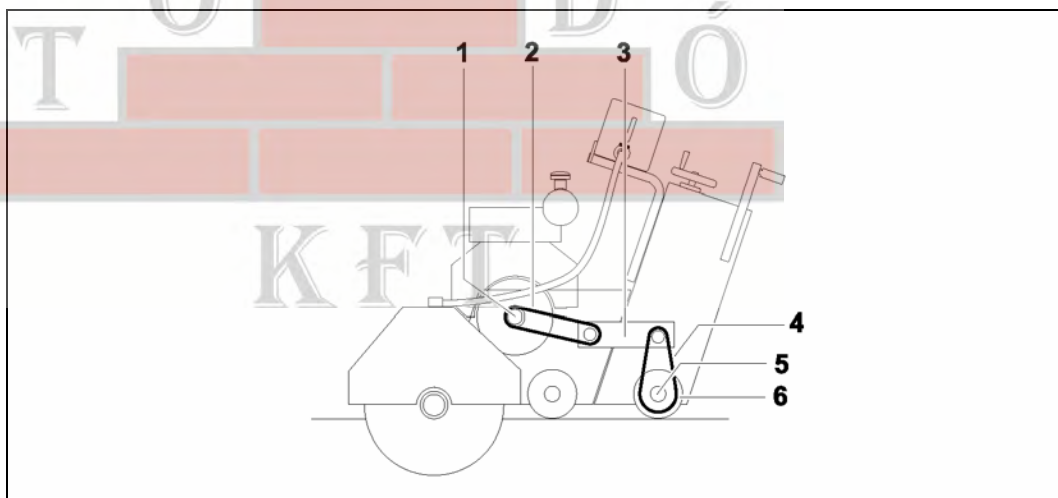
2.2 Lift drive



Lift drive (schematic)

1 Movable spindle

2.3 Travel drive



Travel drive (schematic)

| | | |
|----------------------------|----------------------|---------------------|
| 1 Drive shaft (main motor) | 3 Hydrostatic motors | 5 Wheel drive shaft |
| 2 Hydrostat drive belt | 4 Drive chain | 6 Drive wheel |

3 Transport

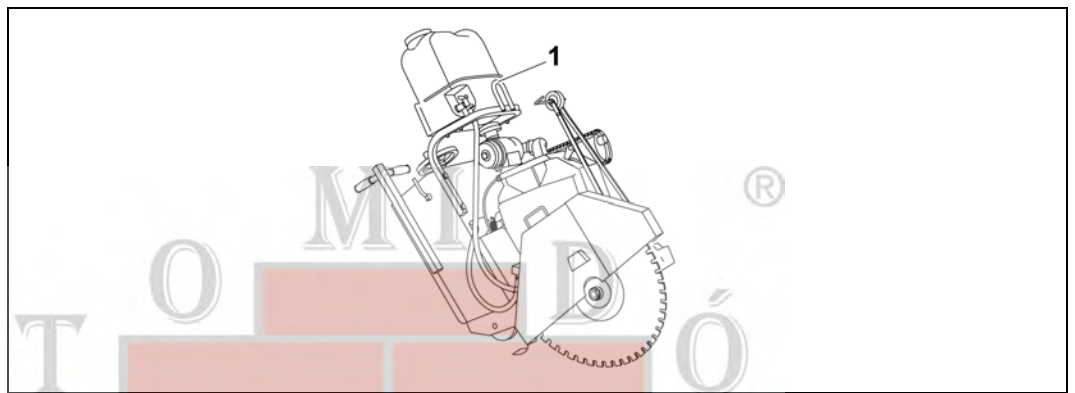


DANGER

Inexpert transport may result in death or serious injury.

- ▶ Floor saws must only be transported with the main motor switched off.
- ▶ Only transport vehicles, lifting tools and load suspension devices with sufficient load-bearing capacity must be used.
- ▶ Floor saws must only be hitched by the hitching points provided.
- ▶ Appoint an expert marshaller.
- ▶ When transporting by crane do not stand underneath suspended load.
- ▶ Always have the floor saw in your line of vision while it is being transported.

3.1 Hitching points

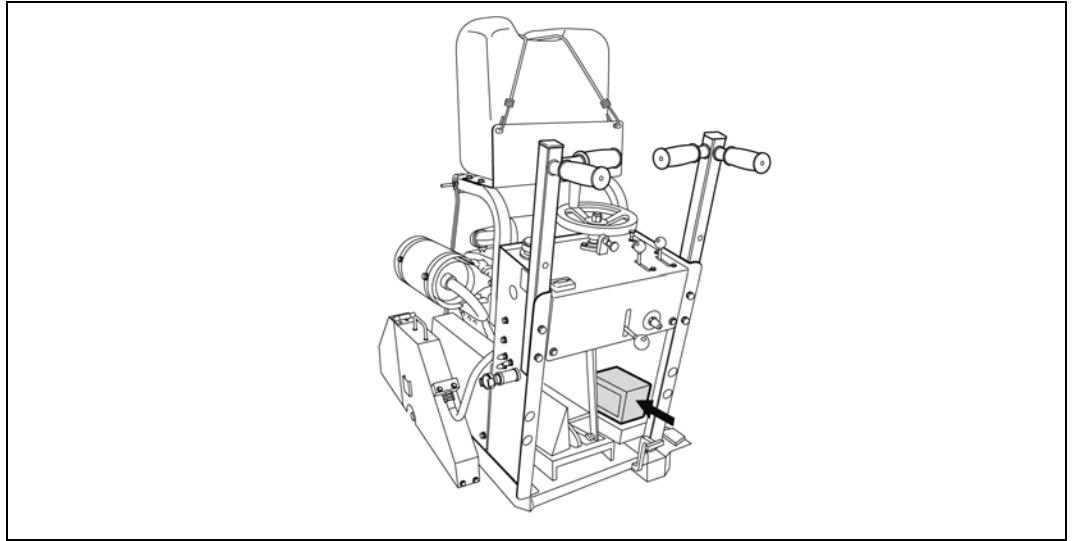


Hitching points

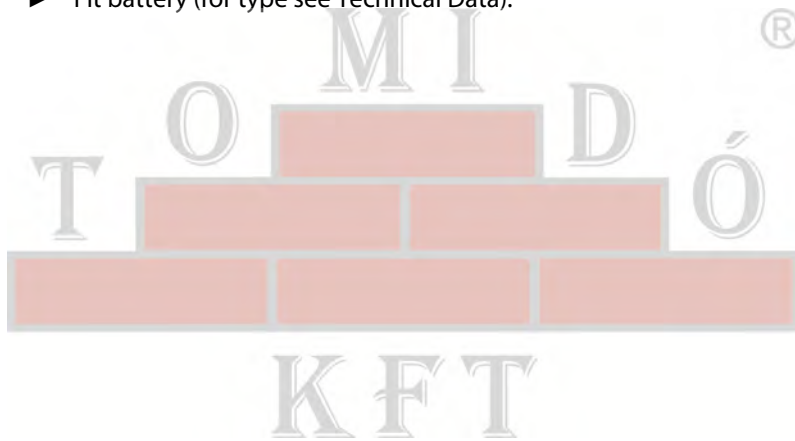
1 Crane hitching device

4 Initial start-up

4.1 Fitting battery

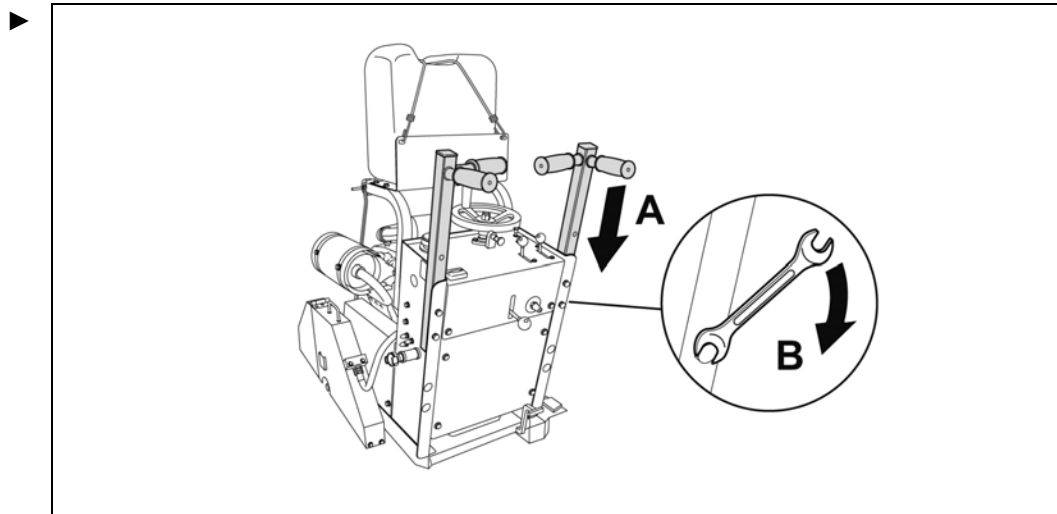


- Fit battery (for type see Technical Data).

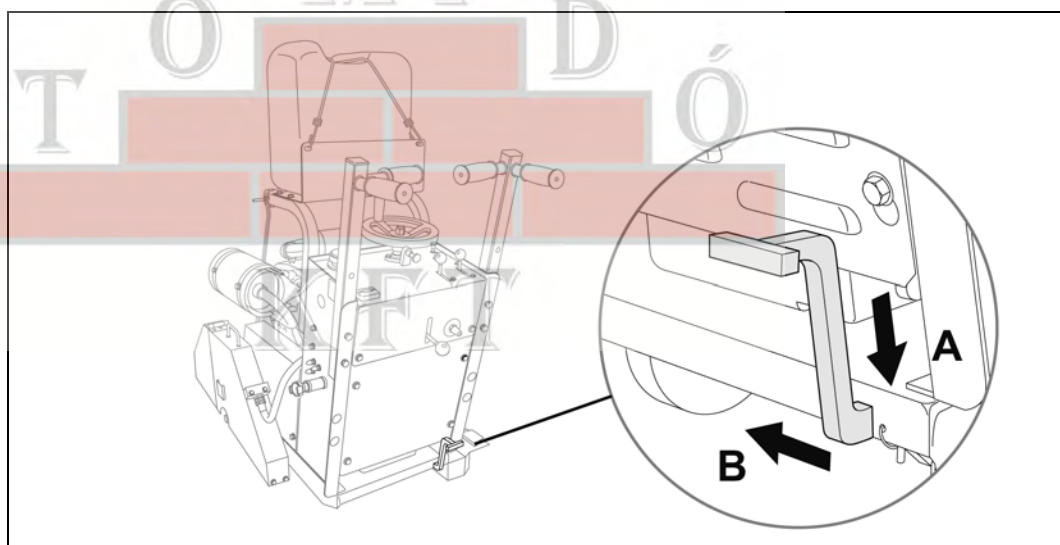


5 Assembly / Set-up

5.1 Mounting grip

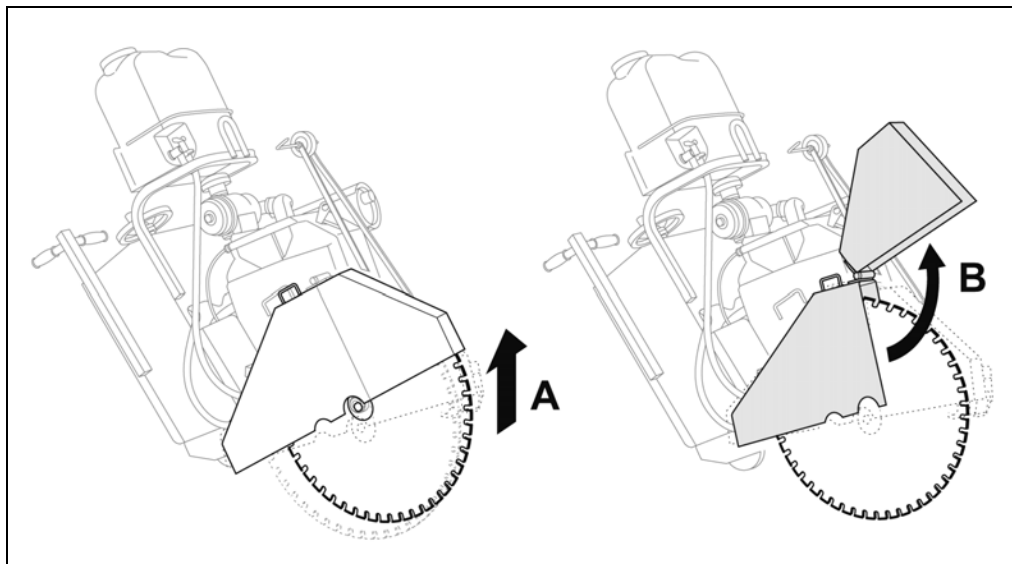


5.2 Mounting saw blade



1. Apply footbrake

2.



DANGER

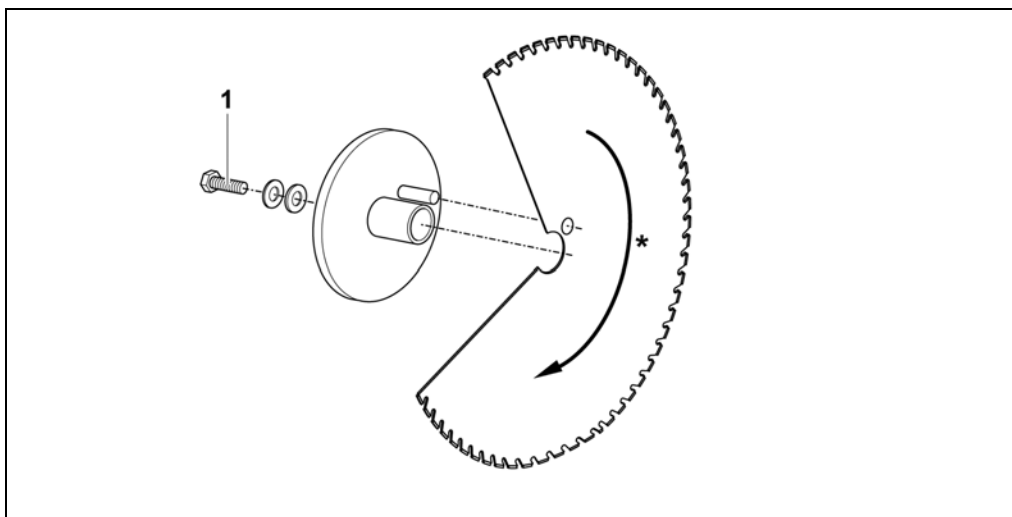
Parts that fly off (segments, concrete splinters, saw blade, etc.) may cause serious injury or even death.

- ▶ Floor saws must only be operated with a blade guard.
- ▶ When assembling the saw blade on the right-hand side use the anchoring screw with the left-hand thread.
- ▶ When assembling the saw blade on the left-hand side, use the anchoring screw with the right-hand thread.



- ▶ Note the direction or rotation arrows on the saw blade.

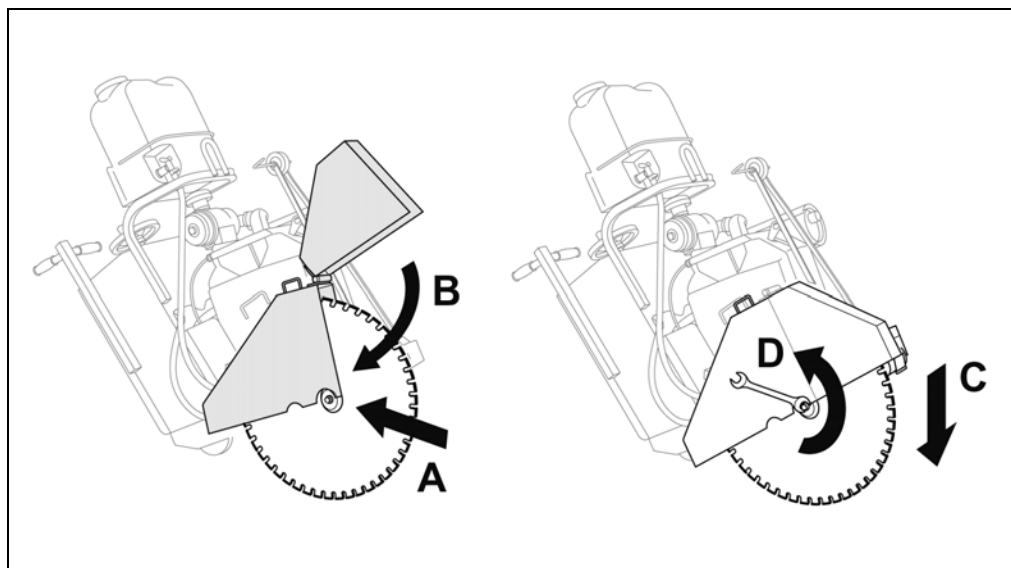
3.



1 Anchoring screw

*Note the direction of rotation

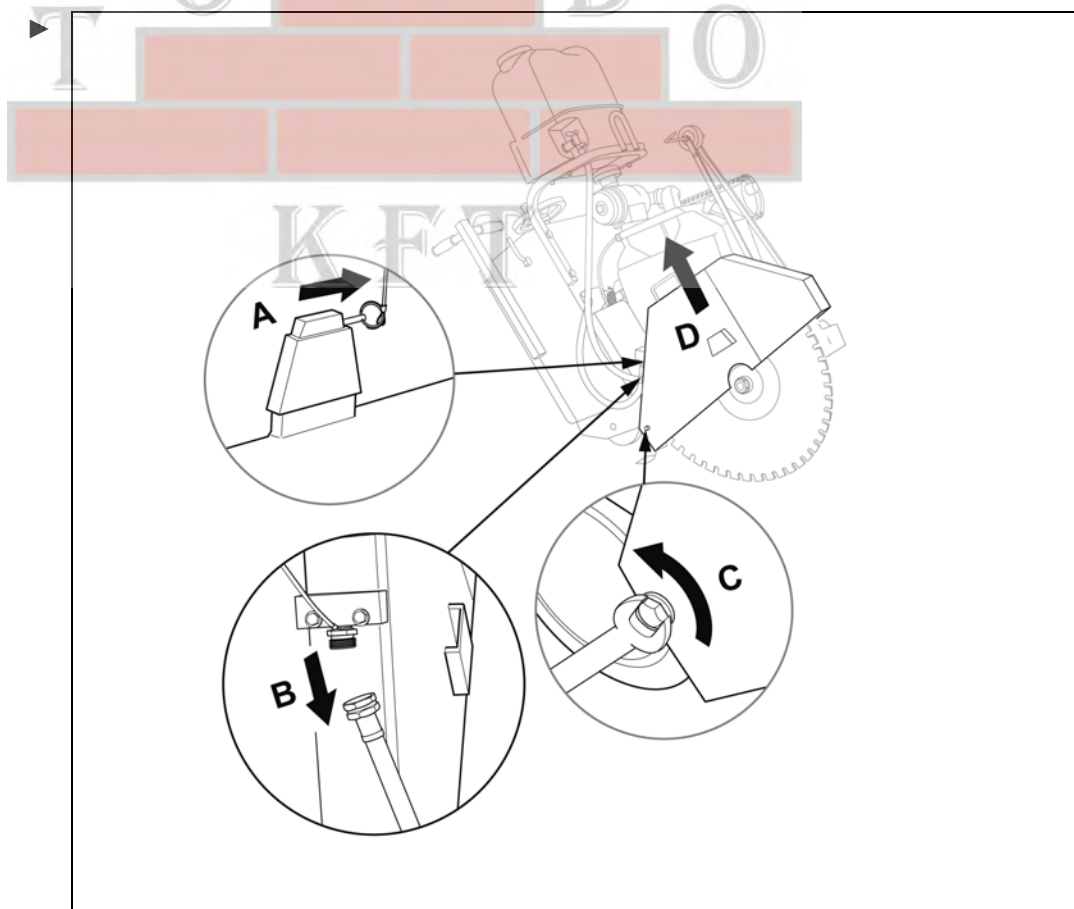
4.



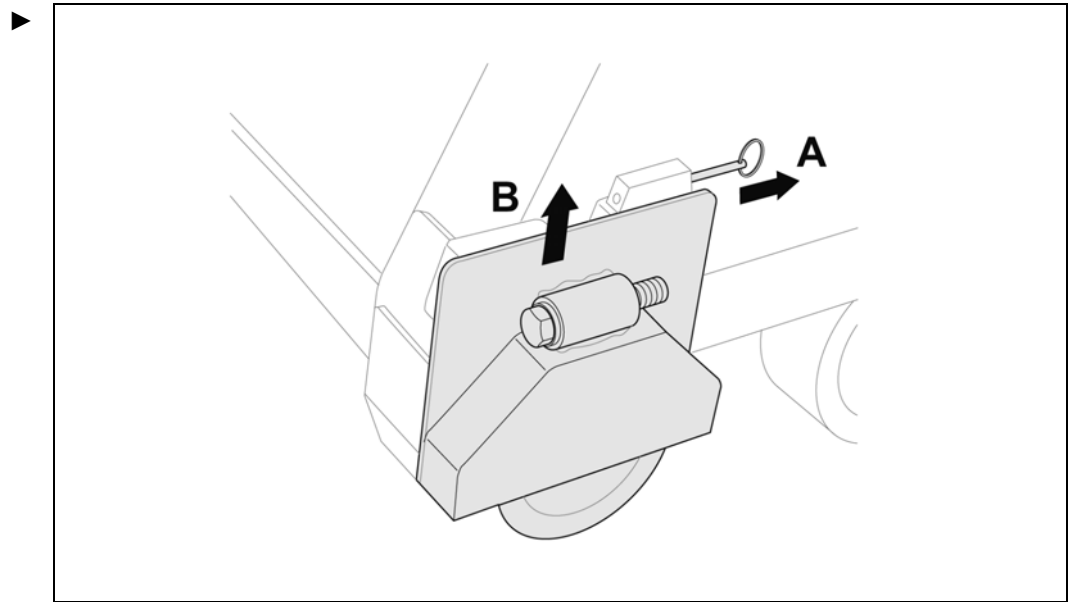
C: To prevent the saw blade rotating while being tightened, carefully place the saw blade on the floor.

5.3 Mounting saw blade on the other side

5.3.1 Disassemble the blade guard



5.3.2 Disassemble the shaft cover



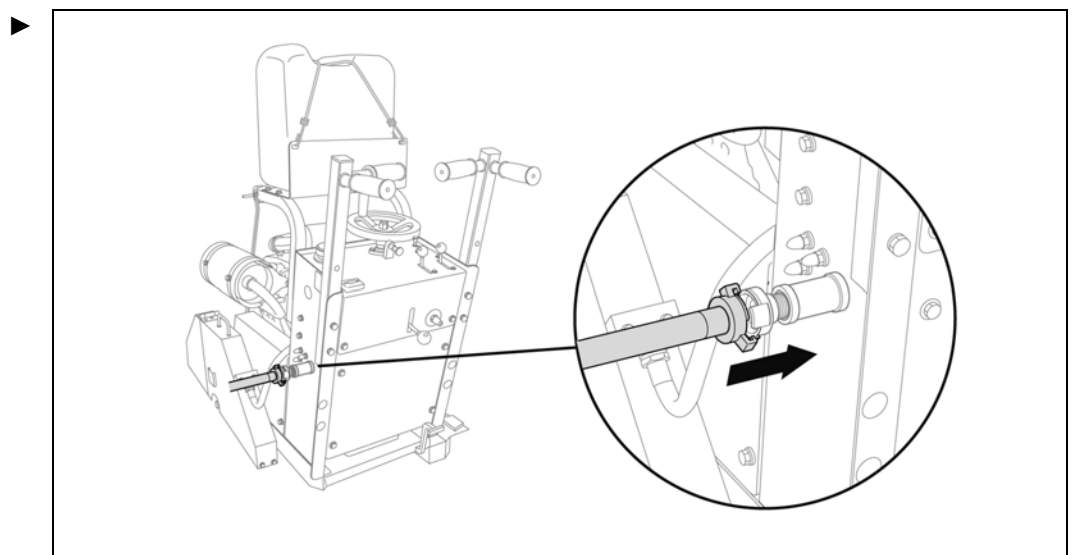
5.3.3 Assembling the blade guard and shaft cover on the other side

Assembly of the blade guard and the shaft cover is performed in the opposite order to disassembly.

5.4 Connecting water line

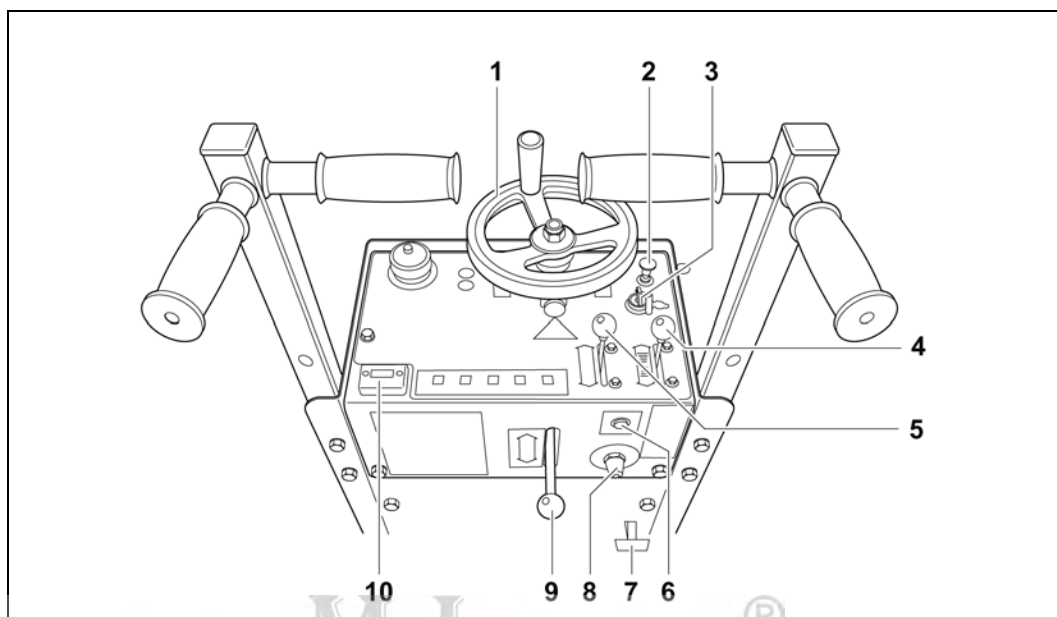


The water tank should also always be full when an external water supply is used. This ensures that the joint cutter exerts sufficient weight on the cutting material.



6 Operation

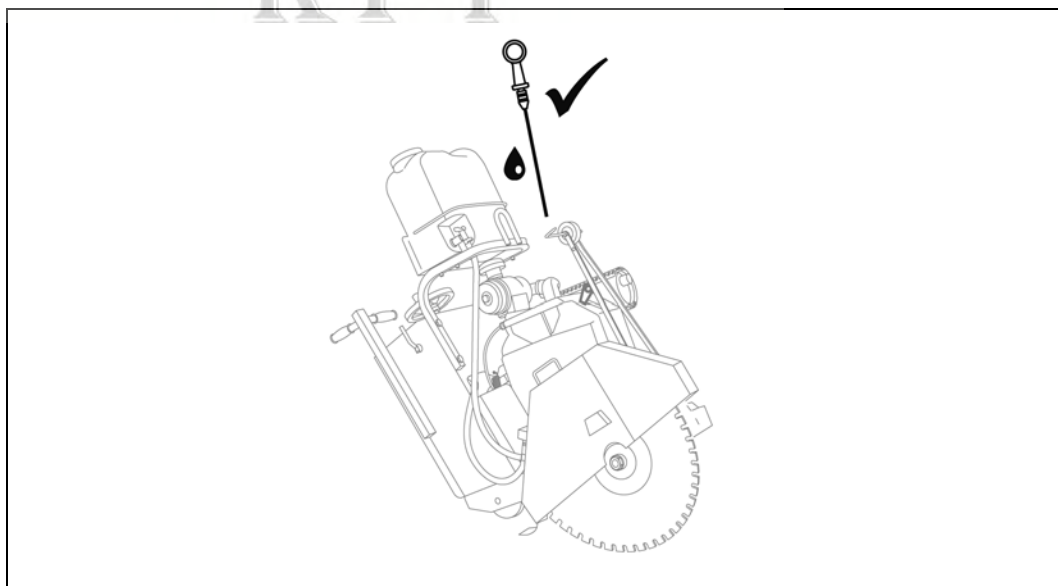
6.1 Overview of operating elements



Operating elements

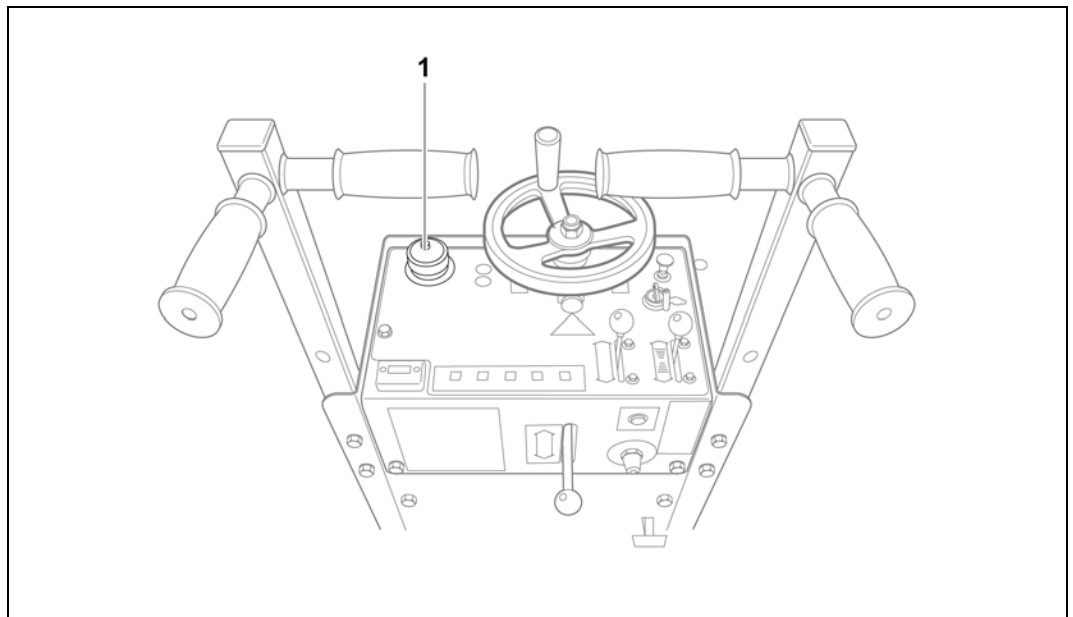
| | | | | | |
|---|---|---|------------------------------|----|---------------------------|
| 1 | Raise / lower hand wheel | 5 | Speed governor | 9 | Feed gears coupling lever |
| 2 | Choke | 6 | EMERGENCY STOP switch | 10 | Operating hours meter |
| 3 | Ignition key | 7 | Foot brake | | |
| 4 | Feed adjuster (forward / backward travel) | 8 | Battery main switch | | |

6.2 Checking oil level



► Note the details from the motor manufacturer.

6.3 Checking the fuel level

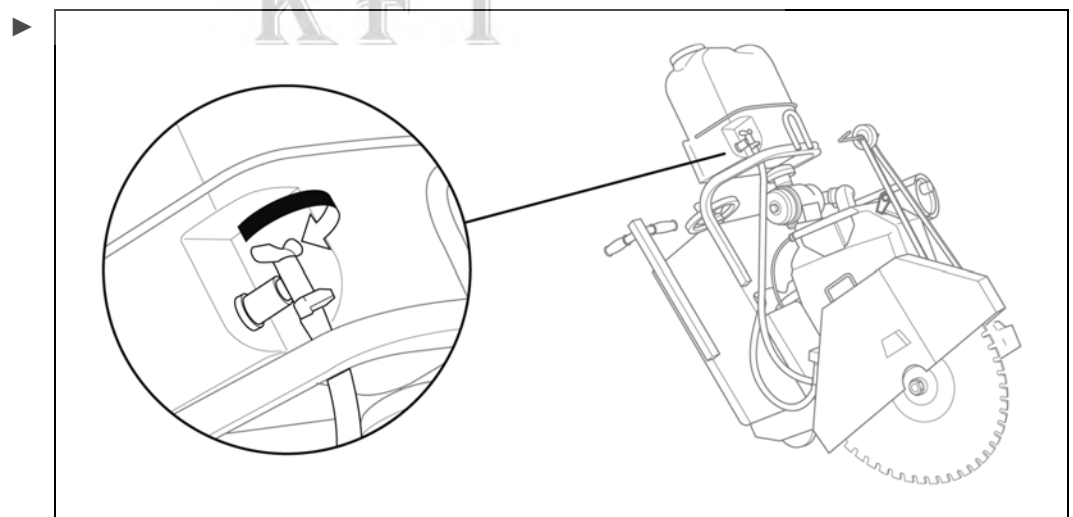


- Check the tank display (1) and top up with ROZ 95 petrol as necessary.

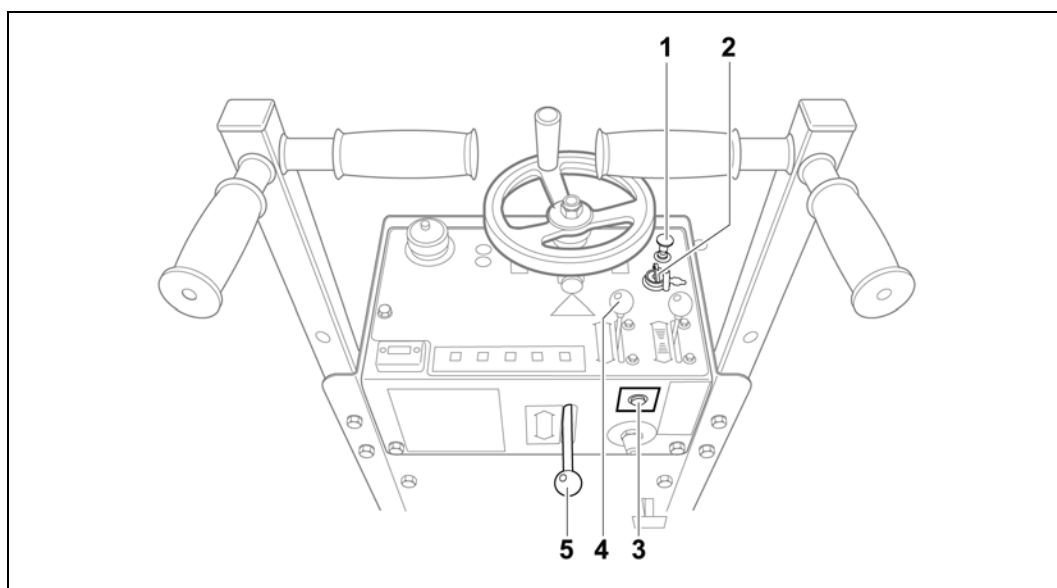
6.4 Positioning the floor saw

1. Release footbrake
2. Slide floor saw into the working position.
3. Fit the cutting guides to the floor saw.

6.5 Connecting the water supply



6.6 Switch on motor

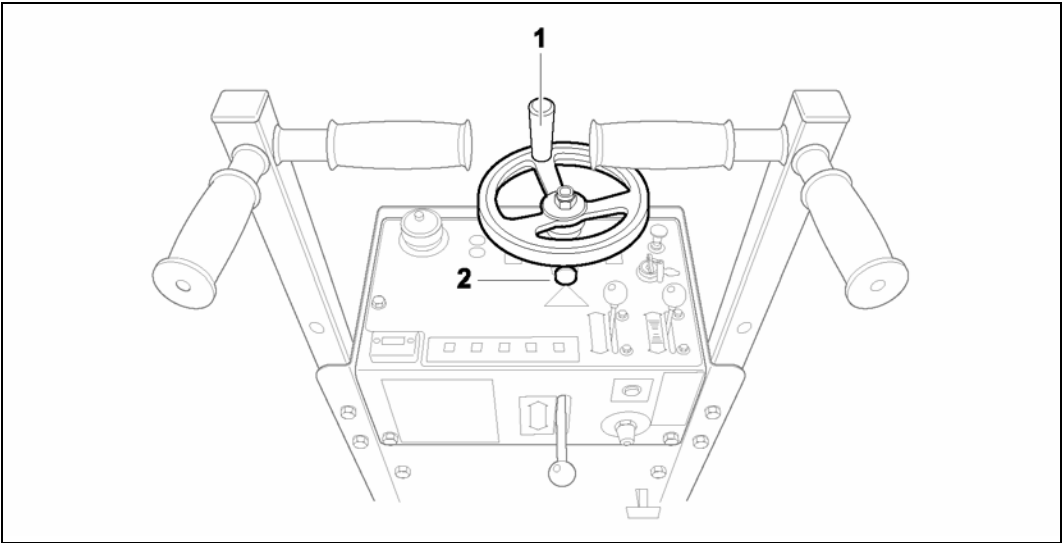



| Symbol | Significance |
|--------|--------------------------------------|
| | Coupling lever in coupled position |
| | Coupling lever in uncoupled position |

- ✓ Coupling lever (5) is in the uncoupled position
- ✓ **EMERGENCY STOP** switch (3) has been released

1. Pull out choke (1) according to temperature.
2. Start motor with ignition key (2).
3. Push choke (1) back in.
4. Set motor speed with speed governor (4).

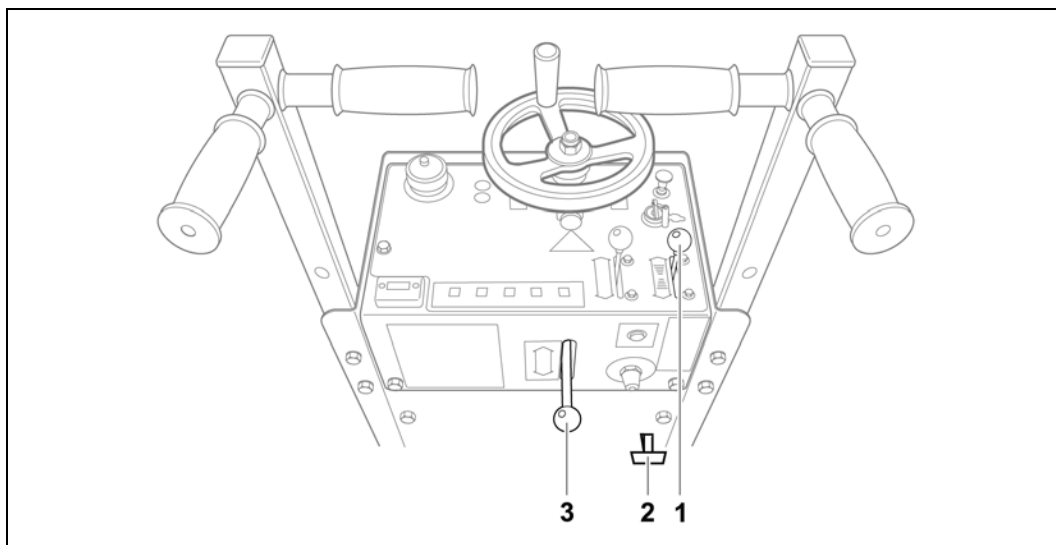
6.7 Lowering / raising saw blade



| Symbol | Significance |
|---|------------------------------|
|  | Raising / lowering saw blade |

- 1. Lower joint cutter with the hand wheel (1) to the desired cutting depth.
- 2. Engage locking pin (2)

6.8 Adjusting the feed



| Symbol | Significance |
|--------|--|
| | Coupling lever in coupled position |
| | Coupling lever in uncoupled position |
| | Feed adjuster in the forwards direction of travel |
| | Feed adjuster in the backwards direction of travel |

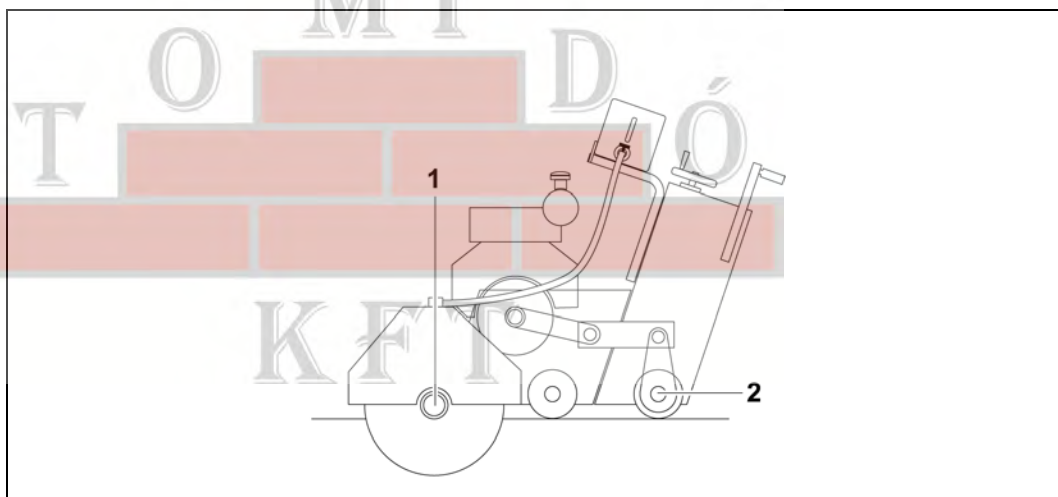
- ✓ Feed adjuster (1) is in the neutral position
- ✓ Footbrake (2) is released

1. Place coupling lever (3) in the coupled position.
2. Using the feed adjuster (1), set the direction of travel and speed.

7 Maintenance

| When? | What? |
|--|---|
| Daily | <ul style="list-style-type: none"> ▶ Check oil level. ▶ Perform a visual check for damage. |
| Weekly | <ul style="list-style-type: none"> ▶ Check belt and chain tension and adjust as necessary. |
| Every 50 hours of operation | <ul style="list-style-type: none"> ▶ Lubricate grease nipples. |
| Annually or every 100 operating hours | <ul style="list-style-type: none"> ▶ Arrange a major service by TYROLIT Hydrostress AG or an authorised representative. |
| According to the information from the motor manufacturer | <ul style="list-style-type: none"> ▶ Carry out all necessary measures in accordance with the operating instructions of the motor manufacturer. |

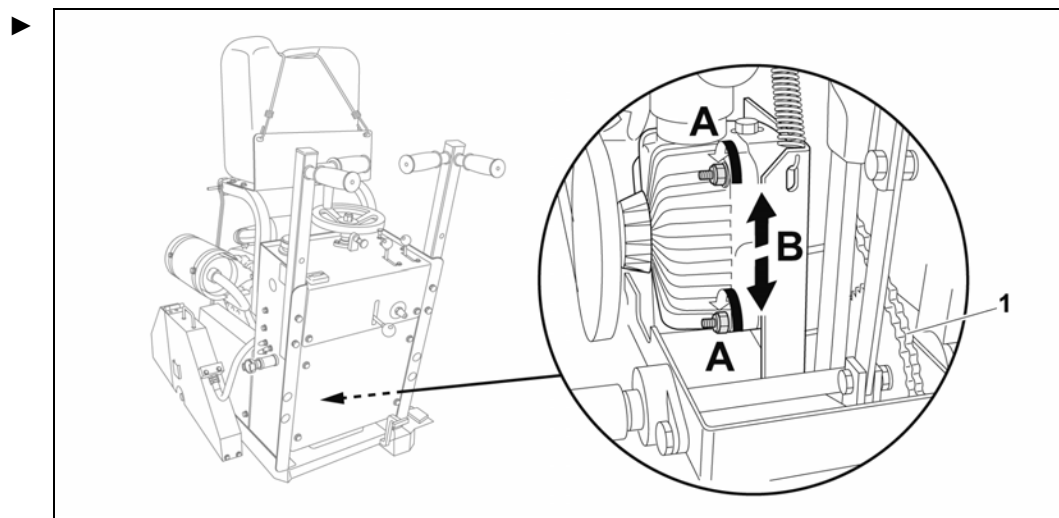
7.1 Grease nipples



Position of grease nipples

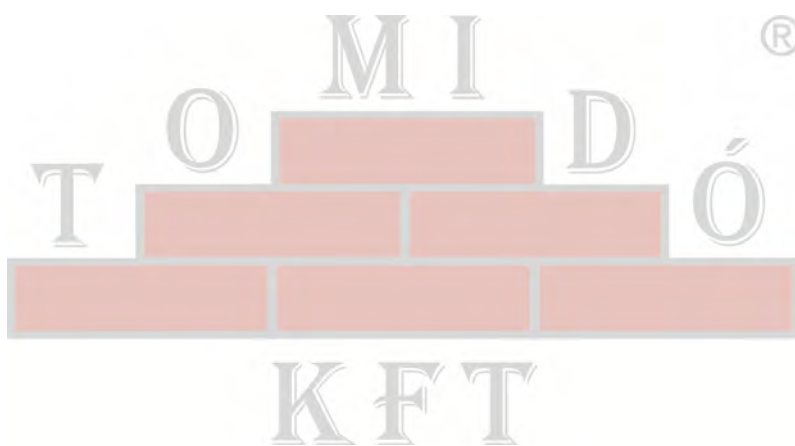
- 1 Blade drive shaft: 2 items
- 2 Wheel drive shaft bearing: 2 items

7.2 Tensioning chain on travel drive



Tensioning chain

1 Chain



8 Malfunctions

| Malfunction | Possible cause | Solution |
|--|---|---|
| Floor saw does not operate | EMERGENCY STOP switch has been pressed. | ► Release EMERGENCY STOP switch. |
| Saw blade jammed | Saw blade is jammed in the cutting material | ► Reverse the floor saw. ► If necessary release the saw blade by rocking. ► If necessary stop the motor, disassemble the saw blade and release this individually from the cutting material. |
| Saw blade does not rotate even though the motor is running | Belt tension too slack | ► Tension or replace belt. |
| | Pulling pin on the anchoring flange has sheared off | ► Mount new anchoring flange. |
| Feed not working | Operation of the control rods impaired | ► Check control rods and repair as necessary. |
| | Defective hydrostat | ► Check hydrostat and if necessary have this repaired by a TYROLIT Hydrostress engineer. |
| | Defective chain | ► Have the chain replaced by a TYROLIT Hydrostress engineer. |
| | Main motor belt slipping | ► Check belt for wear and if necessary have this replaced by a TYROLIT Hydrostress engineer. ► Increase belt tension as necessary. |
| Motor running off centre | Wrong fuel | ► Switch off motor immediately and change fuel. |
| | Oil filter blocked | ► Have oil filter changed. |

9 Technical data

9.1 Dimensions

| Parameter | Value |
|--|---------------------------------------|
| Weight | 200 kg |
| Cutting depth (max.) | 230 mm |
| Blade uptake diameter | 25.4 mm |
| Max. saw blade diameter | 600 mm |
| Dimensions (transport dimensions with blade guard folded up) | L: 990 mm W: 570 mm H: 1,070 mm |

9.2 Motor

| Parameter | Value |
|--------------|---|
| Type | Honda [®] |
| Power | 20 PS |
| Rated speed | According to operating instructions from motor manufacturer |
| Oil content | According to operating instructions from motor manufacturer |
| Tank content | 7.6 l |
| Fuel | Petrol |
| Cooling | Air cooling |

9.3 Lift drive

| Parameter | Value |
|------------|------------------------|
| Drive type | mechanical via spindle |

9.4 Travel drive

| Parameter | Value |
|------------|--------------------------------------|
| Drive type | Hydraulic |
| Oil grade | ATF Dexron II D |
| Cooling | Air cooling by means of cooling ribs |

9.5 Noise level and vibrations

| Parameter | Value |
|--|------------------------|
| Noise level at the ear of the user (L_{eq}) | 87.9 dB(A)* |
| Noise level at workplace (L_{PA}) | 89.1 dB(A)* |
| Sound power level in accordance with ISO 3744 (L_{WA}) | 109.1 dB(A)* |
| Vibrations DIN EN ISO 5349-2 | < 2.5 m/s ² |

*Value applies under the following condition: Travel drive is switched off and the saw blade is not engaged. The measurement is performed with the motor under full load with the saw blade dia. 600 mm. Higher noise levels may be generated in cutting operation.

9.6 Battery

| Parameter | Value |
|--------------------------|--------------------------------|
| Description | Battery 12-Volt, Group Size U1 |
| DP battery part number | 2500584 |
| Length | 196 mm |
| Width | 130 mm |
| Height | 165 mm |
| Capacity | 300 Amps |
| Manufacturer's reference | 53030 ETN 530 030 030 |
| Special feature | Clamping shoe |

EC declaration of conformity

| | |
|----------------------|------------------------|
| Description | Floor Saw |
| Type designation | FSG620 ★ ★ |
| Year of construction | 2007 |
| Manufacturer | TYROLIT Hydrostress AG |

We declare under our own liability that this product complies with the following directives and standards:

Directive applied

| | |
|--|------------|
| Machine Directive | 2006/42/EC |
| Noise Emission | 2000/14/EC |
| Electricity Directives | 93/68/EEC |
| Electromagnetic Compatibility | 89/336/EEC |
| 2002/95/EC Restriction of the use of certain hazardous substances in electrical and electronic equipment | 2002/95/EC |
| Waste Directive | 2002/96/EC |
| Vibration Directive | 2002/44/EC |

Standards

| | |
|--------------|--|
| EN 12100-1 | Safety of machinery – Basic concepts, general design principles. |
| EN 12100-2 | Safety of machinery - Basic concepts and general principles for design. |
| EN ISO 14121 | Safety of machinery - Principles of risk assessment. |
| EN 294 | Safety of machinery – Safety distances to prevent upper limbs reaching danger areas. |
| IEC 60204-1 | Safety of machinery – Electrical equipment of machines, General Requirements. |
| IEC 6100-6-3 | Electromagnetic Compatibility |
| EN 13862 | Floor cutting-off machines. Safety. |
| EN 349 | Safety of machinery – Safety distances to avoid crushing of body parts. |
| EN 982 | Safety of machinery Safety requirements for safety systems and their components – hydraulics. |
| EN ISO 3744 | Acoustics - Determination of sound power levels of noise sources using sound pressure |