

GB

## Original operating instruction and spare parts list Floor saw



ZN der Bedienungsanleitung: 5009010-03  
Erstellt am: 09 / 2022  
Erstellt von: Konstruktion  
Datei: K:\KDV\5009xxx\5009010-Bedienungsanleitung\_FS170\  
5009010-02-Bedienungsanleitung-DE-GB-FR-NL.doc

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Die Firma	Manufacturer	La Société	De Firma

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erklärt in alleiniger Verantwortung dass folgende Maschine:	Declare hereby certifies on its sole responsibility that the following product:	déclare sous sa seule responsabilité que le produit suivant:	Komform de bepalingen van de machinerichtlijn verklaart hiermede dat onderstaande machine:
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### FS170

Fugenschneider  
 Floor saw  
 Scie de sol  
 Vloerenzaagmachine

Seriennummer / Serial number / Numéro de série / Seriennummer: \_\_\_\_\_

auf das sich diese Erklärung bezieht, mit folgenden Richtlinien übereinstimmt:  <b>2006/42/EG</b> Maschinenrichtlinie  <b>2016/1628/EU</b> Abgasrichtlinie  <b>2005/88/EG</b> Geräuschemission	which is explicitly referred to by this declaration meet the following directives:  <b>2006/42/EG</b> Machinery directive  <b>2016/1628/EU</b> Exhaust emission directive  <b>2005/88/EG</b> Noise emission	Qui fait l'objet de la présente déclaration correspond aux directives suivantes:  <b>2006/42/EG</b> Directive machines  <b>2016/1628/EU</b> Directive de gaz résiduel  <b>2005/88/EG</b> Émission de bruit	Voltoet aan de bepalingen van de machinerichtlijn:  <b>2006/42/EG</b> Machinerichtlijn  <b>2016/1628/EU</b> Betreffende de uitstootgassen  <b>2005/88/EG</b> Geluidsemisies
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mit folgenden Normen übereinstimmt:  <b>DIN EN 13862:2010-03</b> <b>DIN EN ISO 12100:2011-03</b> <b>DIN EN ISO 3744:2011-02</b> <b>DIN EN ISO 5349-2:2015-12</b>  Die oben genannte Firma hält Dokumentation als Nachweis der Erfüllung der Sicherheitsziele und die wesentlichen Schutzanforderungen zur Einsicht bereit.	meet the following standards:  <b>DIN EN 13862:2010-03</b> <b>DIN EN ISO 12100:2011-03</b> <b>DIN EN ISO 3744:2011-02</b> <b>DIN EN ISO 5349-2:2015-12</b>  Documented evidence conforming to the requirements of the directives is kept available for inspection at the above manufacturer's address.	aux normes suivantes:  <b>DIN EN 13862:2010-03</b> <b>DIN EN ISO 12100:2011-03</b> <b>DIN EN ISO 3744:2011-02</b> <b>DIN EN ISO 5349-2:2015-12</b>  Pour faire foi de la conformité et du respect des règles de sécurité, la documentation peut être consultée au siège de la Société susmentionnée.	Conform de norme:  <b>DIN EN 13862:2010-03</b> <b>DIN EN ISO 12100:2011-03</b> <b>DIN EN ISO 3744:2011-02</b> <b>DIN EN ISO 5349-2:2015-12</b>  Voormelde firma bewaart documentatie ter inzage als bewijs van de naleving van de veiligheidsregels en de wezenlijke beschermings-eisen.
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CE

Hellenthal, den 17.03.2025

Geschäftsführer / General Manager /  
 Président-directeur général / Zaakvoerder

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Information zur EU Verordnung 2016/1628 Emissionsgrenzwerte nach Artikel 43, Abs. 4

Information to EU Regulation 2016/1628 Emission limits Article 43, Par. 4

Informations sur le règlement UE 2016/1628 Valeurs limites d'émission conformément à l'article 43, paragraphe 4

Informatie over EU-verordening 2016/1628 Emissiegrenswaarden overeenkomstig artikel 43, lid 4

Honda Motors.

**CO2 Information List**

NO.	Family Name on the emission label	Type Approval Number on the emission label	Engine Model Name	CO2 value [g/kW-hr]	Revision No.	Revised date
1	HNX2021BA	e6 SYA1/P V-0002	GCV145, GCV170, GCV200	862	New	06/03/2018
2	HNX0484BA	e6 SHA3/P V-0003	GX50T/NT	897	New	05/07/2018
3	HNX1961BA	e6 SYA3/P V-0004	GX160T2/UT2/RT2/H2, GX200T2/UT2/RT2/H2	757	New	24/08/2018
4	HNX1961BC	e6 SYA2/P V-0005	GP160H/200H	712	New	24/08/2018
5	HNX0254BA	e6 SHA3/P V-0007	GX25T/NT	1203	New	28/09/2018
6	HNX0364BA	e6 SHA3/P V-0008	GX35T/NT	851	New	28/09/2018
7	HNX0575BA	e6 SHB3/P V-0009	GXH50T/UT/RT, GXV50T/UT, GXV57T1/UT	797	New	28/09/2018
8	HNX1631BZ	e6 SYA2/P V-0010	GXV160H2/UH2	874	New	12/10/2018
9	HNX3892BA	e6 SYB3/P V-0011	GX340T2/UT2/RT2, GX390T2/UT2/RT2	743	New	28/09/2018

„Die Ergebnisse der CO2-Messungen resultieren aus Tests eines (Stamm-) Motors bei festgelegten Testzyklen unter Laborbedingungen. Der Motor ist repräsentativ für die Motorenfamilie und kann die Leistung eines einzelnen Motors weder einbeziehen noch garantieren.“

“The results of the CO2 measurements result from tests of a (parent) engine during specified test cycles under laboratory conditions. The engine is representative of the engine family and can neither incorporate nor guarantee the performance of a single engine. ”

“Les résultats des mesures de CO2 résultent des tests effectués sur un moteur (parent) au cours de cycles de test spécifiés dans des conditions de laboratoire. Le moteur est représentatif de la famille de moteurs et ne peut ni intégrer, ni garantir les performances d'un moteur unique. ”

“De resultaten van de CO2-metingen zijn het resultaat van tests van een (ouder) motor tijdens gespecificeerde testcycli onder laboratoriumomstandigheden. De motor is representatief voor de motorfamilie en kan noch de prestaties van een enkele motor opnemen noch garanderen. ”

„Die Ergebnisse der CO2-Messungen resultieren aus Tests eines (Stamm-) Motors bei festgelegten Testzyklen unter Laborbedingungen. Der Motor ist repräsentativ für die Motorenfamilie und kann die Leistung eines einzelnen Motors weder einbeziehen noch garantieren.“

“The results of the CO2 measurements result from tests of a (parent) engine during specified test cycles under laboratory conditions. The engine is representative of the engine family and can neither incorporate nor guarantee the performance of a single engine. ”

“Les résultats des mesures de CO2 résultent des tests

effectués sur un moteur (parent) au cours de cycles de test spécifiés dans des conditions de laboratoire. Le moteur est représentatif de la famille de moteurs et ne peut ni intégrer, ni garantir les performances d'un moteur unique. ”

“De resultaten van de CO2-metingen zijn het resultaat van tests van een (ouder) motor tijdens gespecificeerde

## Preface

Thanks for choosing a **GÖLZ®**-product. This operating instruction is designed to familiarize the user with the machine and its designated use.

The operating instruction contains important information on how to operate the machine safely, properly and most efficiently. Observing these instructions helps to avoid danger, to reduce repair costs and downtimes and to increase the reliability and life of the machine. The operating instruction is to be supplemented by the respective national rules and regulations for accident prevention and environmental protection. The operating instruction must always be available wherever the machine is in use. This operating instruction must be read and applied by any person in charge of work with or on the machine, such as:

- Operation including setting up, troubleshooting in the course of work, evacuation care and disposal of fuels and consumables.
- Maintenance (servicing, inspection, repair) and/or
- Transport

In addition to the operating instructions and to the mandatory rules and regulations for accident prevention and environment protection of the country and place of use of the machine, the generally recognized technical rules for safe and proper working conditions and procedures must also be observed.

In this manual all the information required for the intended use of the unit is included. If though you have any specific questions, please refer to your representative, to one of our sales representatives or directly to us:

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## Warning signs and symbols



Wear safety glasses!



Wear hard hat!



Wear safety boots!



Wear protective gloves!



Read owner's manual before first initiation!



Wear safety clothes!



Wear dust protection!



Wear ear muffs!



Never touch!



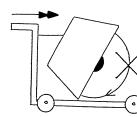
Electrical Hazard!



General danger!



Danger exists to cut oneself!



It is not allowed to move the machine with rotating blade outside of the area in which cutting works have to be performed!



Important advice!

## 1. Machine description

### 1.1 Intended use-description

The FS 170 is a floor saw with a cutting depth of up to 190 mm.

Its operating range includes the concrete and asphalt road construction, but mainly for transverse, longitudinal and expansion joints.

Operate the machine only using tools in accordance with the manufacturer's instruction. Using other tools is considered contrary to its designated use. The manufacturer cannot be held liable for any damage resulting from such use. The risk of such misuse lies entirely with the user. Der FS 170 can be equipped with different engines (see Technical data) and should be operated with the fuel specified by the manufacturer.



**Information: Unconditional observe the owner's manual of the engine manufacturer, which is added!**

### 1.2 Technical data

	FS170
Max. cutting depth	190 mm - 7.5 in.
Max. blade-Ø	500 mm - 19.7 in.
Flange size	Ø 100 mm - 3.9 in.
Blade shaft size	25,4 mm - 1 in.
Feed	manuel
Excavation	manual with foot pedal
Cutting depth control	Scale on frame

FS170			
Engine	Gasoline engine HONDA GX390 13PS/9,6kW	Gasoline engine Kohler CH440 10,5 kW (14 PS)	Electric motor 7,5PS/ 5,5kW 3Ph
Sound power level after DIN ISO 6393	No load = 104 dB(A) Full load = 114 dB(A)	No load = 101dB(A) Full load = 117 dB(A)	
Sound pressure level after DIN ISO 6393	No load =88 dB(A) Full load =98 dB(A)	No load = 85 dB(A) Full load = 100 dB(A)	
Vibration ISO 5349 VDMA 03/2006	$a = 4,5 \text{ m/s}^2$	$a = 2,5 \text{ m/s}^2$	
Max. cutting speed with blade	63,5 m/s	48 m/s	
Engine shaft speed	3600 rpm	1450 rpm	
Blade shaft speed	2691 rpm	2691 rpm	
Water supply	25l Water tank, for dry cutting blades Connection for external water supply wet cutting diamond blades		
V-belt tension	manuell		
Dimensions (LxWxH)	approx. 655x1033x1055 mm - 25.8x40.7x41.5 in.		
Weight (without water tank and blade)	approx. 120 kg - 264 lbs.	approx. 125 kg - 275 lbs.	

### 1.3 Shipment and provided accessory

- Floor saw FS170 without blade
- Wrench SW 13,17, 19, 30, 32
- Operating instruction and spare parts list floor saw
- Operating instruction engine

For the item number of accessories, please refer to the current catalogue of **GÖLZ®**

If accessories are used which do not correspond to **GÖLZ®** specifications, no liability is assumed for any damage resulting hereof.

For details regarding the selection of the right **GÖLZ®** diamond blades, please refer to the current **GÖLZ®** catalogue for diamond tools.

### 1.4 Main parts



1. Frame
2. Engine
3. Push bow
4. Water tank 25l
5. Blade guard
6. Cutting depth indicator
7. V belt guard
8. Pointer unit

The base frame (1) is the basis for the floor saw. All other components are built on the base frame.

The floor saw FS 170 is optional equipped with a petrol engine of Honda, diesel engine of Yanmar or electric motor (2). For any other information, please refer to the attached operating manual of the engine manufacturer.

The height adjustable push bar (3) allows a non fatiguing working.

In order to allow dust formation during cutting respectively cooling of the cutter blade, the floor saw is equipped with a pluggable water tank (4). There is also the possibility to cool directly by means of the water supply network respectively to bind the dust.

The cutting disc guard (5) provides the operator and the persons in his working area with optimum protection during the cutting process.

By means of the convenient cutting depth setting (6), the operator can read, at any time, the cutting depth.

The rib drive is protected by a protective hood (7). Thus, the risk of injury is reduced by the rib drive.

Furthermore, the rib drive is also protected from impurity during the cutting process.

The route indicator (8) allows precise cuts. Thanks to the direction indicator the operator can monitor and respect the cutting direction.

## 1.5 Operating elements



1. Foot pedal - raising and lowering
2. Depth control

## 1.6 Safety devices



***Danger: During cutting or displacing the machine, all safety devices shown below must be mounted!***



## 2. Basic safety instructions

In this manual the following terms and symbols are used for particular important information:



***Note / Important: Contains important information which stands out from the other text!***



***Attention: Contains instructions which must be strictly observed to prevent damage from the unit and the operator!***

Important text passages are highlighted in **italics** or **bold** or can be found in a grey highlighted text field.

## 2.1 Intended use

The machine has been built in accordance with state-of-the-art standards and the recognized safety rules. Nevertheless, its use may constitute a risk to life and limb of the user or of third parties, or cause damage to the machine and to other material property.

The machine must only be used in technical perfect condition in accordance with its designated use and the instructions set out in the operating manual, and only by safety-conscious persons who are fully aware of the risks involved in operating the machine. Any functional disorders, especially those affecting the safety of the machine, should therefore be rectified immediately!

The machine is designed exclusively for cutting in concrete, reinforced concrete, natural stone, cast stone and brickwork. Using the machine for purposes other than mentioned above (such as cutting in wood and so on) is considered contrary to its designated use. The **GÖLZ® GmbH** cannot be held liable for any damage resulting from such use. The risk of such misuse lies entirely with the user.

Only use gear drives and motors, which are provided by **GÖLZ® GmbH**. Also attend those operating manuals.

Operating the machine within the limits of its designated use also involves observing the instructions set out in the operating manual and complying with the inspection and maintenance directives.



***Attention: Read and observe all the operating instructions which belong to this unit!***

## 2.2 Operating range

Do not modify, add components to or retrofit the unit in a way which could affect its safety and do not use non-official accessories! This is not allowed without prior approval of **GÖLZ® GmbH**!

## 2.3 Organisational measures

This operating manual must always be at hand at the place of use of the machine and must be accessible to the person operating the machine!

In addition to this operating manual, all other generally applicable legal and other mandatory regulations relevant to accident prevention and environmental protection must be observed! Such obligations may also comprise the handling of hazardous materials,

provisioning and/ or wearing of personal protective equipment, or road traffic regulations.

This operating manual must be supplemented by instructions covering the duties involved in supervising and notifying special organizational features, such as job organization, work flows or the person entrusted with the work. Person entrusted with work on the machine must have read the operating manual prior to taking up work. This applies especially to persons working only occasionally on the machine, e.g. during set-up or maintenance activities.

Check - at least from time to time - whether the personnel is carrying out the work in compliance with the operating manual and paying attention to risks and safety-relevant factors.

For reasons of safety, long hair must be tied back or otherwise secured, garments must be close-fitting and no jewellery - including rings - may be worn.

Severe injury may result from being caught by moving parts of the machine. Personal protective equipment must be used wherever required by the circumstances or by law (e.g. safety glasses, ear protectors, safety boots, suitable safety clothing). Observe the regulations for prevention of accidents! Observe all safety precautions and warnings attached to the machine and always keep them in good and perfectly legible condition.

#### The personal protection equipment should consist of the following parts:

- 1) Hard hat with ear muff
- 2) Visor or safety glasses
- 3) Dust mask
- 4) Protective gloves
- 5) Safety clothes
- 6) Safety boots



In case event of safety-relevant modifications or changes in the behaviour of the machine, stop the machine immediately and report the malfunction to the competent authority/ person. Do not remove or make inoperative any safety devices the machine is equipped with.

Never make any modifications, additions or conversions which might affect safety without **GÖLZ® GmbH** prior approval! This also applies to the installation and adjustment of safety devices as well as to welding and cutting work on supporting structures.

Damaged or worn parts of the product must be replaced immediately. Use genuine spare parts only.

All spare parts and tools must comply with the technical requirements specified by the manufacturer/ distributor. Adhere to the legally prescribed preventive maintenance and inspection intervals or those specified in this operating manual!

Hydraulic hose pipes must be changed within the specified or appropriate intervals, even if no safety-relevant defects are visible.

All maintenance and repair activities must be performed by qualified personnel using suitable tools and other suitable workshop equipment. Observe the fire alarm and fire fighting measures. The personnel must be made familiar with the location and handling of fire extinguishers!

## 2.4 Selection and qualification of person

Only permitted personnel is allowed to work on and with the machine! The legal minimum age is to be observed!

Only assign trained and instructed personnel! Clearly define the responsibilities of the personnel with regard to operating, setting-up, maintaining and repairing the machine! The **GÖLZ® GmbH** can assist you in training your personnel.

Make sure that only instructed and competent personnel works on the machine. Define the responsibility of the machine operator, also in terms of traffic regulations and enable him to refuse instructions of third parties which breach safety regulations.

Personnel that is to be trained or to be instructed or that is serving a general training is only to be permitted to operate the machine under the supervision of an experienced person.

To operate the machine you must be rested, in good physical condition and mental health. If you have any condition that might be aggravated by strenuous work, check with your doctor before operating with the machine. Do not operate the machine if you are under the influence of any substance (drugs, alcohol) which might impair vision, dexterity or judgment.

Works on electrical, pneumatic, combustion and hydraulic fittings and equipment are only to be carried out by qualified personnel or instructed people being directed and supervised by qualified personnel in compliance with the respective rules!

## 2.5 Safety instructions governing specific operational phases

### Before work

Avoid any operational mode that might be prejudicial to safety!

Before beginning work, familiarize yourself with the surroundings and circumstances of the site, such as obstacles in the working and travelling area, the soil bearing capacity and any barriers separating the construction site from public roads.

Take the necessary precautions to ensure that the machine is used only when in a safe and reliable state. Operate the machine only if all protective and safety-oriented devices, such as removable safety devices, emergency shut-off equipment, sound-proofing elements and exhausters, are in place and fully functional.

Regard all safety specifications!

Check the machine at least once per working shift for obvious damage and defects. Report any changes (incl. changes in the machine's working behaviour) to the competent organization/ person immediately. If necessary, stop the machine immediately and lock it. Have any defects rectified immediately. At any time, ensure the operator has sufficient view to his working area, in order to have intervention to the working process.

Wet cutting is to be accomplished while working. This prevents the appearance of particulate matter and increases the life-time of the diamond tool. During start-up and shut-down procedures always watch the indicators in accordance with the operating instructions!

Before starting or setting the machine in motion, make sure that nobody is at risk. Keep children and unauthorized persons away from the work area.

Noise protection equipment on the unit must be in protective position during operation. Wear the required individual ear protection!

Always keep at a distance from the edges of building pits and slopes. Avoid any operation that might be a risk to machine stability! Keep the work area clean. Cluttered areas and benches invite injuries! Do not operate when you are tired! Watch what you are doing! Risk of stumbling! Cables and hoses must complete rolling up. After assembly do not leave any tools, a wrench for example, on the unit.

Check to see that the tools are removed from the machine before operating! Damaged blades have to be changed immediately. Use only recommended blades from the GÖLZ® GmbH.

Control the working area for water-, gas- and electrical lines!



**Important: Wet cutting is to be accomplished while working! This prevents the appearance of particulate matter and increases the life-time of the diamond tool!**

#### During work

Make sure, that the machine is well fastened before and while cutting!

Never touch rotating parts like blade shaft or blade!

#### After work

Before leaving the machine always secure it against unauthorized use!

## 2.6 Special work related to the maintenance and repair of the machine

Observe the adjustment, maintenance and inspection activities and intervals set out in the operating instructions, including information on the replacement of parts and equipment! These activities may be executed by skilled personnel only.

Brief operating personnel before beginning special operations or maintenance work, and appoint a person to supervise the activities.

In any work concerning the operation, conversion or adjustment of the machine and its safety-oriented devices or any work related to maintenance, inspection and repair, always observe the start-up and shut-down procedures described in the operating instructions and the information on maintenance work. Ensure that the maintenance area is adequately secured.

Carry out maintenance and repair work only if the machine is positioned on stable and level ground and has been secured against inadvertent movement and buckling. If the machine is completely shut down for maintenance and repair work, it must be secured against inadvertent starting.

To avoid the risk of accidents, individual parts and large assemblies being moved for replacement purposes should be carefully attached to lifting tackle and secured. Use only suitable and technically perfect lifting gear and suspension systems with adequate lifting capacity. Never work or stand under suspended loads.

The fastening of loads and the instructing of crane operators should be entrusted to experienced persons only. The marshaller giving the instructions must be within sight or sound of the operator.

For carrying out overhead assembly work always use specially designed or otherwise safety-oriented ladders and working platforms. Never use machine parts as a climbing aid. Wear safety harness when carrying out maintenance work at greater heights.

Clean the machine, especially connections and threaded unions, of any traces of oil, fuel or preservatives before carrying out maintenance / repair. Never use aggressive detergents. Use lint-free cleaning rags.

Before cleaning the machine with water, steam jet or detergents, cover or tape up all openings which -for safety and functional reasons - must be protected against water, steam or detergent penetration.

Do not clean the machine with a high-pressure cleaner. The hard water jet can put damage to parts of the machine. After cleaning, remove all covers and tapes applied for that purpose.

After cleaning check the machine for loose connections, chafe marks and damage! Have identified defects repaired immediately!

Always tighten any screwed connections that have been loosened during maintenance and repair.

Any safety devices removed for set-up, maintenance or repair purposes must be refitted and checked immediately upon completion of the maintenance and repair work. Ensure that all consumables and replaced parts are disposed of safely and with minimum environmental impact.

## 2.7 Information about special risks with electrical energy

Observe the relevant national regulations or standards. Electrical connections must always be kept free from dirt and moisture.

Use only original fuses with the specified rating! Switch off the machine immediately, if trouble occurs in the electric power supply!

If your machine comes into contact with a live wire:

- warn others against approaching and touching the machine
- have the live wire de-energized

When working with the machine, maintain a safe distance from overhead electric lines. If work is to be carried out close to overhead lines, the working equipment must be kept well away from them. **Caution, danger to life!**

- Check out the prescribed safety distances.
- Work on the electrical system or equipment may only be carried out by a skilled electrician himself or by specially instructed personnel under the control and supervision of such electrician and in accordance with the applicable engineering rules.
- If provided for in the regulations, the power supply to parts of machines and plants, on which inspection, maintenance and repair work is to be carried out must be cut off.
- Before starting work, check the de-energized parts for the presence of power and ground or short-circuit them in addition to insulating adjacent live parts and elements.

The electrical equipment of machines is to be inspected and checked at regular intervals. Defects such as loose connections or scorched cables must be rectified immediately.

Necessary work on live parts and elements must be carried out only in the presence of a second person who can cut off the power supply in case of danger by actuating the emergency shut-off or main power switch.

Secure the working area with a red-and white safety chain and a warning sign. Use insulated tools only.

If mobile electrical equipment, connecting cables and/or extension/ appliance cords with plug connectors are used, ensure that such equipment, cables and cords are checked for correct function at least once every six months by a qualified electrician or - if suitable testing equipment is available - by a properly instructed person.

Protective installations with fault-current protection units used in non-stationary equipment must be

checked for correct operation at least once a month by a properly instructed person.

Fault-current and fault-voltage protection units must be checked for correct operation by actuating the testing facility:

- once on every working day in the case of mobile equipment,
- at least once every six months in the case of stationary equipment.

## 2.8 Gas, dust, steam, smoke

Operate combustion engines only in well-ventilated rooms! Before starting the unit in closed rooms, make sure that the room is sufficiently ventilated and use the exhaust gas hose!

Welding, burning and grinding operations on the machine are only to be carried out if this is explicitly authorized (there is the danger of fire and explosion)!

Before welding, burning and grinding operations clean the machine and its surrounding area from dust and flammable substances and care for sufficient ventilation (danger of explosion)!

When working in confined spaces observe any existing national regulations!

## 2.9 Noise

During operation sound protection devices on the machine must be in safe position. Wear the prescribed personal ear protection! (UVV 29 § 10, Article 29 of the Accident Prevention regulations).

The use of noise emitting machines may be restricted to certain times by national or local regulations.

## 2.10 Illumination

The machine is designed for use in daylight! The machine operator / owner must ensure sufficient workplace lighting for non-illuminated work sites!

## 2.11 Oils, greases and other chemical substances

When handling hydraulic fluids, lubricants, greases or preservatives (referred to hereinafter as fuels and lubricants), the safety regulations which apply to the respective machine are to be observed!

Avoid long contact of the fuels and lubricants with your skin! Careful cleaning of the skin from adhering fuels and lubricants is necessary.

Be careful when handling hot consumables (risk of burning or scalding) particularly at liquid temperatures above 60°C, avoid any skin contact with these liquids!

If you get fuels or lubricants in your eyes, rinse them immediately and carefully with potable water. Then consult a doctor.

Remove flown out fuels and lubricants immediately! Therefore use a binder.

Fuels and lubricants must not seep into the soil or into the public sewage system! Fuels and lubricants which can no longer be used are to be collected, properly stored and to be properly disposed of.

The respective regulations and laws for handling fuels and lubricants which are valid in the country of use are to be observed and adhered to. This also applies to the disposal of such fuels and lubricants. To inform yourself turn to the responsible authorities.

## 2.12 Transport

Use only suitable means of transport and lifting gear of sufficient capacity when loading or transporting the machine! Appoint an experienced instructor for the lifting operation!

Always observe the instructions given in the operating manual when lifting the machine (use only the prescribed lifting eyes for attaching the lifting gear)!

Use only suitable transport vehicles with sufficient load capacity! Secure the load carefully. Use suitable fastening points for securing!

Before loading the machine or parts of it, secure the machine against inadvertent movement! Attach a suitable warning sign!

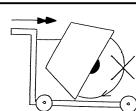
The blade must be removed for transport. Even in case of a minor change of location, the engine must be stopped!

Before using the machine again, make sure that such protection material or devices are properly removed!

Parts which had to be removed for transporting of the machine must be refitted and secured carefully before the machine is used again!

Before setting the machine in motion always check that all accessories are safely stowed.

The recommissioning procedure must be strictly in accordance with the operating instruction! Observe the instructions given in the operating instruction when reassembling and operating the machine.



**During cuts displace the machine only with non-rotating blade (not running engine)!**



**Attention: Check that all parts of the machine are well fastened before transporting. Before transporting the blade must be removed!**  
**For loading, only use lifting gear and tackle of sufficient capacity. Lift the machine using the lifting eye.**



**Injury hazard: Down coming parts!**

## 2.13 Store

Store the machine in a dry, high or locked place, out of the reach of children or unauthorized persons. Clean and preserve the machine with corrosion preventive if storing over a longer time like winter time!

**Note:** Store dismounted blades so, that the blades not exposed to mechanical damages and harmful environmental conditions (UV radiation, temperature, humidity, etc.).



**Attention: Store blades just standing or hanging!**

## 3. Preparing for Operation

### 3.1 Export checking

Remove the transport packaging and dispose of it in an environmentally responsible way. Check the machine for completeness and intactness. For the scope of delivery, see "Scope of delivery and provided accessory".

Secure the machine against accidental start-up and rolling away.



**Attention: Read and observe all operating instructions which are relevant for the machine (floor saw, engine ...!)**

The machine is supplied with engine oil but without fuel.



**Attention: Before starting up, check the engine oil level and fill up the fuel!**

### 3.2 Installation

Place the machine on an even, firm and stable ground.

Have the working area well lightened. Keep the working area clean, cluttered areas invite injuries. Operating the machine on enclosed premises, make sure that there is sufficient ventilation. Observe the regulations in force at the respective site.



**Note: If the oil level is too low, fill up the engine according to the operating manual of the engine manufacturer! Fill up the fuel for the engine according to the operating manual of the engine manufacturer!**

### 3.3 Blade

The cutting discs must meet the specification of **GÖLZ® GmbH**. Use the corresponding cutting discs depending on the material to be processed, the machining process and the type of work to be performed! When not used properly, no liability is assumed for damages resulting therefrom.

All used cutting discs must be designed, regarding their maximum admissible cutting speed, for the max. drive speed of the machine. For machines with variable drive speed, use cutting discs which, regarding their maximum admissible cutting speed, correspond to the respective maximum drive speed of the machine. Never use faulty or damaged blades. Check the correct rotation of the blade to the spindle shaft!

Check the blade is well fastened before beginning to operate. Defective cutting discs must be replaced immediately!

Cut off the engine or disconnect the power supply before mounting or changing blade. After mounting, do not leave any tools, such as open-end spanners, on the machine.

Use only blades suitable to the blade acceptance (arbor hole, flanges).



**Danger: Faulty or damaged blades can cause injuries to the operator and other persons!**



**Information: Wrong rotation of the blade will result in more wear of the blade!**



**Danger: Wrong rotation of the blade may result in segments cracking off and can cause injuries to the operator or other persons!**

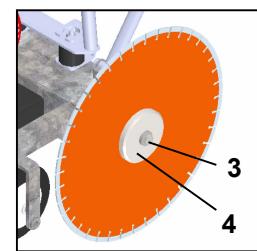
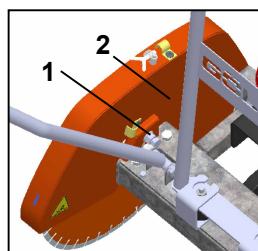
#### 3.3.1 Mounting the blade

Blade mounting:

- Mount the blade to the manufacturer's odds (Observe the min. flange-Ø; use only original screws or nuts).
- Use only blade diameters which are allowed by the manufacturer.



**Information: Clean all fastening devices of the blade (flanges, thread of the blade shaft, screws and nuts) before mounting the blade!**



To dismantle the blade:

- Loose the screw on the back side of blade guard with wrench SW17. (1)
- Remove the blade guard (2) and unscrew the left-hand threaded locking screw (3) and remove the outer clamping flange SW30 / SW32 (4).
- All clamping surfaces must be clean and undamaged.

To mount the blade:

- Fit the cutting blade. Pay attention to the correct direction of rotation. Observe the direction of rotation arrows on the cutting blade and blade guard (2).
- Mount the outer clamping flange (4) again;
- Secure the blade and outer flange with fixing screw (3).
- Fit the blade guard (2) again and secure it with screws (1).



**Danger: It is not allowed to operate the machine without cutting disc blade guard!**

### 3.4 Water supply



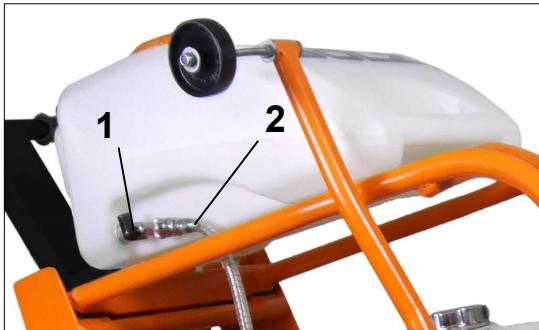
**Important: The operation is to be carried out in wet cutting, in order to prevent the occurrence of harmful particulate matter and to increase the lifetime of the cutting tool.**

	<b>Attention: Tools which are only designed for wet cutting technique, must never be used without water supply! Always make sure that there is enough water supply!</b>
---	---

The supply of water at the cut ensures that the tool is cooled, the dust of the material is bound and the cut is rinsed out.

	<b>Attention: Use only water for cutting which is free from coarse impurities! Do not use salt water!</b>
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	<b>Danger: Do not use the attached water tank when cutting with wet cutting diamond blades. The segments may crack off and cause injuries to the operator or bystanders!</b>
---	--



#### Cutting with wet-cutting blades:

Connect the detachable water hose (2) with an external water supply. Check the ball valve (1) is closed (ball valve lever in 90°-position to the water flow).

For cutting open the ball valve (1) (ball valve lever in the water flow position).

#### Cutting with dry-cutting blades:

Fill the water tank with clean water. Check the ball valve (1) is closed (ball valve lever in 90°-position to the water flow).

For cutting open the ball valve (1) (ball valve lever in the water flow position).

## 4. Operation



	<b>Information: Unconditional observe the owner's manual of the engine manufacturer!</b>
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	<b>Danger: Never touch rotating parts like blade shaft or blade while operating!</b>
---	--

### 4.1 Before starting the machine

Check the machine for safe operating condition.

- All components must be properly mounted.
- The functions of the combustion engine must function properly.
- Do not make any changes on operating elements and safety devices.

The machine may only be operated in safe operating condition.

Lock the push bars so that the machine can be operated in a favorable posture.

If work is carried out where harmful or explosive substances, such as dust, sludge occur, observe the applicable national regulations.

If there is a risk that, during the cutting process, material particles are accelerated outwards, wear safety goggles.

	<b>Danger: Demolition parts can cause injuries to the operator while cutting!</b>
---	---

When travelling on public roads, ways and places always observe the valid traffic regulations and, if necessary, make sure beforehand that the machine is in a condition compatible with these regulations.

After operating secure the machine against unintentional moving.

	<b>Danger: The sound pressure may exceed 85 dB(A)!</b>
---	--

Appropriate to the application of the machine it could be necessary to wear further protective equipment.

	<b>Danger: Down coming parts at the building site can cause injuries to the operator!</b>
---	---

The working area is reserved only for the operator. Keep unauthorized persons out of the working area. Make sure the operator always has well sight to the working area. He always has to intervene in the working process. Never operate the machine without mounted safety devices.

Careless handling can lead to life-threatening injuries caused by the rotating cutting disc. Only operate the machine with fully mounted blade guard.

Nobody is allowed to remain in the working area nor in the area where falling segments of the cutting disc can be accelerated outwards (minimum safety distance 10m). If this safety distance cannot be respected, the danger zone must be closed or be marked by warning signs.

Care for the whereabouts of cooling and rinsing water as well as of cutting sludge.

Cutting sludge must be collected, filtered and disposed of.

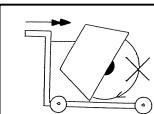


1. Foot pedal - raising and lowering
2. Depth control

## 4.2 Starting the machine



**Danger: As soon as the combustion engine is started, the cutting shaft, respectively the cutting disc, starts rotating too!**



**During cuts displace the machine only with non-rotating blade (not running engine)!**



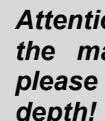
Completely raise the machine until the brake engages (blade may have no ground contact). Engine switch is in ON position (1).

Emergency switch is unlock (2). Start the engine as described in the engines manual (3).

## 4.3 Cutting operation



**Danger: Operating with too high feed the machine might rise out of cut! In emergency situations cut off the engine as described in the engines manual!**



**Attention: In order to avoid damage to the machine and the cutting disc, please observe the maximum cutting depth!**



**Note: Do not lower the cutting disc forcibly, this could lead to damage to the cutting disc and to the machine.**

## 4.4 Stop cutting operation

After cutting completely raise the machine and cut off the engine by ON-OFF switch (1) or Emergency switch (2) as described in the engines manual.



**Danger: Some parts of the combustion engine become very hot during operation, risk of burns!**

## 4.5 Changing the blade

The blade must be changed if:

- the diamond segments of the blade are completely worn
- the material to be cut changes
- the blade turns irregularly
- the diamond segments are damaged or broken

For fitting a new blade, proceed as described in the chapter "Mounting the blade".

## 5. Maintenance

### 5.1 General

	<b>Information: Unconditional observe the owner's manual of the engine manufacturer, which is added!</b>
	<b>Information: Clean the machine after every operation. Observe local environmental regulations!</b>
	<b>Attention: When handling oil, grease and other chemical substances, observe the product-related safety regulations!</b>

For maintenance jobs the machine has to be shut down. For maintenance jobs which must be done while the machine is running, the blade has to be dismounted before beginning the job.

In accordance to the given cycles, the subsequently described maintenance work has to be enforced. Also the wearing part subject to no certain maintenance-intervals has to be checked regularly for wear and to adjust if necessary or to exchange. With I.C. engines, the maintenance work has to be enforced in accordance with the separate maintenance-instruction of the engine manufacturer.

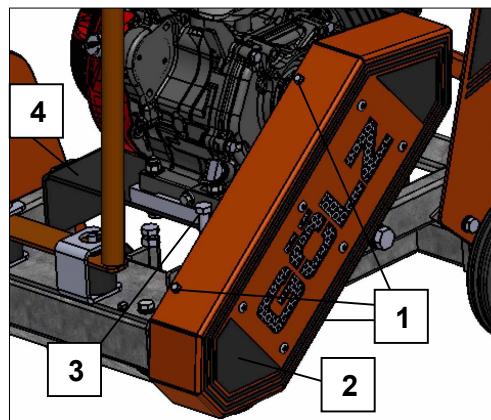
		Before starting work	After work	Weekly	Yearly	In the event of a malfunction	If damaged
Complete machine	Visual inspection (condition, absence of leaks)	X				X	X
	clean		X				
Flange and blade holder	clean			X			

Poly-V belt	check	X	X	X	X
	replace		X		
		Before starting work	After work	Weekly	Yearly
				In the event of a malfunction	If damaged
Water nozzle and feeding hoses	clean		X		
Tools	check	X			X
	clean		X		
	replace				X

### 5.2 Lubricating chart

Grease the blade shaft bearings after 20 working hours with heat resistance fat. From time to time clean the foot pedal, pointer unit and wheels and grease them with some drops of oil.

### 5.3 V belt



Screws (1) solve, remove the front belt guard (2). Loosen screw (3) and swivelled the pivoted motor base (4) forwards. The V-belts are now stressless and can be exchanged. To tighten the V-belts swivel the pivoted motor base (4) back and tighten the screw (3) again. Replace the front belt guard (2) and tighten with the screw (1).

### 5.4 Machine

Clean the machine after each duty and check all functions. Replace all necessary parts that are out of order or worn out immediately.

## 5.5 Blade

**When ending a cutting job - check blade as follows:**  
**Check segments for cracks or break-outs, Cracks between segment and core barrel, Deformation and out of round wear.**  
 In case of doubt, send the blade for repair.

## 6. Taper bushes installation instructions

### 6.1 To assemble

Clean and de-grease the bore and taper surfaces of the bush and the tapered bore of the pulley. Insert the bush in the pulley hub and line up the holes (half thread holes must line up with half straight holes).

Lightly oil the grub screws or the cap screws and screw them in, do not tighten yet.

Clean and de-grease the shaft. Fit pulley with taper bush on shaft and locate in desired position.

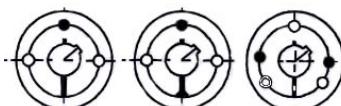
When using a key it should first be fitted in the shaft Keyway. There should be a top clearance between the key and the keyway in the bore.

Using a hexagon socket wrench gradually tighten the grub/cap screws in accordance with the torques as listed in the schedule of screw tightening torques. When the drive has been operating under load for a short period (half to one hour) check and ensure that the screws remain at the appropriate tightening torque. In order to eliminate the ingress of dirt fill all empty holes with grease.

### 6.2 Removal

Slacken all screws. Depending on the size of the bush remove one or two. After oiling point and thread of grub screws or under head and thread of cap screws, insert them into the jacking off hole(s) in bush.

Tighten screw (s) uniformly and alter neatly until the bush is loose in the hub and pulley is free on the shaft. Remove pulley bush assembly from shaft.



Bush	Screw tightening torques (Nm)	Screw	
		Quantity	Size
1008	5.6	2	1/4" BSW
1108			

1310 1315	20	2	3/8" BSW
Bush	Screw tightening torques (Nm)	Screw	
		Quantity	Size
1210	20	2	3/8" BSW
1215			
1610	20	2	3/8" BSW
1615			
2012	31	2	7/16" BSW
2517	48	2	1/2" BSW
3020	90	2	5/8" BSW
3030			
3535	112	3	1/2" BSW
4040	170	3	5/8" BSW
4545	192	3	3/4" BSW
5050	271	3	7/8" BSW

## 7. Troubleshooting



**Attention: In the event of changes in the behaviour of the machine during operation, stop the machine immediately and report the malfunction to the competent authority/person!**

Problem	Cause	Remedy
<b>Engine</b>		
Engine does not start!	Fuel tank empty	Fill up
	Dirty fuel lines	Clean
Bad engine performance!	Dirty air cleaner	Clean
	 <b>Note: For more fault finding refer the operating instruction of the engine manufacturer which is enclosed!</b>	

<b>Lowering</b>		
Machine lowers without actuating the foot pedal!	Faulty gas pressure spring	Replace
Machine does not fully lower!	Undercarriage or gas pressure spring tight	Check undercarriage and gas pressure spring

Problem	Cause	Remedy
<b>Lowering</b>		
<b>Machine lowers without actuating the foot pedal!</b>	Faulty gas pressure spring	Replace
<b>Machine does not fully lower!</b>	Undercarriage or gas pressure spring tight	Check undercarriage and gas pressure spring
<b>Cutting</b>		
<b>Machine rises out of cut!</b>	Dull diamond blade	Sharpen or use softer diamond blade
	Faulty gas pressure spring	Replace
	Feed too high	Reduce feed
<b>Non circular abrasion of the diamond blade!</b>	Damaged centring of the blade shaft	Replace blade shaft
	Warped blade shaft	Replace
	Loose or damaged blade shaft bearings	Tighten or replace
<b>Diamond blade jams in the cut!</b>	No free cut because of side-wards wear-out of segments	Replace diamond blade
	Damaged diamond blade core	Replace diamond blade
<b>Abnormal wear-out of segments!</b>	Insufficient water flow	Check hoses for fracture free laying
	Wrong type of diamond blade	Choose different diamond blade
	Feed too high	Reduce feed
	Cutting in loose underground	Reduce cutting depth
<b>Abnormal blade wear out at sides of core!</b>	Insufficient water flow	Check hoses for fracture free laying
	Cutting in loose underground	Reduce cutting depth
<b>Bad cutting performance!</b>	Slippy V-belts	Adjust
	Blunt diamond blade	Sharpen or use softer diamond blade

## 8. Spare parts list

### 8.1 Using the spare parts list

	The spare parts list is not a mounting or dismounting instruction. The only purpose of the spare parts list is to easily and quickly find spare parts which can be ordered with distribution agencies, see chapter 8.1.3 "Distribution agencies".
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#### 8.1.1 Safety regulation

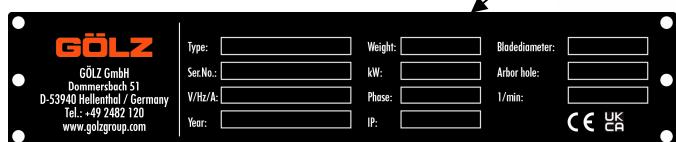
	 <b><i>Danger: Mounting or dismounting assembly groups can give rise to risks which are not mentioned in the spare parts list!</i></b>
	Using this spare parts list for mounting or dismounting purposes is not permitted. For assembly and disassembly work exclusively the corresponding descriptions in this operating manual are to be followed.
	 <b><i>Danger: Non-observance of this instruction can result in injury which, in the worst case, can result in death!</i></b>

#### 8.1.2 Distribution agencies

<b>Deutschland - Germany - Allemagne - Duitsland</b> GÖLZ® GmbH Dommersbach 51 DE-53940 Hellenthal Tel: +49 (0)2482-12 200 Fax: +49 (0)2482-12 222 E-Mail: <a href="mailto:info@gelz.de">info@gelz.de</a> / Internet: <a href="http://www.gelz.de">www.gelz.de</a>	
<b>Österreich - Austria - Autriche - Oostenrijk</b> GÖLZ® Ges.m.b.H Samstraße 52 A-5020 Salzburg Tel: +43 (0) 662 - 43 81 75 Fax: +43 (0) 662 - 43 07 34 E-Mail: <a href="mailto:info@gelz.at">info@gelz.at</a> / Internet: <a href="http://www.gelz.at">www.gelz.at</a>	<b>Frankreich - France - France - Frankrijk</b> GÖLZ® S.A.S. 1, rue de la Mairie F-67370 Berstett Tel: +33 (0)3.88.59.43.00 Fax: +33 (0)3.88.59.47.77 E-Mail: <a href="mailto:info@golz.fr">info@golz.fr</a> / Internet: <a href="http://www.golz.fr">www.golz.fr</a>
<b>Großbritannien - Great Britain - Grande-Bretagne - Groot-Brittannië</b> GÖLZ® (UK) Ltd. Unit A5, Springhead, Enterprise Park Northfleet Kent DA11 8HB Tel: +44 1 474321679 Fax: +44 1 474321477 E-Mail: <a href="mailto:info@gelz.co.uk">info@gelz.co.uk</a> / Internet: <a href="http://www.gelz.co.uk">www.gelz.co.uk</a>	<b>Benelux</b> GÖLZ® Benelux Eupener Straße 61 BE-4731 Raeren-Eynatten Tel: +49 (0)2482-12 200 Fax: +49 (0)2482-12 222 E-Mail: <a href="mailto:benelux@gelz.de">benelux@gelz.de</a> / Internet: <a href="http://www.gelz-online.com">www.gelz-online.com</a>
<b>Australien - Australia - Australie - Australië</b> GOLZ® Pty Ltd. 44 Stanley Street Peakhurst, NSW 2210 Tel: +61 (0) 2 9534 5599 Fax: +61 (0) 2 9534 5588 E-mail: <a href="mailto:info@golz.com.au">info@golz.com.au</a> / Internet: <a href="http://www.golz.com.au">www.golz.com.au</a>	<b>USA</b> GOLZ® L.L.C. 5860 East Osage Ridge Lane Columbia MO 65203-6018 Tel: +1 573 474 4961 E-Mail: <a href="mailto:info@golzusa.com">info@golzusa.com</a> / Internet: <a href="http://www.gelz-online.com">www.gelz-online.com</a>

## 8.1.3 Ordering information

		<p><b>Note: In order to avoid wrong deliveries the information the ordering information should be checked for accuracy and completeness before sending it! Completely indicate the delivery address!</b></p>
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<b>Always indicate</b>
<ul style="list-style-type: none"><li>• machine type according to nameplate</li><li>• year of manufacture according to nameplate</li><li>• order number according to spare part list</li><li>• serial number according to nameplate</li></ul>
For orders, questions and information, please contact the competent departments.

## 8.2 Wearing parts

### **Wearing parts for construction devices mentioned in the operating manual such as drilling and sawing machines.**

Wearing parts are the parts subject to operation-related (natural) wear during proper use of the device. The wearing time cannot be uniformly defined, and differs according to the intensity of use. The wearing parts must be adjusted, maintained and, if necessary, replaced for the specific device in accordance with the manufacturer's operating manual. Operation-related wear is not a reason for defect claims.

#### **Wearing parts of this machine:**

- Feed and drive elements such as toothed racks, gearwheels, pinions, spindles, spindle nuts, spindle bearings, cables, chains, sprockets, belts
- Seals, cables, hoses, packings, connectors, couplings and switches for pneumatic, hydraulic, water, electrical and fuel systems
- Guide elements such as guide strips, guide bushes, guide rails, rollers, bearings, sliding protection supports
- Clamping elements for quick-separating systems
- Flushing head seals
- Slide and roller bearings that do not run in an oil bath
- Shaft oil seals and sealing elements
- Friction and safety clutches, braking devices
- Carbon brushes, commutators / armatures
- Easy-release rings
- Control potentiometers and manual switching elements
- Securing elements such as plugs, anchors, screws and bolts
- Fuses and lamps
- Auxiliary and operating materials
- Bowden cables
- Discs
- Diaphragms
- Spark plugs, glow plugs
- Parts of the reversing starter such as the starting rope, starting pawl, starting roller and starting spring
- Sealing brushes, rubber seals, splash protection cloths
- Filters of all kinds
- Drive rollers, deflection rollers and bandages
- Cable anti-twist elements
- Running and drive wheels
- Water pumps
- Cut-material transport rollers
- Drilling, parting and cutting tools
- Energy storage