

- DE** Original-Bedienungsanleitung und Ersatzteilliste
Fugenschneider
- GB** Original operating instruction and spare parts list
Floor saw
- FR** Originale du mode d'emploi et liste des pièces de rechange
Scie de sol
- NL** Origineel Gebruiksaanwijzing en Reservedelenlijst
Vloerzaagmachine



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Die Firma	Manufacturer	La Société	De Firma
GÖLZ® GmbH Dommersbach 51, D-53940 Hellenthal Tel.: +49 (0) 2482 12 200 / Fax: +49 (0) 2482 12 222			
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:	Konform de bepalingen van de machinerichtlijn verklaart hiermede dat onderstaande machine:
FS175 Fugenschneider Floor saw Scie de sol Vloerenzaagmachine			
Seriennummer / Serial number / Numéro de série / Seriennummer: _____			
auf das sich diese Erklärung bezieht, mit folgenden Richtlinien übereinstimmt:	which is explicitly referred to by this declaration meet the following directives:	Qui fait l'objet de la présente déclaration correspond aux directives suivantes:	Voldoet aan de bepalingen van de machinerichtlijn:
2006/42/EG Sicherheits- und Gesundheitsanforderung 2014/30/EU Elektro-Magnetische Verträglichkeit 97/68/EG i.d.F. 2002/88/EG Abgasrichtlinie 2000/14/EG Geräuschemission	2006/42/EG Safety and health requirement 2014/30/EU Electromagnetic compatibility 97/68/EG i.d.F. 2002/88/EG Exhaust emission directive 2000/14/EG Noise emission	2006/42/EG Prescriptions sanitaire et sécurité 2014/30/EU Compatibilité électromagnétique 97/68/EG i.d.F. 2002/88/EG Directive de gaz résiduel 2000/14/EG Émission de bruit	2006/42/EG Zekerheids- en gezondheidsvoorschriften 2014/30/EU Electromagnetische compatibiliteit 97/68/EG i.d.F. 2002/88/EG Betreffende de uitstootgassen 2000/14/EG Geluidsemisies
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DIN EN ISO 12100 DIN EN 13862:2010-03 DIN EN 13309:2010-12, DIN EN 61000, DIN EN ISO 3744 Die oben genannte Firma hält Dokumentation als Nachweis der Erfüllung der Sicherheitsziele und die wesentlichen Schutzanforderungen zur Einsicht bereit.	DIN EN ISO 12100 DIN EN 13862:2010-03 DIN EN 13309:2010-12, DIN EN 61000, DIN EN ISO 3744 Documented evidence conforming to the requirements of the directives is kept available for inspection at the above manufacturer's address.	DIN EN ISO 12100 DIN EN 13862:2010-03 DIN EN 13309:2010-12, DIN EN 61000, DIN EN ISO 3744 Pour faire foi de la conformité et du respect des règles de sécurité, la documentation peut être consultée au siège de la Société susmentionnée.	DIN EN ISO 12100 DIN EN 13862:2010-03 DIN EN 13309:2010-12, DIN EN 61000, DIN EN ISO 3744 Voormelde firma bewaart documentatie ter inzage als bewijs van de naleving van de veiligheidsregels en de wezenlijke beschermings-eisen.
Hellenthal, den 20.07.2016		Geschäftsführer / General Manager / Président-directeur général / Zaakvoerder B. Schmitz	



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Wear dust protection!



Wear ear muffs!



Never touch!



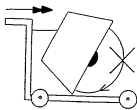
Important advice!



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!

1. Machine description

1.1 Intended use-description

The FS 175 is a floor saw with a cutting depth of up to 165 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 175 is equipped with a petrol engine Honda GX390 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

Max. cutting depth	165 mm - 6.5 in.
Max. blade-Ø	450 mm - 17.7 in.
Flange size	Ø 100 mm - 3.9 in.
Blade shaft size	25,4 mm - 1 in.
Engine	Petrol engine Robin/Subaru or Honda
Max. cutting speed with blade	55 m/s
Engine shaft speed	3600 rpm

Blade shaft speed	2300 rpm
Feed	manual
Cutting depth control	Manual with hand wheel
Cutting depth gauge	Scale on frame
Water supply	30l Water tank for dry cutting blades
V-belt tension	manual
Dimensions (L x W x H)	approx. 1200x560x1100 mm - 47.2x22x43.3 in.
Weight (without water tank and blade)	approx. 127 kg - 279.4 lbs.
Sound power level after DIN ISO 6393	No load =104 dB(A) Full load =114 dB(A)
Sound pressure level after DIN ISO 6393	No load =88 dB(A) Full load =98 dB(A)
Vibration ISO 5349 VDMA 03/2006	a = 4,5 m/s ²

1.3 Shipment and provided accessory

- Floor saw FS175 without blade
- Wrench SW 13,17, 30, 32
- Operating instruction and spare parts list floor saw
- Operating instruction engine

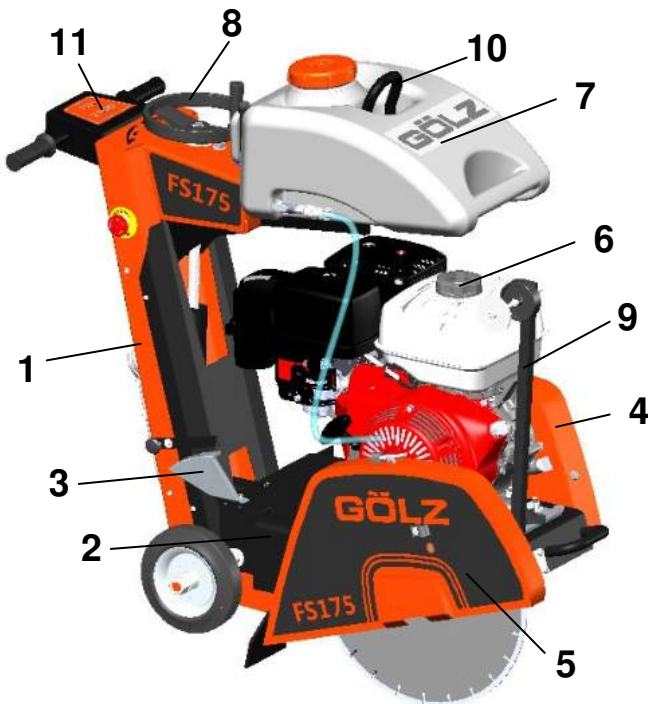
For the item number of accessories, please refer to the current catalogue of **GÖLZ**[®]

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. & 2. Frame
3. Cutting depth indicator
4. Poly-V belt guard
5. Blade guard
6. Engine
7. Water tank 30l
8. Hand Wheel
9. Pointer unit
10. Lifting eye
11. Push bow



The base frame (1+2) is the basis for the floor saw. All other components are built on the base frame.

By means of the convenient cutting depth setting (3), the operator can read, at any time, the cutting depth.

The rib drive is protected by a poly-V belt guard (4). 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 blade guard (5) provides the operator and the persons in his working area with optimum protection during the cutting process.

The floor saw FS 175 is equipped with a petrol engine Robin/Subaru of Honda (6). For any other information, please refer to the attached operating manual of the engine manufacturer.

In order to allow dust formation during cutting respectively cooling of the cutter blade, the floor saw is equipped with a pluggable water tank (7). There is also the possibility to cool directly by means of the water supply network respectively to bind the dust.

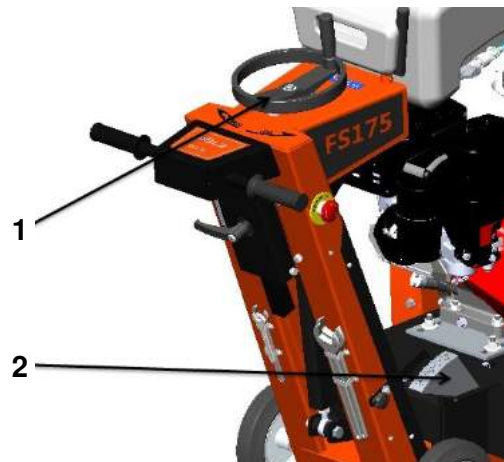
Controlling the blade depth is by using by the hand wheel (8) which is connected with a trapezoidal spindle.

The route indicator (9) allows precise cuts.

Thanks to the direction indicator the operator can monitor and respect the cutting direction.

With suitable lifting gear can be the floor saw on the attached lifting eye (10) lifted to facilitate transport. The height adjustable push bar (11) allows for non-fatiguing working.

1.5 Operating elements



1. Hand wheel - 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.

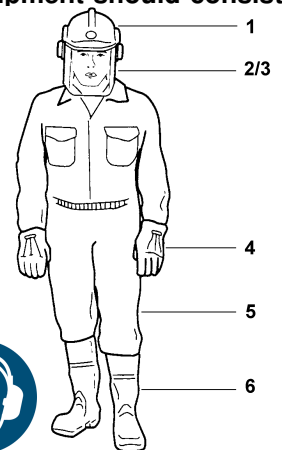
Check - at least from time to time - whether the personnel is carrying out the work in compliance with the operating manual and paying attention to risks and safety-relevant factors.

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.



	<p>Attention: Check that all parts of the machine are well fastened before transporting. Before transporting the blade must be removed!</p> <p>For loading, only use lifting gear and tackle of sufficient capacity. Lift the machine using the lifting eye.</p>
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	<p>During cuts displace the machine only with non-rotating blade (not running engine)!</p>
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	<p>Injury hazard: Down coming parts!</p>
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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 dismantled blades so, that the blades not exposed to mechanical damages and harmful environmental conditions (UV radiation, temperature, humidity, etc.).

	<p>Attention: Store blades just standing or hanging!</p>
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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.

	<p>Attention: Read and observe all operating instructions which are relevant for the machine (floor saw, engine ...)! </p>
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The machine is not supplied with engine oil.

	<p>Attention: Before starting up, check the engine oil level and fill up the fuel!</p>
--	---

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.

	<p>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!</p>
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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).

	<p>Danger: Faulty or damaged blades can cause injuries to the operator and other persons!</p>
--	--

	<p>Information: Wrong rotation of the blade will result in more wear of the blade!</p>
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	<p>Danger: Wrong rotation of the blade may result in segments cracking off and can cause injuries to the operator or other persons!</p>
--	--

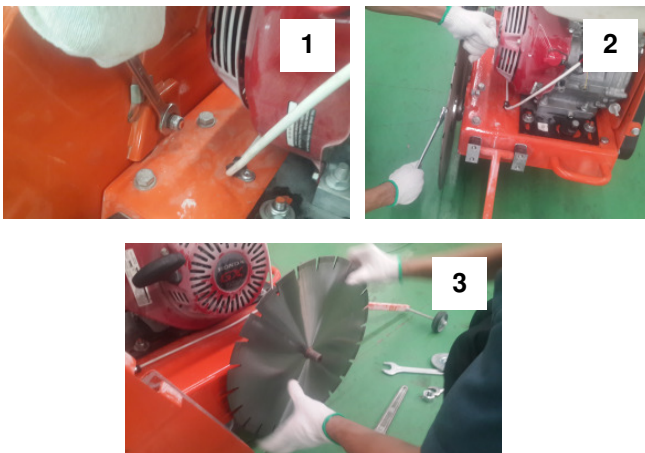
3.3.1 Mounting the blade

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.

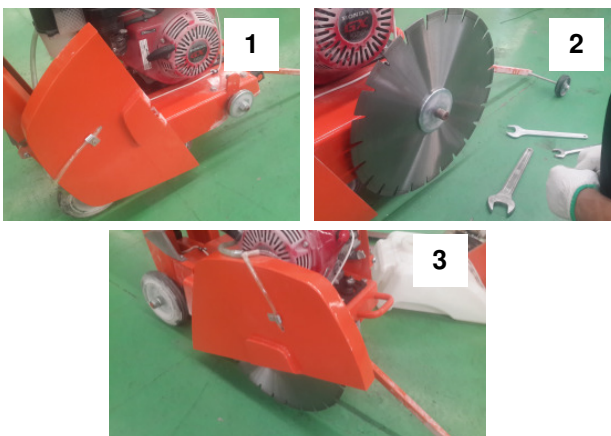


Information: Clean all fastening devices of the blade (flanges, thread of the blade shaft, screws and nuts) before mounting the blade!



To dismantle the blade:

- Loose the screw on the back side of blade guard with wrench SW17. (1)
- Remove the blade guard and unscrew the left-hand threaded locking nut and remove the outer clamping flange SW30/SW32. (2-3)
- 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. (1-2)
- Mount the outer clamping flange again; (2)

- Secure the blade and outer flange with fixing nut SW30/SW32.
- Fit the blade guard again and secure it with screws.(3)



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.



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!

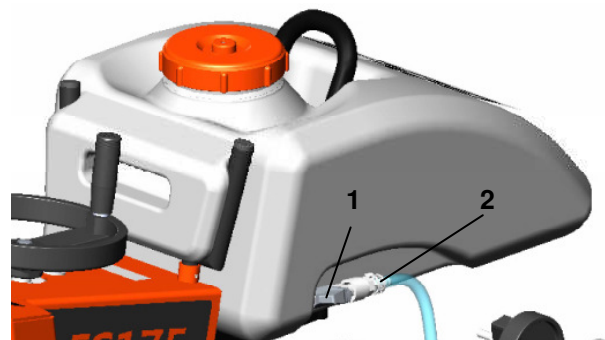
The supply of water at the cut ensures that the tool is cooled, the dust of the material is bound and the cut is rinsed out.



Attention: Use only water for cutting which is free from coarse impurities! Do not use salt water!



Danger: Do not run out of water in the water tank when cutting with wet cutting diamond blades. The segments may crack off and cause injuries to the operator or bystanders!



Cutting with wet-cutting blades:

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

For cutting open the ball valve (2) (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



Information: Unconditional observe the owner's manual of the engine manufacturer!

Danger: Never touch rotating parts like blade shaft or blade while operating!

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.

Danger: Demolition parts can cause injuries to the operator while cutting!

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.



Danger: The sound pressure may exceed 85 dB(A)!

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



Danger: Down coming parts at the building site can cause injuries to the operator!

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.

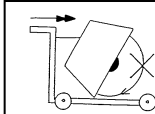
Care for the whereabouts of cooling and rinsing water as well as of cutting sludge.

Cutting sludge must be collected, filtered and disposed of.

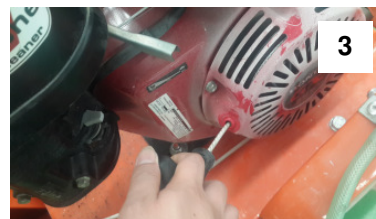
4.2 Starting the machine



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

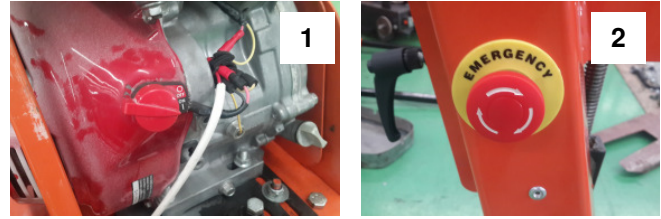


During cuts displace the machine only with non-rotating blade (not running engine)!



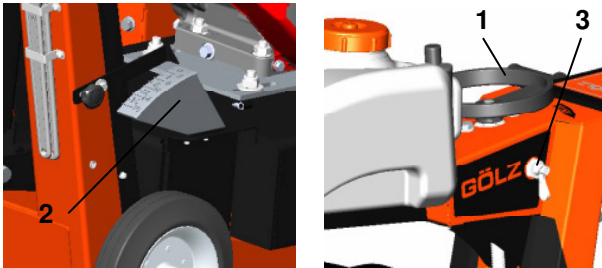
Completely raise the machine until the brake engages (blade may have no ground contact). Engine switch is in ON position (1).

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



4.3 Cutting operation

	Danger: <i>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!</i>
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Connect the water supply and slowly lower the machine with the hand wheel (1) till the blade has ground contact. Putting down the machine to the desired cutting depth which is displaying on the cutting depth indicator (2).

Before you lower the machine by means of the hand wheel (1), the mini ball valve is to be opened. Lower the machine to such extent that you reach the desired cutting depth (2).

Pull then the indexing plunger (3) on the control panel, so that it snaps into the catch disk in order to fix the desired cutting depth.

Work with even feed pressure. Too high feed pressure leads to overload of the engine, there is a risk that the machine raises. Too low feed pressure polishes the segments and they become blunt.

	Attention: <i>In order to avoid damage to the machine and the cutting disc, please observe the maximum cutting depth!</i>
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	Note: <i>Do not lower the cutting disc forcibly, this could lead to damage to the cutting disc and to the machine.</i>
--	---

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: <i>Some parts of the combustion engine become very hot during operation, risk of burns!</i>
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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

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

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 dismantled 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		
Water nozzle and feeding hoses	clean		X				
Tools	check	X				X	
	clean		X				
	replace						X

5.2 Lubricating chart

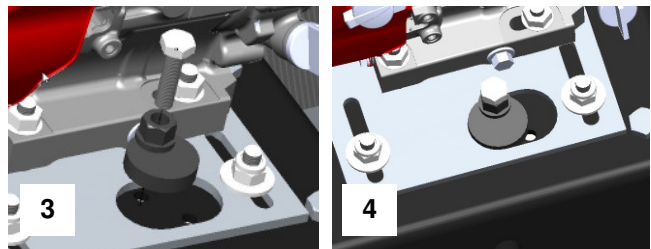
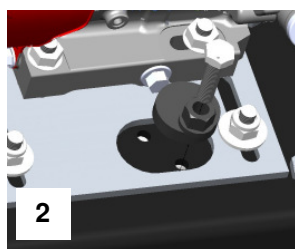
Grease the blade shaft bearings after 20 working hours with heat resistance fat. From time to time clean the foot pedal, pointer unit and wheels and grease them with some drops of oil.

5.3 Poly-V belt

Unscrew the screws that fix the motor (4x M10x30, DIN EN ISO 4017) and the screw that fixes the eccentric.

Move the motor forwards by turning the eccentric counter clockwise. In this position the poly-V belt can be replaced easily.

Stress the poly-V belt by turning eccentric clockwise. To fix the motor, screw down the M10x30 screws.



In the case when the eccentric is moved to its farthest position while the belt is still not stressed, remove the eccentric; assemble it in another hole on upper chassis, then start to adjust the belt stress again (1,2,3,4).

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, break-outs, cracks between segment, 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.

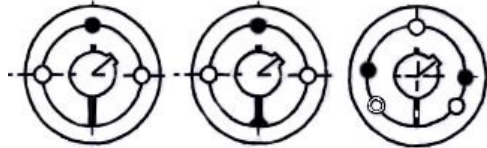
When the drive has been operating under load for a short period (half to one hour) check and ensure that the screws remain at the appropriate tightening torque.

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 1108	5.6	2	1/4" BSW
1310 1315	20	2	3/8" BSW
1210 1215	20	2	3/8" BSW
1610 1615	20	2	3/8" BSW
2012	31	2	7/16" BSW
2517	48	2	1/2" BSW
3020 3030	90	2	5/8" BSW
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
Engine		
Engine does not start!	Fuel tank empty	Fill up
	Dirty fuel lines	Clean

Problem	Cause	Remedy
Engine		
Bad engine performance!	Dirty air cleaner	Clean
 Note: For more fault finding refer the operating instruction of the engine manufacturer which is enclosed!		
Lowering		
Machine lowers without actuating the foot pedal!	NOT APPLICABLE	
Machine does not fully lower!	NOT APPLICABLE	
Cutting		
Machine rises out of cut!	Dull diamond blade	Sharpen or use softer diamond blade
	Faulty gas pressure spring	Replace
	Feed too high	Reduce feed
Non circular abrasion of the diamond blade!	Damaged centring of the blade shaft	Replace blade shaft
	Warped blade shaft	Replace
	Loose or damaged blade shaft bearings	Tighten or replace
Diamond blade jams in the cut!	No free cut because of side-wards wear-out of segments	Replace diamond blade
	Damaged diamond blade core	Replace diamond blade
Abnormal wear-out of segments!	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
Abnormal blade wear out at sides of core!	Insufficient water flow	Check hoses for fracture free laying
	Cutting in loose underground	Reduce cutting depth
Bad cutting performance!	Slippy V-belts	Adjust
	Blunt diamond blade	Sharpen or use softer diamond blade