

Drill rig SD300



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**EG-KONFORMITÄTSERKLÄRUNG****EC-DECLARATION OF CONFORMITY****DECLARATION DE CONFORMITE DE LA CE****Die Firma****Manufacturer****La Société****GÖLZ® GmbH**

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that the following product:Déclare sous sa seule responsabilité que
le produit suivant:**SD300**

Kernbohrständer

SD300

Drill rig

SD300

Foreuse carotteuse

Seriennummer / Serial number / Numéro de série: _____

Auf das sich diese Erklärung bezieht, mit
folgenden Richtlinien bzw. Normen über-
einstimmt:Which is explicitly referred to by this de-
claration meet the following directives
and standard(s):Qui fait l'objet de la présente déclaration
correspond aux directives et normes
suivantes:Maschinenrichtlinie 2006/42/EG
Sicherheits- und Gesundheitsanforder-
ungDirective 2006/42/EC
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Prescriptions sanitaire et sécuritéEMV-Richtlinie 2014/30/EU
Elektromagnetische VerträglichkeitDirective 2014/30/EU
Electromagnetic compatibilityDirective 2014/30/EU
Compatibilité électromagnétiqueEuropäische Normen
EN 12348:2000
EN 13309:2000
EN 61000European Standard
EN 12348:2000
EN 13309:2000
EN 61000Norme européenne
EN 12348:2000
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EN 61000Die oben genannte Firma hält Doku-
mentationen als Nachweis der Erfüllung
der Sicherheitsziele und die wesent-
lichen Schutzanforderungen zur Einsicht
bereit.Documented evidence conforming with
the requirements of the Directive is kept
available for inspection at the above
Manufacturer's, address.Pour faire foi de la conformité et du res-
pect des règles de sécurité, la docu-
mentation peut être consultée au siège
de la Société susmentionnée......
Geschäftsführer / General Manager /
Président-directeur général

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Preface

This operating manual is designed to familiarize the user with drill rig, hereinafter referred to as the machine, and to use its intended applications.

The operating manual 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 the life of the machine.

This operating manual is to be supplemented by the respective national rules and regulations for accident prevention and environmental protection.

The operating manual must always be available wherever the machine is in use.

It is to 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, elimination of manufacturing waste, care and disposal of fuels and consumables.
- **Servicing** (maintenance, inspection, repair) and/or
- **Transport**

In addition to the operating manual and to the mandatory rules and regulations for accident prevention of the country and place of use of the machine, the recognized technical rules for safe and proper working conditions and procedures are also to 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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1. General description

Warning advice and Symbols



Wear safety glasses!



Wear ear muffs!



Wear hard hat!



Wear dust protection!



Wear safety boots!



Read owner's manual before first initiation!



Wear protective gloves!



Wear safety clothes!



Never touch!



Important advice!



General danger!



Danger exists to cut oneself!



Electrical Hazard!

1.1 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 drilling in concrete, reinforced concrete, natural stone, cast stone and brickwork. Using the machine for purposes other than mentioned above (such as drilling 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.

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!

1.2 Organizational measures

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

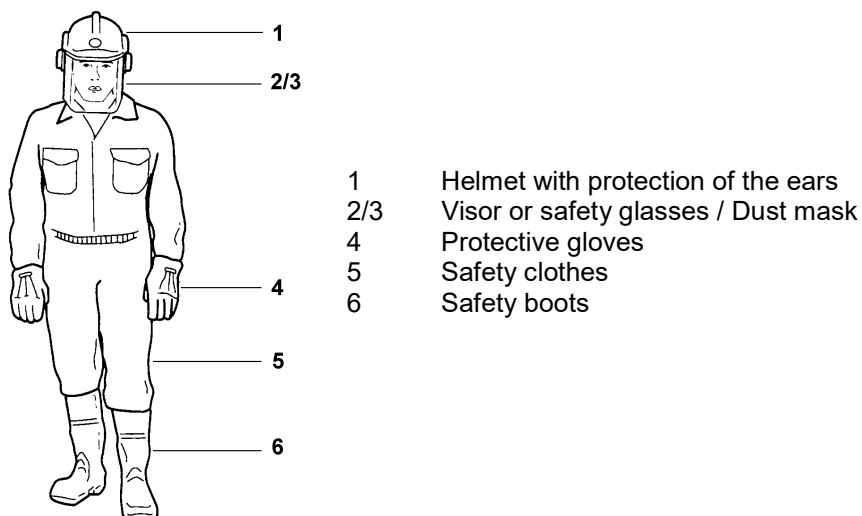
In addition to this operating manual, all other generally applicable legal and other mandatory regulations relevant to accident prevention and environmental protection must be observed! Such obligations may also comprise the handling of hazardous materials, provisioning and/ or wearing of personal protective 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 product must have read the operating manual prior to taking up work. This applies especially to persons working only occasionally on the product, e.g. during set-up or maintenance activities. Check - at least from time to time - whether the personnel are 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 product and always keep them in good and perfectly legible condition.

The personal protection equipment should consist of the following parts:



In case event of safety-relevant modifications or changes in the behaviour of the product, stop the product immediately and report the malfunction to the competent authority / person.

Do not remove or make inoperative any safety devices the product is equipped with. Never make any modifications, additions or conversions which might affect safety without the manufacturer's / distributor's prior approval!

This also applies to the installation and adjustment of safety devices as well as to welding and drilling 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!

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

1.3 Selection and qualification of person

Any work on and with the machine must be executed by reliable person only. Statutory minimum age limits must be observed! Employ only trained or instructed staff and set out clearly the individual responsibilities of the personnel for operation, set-up, maintenance and repair. **GÖLZ® GmbH** can help for instruction. Make sure that only authorized personnel works on or with the machine.

Define the machine operator's responsibilities - also with regard to observing traffic regulations – giving the operator the authority to refuse instructions by third parties that are contrary to safety.

Do not allow persons to be trained or instructed or persons taking part in a general training course to work on or with the machine without being permanently supervised by an experienced person.

Work on the electrical system and equipment of the product must be carried out only by a skilled electrician or by properly instructed persons working under the supervision and guidance of a skilled electrician and in accordance with electrical engineering rules and regulations

1.4 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. Regard all safety specifications!

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 safety devices, emergency shut-off etc. are in place and fully functional. Check the machine at least once per working shift for obvious damage and defects. Report any changes (incl. changes in the machine's working behavior) 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 drilling is to be accomplished while working. This prevents the appearance of particulate matter and increases the life-time of the diamond tool. Before starting up or setting the machine in motion, make sure that nobody is at risk. Keep children and unauthorized persons away from the work area!

The machine is designed for use in daylight! The machine operator/ owner must ensure sufficient workplace lighting for non-illuminated work sites! 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! Risk of stumbling! Cables and hoses must complete rolling up. The used power supply must comply with the regulations of power distribution on building sites (fuse protection over FI-protected switch)!

Remove adjusting tools. Check to see that the tools are removed from the drill rig before operating!

Damaged drill bits have to be changed immediately!

Use only recommended drill bits from the GÖLZ® GmbH! Do not operate when you are tired! Watch what you are doing! Prevent that water may enter any part of the drill motor! Never drill overhead without using a water collecting ring! Control the working area for water-, gas- and electrical lines!

During work

Make sure, that the drill rig is well fastened before and while drilling! Never touch rotating parts like drill spindle or drill bit!

After work

Before leaving the machine always secure it against unauthorized use! Make sure that the On-Off switch is in Off before start again! Do not pull on the supply cord in order to unplug the drill motor!

1.5 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 manual, including information on the replacement of parts or assemblies! These activities may be performed by skilled personnel only. Brief the operating personnel before initiating special repair or maintenance activities. Appoint a person to supervise such activities.

In any work concerning the operation, conversion or adjustment of the machine and it's safety-oriented devices or any work related to inspection, maintenance and repair, always observe the start-up and shut-down procedures described in the operating manual and the information on maintenance work.

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. Keep all handles, steps, handrails, platforms, landings and ladders free from dirt.

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. Special care must be taken with electric motors. After cleaning, remove all covers and tapes applied for that purpose. After cleaning, examine all loose connections, chafe marks and damage. Any defects found must be rectified without delay.

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.

1.6 Information about special risks related to 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!

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! Check out the prescribed safety distances. If your machine comes into contact with a live wire:

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

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.

1.7 Noise

Noise Protection devices on the machine must be in the protection position during operation! Always wear the specified personal hearing protection (UVV 29 §10)!

1.8 Oils, greases and other chemical substances

When handling lubricating fluids, greases or preservatives (called operating materials and lubricants in the following), the safety regulations applicable for the respective product must be observed!

Avoid prolonged contact of operating materials and lubricants with the skin! The skin must be carefully cleaned of adhering operating materials and lubricants!

If operating materials or lubricants get into the eyes, flush thoroughly with drinking water. Then visit a doctor! Immediately clean up any operating materials and lubricants which have leaked out. Use absorbent material for this purpose! Operating materials or lubricants must not be allowed to seep into the soil or to get into the public sewerage system! Properly collect, store and dispose of operating materials and lubricants which can no longer be used! Observe and follow the respective applicable laws and regulations for handling operating materials and lubricants and their disposal in the country in which these substances are used! Obtain information from the responsible agencies!

1.9 Changing the location of the machine

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! 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!

Even when the transport of the machine only involves a minor relocation, disconnect it from all external power supply lines! Before using the machine again, make sure that the connection to such external supply lines is re-established properly.

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 manual! Observe the instructions given in the operating manual when reassembling and operating the machine.

2. Transport and storing

2.1 Transport



The drill rig is not designed for crane transport - no applicable lifting device mounted. By means of its modular construction or using the transport wheels the unit can be easily transported by one person.

2.2 Storing

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 not mounted drill bits in a dry, high or locked place, out of the reach of children or unauthorized persons!

Drill bits with a small diameter are only to be stored in a horizontal position, drill bits with a large diameter only in a vertical position. Do not place any other parts or components on the drill bits.

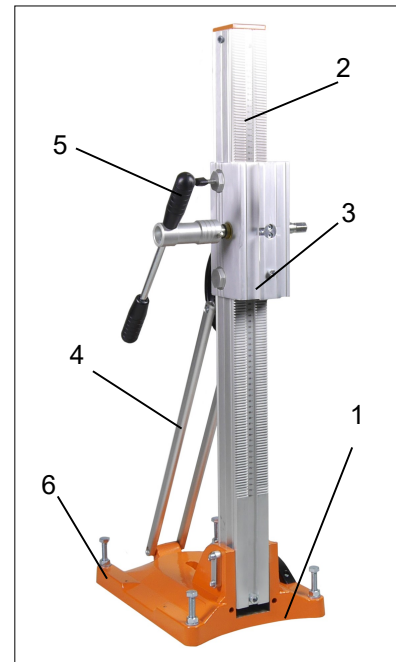
3. Description

3.1 Technical data

	SD300 with combined dowel base	SD300 with dowel base
Stroke	650 mm - 25.6"	650 mm - 25.6"
Max. drill bit size	Ø 300 mm - 11,8"	Ø 300 mm - 11,8"
Feed	Manual Feed: Hand wheel	
Weight (without motor)	ca. 17,8 kg - approx. 39.2 lbs.	ca. 18 kg - approx. 39.6 lbs.
Length	400 mm - 15,7"	475 mm - 18,7"
Width	290 mm - 11,4"	350 mm - 13,8"
Height	1050 mm - 41,3"	1050 mm - 41,3"

3.2 Main parts

- (1) Dowel-vacuum base
(Dowel base)
- (2) Column
- (3) Drill carriage
- (4) Angle adjustment
- (5) Hand wheel
- (6) Levelling screws



3.3 Dowel position

The machine can be provided with several drill motors and each of them allow different drill ranges.

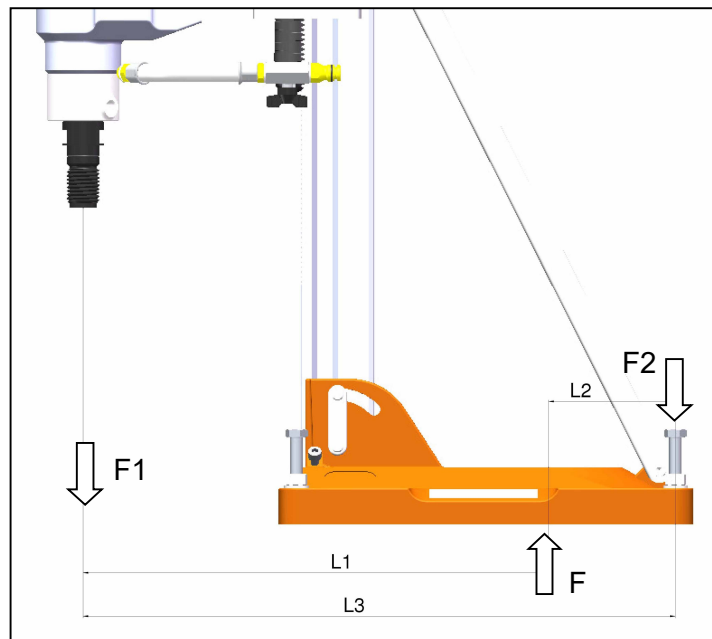
The machine equipment is only for drill motors that are mentioned by **GÖLZ® GmbH** in the following tabulations.

Distance plates can only be used, if they are certified for the respective application of the **GÖLZ® GmbH** (see tabulation).

Select dowels, whose middle breaking load lies minimum factor 2 over the load of the fastening point.

When dimension L2 is minimal (at the end of the slot), the largest dowel back forces F appear with the same contact force of the drill bit.

Therefore, choose the dimension L2 as tall as possible (Fastening point close to column).



Distance plates for machine

20 mm - 0.8 in., 4-hole: Order number: BD502545

20 mm - 0.8 in., 6-hole: Order number: BD501899

Drill bit-Ø contact force:

Drill bit-Ø (mm-in.)	Segment (Piece)	Contact force drill bit (N)	Distance plate (mm-in.)
50 - 1,9	5	1080	-
100 - 3,9	9	1890	-
150 - 5.9	12	2880	-
200 - 7.9	14	3780	-
250 - 9.8	20	4000	-
300 - 11.8	24	4800	-
400 - 15.7	28	5600	20 - 0.8

Example:

$$F_1 \times L_3 = F \times L_2$$

L₃ = Dimension hole centre- Dowel base levelling screwsL₂ = Dimension dowel hole - Dowel base levelling screws

Type	Drill bit-Ø (mm - in.)	Contact force drill bit F ₁ (N)	Dimension L ₃ (mm - in.)	Dimension L ₂ (mm - in.)	Dowel back force F(kN)	Distance plate (mm - in.)
SD300 mit BBM33L extra	50 - 1,9	1080	571 - 22,5	122 - 4,8	5,1	-
	100 - 3,9	1890	571 - 22,5	122 - 4,8	8,8	-

4. Starting**4.1 Site**

***Danger of down coming drilling cores when drilling through ceilings and so on!
Secure those places against entering!***

Bring the drill rig to the site. The site must have a solid ground and free of obstacles. Make sure the site is well lighted.

4.2 Fastening the drill rig

Mark the drill hole centre with chalk and measure the distance between dowel base and drill spindle centre. Mark the dowel hole and drill it. Insert the dowel and tighten the anchor bolt. Place the drill rig over the drill hole. Adjust the four levelling screws.

The correct horizontal position can easily be read off the box level on the drill carriage. Attach the dowel bolt and tighten the fastening nut properly.

4.3 Vacuum hold down

The maximum drill bit size with vacuum hold down is 120 mm - 4.7"! The vacuum hold down cannot be used on porous, rough surfaces, plaster work, hollow blocks or light-weight building slab! If the vacuum is under 0.7 bar - 10 psi., there is no guarantee of solid hold down!

Loosen the four levelling screws. Start the vacuum pump (accessory) and wait until the vacuum gauge shows a vacuum of 0.7 bar - 10 psi.. Bring the drill rig into position.

Connect the female coupler of the vacuum pump hose with the nipple of the combined dowel base.

When the drill rig is held by the vacuum, tighten the four levelling screws and nuts.

4.4 Drill rig motor and motor plate

The motor is mounted to the carriage by means of a motor plate or a motor neck holding fixture, depending on the type of motor.

4.4.1 Mounting of the motor and the diamond drill bit

- Turn the feed to the highest level-
- Mount the motor with motor plate or motor neck.
- Fix the diamond drill to the motor by using an extension if necessary or by using QucikFix.
- Place the water hose between the water tap and the water supply of the motor. Then turn the water tap on. (Do not use any waste water)
- Lead the waste water always safely away, for example by using a wet vac. Cable, plug and electricity should never get in contact with water. When drilling above your head you should always use a water retention ring. When drilling horizontally it is recommendable to use such a ring.
- Check if everything is mounted correctly and follow the safet regulations.

4.5 Drill bit

The drill bits must meet the specifications of **GÖLZ® GmbH**. Use the appropriate bits depending on the material to be processed, the working process and the type of work to be carried out! In case of nonintended use, no liability is assumed for any damage resulting thereof.

All the bits which are used must, as far as their maximum admissible cutting speed is concerned, be designed for the maximum drive speed of the unit. For units with a variable drive speed use drill bits which, as far as their maximum admissible cutting speed is concerned, correspond to the respective drive speed. Ensure the right rotational direction of the drill motor and of the drill bit!

Check the drill bits for proper fit. Defective drill bits must be immediately replaced!

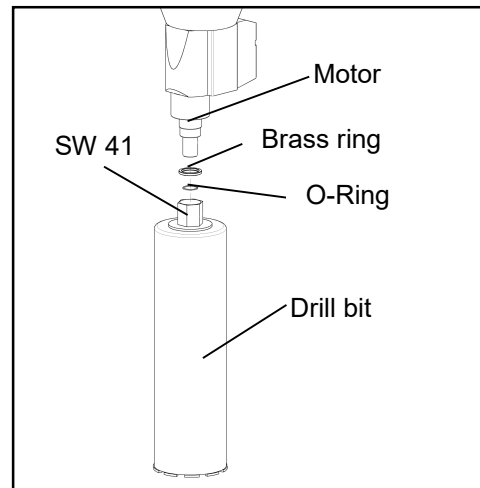
Each time a drill bit is fitted or changed, the drill motor is to be stopped first. After assembly do not leave any tools, a wrench for example, on the unit.



Important: Before fitting the drill bit, carefully clean all the fastening elements!

4.6 Mounting the drill bit

Mount the brass ring, O-ring and drill bit. The threads must be clean and not damaged.

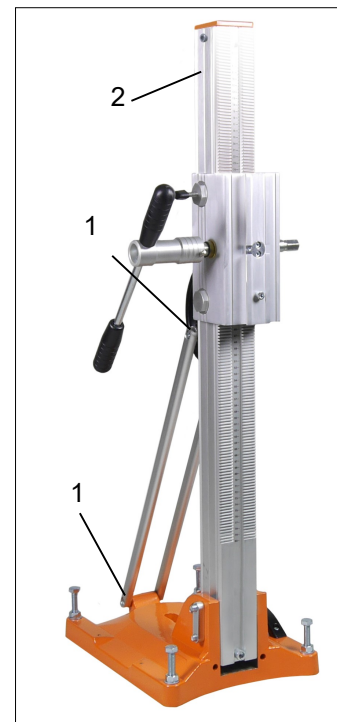


4.7 Adjusting the drill angle

The column (2) is continuously adjustable up to an angle of 45°. Loosen the screws (1), move the column, to put it into the desired position and fix the screws (1) again.

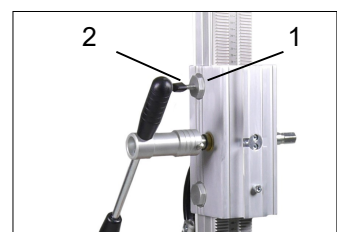


Attention: Before adjusting the column the socket head screw under the column - behind the centering device for the drill bit - has to be removed!



4.8 Feed

The adjusting screws (1) made of aluminium serve for slight adjustment of the guide plugs. The wing screw (2) serves for braking and fixing the feed.



5. Operation



	<i>Make the site free of parts that might obstruct the operation! Make sure that the drill bit is well mounted! Make sure, only authorized personnel is in the working area!</i>
	<i>Never touch rotating parts like drill spindle and drill bit.</i>
	<i>Make sure, that there are no mains in the material and location of the hole to be.</i>

5.1 How to drill

Start drilling with moderate feed pressure. After spot-drill take care that drill feed is regular. Adapt the feed pressure according to the conditions in the drill hole.

- Feed to high - overstressed drill motor!
- Feed to low - blunt segments!

Make sure, that the optimum peripheral speed of the drill bit according to the drill bit diameter is used.

6. Maintenance and care

	<i>Attention: All maintenance, repair and care work is only to be done with the motor being stopped!</i>
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Spare parts must comply with the technical requirements specified by the manufacturer. Spare parts from GÖLZ® can be relied to do so! Observe the following indications:

In accordance to the given cycles, the subsequently described maintenance work has to be enforced. Also the wearing parts subject to no certain maintenance-intervals have to be checked regularly for wear and to adjust if necessary or to exchange.

		Before starting work	After work	Weekly	In the event of a malfunction	If damaged
Machine	Visual inspection	x			x	x
	Clean		x			
Threaded spindle	Grease			x		
Column	Spray with sliding spray		x			
Drill bit	Check	x	x		x	
	Clean thread		x			
	Repair					x

6.1 Drill rig

Clean the machine and also the carriage well after each duty and check all functions. Replace all necessary parts that are out of order or worn out immediately. Spray in the column with commercial sliding spray.

6.2 Drill bit

When ending a drill job - check drill bit as follows:

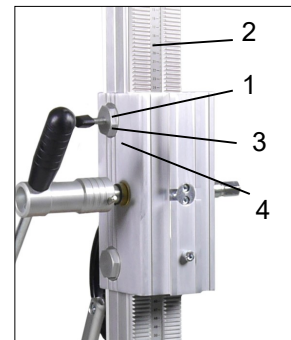
Check segments for cracks or break-outs, Cracks between segment and core barrel, Deformation and out of round wear.

In case of doubt, send the drill bit for repair (retip). Blunt drill bits should be re-sharpened.

6.3 Guide plugs

Due to constant friction between the guide plugs (1) and the guide (2) tracks the blocks are worn, In the long run this will result in less stability.

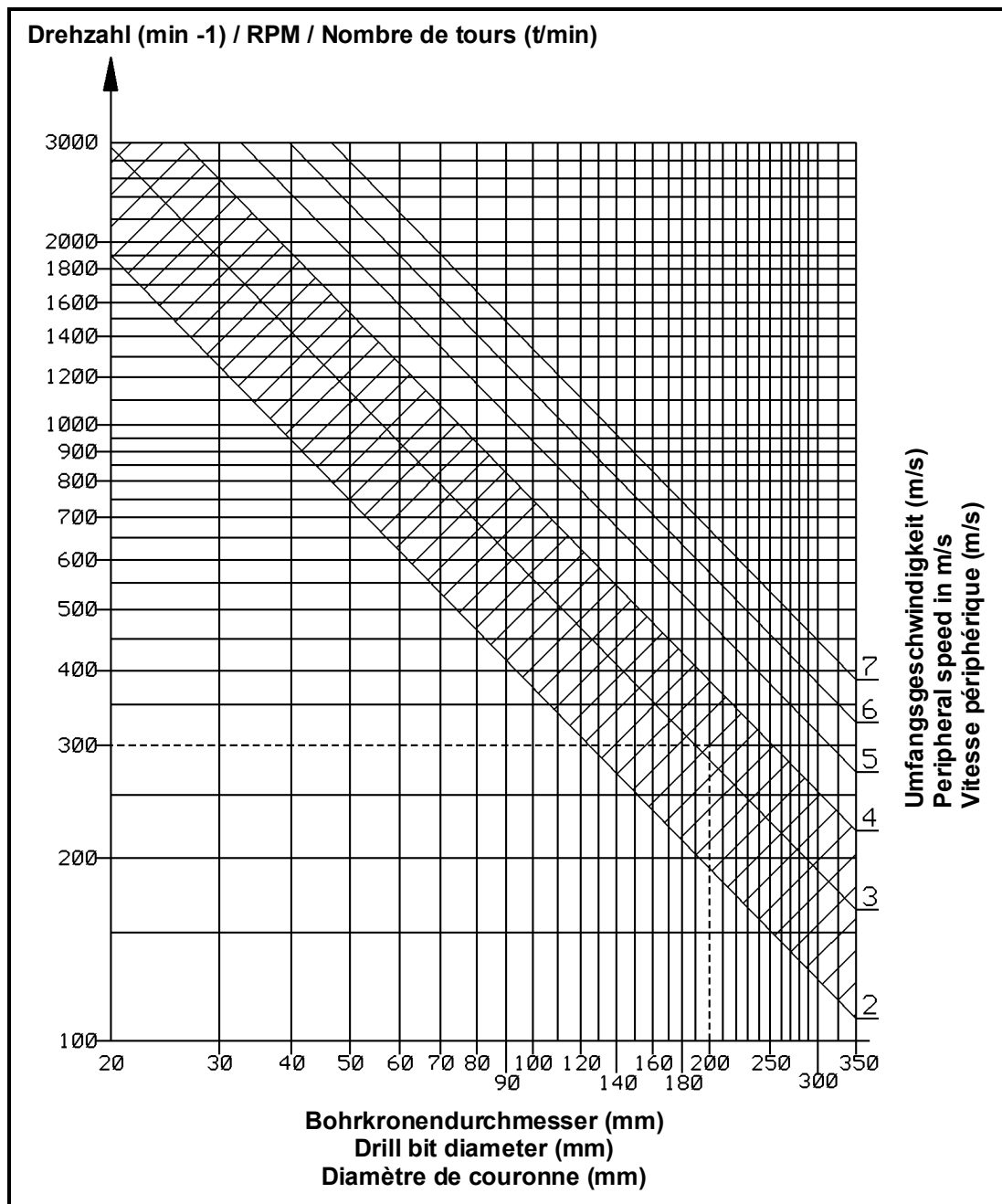
- Loose the screw (3) a little with a socket wrench
- Turn the plug holder (4) until there is no play anymore
- Fix the screw (3) again.



Replacement of guide plugs

When the guide plugs (1) cannot be adjusted anymore, they have to be replaced. Remove the two cylinder head bolts (3) as well as the correcting bolts (4) and replace the guide plugs (1) by new ones.

7. RPM recommendation chart



Example: Drill bit Ø 200 mm at 3 m/s = approx. 300 RPM
Optimum peripheral speed: 2 to 4 m/s

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".

8.1.1 Safety regulation



Danger: Mounting or dismounting assembly groups can give rise to risks which are not mentioned in the spare parts list!

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.



Danger: Non-observance of this instruction can result in injury which, in the worst case, can result in death!

8.1.2 Ordering information



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!

		
So bekommen Sie schnell und richtig Ihr Ersatzteil	Always indicate	Pour obtenir rapidement les pièces de rechange indiquer
• Maschinentyp gemäß Typenschild • Baujahr gemäß Typenschild • Artikelnummer gemäß Ersatzteilliste • Maschinenummer gemäß Typenschild	• machine type according to nameplate • year of manufacture according to nameplate • order number according to spare part list • serial number according to nameplate	• type de la machine conforme de plaque d'identification • Année de construction selon plaque d'identification • Numéro de l'article selon la liste des pièces de rechange • numéro de la machine conforme de plaque d'identification
Für Bestellungen, Fragen und Informationen wenden Sie sich bitte an die zuständigen Stellen.	For orders, questions and information, please contact the competent departments.	Pour les commandes, questions et informations, veuillez-vous adresser aux points de ventes correspondants.

8.1.3 Distribution agencies

Deutschland – Germany - Allemagne GÖLZ® GmbH Dommersbach 51 DE-53940 Hellenthal Tel: +49 (0)2482-12 200 Fax: +49 (0)2482-12 222 E-Mail: info@goelz.de / Internet: www.goelz.de	
Österreich - Austria - Autriche 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: info@goelz.at / Internet: www.goelz.at	Frankreich - France - France 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: info@golz.fr / Internet: www.golz.fr
Großbritannien - Great Britain - Grande-Bretagne GÖLZ® (UK) Ltd. Unit A5, Springhead, Enterprise Park Northfleet Kent DA11 8HB Tel: +44 1 474321679 Fax: +44 1 474321477 E-Mail: info@goelz.co.uk / Internet: www.goelz.co.uk	Benelux GÖLZ® Benelux Eupener Straße 61 BE-4731 Raeren-Eynatten Tel: +49 (0)2482-12 200 Fax: +49 (0)2482-12 222 E-Mail: benelux@goelz.de / Internet: www.goelz-online.com
Australien - Australia - Australie GOLZ® Pty Ltd. 44 Stanley Street Peakhurst, NSW 2210 Tel: +61 (0) 2 9534 5599 Fax: +61 (0) 2 9534 5588 E-mail: info@golz.com.au / Internet: www.golz.com.au	USA GOLZ® L.L.C. 5860 East Osage Ridge Lane Columbia MO 65203-6018 Tel: +1 573 474 4961 E-Mail: info@golzusa.com / Internet: www.goelz-online.com

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 are grey marked in the spare parts list.

- 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