

Hydraulic Drill

Type 2 3053 0010

Techn. Doc. No. 261



Illustration can differ from the original

Operation and Maintenance Manual



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Signal Word and Symbol Definition

The signal words and symbols used in the technical documentation (safety instructions, operating booklet, etc.) have the following meaning:



This symbol has the following meaning:

DANGER

Indicates an **immediate danger**, which causes serious injuries to any person or even death, if not avoided.

WARNING

Indicates a **threatening danger**, which can cause serious injuries to any person or even death, if not avoided.

CAUTION

Indicates a **danger or unsafe procedure** which can cause injuries to any person or material damages, if not avoided.

NOTICE

Indicates a **potentially dangerous situation** which can cause damage to the product or its surroundings, if not avoided.



WARNING – explosive atmosphere

Air and flammable substances can mix and result in an explosive atmosphere. In areas exposed to explosion hazards, supplementary instructions and directives apply. Observe the safety instructions of the employer as well.



WARNING – explosive material

Caution should be exercised when working with explosive material or in its surrounding area.



PROHIBITION – No naked flame, fire, or ignition source and no smoking

Prevent from fire and explosion hazards, which can be caused by naked flame, open ignition source or by smoking.



Eating and drinking forbidden – The prohibition sign forbids the consumption of food.



REQUIREMENT – Observe the instruction

Ensure that the operation process is adhered to and avoid accidents and expensive down times due to improper use of machines, devices and tools.

By using the mandatory sign you refer to the adherence of operation instructions.



This symbol has the following meaning

NOTICE – Gives recommendations and important hints for handling the product

IMPORTANT – Indicates application advice and other particularly useful information.

REMARK:

In each case the symbol used does not replace the safety text. The text must always be read fully. In some cases other symbols will be used with the signal words.

Technical Specification

Drill Holder	PN-93/G-57000
Operating pressure	max. 250 bar
Volume flow	28 l/ min
Free speed	850 1/min
Torque	95 Nm at 250 bar
Weight	6.8 kg
Hydraulic connection	„STECKO 8/10“
Hydraulic fluid	HFA (0.3%) or Hydraulic oil
Filtering HFA	Purity Degree 100 µm
Oil filtering	ISO purity degree 20/18/13
Fluid circuit	Closed circuit
Return pressure	max. 17 bar
Temperature Emulsion HFA (0.3%)	5- 50°C
Temperature of oil	- 34 °C to + 82 °C
Viscosity of oil	> 13 centistokes
Noise pressure level $L_{pA}^{(1)}$	85.2 db(A)
Noise power level L_{WA}	96.2 dB (A)
Vibration ⁽²⁾ Medium hard concrete Sand-lime brick	15.8 m/s ² 3.4 m/ s ²
ATEX Classification	 I M2 Ex h I Mb T6
⁽¹⁾ Remark: Measurement acc. to DIN EN ISO 15744	Measurement uncertainty K: 3 dB (A)
⁽²⁾ Remark: Measurement acc. to DIN EN ISO 28927-5	Measurement uncertainty K: 1.5 m/s ²

The performance data are guide values only, they depend basically on the application, the operating pressure and the applied accessories.

Intended Use

SPITZNAS machines are designed for commercial/industrial use only.

Only trained, skilled personnel are allowed to operate the machine.

For optimum drilling performance always observe the instructions of the drilling tool manufacturer!

For the application in:

- mining

Improper Use

Any use deviating from the intended use as described is considered to be improper use.

- Working without personal protection equipment.
- Using the machine in an inadmissible area.
- Drilling self-flammable material

Product Description

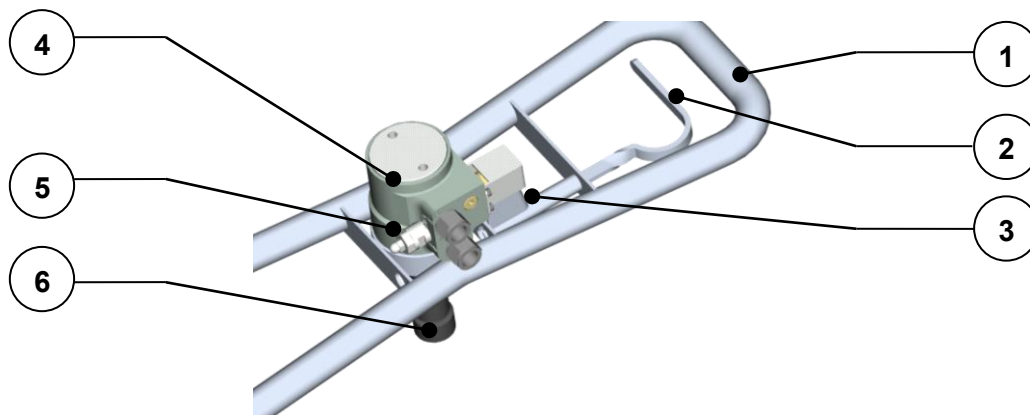


Fig. 1

- 1 Handle
- 2 Actuating lever
- 3 Hydraulic connection
- 4 Hydraulic motor

- 5 Overload valve
- 6 Drill holder

Identification

Type sign

CE specification

SPITZNAS CUSTOMIZED POWER SOLUTIONS		CE XXX
Typ	2 3053 0010	n _{leer} 850 min ⁻¹
Bj/Sr-Nr.	XXXXXXXXXX	p _{max} 250 bar
		Q _{max} 28 l/min
IM2ExhIMbT6		
Maschinenfabrik GmbH - Fellerstr. 4 - 42555 Velbert - Germany		

Address _____

Technical specification _____

ATEX Identification _____

Serial number (1. and 2. figure BJ = refer to the year of manufacture/ following figures Sr = refer to the series) _____

Type description _____

Company name and Logo _____

Explanation of ATEX Identification

Specification
acc. to 2014/34/EU



Machine group I
Explosive atmosphere
Mining

Kategorie M2
Very high level of safety
High level of safety

Marking according to standard - Ex-Symbol

Ignition protection category h
Code letter h for all non-electrical equipment

Group I
Methan

Equipment Protection Level
Group I EPL Mb

Temperature class T
Surface limit temperature
450°C
300°C
200°C
135°C
100°C
85°C

T1	_____
T2	_____
T3	_____
T4	_____
T5	_____
T6	_____

Installation

Hydraulic system requirements

The following is required for an optimum performance of the hydraulic drill:

- Provide a volume flow of max. 28 l/min at an operating pressure of max. 250 bar.
- The system should not have more than 17 bar back pressure.
- The hydraulic system must have sufficient heat rejection capacity to limit the maximum temperature of the hydraulic fluid HFA to 50 °C and hydraulic oil to 60 °C at the maximum expected ambient temperature.

It is recommended:

- That filter elements are sized for a maximum dirt filtration (see technical specification),
- use a main flow filtration.

Connecting the hydraulic supply to the hydraulic drill

The machine is designed for a closed circuit.

Check:

- The circuit type (open circuit or closed circuit), before connecting the machine.
- That all hose couplings are clean, before connecting the hoses.
- That there are no signs of leakage.
- That the machine is clean and dry.
- That all assembly parts and fixing elements are firmly fixed, respectively tight.

The recommended hose size is 10 mm for the inner diameter and 15 m for the length.
Always connect the return hose first and disconnect it at last (see fig. 2).

P (Pump connection) = Supply
T (Tank connection) = Return flow

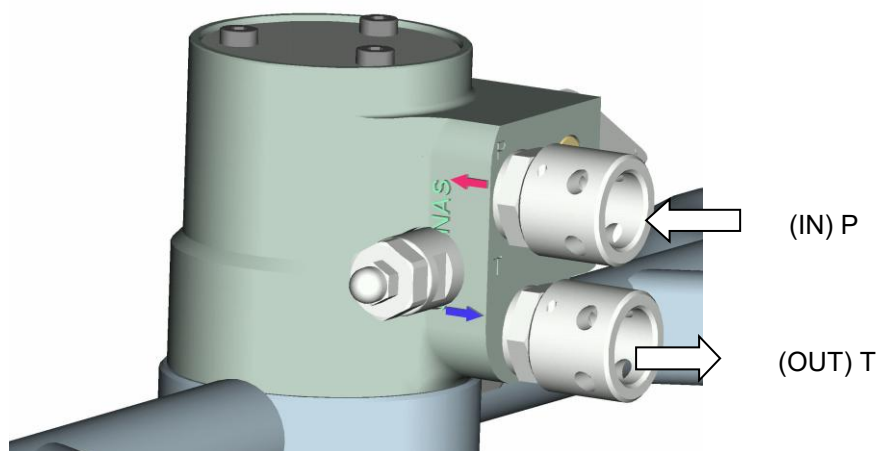


Fig. 2

Startup

Connect the hydraulic hoses. Never connect a pressurized hydraulic hose (see safety instructions for prevention of hazards caused by hydraulic).

First connect the machine and then actuate the hydraulic supply.

Switch Diagram

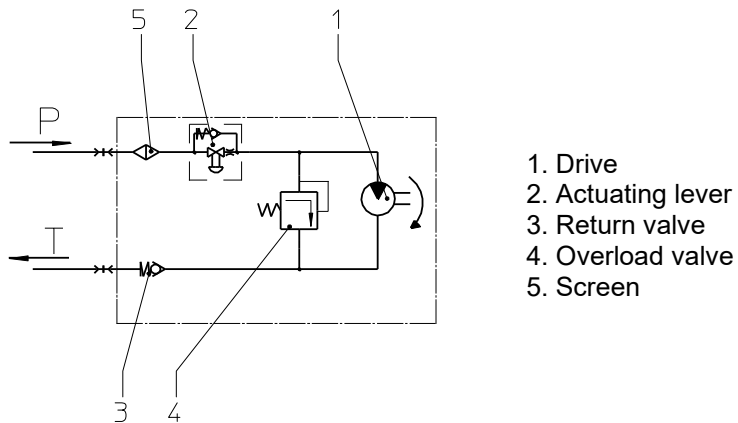


Fig. 4

Insert the tool

Insert the tool in the drilling tool holder 6 (see fig. 5).

When inserting the tool, pay attention, that the switch lever 2 (see fig. 6) is not actuated.

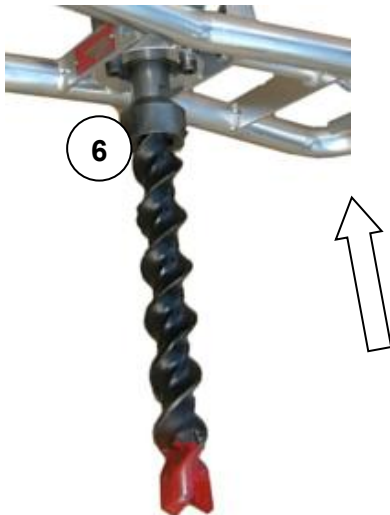


Fig. 5

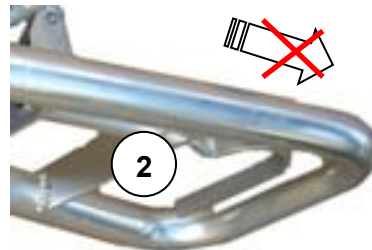


Fig. 6

Change tools

Wear gloves when changing tools.

The drill and the drill holder can heat up during longer working procedures.

Drilling

- Install the tool at the machine.
- Attention before startup: Pay attention to the correct connection of the hydraulic hoses.
- Actuate valve and start the drill work.
- Cool the drill with water during the work, if necessary.

After finishing the drill work

- Release actuating lever (2)
- Shut main valve, shortly press actuating lever (2), release rest pressure and disconnect hydraulic hoses. First pressure hose „P“.
- Take out drilling tool.
- Clean tool holder.

Safe working

WARNING – Always hold the machine with both hands when drilling (two-hand operation).

Be prepared that the resisting torque rises instantly when the drill rod jams. Therefore use a fix stop to withstand this resisting torque (see fig. 7).

Ensure a secure footing and a good body balance.

Stop for counter force

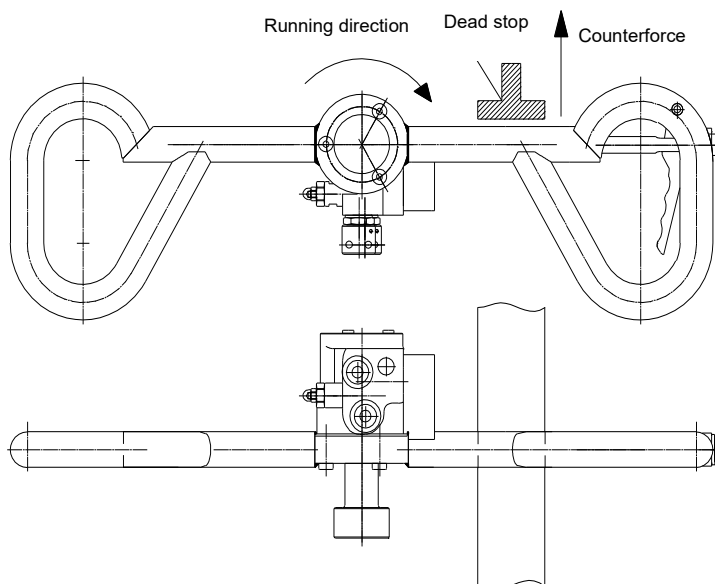


Fig. 7

Basic Safety Instructions



Read operation instructions/safety instructions!

Before working on or with the tool, read the safety instructions and follow the instructions during operation.

Do not modify the machine or the machine tools and accessories after receipt. Any constructive changes or modifications need the manufacturer's acceptance and have to be in compliance with the safety instructions. Use the machine only for its determination. Consider the technical data of the equipment and the ambient temperatures. Pay attention to labels, restrictions of use and special instruction notes on the machine tools and the machine itself. Check regularly that the type plate and symbols on the machine are legible. If necessary, contact the manufacturer to replace them. Only operators with technical knowledge, trained by authorized responsible technical personnel, may install, adjust, operate, transport and store the machine.

Employer's Obligations

Generally, the employer is responsible for the faultless condition/operation of the machine and the adherence to the safety regulations. The machine is designed and manufactured according to the technical safety regulations. However, using it, there is still a risk of accidents to the operator or third parties or damage to the machine or other objects. All current regulations and specifications, which apply to the site of operation in regards to accident prevention, installation of electrical and mechanical systems as well as radio interference must be considered



IMPORTANT - The employer must make sure that...

- risk assessment is carried out for the specific risks, which can occur due to any operation of the machine,
- the function of the safety equipment is regularly checked,
- the safety symbols and safety notes on the machine/ device and the operating instruction booklet are considered,
- the safety instructions and the operating instruction booklet are available completely and in legible condition on site with the machine.

The employer is obliged to allow personnel to work on the machine only, who:

- Are familiar with the basic work environment safety rules and accident preventing regulations. Also, those persons must have been instructed in the correct use of the machine,
- have read and understood the safety and warning notes in the operating instruction booklet as well as all the other documentation pertaining to the machine,
- have been tested at regular intervals in regards to their safety-conscious operation.

Safety-conscious working

Additional to the safety instructions in this manual and the intended use, the following safety regulations have to be observed:

- Accident prevention instructions, safety and operation regulations
- Explosion protection directives
- Safety regulations for the operation with hazardous material
- Norms and laws being effective

Operator's Obligations

All persons who are assigned to work with the machine are obligated to:

- Pay always attention to the basic safety and accident preventing regulations,
- read always and follow the safety and warning notes in the operating instruction booklet.

Explanation of Symbols for Protective Equipment and for Accident Prevention



Use protective clothes – Protective clothes are necessary for diverse applications, e.g. protection against chemicals, heat and cold. Provide appropriate protective clothes to your staff and identify this requirement by convincing signage.



Use head protection – Keep staff and visitors from head injury. Provide enough safety helmets and identify the obligation for using safety helmets by appropriate mandatory signs.



Use eye protection – whether goggles, laser safety goggles or etc. – identify areas where eye protection has to be used, by appropriate mandatory signs.



Use ear protection – Capsule hearing protectors or hearing protectors have to be used for ear protection, depending on the sound intensity at the work place. Provide appropriate ear protection and identify the obligation for using ear protection by appropriate mandatory signs.



Use foot protection – Foot injuries by vehicles, objects, hot material or hazardous substances can be avoided by appropriate protective shoes. Equip your staff with appropriate protective shoes and identify those requirements properly.



Use hand protection – Identify convincingly the safety requirement „Use hand protection“ by a gloves sign, respectively a gloves symbol.



Use respiratory protection – Ensure that the specified protection equipment is available and that it is used. Identify by mandatory signs, where and when respiratory masks are required.

Gefahrenzonen

Operational condition ----- Life phase	Normal function	Malfunction	Improper use	Expected use
Transport	Transport of the machine in an inoperable condition	Drop of the machine	Transport of the machine in an operable condition	unknown
Startup	Equipment of the machine with the designated drilling tool	unknown	Equipment of the machine with grinding pins or other tools	unknown
Operation	Machine only works with actuated valve	Machine runs without intended actuation	Valve is blocked in actuated condition;	unknown
	Machine moves the drilling tool	Machine blocks	unknown	unknown
Maintenance	Regular cleaning	Breakdown of the machine	unknown	unknown
Hazard notes regarding the hydraulic powerpack: refer to the manufacturer				

Safety Instructions for Prevention of Workplace Hazards



WARNING – The following applies unless otherwise stated in the machine's operating instructions booklet: The machine is not insulated to protect against an electrical power surge.



CAUTION – risk of injury!

Hands may be crushed, seized or otherwise injured. Keep your hands away from areas which are marked with this symbol



CAUTION – risk of injury!

Remove all sources of danger which could lead to slipping, tripping or falling (e.g. slippery surface, hoses, cables).

Keep the work area clean and dry



PROHIBITION – Eating, drinking and smoking are forbidden during operation.



WARNING – Explosion hazard!

Operate the machine according to the intended use only.

The machine is designed for the use in areas exposed to explosion hazards as well.

The generation of heat and –eventually- sparks at the drilling point is characteristic for drilling. Therefore cool continuously. Observe the following:

- Valid local explosion protection directives.
- Technical specification of the machine.
- Markings on the machine.
- Avoid the generation of sparks.
- When operating the machine, do not push or beat against other material and hold the machine firmly and safely by hand.
- Do not slide the machine over the ground.
- If heat generation exceeds the specified surface temperature, the machine has to be stopped instantly. It only may be re-started after having eliminated the cause for the fault.
- The work area and the next working areas should always be protected from sparks.
- Flammable and explosible material has to be removed from the work area before work is started. Among others, this relates to dust deposits, cardboard, packing material, textile, wood and wooden splints, but also flammable fluids and gas.



Ensure adequate lighting.

Be extra careful in unfamiliar surroundings. There is a risk of hidden hazards such as electric lines or other supply lines. Make sure when operating the machine that no electrical cables, gas pipes or similar could be damaged. Use suitable and personal protective equipment.

Safety Instructions for Prevention of Hazards caused by Hydraulic



WARNING – Hydraulic can cause severe injury. Before working on the tools (e.g. installation, changing accessories or machine tools, prior to a long standstill, maintenance, etc.) depressurize hydraulic equipment (close valve).

CAUTION – Risk of injury by whipping hydraulic hose.
Check hydraulic hoses, connection components and fittings regularly for any damages and proper fixture.

When connecting / disconnecting the machine to / from the hydraulic supply, please pay careful attention not to actuate the start lever while doing so. Never remove a pressurized hydraulic hose.

Always switch the hydraulic supply off first and then depressurize the machine by pressing the valve latch. The maximum operating pressure according to the technical specification must not be exceeded. A pressure regulator should be installed, which regulates the pressure before it reaches the machine. Never direct a hydraulic hose at yourself or anyone else. Do not carry the machine by the hydraulic hose.

Safety Instructions for Prevention of Operating Hazards

Before beginning work make sure that the hands are protected from the following hazards whilst working with the machine: impacts, crushing, hits, cuts, abrasions and heat.

The operating and maintenance personnel must be physically able to handle the bulk, weight, power and/or torque of the machine. Do not use the machine if you have taken any medication or drugs, after drinking alcohol or with any other constraints on your vision, reaction time or judgment. Work in the best possible position so that you can react with both hands to any normal or unexpected movements of the machine. Maintain a balanced body position and secure footing in order to avoid improper strain and to be able to support the reaction torque of the machine. If you cannot safely support the reaction torque of the machine, then use a torque support (e.g. linear stand, telescopic arm, holding fixture/ holder-on, support grip).

Additionally observe the following:

- Only operate the machine after having carefully read the operation manual.
- Only use drilling tools appropriate for the application with this machine.
- The work place has to be secured according to the instructions, in order to avoid injury to persons nearby due to projectiles coming-off.
- The machine is for hand-held operation only.
- Consider the producer's specification when selecting the drilling tool.
- Check the secure fixing of drill chuck and drilling tool before starting work.
- If the machine blocks, higher reaction torques can occur (Blocking can be caused by: overload, tilting of the drill bit in the work piece).
- It is possible that the drill bit keeps on running after the machine has been switched off. Wait until it stops.
- Never stop the tool holder or the drilling tool by hand.

Safety Instructions for Prevention of Entanglement Hazards



CAUTION – Loose clothing, personal jewellery (e.g. necklace), scarves/ ties, long hair or gloves can get caught up in the machine tool or accessories and thus cause severe injuries (lack of breath by throttling, abrasions, skin injuries and/ or cuts and lacerations).



Wear suitable, close fitting work clothing!

Wear a hair net, if you have long hair.

When handling the machine, jewellery, necklaces, etc. have to be removed or are forbidden, respectively.

Safety Instructions for Prevention of Noise Hazards



Always wear hearing protection – This refers to the operator, as well as to any other person within the vicinity of the machine. Observe the instructions of the employer and of the professional association.

High noise levels during operation can cause permanent hearing problems such as tinnitus (ringing, buzzing, whistling or humming in the ears), hardness of hearing or even deafness.

Safety Instructions for Prevention of Vibration Hazards

Vibrations can cause damage of the nerves and the vascular system in hands and arms, therefore observe the following:

- Wear warm clothing and keep your hands warm and dry when working in cold conditions. Exercise hands and fingers regularly.
- Use stands and/or weight balancers, if possible.
- When using a support (e.g. stand) make sure the machine is securely fixed. If no support is used, hold the machine with light but safe grip in order to support the tool's reaction torque. The tighter the grip the greater the risk of vibrations.
- Mount the machine as described in the operating instruction booklet in order to avoid unnecessary high vibrations.
- Stop work immediately, if you feel any numbness, tingling, pain or whitening of fingers or hands. Inform the employer and consult a doctor.
-

Safety Instructions for Prevention of Dust and Fume Hazards



Wear respiratory protection - Use respiratory protection as instructed by your employer and as required by occupational health and safety regulations. Potentially generated or disturbed dust and fumes in the working environment or from using the machine can cause ill health (e.g. cancer, birth defects, asthma and/ or dermatitis).

- Carry out risk assessment regarding dust and fume hazards and implement appropriate measures.
- Keep the working place clean.
- Keep in mind that working in certain materials may create dust and fumes causing a potentially explosive atmosphere.

Remark: Some types of metal may have toxic coatings.
Please pay particular attention to avoid skin contact and breathing in, when working with those materials.
Always use a protective mask. Ask your material supplier about special safety instructions and stick to them.

Safety Instructions for Prevention of Projectile Hazards



Wear impact-resistant safety goggles – This refers to the operator, as well as for the persons within the vicinity of the machine. Assess and determine the grade of protection required depending on the individual case. The risks to others should also be assessed at this time.



On overhead work, wear a safety helmet . If a work piece, accessories, inserted tools, or the tool itself breaks, there is danger from high velocity projectiles.

- Before using the machine check all parts for damages.
- Replace damaged parts immediately.
- When working on brittle material make sure that you are protected against harmful splinters.

Safety Instructions for Prevention of Accessory Hazards

Only use machine tools, accessories and consumables, which are recommended by the manufacturer. Make sure choosing the correct size and the correct type. Only use accessories, which are in proper condition and do not touch them during operation.



WARNING – Injury due to carelessness!

If the machine is fixed to suspension equipment make sure that it is secure. Never hang the machine onto the supply line.



- Separate the machine from any external energy source before changing the machine tool or an accessory.
- Avoid direct contact with the machine tool during and after use as it can be hot or sharp.
- Wear protective gloves, when changing tools!

Notice: Defective/ inappropriate gloves can lead to injury. Only wear proper hand protection, adapted to the work place requirements.



WARNING – Explosion hazard!

When operating the hydraulic drill in areas exposed to explosion hazards, only use accessories, respectively devices, which are ATEX approved and specified. Use low-sparking accessories.

Safety Instructions for Prevention of Transport Hazards



CAUTION – Improper Transport, danger of life due to parts falling down!
Damage of the machine!

- Separate the machine from any external energy source before transportation. Check that the machine is undamaged and in proper condition.
- Never carry the machine at the supply line.



Wear worker's protective shoes!

Service and Maintenance



Basic Safety Instructions:

WARNING – Maintenance and repair work on hydraulic equipment.

Hydraulic can cause severe injury. Observe legal regulations. Take precautions for persons and environment.

Additionally, observe the following:

- Secure the machine against unintentional starting and let the machine cool down to the ambient temperature
- Protection against tipping, tumbling or falling down when assembling/ disassembling the machine/parts.

CAUTION – Skin exposure to hazardous dusts may cause severe dermatitis. Dust present at the work place could be disturbed during the maintenance procedure and inhaled. Clean machine and work place before maintenance work.



WARNING – Danger of explosion! Generation of sparks during maintenance work!

Observe local safety regulations. Avoid use of force when disassembling and assembling the machine. Always do maintenance work outside areas which are exposed to explosion hazards.



PROHIBITION - Eating, drinking and smoking are forbidden during maintenance and repair work.



NOTICE – Only use **genuine SPITZNAS spare parts**, in order to avoid damages.

Otherwise you risk a decrease in machine performance and an increase in maintenance work. Check the adherence to the technical specifications according to the operation manual after each maintenance work.

IMPORTANT – There is no warranty for damages and liability is disclaimed, if **non-original spare parts** are used.

Maintenance Instruction

Generally, hydraulic machines need little maintenance. If the following rules are observed, the machine will have the expected long life-time and high reliability. Service life and performance of the machines are decisively determined by:

- The purity degree of the hydraulic fluid
- The lubrication conditions and maintenance
- The **regular control of the hydraulic filter/ the hydraulic fluid**, as well as the **regular checking of the machine with regards to external damages**.

Keep the machine clean.

Only proper maintenance ensures a constant performance of the machine.

During the operation of the hydraulic drill the following must be observed:

- The HFA emulsion must be clean
- Appropriate protection against dirt of the lines and the connections of the drill must be provided.

- After finishing the work the drill has to be cleaned and protected against corrosion with a light protective oil.
- Prior to longer downtimes (a few days) the drive should be rinsed with hydraulic oil.

Inspection and maintenance can be done by the operator.

Disassembly and re-assembly of the machine have to be executed by qualified staff only. Incorrect assembly can lead to danger of accident for the operator and to defects on the machine.

The most important maintenance practice is to keep the hydraulic fluid clean at all times. Contaminated fluid causes rapid wear and/or failure of internal parts

Furthermore we recommend regular greasing of the lever 2 in the guiding pipe to ensure easy movement.

After completing maintenance and repair work and before restarting production make sure that...

- All materials, tools and other equipment which are required for maintenance or repairs have been removed from the work area of the machine.
- Any fluid leaks have been removed.
- All safety devices on the machine have proper function.
- Fixtures of screw connections are tight.
- Removed container covers, screens or filters were reinstalled.

The employer ensures that all maintenance, inspection and assembly work is done by authorized and qualified experts, who have been appropriately informed by thorough study of the operation manual.

Disassembly- Re-assembly

Maintenance and repair

Disassembly and re-assembly should be done according to the exploded views, respectively the sectional drawings (see repair instruction).

All work regarding disassembly and re-assembly, as well as maintenance and repair have to be executed by SPITZNAS or skilled staff only.



DANGER – Working with the machine without appropriate preparation and disregarding of instructions. Shut down the machine properly and let it cool down to the ambient temperature.



NOTICE – Special instructions apply for the repair of explosion-proof machines. Retrofits or modifications of the machine can affect the explosion protection. Therefore, retrofits or modifications are allowed upon agreement with the manufacturer only.

The explosion-proof machine is designed in the type of protection „c“ constructive safety. All work executed on the machine, influencing the explosion protection, e. g. repairs with mechanical machining, require an approval of an authorized expert or have to be done by the manufacturer.

The internal structure must remain unmodified.

Storage

Unused machines and machine tools should be kept in a dry, closed room.

Keep them free from damaging influences such as damp, frost or large temperature fluctuations as well as

mechanical damage. Always store the machine in a way that important machine instructions, e. g. on stickers and signs, are legible.

Disposal

Dispose worn out/defective machine tools according the local/national regulations. Fully disassemble machine for the necessary disposal. Separate materials according to local environmental specifications. Dispose environmentally hazardous greasing, cooling or cleaning agents in order to avoid environmental contamination.

Environmental Regulations

When working on or with the equipment, it is imperative to observe all legal requirements in regards to waste-disposal and proper recycling.

In particular during installation, repair and maintenance work, water damaging agents, such as



- lubricating grease and oil,
- hydraulic fluid,
- coolant,
- solvent containing cleaning agents

must not leak into the ground or reach the sewage system.

These materials must be stored, transported, contained and disposed of in suitable containers!

Troubleshooting

The following table shows possible problems and causes:

Problem	Cause	Remedy
The drilling is not satisfactory, though the motor is properly running.	• Pressure of HFA emulsion too low • dull drill rod • Screen at pressure supply clogged	• Check supply unit • Replace drill rod (new) • Clean the screen
Drill doesn't start	• Connections mixed-up • Screen at pressure supply clogged	• Connect correctly • Clean the screen
Other problems		Contact authorized expert company.

We ask you to send the machine to the supplier, if necessary.

Warranty and Liability

Unless otherwise specified, our „General Sales Terms” apply. Warranty and liability claims in regards to persons or equipment damages are invalid, if one or several of the following causes apply:

- Improper use of the machine.
- Improper assembly, startup, operation or maintenance of the machine.
- Operation of the machine with defect safety devices or improperly fixed or non-functioning safety and protection devices.
- Non-observance of the instructions in the operating instruction booklet concerning transport, storage, assembly, startup, operation, maintenance and setting up of the machine.
- Independent structural alterations or settings on the machine beyond the intended purpose .
- Inadequate supervision of wear parts.
- Improperly carried out repairs, inspections or maintenance
- Catastrophic cases because of a war, acts of god or other reasons, which are beyond our control.

Scope of Delivery

Check, if the scope of delivery is complete:

- 1 Operation and maintenance manual
- 1 Hydraulic Drill

Declaration of conformity

as defined in the Machine Directive 2006/42/EC and in the
EU-ATEX-Directive 2014/34/EU for usable machines

We, the company
SPITZNAS Maschinenfabrik GmbH, Fellerstraße 4, 42555 Velbert–Langenberg,
declare that the following product

Description: Hydraulic Drill
Model: **2 3053 0010**

in the version supplied by us, complies with the Machine Directive 2006/42/EC
and the EU-Directive 2014/34/EU (ATEX – group I, category M2, Ex h I Mb T 6).

Applied harmonized norms are:

DIN EN ISO 12100
DIN EN ISO 11148-3
DIN EN 60079-0
DIN EN ISO 80079-36
DIN EN ISO 80079-37
DIN EN ISO/IEC 80079-38

According to section 13 (1) b) ii) of the Directive 2014/34/EU the technical documentation is deposited
under reference No. 557/Ex-Ab 2238/14 at the following office:

TÜV Rheinland Industrie Service GmbH
Am Grauen Stein, 51105 Köln
(Registration No. 0035
for the scope of
the Directive 2014/34/EU)

Name of the authorized person for documentation: Mr. Simon Witt
Address of the authorized person for documentation: see manufacturer's address



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