

Operating Instructions

Hydraulic Bottle Jack

HSWH 3

HSWH 30

HSWH 50



HSWH 3



HSWH 30

HSWH-SERIES

Imprint

Product identification

Hydraulic Bottle Jack	Item number
HSWH 3	6201000
HSWH 30	6200003
HSWH 50	6200005

Manufacturer

Stürmer Maschinen GmbH
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Indication regarding the operating instructions

Genuine operating instructions

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1 Introduction

You have made a good choice by purchasing the UNICRAFT hydraulic bottle jack.

Read the operating manual thoroughly before commissioning the machine.

It gives you information about the proper commissioning, intended use and safe and efficient operation and maintenance of your hydraulic bottle jack.

The operating manual is part of the hydraulic bottle jack package. Always keep this operating manual in the location where your hydraulic bottle jack is being operated. All local accident prevention regulations and general safety instructions for the operating range of your hydraulic bottle jack must also be complied with.

1.1 Copyright

The contents of these instructions are copyright. They may be used in conjunction with the operation of the hydraulic bottle jack. Any application beyond those described is not permitted without the written approval of Stürmer GmbH.

For the protection of our products, we shall register trademark, patent and design rights, as this is possible in individual cases. We strongly oppose any infringement of our intellectual property.

1.2 Customer service

Please contact your dealer if you have questions concerning your hydraulic bottle jack or if you need technical advice. They will help you with specialist information and expert advice.

Germany:

Stürmer Maschinen GmbH
Dr.-Robert-Pfleger-Str. 26
D-96103 Hallstadt

Repair service:

Fax: 0049 (0) 951 96555-111
E-Mail: service@stuermer-maschinen.de

Spare part orders:

Fax: 0049 (0) 951 96555-119
E-Mail: ersatzteile@stuermer-maschinen.de

We are always interested in valuable experience and knowledge gained from using the application-which then could be shared and be valuable to develop our products even further.

1.3 Limitation of liability

All information and notes in these operating instructions were summarised while taking applicable standards and rules, the state-of-the-art technology and our long-term knowledge and experiences into consideration.

In the following cases the manufacturer is not liable for damages:

- Non-observance of the operating instructions,
- Inappropriate use
- Use of untrained staff,
- Unauthorised modifications
- Technical changes,
- Use of not allowed spare parts.

The actual scope of delivery may deviate from the explanations and presentations described here in case of special models, when using additional ordering options or due to latest technical modifications.

The obligations agreed in the delivery contract, the general terms and conditions as well as the delivery conditions of the manufacturer and the legal regulations at the time of the conclusion of the contract are applicable.

2 Safety

This section provides an overview of all important safety packages for the protection of operating personnel as well as for safe and fault-free operation. Other task-based safety notes are included in the paragraphs of the individual phases of life.

2.1 Symbol explanation

Safety instructions

The safety notes in these operating instructions are high-lighted by symbols. The safety notes are introduced by signal words which express the concern of the risk.



DANGER!

This combination of symbol and signal words indicates an imminently dangerous situation which may lead to death or severe injuries if they are not avoided.



WARNING!

This combination of symbol and signal words indicates a possibly dangerous situation which may lead to death or severe injuries if they are not avoided.



CAUTION!

This combination of symbol and signal words indicates a possibly dangerous situation which may lead to minor or light injuries if they are not avoided



ATTENTION!

This combination of symbol and signal words indicates a possibly dangerous situation which may lead to property and environmental damages if they are not avoided.



NOTE!

This combination of symbol and signal words indicates a possibly dangerous situation which may lead to property and environmental damages if they are not avoided.

Tips and recommendations



Tips and recommendations

This symbol highlights useful tips and recommendations as well as information for an efficient and trouble-free operation.

It is necessary to observe the safety notes written in these operating instructions in order to reduce the risk of personal injuries and damages to property.

2.2 Obligations of the operating company

of the operator

The operating company is the person who operates the hydraulic bottle jack for business or commercial reasons by herself, or leaves it to a third party for use or application, and who bears the legal product responsibility for the protection of the user, the staff or for third parties.

Obligations of the operating company

If the hydraulic bottle jack is used for commercial purposes, the operating company of the hydraulic bottle jack must comply with the legal working safety regulations. Therefore, the safety notes in this operating manual, as well as the safety, accident prevention and environment protection regulations applying for the area of application of the jack must be met. The following applies in particular:

- The operating company must be informed about the applying industrial safety regulations and further analyse hazards resulting from the special working conditions at the place of use of the hydraulic bottle jack. She must implement these in form of operating manuals for the operation of the hydraulic bottle jack.
- During the entire lifetime of the hydraulic bottle jack, the operating company must verify whether the operating manuals prepared by her correspond to the current status of the regulations, and must adapt these if necessary.
- The operating company must unambiguously regulate and determine the responsibilities for installation, operation, troubleshooting, maintenance and cleaning.
- The operating company must ensure that all persons who work with the hydraulic bottle jack, have read and understood this manual. Furthermore she must instruct the staff in regular intervals and inform them about the hazards.
- The operator must provide the necessary protective equipment to the staff and order the use of the necessary protective equipment in a binding way.

Furthermore the operating company is responsible to keep the hydraulic bottle jack always in a technically flawless state. Thus, the following applies:

- The operator must ensure that the maintenance intervals described in this manual are kept.
- The operator must have all safety devices checked regularly for their good working order and their integrity.

2.3 Requirements to staff

Qualifications

The different tasks described in this manual represent different requirements to the qualifications of the persons entrusted with these tasks.



WARNING!

Danger in case of insufficient qualification of the staff!

Insufficiently qualified persons cannot estimate the risks while using the hydraulic bottle jack and expose themselves and others to the danger of severe or lethal injuries.

- Have all works only performed by qualified persons.
- Keep insufficiently qualified persons out of the working area.

Only persons reliable working procedures can be expected from, are allowed to perform all works. Persons the responsiveness of which is affected by e. g. drugs, alcohol or medication, are not allowed to work with the machine.

The qualifications of the personnel for the different tasks are mentioned below:

Operator

The operator is instructed by the operating company about the assigned tasks and possible risks in case of improper behaviour. Any tasks which need to be performed beyond the operation in the standard mode must only be performed by the operator if it is indicated in these instructions and if the operating company expressly commissioned the operator.

Qualified personnel

Due to their professional training, knowledge and experience as well as their knowledge of relevant regulations the specialist staff is able to perform the assigned tasks and to recognise and avoid any possible dangers themselves.

Manufacturer

Certain works may only be performed by specialist personnel of the manufacturer. Other personnel is not authorized to perform these works. Please contact our customer service for the execution of all arising work.

2.4 Personal protective equipment

The personal protective equipment serves to protect persons against impairments of safety and health while working. The staff member has to wear personal protective equipment while performing different tasks on and with the machine which are indicated in the individual paragraphs of these instructions.

The personal protective equipment is explained in the following paragraph:



Protective gloves

The protective gloves serve to protect the hands against sharp components as well as against friction, abrasions or deep injuries.



Safety boots

The safety boots protect the feet from being crushed, falling parts and slipping over on slippery ground.



Protective clothes

The protective clothes are made of a tightly fitted fabric without the protruding parts of low tear strength.

2.5 General safety regulations



NOTE!

In each case, the regulations or guidelines and standards valid in the country of use must be observed (in the respectively valid version).

In Germany at the moment DIN EN 1494: 2000 + A1: 2008: Mobile or mobile lifting equipment and related equipment. EC Machinery Directive 2006/42 / EC

Setup, modification, maintenance and inspection work may only be carried out by trained specialist personnel when the machine has been shut down. For safety reasons, unauthorised modifications and reconstructions to the machine are not permitted.

In the case of hydraulic repairs the accumulator at the accumulator facility must be emptied beforehand

The operating personnel must always ensure that the maximum load capacity is not exceeded.

Only use the hydraulic bottle jack on firm and level ground.

Never work under a lifted vehicle unless you have taken further safety measures such as support frames, wheel lock, etc. to prevent the vehicle from rolling away, slipping or tipping over.

Do not disassemble the jack. Dismantling leads to subsequent malfunctions and defects. Risk of accident!

Do not change the setting of the safety valve.

Before each use of the hydraulic bottle jack, check it for proper function, in particular for leaking hydraulic oil, tight fit of all screws and valves and complete oil filling.

Only use the hydraulic bottle jack to lift vehicles in accordance with their operating instructions. Improper use of the jack can result in serious material and health damage and will void the warranty.

2.6 Safety instructions for the operating personnel

Any operation that impairs the safety of the machine must be avoided.

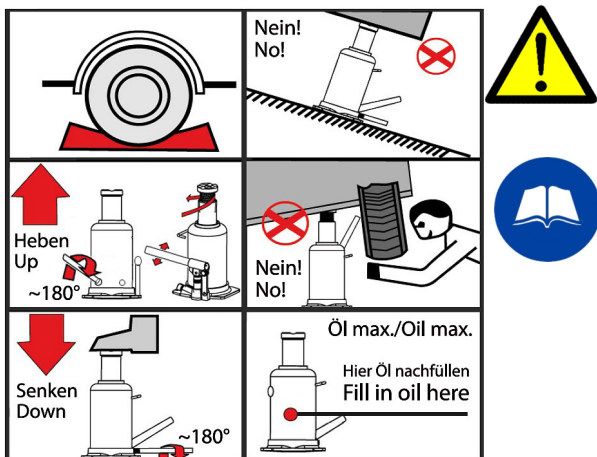
The operator must also ensure that only authorised persons working on and with the hydraulic bottle jack.

The operator is responsible for ensuring that the hydraulic bottle jack is inspected at least once before use (daily) for externally visible damage and defects. Any changes that occur (including operating behaviour) that affect safety must be reported immediately.

The operator must ensure that the machine is only ever operated in perfect condition. If necessary, the operator must oblige the operating personnel to wear protective clothing etc.

No safety devices may be disassembled or put out of operation (even at this stage, specific reference must be made to impending hazards, e.g. the threat of severe crushing). If it is necessary to remove safety devices during set-up, repair and maintenance, the safety devices must be reinstalled immediately after completion of the maintenance or repair work.

2.7 Safety labels on the hydraulic bottle jack



HSWH 30 und HSWH 50



Fig. 1: Safety labels

3 Intended use

The hydraulic bottle jack is used exclusively for vertical lifting of vehicles up to the specified maximum load. It is not intended for horizontal use!!

The hydraulic bottle jack may only be operated by instructed persons

Intended use also includes compliance with all information in this manual. Any use beyond the intended use or other use is considered misuse. Using the device in other areas is considered improper use. Stürmer Maschinen GmbH accepts no liability for design and technical modifications to the hydraulic bottle jack. Claims of any kind for damage due to improper use are excluded.

3.1 Foreseeable misuse

If the hydraulic bottle jack is used in accordance with its intended use, no reasonably foreseeable misuse is possible which could lead to dangerous situations involving personal injury.

3.2 Residual risks

Even if all safety regulations are observed, the following residual risks remain during operation of the hydraulic bottle jack.

All persons working with the hydraulic bottle jack must be aware of these residual risks and follow the instructions to prevent these residual risks from leading to accidents or damage:

During operation there is a risk of crushing the upper and lower limbs.

4 Technical Data

4.1 Table

Model	HSWH 3	HSWH 30	HSWH 50
Load-carrying capacity	3 t	3 t	5 t
Min. height (A)	194 mm	188 mm	207 mm
Stroke (B)	118 mm	118 mm	127 mm
Adjustment height (C)	60 mm	60 mm	70 mm
Lift height (D)	372 mm	363 mm	402 mm
Footprint (ExF)	92 x 100 mm	108,5 x 87 mm	117 x 97 mm
Weight	3,6 kg	2,8 kg	3,7 kg
Number of lifts for max. height		50	58

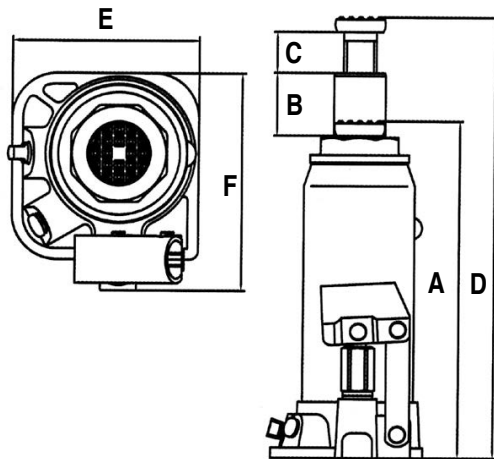


Fig. 2: Dimensions

4.2 Type plate



Fig. 3: Type plate HSWH 3

5 Transport, packaging, storage

5.1 Transport

Check the hydraulic bottle jack on delivery for any visible transportation damage. If you notice any damage to the device please report this immediately to the carrier or dealer.



NOTE!

The hydraulic bottle jack should be protected from humidity.

5.2 Packaging

All used packaging materials and packaging aids are recyclable and should be taken to a materials recycling depot to be disposed of.

The delivery packaging is made of cardboard, so please dispose carefully by having it chopped up and given to the recycling collection.

The film is made of polyethylene (PE) and the cushioned parts of polystyrene (PS). Deliver these substances to a collection point for recyclable materials or to the waste disposal company which looks after your region.

5.3 Storage

Oil the hydraulic bottle jack and store it in a frost-free and dry environment. Only store the jack with the cylinder retracted and the drain valve closed. Do not place anything on the hydraulic bottle jack.

6 Description of device

Illustrations in this manual may differ from the original.

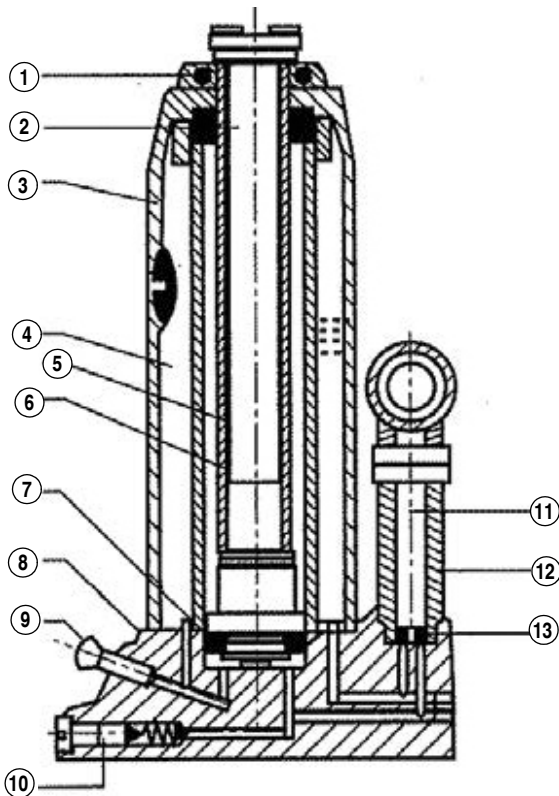


Fig. 4: Description of device

1. Upper cover
2. Extension screw
3. Oil tank
4. Hydraulic oil
5. Piston
6. Hydraulic cylinder
7. Gasket
8. Jacking foot
9. Drain valve lever
10. Safety valve
11. Pump piston
12. Pump-housing
13. Sealing ring

7 Before the first use

Step 1: Connect the pump and the pressure cylinder to the pressure line and check the stability of the connection.

Step 2: Carry out a function test with the hydraulic bottle jack. Close the drain valve (turn clockwise). To do this, pump the piston up to the maximum height and then let it move back slowly by slowly opening the release valve (turn counterclockwise).

8 Operation



ATTENTION!

- Avoid overload. Check that the load never exceeds the value indicated on the type plate
- Never use a rusted or damaged hydraulic bottle jack.



Use protective gloves!



Wear safety boots!



Wear protective clothes!



NOTE!

- The operating personnel must be familiar with the operation and the functions as well as the safety regulations when operating the hydraulic bottle jack
- The operator must ensure the necessary instruction of the operating personnel.

All work for commissioning the hydraulic bottle jack may only be carried out by specialists.

All functions of the hydraulic bottle jack must be checked.

8.1 Operating conditions

The work area must be dry, fire and explosion proof and free of corrosive and toxic substances.

8.2 Test run

Check the hydraulic bottle jack for tightness of the hydraulic system and for any damage.

Perform a test with all functions checked before operation.

8.3 Workflow

8.3.1 Lifting the vehicle

Step 1: Close the open drain valve (Pos. 2, Fig. 5) by turning the narrow end of the pump lever to the right (Pos. 1, Fig. 5).

Step 2: Place the jack under the vehicle to be lifted, under the lifting points intended for the jack (refer to your vehicle's owner's manual). If necessary, turn the extension screw (Pos.3, Fig.5) counter-clockwise out of the jack until it touches the vehicle. The exact mounting point can be determined as follows.

Step 3: Insert the pump lever (Pos. 1, Fig. 5) in the pump (Pos. 4, Fig. 5) and move the lever evenly up and down. Lift the vehicle up to the desired height.

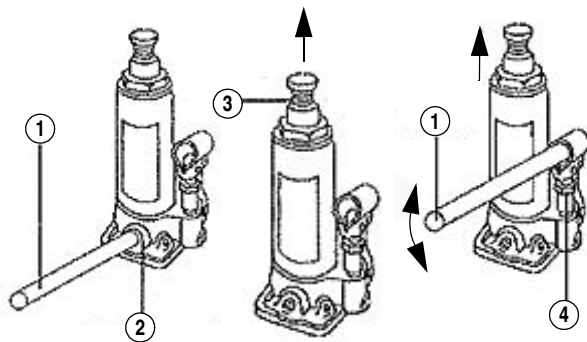


Fig. 5: Workflow



WARNING!

Rapid opening of the drain valve can lead to high loads and damage to the hydraulic system. This could cause personal injury and material damage.



CAUTION!

Risk of crushing!

When working with the hydraulic bottle jack, it can cause bruising of the upper and lower limbs.

Step 4: Secure the vehicle with support blocks and wedge the wheels.

8.3.2 Lower the vehicle

Step 1: Open the drain valve by inserting the narrow end of the pump lever into the valve and slowly turning the pump lever to the left.

Step 2: When the vehicle is completely lowered, pull the jack out underneath. If the extension screw is unscrewed, turn it clockwise to the stop before removing the jack.

8.3.3 Refill of the hydraulic oil

Step 1: Position the hydraulic bottle jack vertically.

Step 2: Check that the jack is completely lowered. If necessary, lower it as far as it will go.

Step 3: Remove the oil filler plug.

Step 4: Fill high-quality hydraulic oil into the cylinder up to the lower edge of the filling opening (Fig. 6).

Do not overfill!

Step 5: Replace the filling plug into the housing.

Step 6: If necessary, drain air from the hydraulic system (see section "Venting").

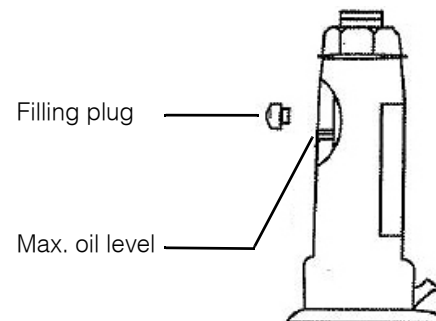


Fig. 6: Refill of the hydraulic oil

8.3.4 Lubrication

Regularly lubricate the moving parts and the thread of the extension screw for a safe operation of the hydraulic bottle jack.

8.3.5 Venting

After some time, air bubbles can penetrate the jack's hydraulic system and impair its function.

Venting the hydraulic cylinder is carried out as follows:

- Step 1: To open the drain valve, rotate it counterclockwise one full turn.
HSWH 3: Remove the filler plug.
- Step 2: Pump eight times with the pump lever over the complete stroke range.
- Step 3: Close the drain valve by turning the pump handle clockwise. HSWH 3: Insert the filling plug.
Pump the lifting arm to its maximum height and then pump several times more to remove the trapped air.
- Step 4: Open the oil filling plug on the hydraulic unit slowly and carefully to remove all entrapped air.
- Step 5: Turn the release valve counterclockwise one full turn and lower the stamp to its lowest position.
- Step 6: Close the drain valve by turning it clockwise.
- Step 7: Check the hydraulic bottle jack for function, if necessary repeat the steps.

8.3.6 Rust prevention

When the jack is not in use, take precautions against rusting of the bare parts by fully lowering the stamp, screwing in the extension screw and lowering the pump. Avoid contact of the moving parts with dirt. If the jack has nevertheless become dirty, clean it carefully and grease the moving parts.

9 Care, maintenance and repair

9.1 Care by cleaning

The hydraulic bottle jack should always be kept in a clean condition.



Wear protective clothes!



NOTE!

Never use strong cleaning agents for any cleaning work. This may damage or destroy the device.

All plastic parts and painted surfaces should be cleaned with a soft, damp cloth and a little neutral cleaner.

Remove excess grease or leaked oil with a dry and lint-free cloth.

9.2 Maintenance, service and repair



ATTENTION!

Maintenance and repair work may only be carried out by qualified personnel.

If the hydraulic bottle jack does not work properly, contact a dealer or our customer service. The contact details can be found in chapter 1.2 Customer Service.

All safety and protection equipment must be reinstalled immediately after the repair and maintenance work has been completed.

Step 1: Check the hydraulic bottle jack for external damage and the piston for signs of rust before each use.

Step 2: Lubricate all moving parts of the hydraulic bottle jack regularly (recommended value 1x monthly) with high quality grease and oil the piston.

Step 3: Check the hydraulic oil level at regular intervals after unscrewing the oil filler plug. If necessary, top up the hydraulic oil and then bleed the hydraulic system.



ATTENTION!

Only use the hydraulic oil of the same type!
Never mix the different types of oil!

Step 4: Make sure that all safety instructions on the hydraulic bottle jack are clearly readable.

9.3 Oil changes

In order to ensure that the hydraulic bottle jack functions properly, change the oil regularly.

Step 1: Retract the pistons completely. Provide an oil collection container.

Step 2: Unscrew the filler plug, remove the old oil and drain it into the container. Make sure that no contamination can enter the hydraulic circuit!

Step 3: After completely draining off the old oil, set up the jack and top up with new hydraulic oil. Only use new, clean hydraulic oil for this purpose.



ATTENTION!

Only use the hydraulic oil of the same type!
Never mix the different types of oil!

Step 4: Screw in the filler plug. Then bleed the hydraulic system.

Step 5: Check the hydraulic bottle jack function.



NOTE!

The extracted oil must be disposed of separately.
The lubricant manufacturer provides information on this.

10 Disposal, recycling of used devices

Please take care in your own interest and in the interest of the environment that all component parts of the machine are only disposed of in the intended and permitted way.

10.1 Decommissioning

Immediately decommission used machines in order to avoid later misuse and endangering of the environment or of persons.

Step 1: Eliminate all environmentally hazardous operating materials from the used device..

10.2 Disposal of lubricants



Remove any leaking, used or excessive grease at the lubricating points.

The disposal instructions for the lubricants used are provided by the lubricant manufacturer. If necessary, ask for the productspecific data sheets

11 Troubleshooting

Fault / Possible cause	The hydraulic bottle jack can not be adjusted to the max. pump height.	The hydraulic bottle jack does not lift the defined	The hydraulic bottle jack will release itself under load	Oil leaks out of the oil screw	Heavy pumping	Pump lever moves up and down under load	The hydraulic bottle jack does not reach the full height	The hydraulic bottle jack is leaking, hydraulic oil has leaked.
Drain valve is not properly closed.		X	X					
Insufficient oil. Top up the hydraulic oil.		X			X		X	
Too much oil. Drain oil from the filling opening.				X				
Air in the cylinder. Open the drain valve and pump several times. Close the drain valve. Repeat several times if necessary.		X			X			
Valves are closed or dirty. To flush them freely again, push the piston down and close the drain valve. Lift the piston several times by hand, open the drain valve.		X	X		X			
Insufficient oil in the tank. Check the oil level (see chapter "Maintenance") and top up if necessary.	X							
Gaskets are worn out. Replace worn gaskets, check all gaskets if necessary.								X

12 Spare parts



DANGER!

Risk of injury due to use of incorrect spare parts!

The use of incorrect or faulty replacement parts may cause danger to the operator and cause damage and malfunction.

- Only use original spare parts from the manufacturer or replacement parts approved by the manufacturer.
- In case of doubt, always contact the manufacturer.



Tips and recommendations

If non-approved spare parts are used, the manufacturer's warranty expires.

12.1 Spare parts order

The spare parts can be obtained from the dealer or directly from the manufacturer. The contact details are in chapter 1.2 Customer Service.

Specify the following key data for inquiries or ordering spare parts:

- device type
- item number
- Position number
- Construction year
- amount
- desired shipping method (post, freight, sea, air, express)
- delivery address

Spare parts orders without above given information can not be considered. If the shipping method is missing, shipping will be at the discretion of the supplier. Information on the device type, article number and year of manufacture can be found on the type plate, which is attached to the device.

Example

The pump lever for the hydraulic bottle jack HSWH 30 must be ordered. The pump lever has in the spare parts drawing the number 23.

When ordering spare parts, send a copy of the spare parts drawing with marked component (pump handle) and marked position number (23) to the authorised dealer or to the spare parts department and provide the following information:

Type of device: Hydraulic Bottle Jack HSWH 30

Item number: 6200003

Position number: 23

The item number of your device:

HSWH 3	6201000
HSWH 30	6200003
HSWH 50	6200005

The following drawing should help you to identify necessary spare parts in case of service.

12.2 Spare parts drawing HSWH 30 and HSWH 50

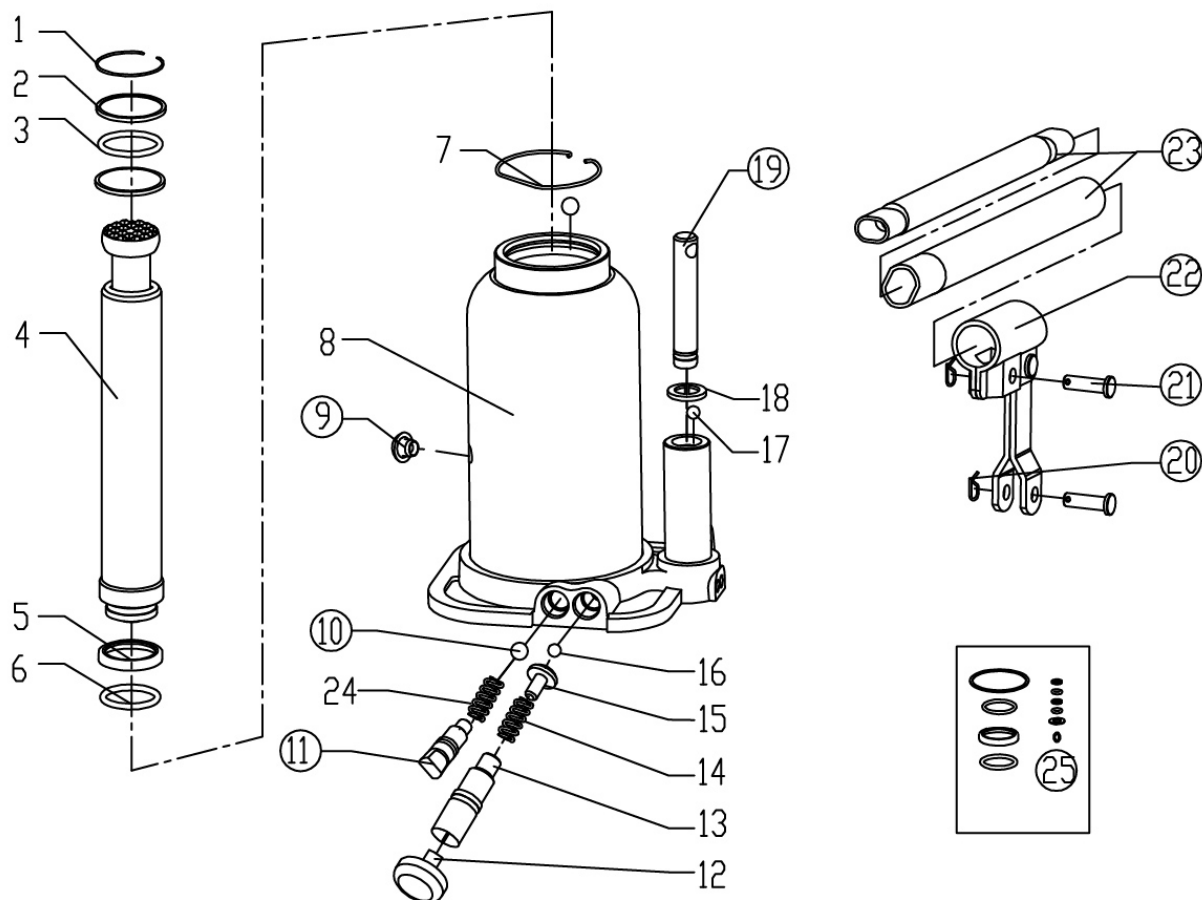


Fig. 7: Spare parts drawing HSWH 30 and HSWH 50

Pos.	Description	Qty.	Pos.	Description	Qty.
1	Round wire snap ring	1	14	Spring	1
2	Rectangular ring	2	15	Spring holder	1
3	O-Ring	1	16	Ball bearing Ø 3 mm	1
4	Stamp assembly	1	17	Ball bearing Ø 5 mm	2
5	Washer	1	18	Washer	1
6	O-Ring	1	19	Pump piston	1
7	Round wire snap ring	1	20	Grooved pin	2
8	Hydraulic unit	1	21	Pin	2
9	Filling plug	1	22	Pump lever holder	1
10	Ball bearing	1	23	Pump lever	1
11	Drain valve	1	24	Spring	1
12	Plastic plug	1	25	Gasket	1
13	Safety valve	1			

13 EU Declaration of Conformity

According to machine directive 2006/42/EC Annex II 1.A

Manufacturer/distributing company:

Stürmer Maschinen GmbH
Dr.-Robert-Pfleger-Str. 26
D-96103 Hallstadt

hereby declares that the following product

Product group:

Unicraft® Workshop technology

Type of machine:

Hydraulic Bottle Jack

Designation*:

- ☐ HSWH 3
☐ HSWH 30
☐ HSWH 50

Item number:

6201000
6200003
6200005

Serial number*:

Year of manufacture*:

20_____

* fill these fields according to the information on the type plate

complies with all relevant provisions of the above mentioned directive as well as the other applied directives (below) - including their applicable modifications at the time of the declaration.

The following harmonized standards were applied:

DIN EN 1494:2009-05

Mobile or movable jacks and associated lifting equipment

Person responsible for the documentation:

Kilian Stürmer, Stürmer Maschinen GmbH,
Dr.-Robert-Pfleger-Str. 26, D-96103 Hallstadt

Hallstadt, 03.02.2020



Kilian Stürmer
Managing Director

