










Operating manual hydraulic workshop press SP50HEL / SP75HEL



**Read and understand the operating instructions before using
this machine!**

Meaning of symbols used on the machine




 1179 -ISO Hand Crush Force from Above	Risk of crushing from above
 6017 -ISO Read Operator's Manual	Read the manual before use
 6018 -ISO Consult Technician Manual For Proper Service Procedures	Read the user manual for correct service procedure
	Wear protective clothing
	Wear the correct safety gloves
	Wear the correct safety helmet
	Wear the correct safety shoes
	Wear the correct ear protection equipment

1 Important information

1.1 Security information

1.1.1 Warning symbols used in this manual.

The warning symbols used in this manual are described in the list below. Dangerous situations can arise when operating or maintaining the machine. These symbols indicate the degree of danger that arises when using the machine, and the precautions to be taken to avoid dangerous situations.

Meaning	Symbol	Description
Danger symbol		Is <u>arises</u> an extremely dangerous situation which can result in serious injury if the instructions are not followed.
Warning symbol		Is <u>able to</u> a hazardous situation could result which could result in serious injury if the instructions are not followed.
Possible occurrence of a hazardous situation if the instructions are not followed		Non-compliance with the instructions can lead to a dangerous situation with possible injuries if you don't pay attention.
Attention	NOTE:	Important supplied text which is very important.

1.1.2 Safety instructions

Important

Please read this manual carefully and understand it. Strictly follow the safety rules and related instructions for operating or servicing the unit.

Possible users

This manual must be available to all persons who assemble, use, maintain, adjust or perform other work on the unit.

Scope of application

The machine described is designed for the disassembly and assembly of smaller parts that must be fitted or removed by means of a press fit, and may not be used for any other purpose.

Operators

The installation, operation and maintenance of the machine may only be carried out by qualified persons. Qualified persons are understood to mean those who have sufficient technical competence and are familiar with the safety information and apply it when installing, operating and maintaining the unit and are aware of the possible hazards.

1.1.3 Hazards



The safety of the operators must come first and have the highest priority. Thorough reading and understanding of the instruction manual is very important for working, maintaining, inspecting and installing the machine.



Basic safety rules

Failure to follow the rules below can result in serious injury or even death.

- 1 Periodic inspection or maintenance should be carried out by two persons with sufficient knowledge of possible hazards.
- 2 Read and understand the safety rules
- 3 Read and understand the associated operating rules
- 4 Place clearly visible signs on the machine when it is serviced or inspected.
- 5 Bring a list to the machine with important telephone numbers.
- 6 Know how to act in case of an emergency (refer to the emergency procedure) know the location of the first aid facility and fire extinguishing equipment and know how to operate them.
- 7 Make everyone in the area aware when using, maintaining or inspecting.
- 8 Have clean tools and jigs during maintenance or inspection.
Before using the machine, inspect that no tools or jigs are present in or on the machine. For your own safety, remove **NEVER** tools etc. from a running machine and remember **SAFETY FIRST**.
- 9 The operator must wear the correct personal protective equipment (PPE) such as; safety clothing, goggles, gloves etc. when working with the unit.
- 10 To prevent injuries when moving heavy units or parts, this should be done by two people.
- 11 Before commissioning the machine, first draw the attention of persons in the vicinity to this.
- 12 Take care not to get caught between moving parts.
- 13 Use alone **suitable means** for proper positioning of the workpiece in the machine.
- 14 To avoid accidents, be alert when using the machine starts working. Be concentrated while working with the workshop press.

- 15 Make sure that the workpiece is perfectly aligned with the cylinder.
- 16 Use the press only for the purpose for which it was designed.
- 17 Regularly check for mechanical deformation. If deformation is found, first have the press repaired by qualified persons.
- 18 Never make any changes to the machine. This can result in life-threatening accidents.
- 19 Use good personal protection equipment (PPE) safety goggles, safety shoes, etc.

1.1.4 Safety instruction



- 1 For maintaining pressurized parts on the machine **must** ensure that it is relieved. Also make sure not to get into the immediate area where the pressure release is taking place and remember, do not carry out any work until the pressure is no longer present.
 - 2 If it is necessary to change dies after use, the operator must use the correct gloves or tools to prevent injuries.
- Note;** Stop the machine immediately if it stops working properly. Consult a technician to repair the machine. The machine must no longer be used without the approval of a qualified person.



Be careful when you are near this warning sign on the machine. Handle the materials used in the machine in a safe manner. The safety checklist and the types of lubricating oil to be used, which are supplied with the machine, must be kept in a suitable place.



1.1.5 Prohibited dangerous actions

This chapter describes examples of dangerous actions that can occur when the machine is not in use, but during maintenance and inspection. To avoid accidents, carefully read the instructions associated with the type of maintenance and inspection work.

1.1.6 Environmental pollution

If resources are used that fall under environmentally harmful substances, ensure that they are disposed of correctly. If there are rules within your company for proper disposal, apply them.



Check that there are no persons in the immediate vicinity before using the machine again.

1.3 Similarity between standards

Guidelines of the European Community	Manufacturers of Incorporation	Harmonized Standards
Machinery Directive 2006/42/EC	Declaration as recognition of legal personality	Annex I of Machinery Directive 98/37/EC

2.1 Scope of application

The machine as described is suitable for production and assembly of spare parts. The unit can be used for pressing, sizing, assembling and straightening smaller parts in processes and should not be used for any other purpose.

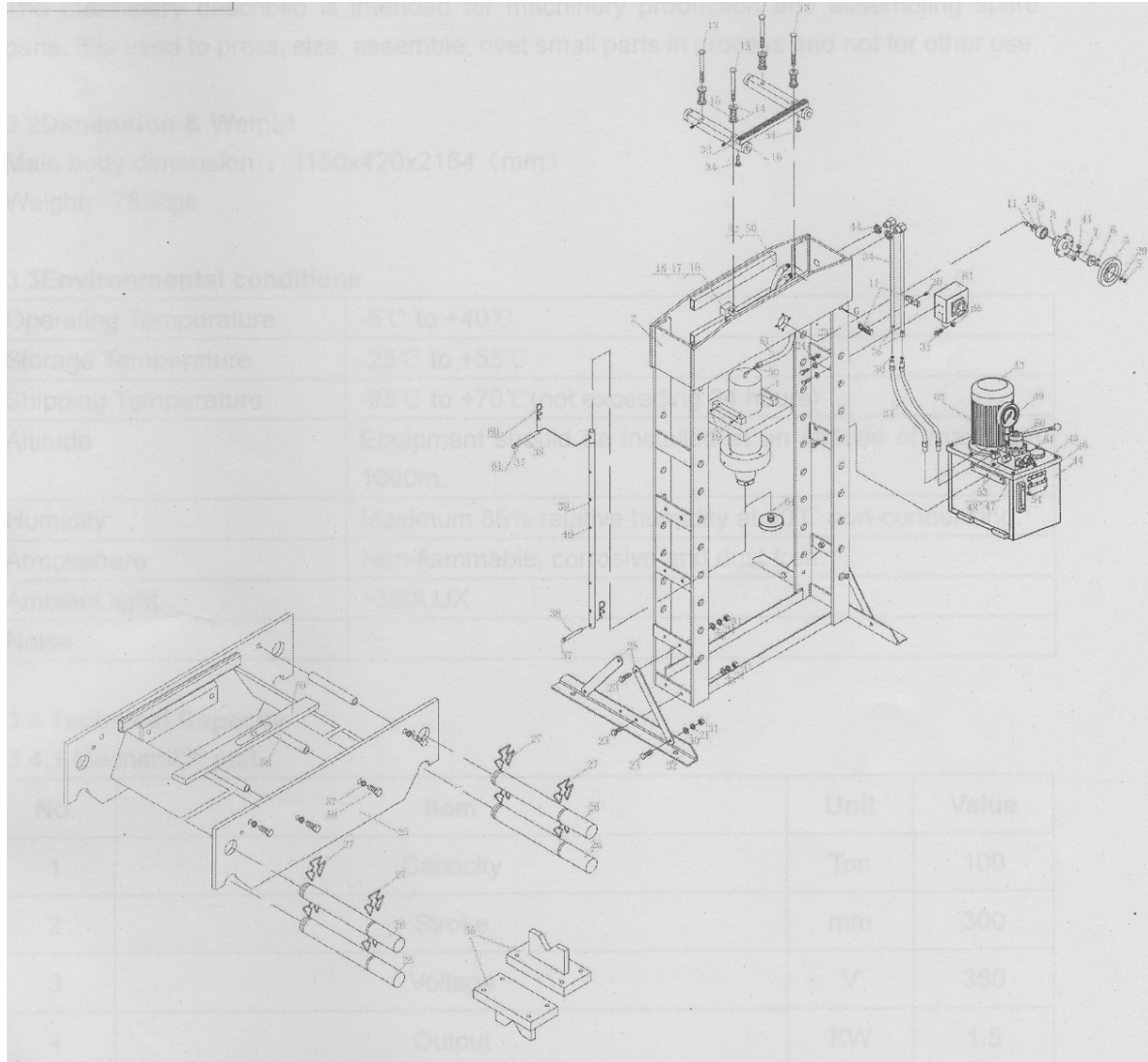
2.3 Operating Conditions

Ambient temperature	-5 to +40 ⁰ C
Storage temperature	-25 to +55 ⁰ C
Transport temperature	-25 to 70 ⁰ C no more than 24 hours
Operating height	The unit may be installed at a maximum height of 1000 Mtr
Relative humidity	Max. 85%
Atmospheric conditions	Non-flammable, corrosive and dust-free conditions
Workplace lighting	> 300 LUX
Sound intensity machine	< 85 dB (C)

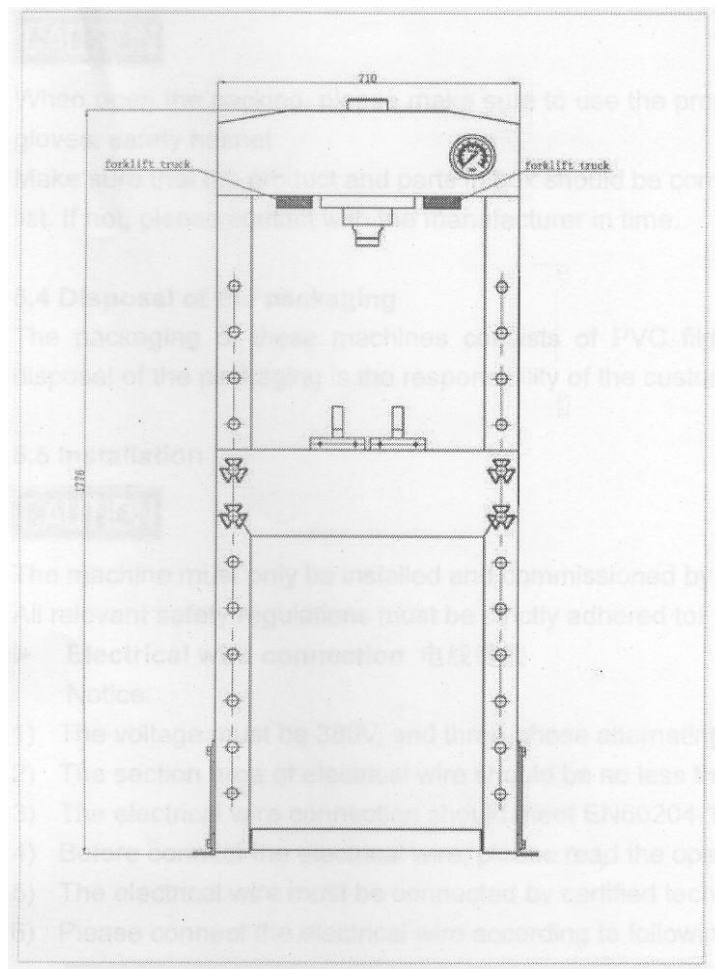
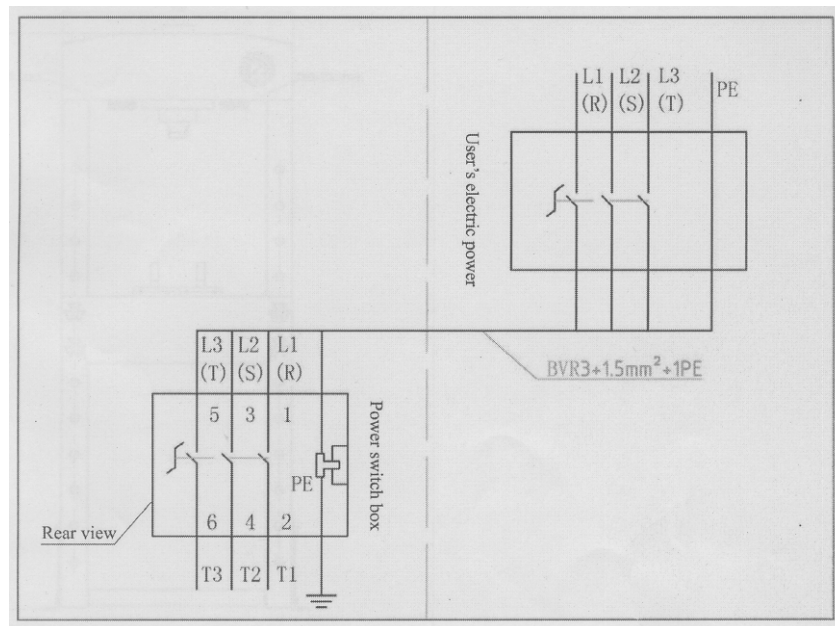
Specifications 100 Ton version

No.	Designation	Unit	Value
1	Capacity	Ton	75
2	Press distance	mm	250
3	connection voltage	Volt	380
4	Assets	KW	1,5
5	Working range	mm	0 – 882
6	Press compressed air	MPa	0,75-0,85
7	Work bed size (width)	mm	
8	Speed	mm/sec	
9	Maximum height	mm	2044
10	Width and length	mm	1088 in 325
11	Weight	Kg	491

Composition drawing 100 Ton type



Electrical connection diagram 3 x 380 Volt



Height = 1776mm

Width = 710 mm

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Transport

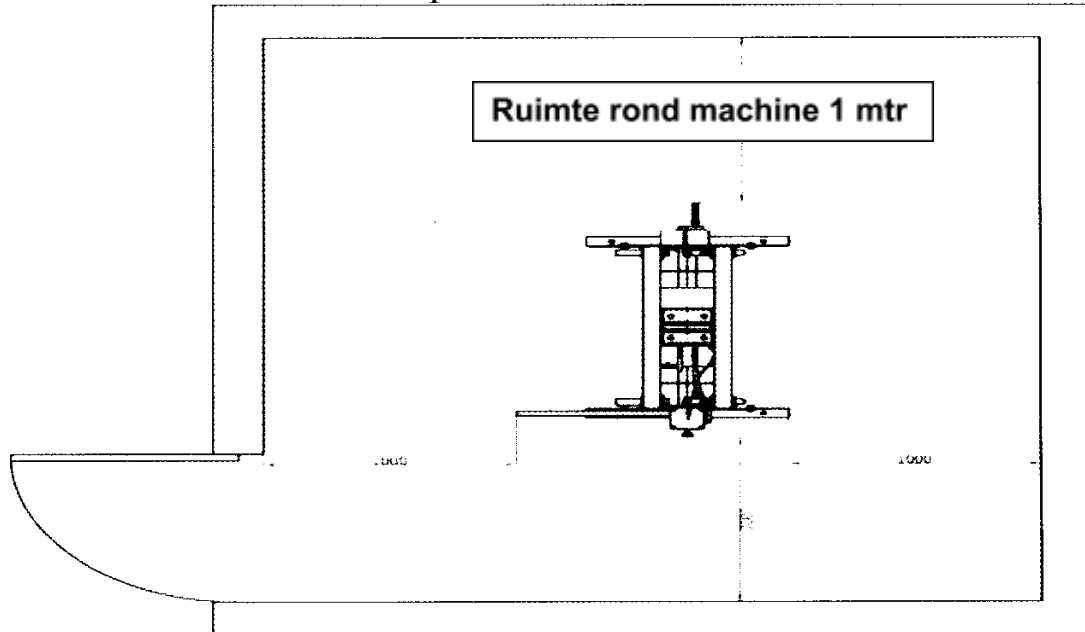
The units are too heavy to transport without aids. Therefore, use a suitable means of transport. The dimensions and weight are described in the list of technical data. When moving the machine you must use safe lifting equipment and read the associated safety instructions.

3.2 Workplace

Make sure there is sufficient space around the machine in connection with safety and working conditions. The environment must be clean and free of flammable and corrosive substances. The room must also be dust-free.



The free space around the machine must be 1 mtr



Unpack the machine

Appropriate means should be used when opening the package. The correct personal protective equipment must also be worn, such as safety goggles, gloves, clothing, a safety helmet, etc.

Check whether the parts present in the packaging are complete according to the parts list. If this should not be the case, you should immediately contact the supplier.

3.4 disposal of the packaging material.

The packaging of this machine consists of PVC film and wooden box. The proper disposal of these materials is the responsibility of the user.



Commissioning the unit

The machine must be installed by persons who have sufficient knowledge and are qualified. All applicable safety rules must be strictly adhered to.

- 1 Connection of the electrical part by a qualified person or company.
- 2 Fill the system with hydraulic oil as described elsewhere.
- 3 Bleed the system by moving the piston up and down 10 times.
- 4 Check the machine for leaks. Be extremely careful with this as the high oil pressure can penetrate the skin. If this happens, see your doctor immediately or go straight to the emergency room at a hospital. This can be a life-threatening situation if medical attention is not sought. Leak detection should preferably be carried out with a piece of cardboard. Always wear safety goggles and gloves.

5 Fix errors

No.	Storing	Cause	Solution
1	The pump works but the piston does not move	1 The oil line to the cylinder is leaking	1 Check the connections for leaks and replace the sealing rings
2	Pump works but piston has insufficient stroke	Too little oil in the system	Check the oil level and top up if necessary
3	Pump not working	Electric line interrupted	Have a qualified person check the installation and repair it if necessary.
4	Pump not working	thermal protection of the engine activated.	Reset the thermal security.
5	Oil leakage	1 Broken or bad sealing ring. 2 Screw connection loose	1 Replace the sealing ring. 2 Tighten the screw connection

6 Maintenance

With intensive daily use, maintenance is necessary every day. Clean the outside of the press with a clean and soft cloth and regularly oil the piston and oil the moving parts of the pump handle.

Do **no** oil to the blocks and bed frame of the workshop press. If the press will not be used for a longer period of time, place it in a dry place and place the piston in the rest position (upper position).

If the operation of the press decreases, bleed the hydraulic system.

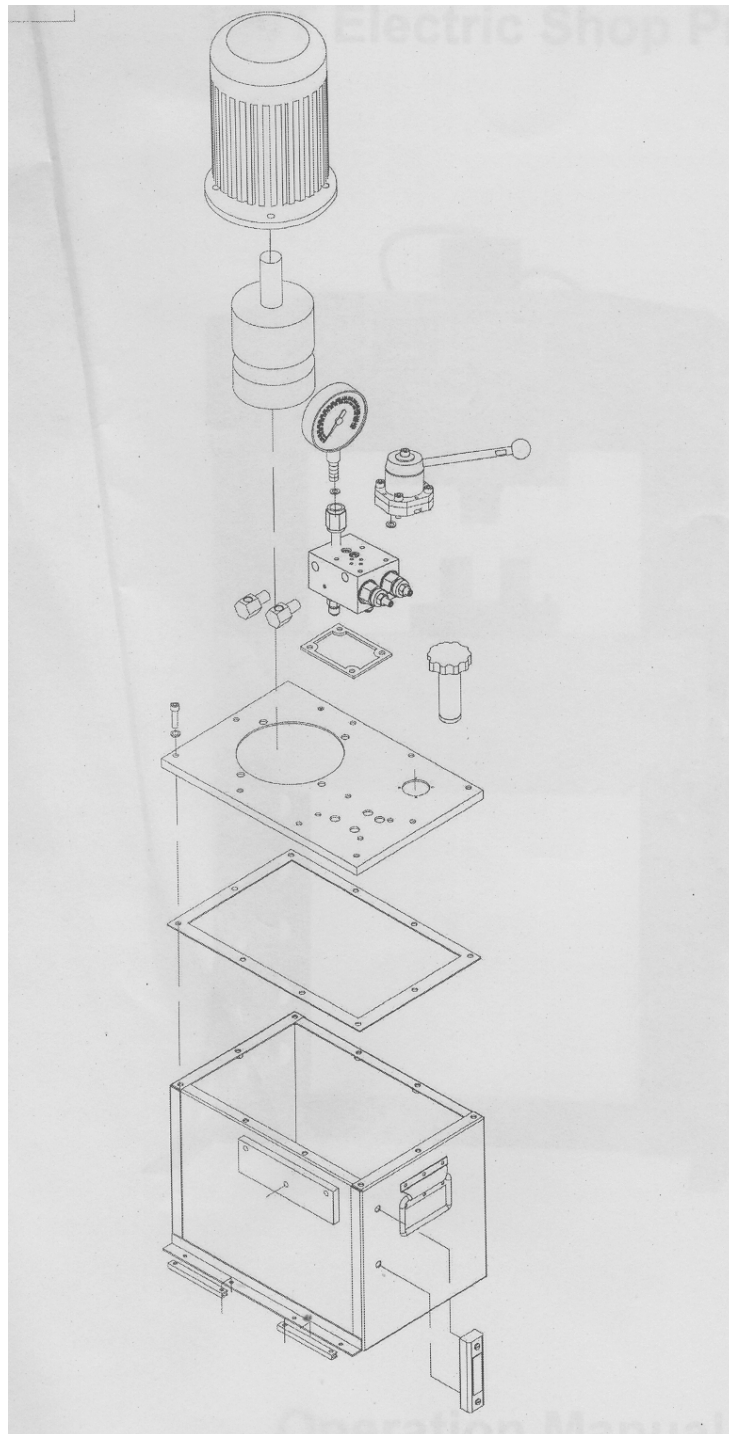
Checking the hydraulic oil level.

Remove the oil filler screw on the top of the reservoir and check whether oil needs to be added.

If it needs to be topped up, top up with 22# (ISO6743) hydraulic oil.

Screw the filling screw back into the reservoir. Bleed the system as described. The machine may only be modified or repaired by qualified persons.

Composition drawing hydraulic pump



**EC Declaration of Conformity - EC- Konformitätserklärung -
Declaration de conformite
- Dichiarazion di conformita- Declaration of conformity**

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Type	Description	Brand
Model	Description	Brand
Type	Description	brand
Type	Description	Brand
Type	Description	Brand
Type	Description	Brand
SP75HEL	Workshop press	Mammuth
	Workshop press	

To which this declaration relates, conform to the following standards:
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De machinerichtlijn, The Machinery Directive, The Machinery Directive, La Directive, La direttiva sulle
machine, La Directiva sobre máquinas:
2006/42/EG

Netherlands, Maasbracht, 24-04-2023

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