Pro-Tech TOOLS

Hydraulic engine hoist, 3t crane



Instructions for use

Translation of the original instructions



Please read these instructions thoroughly before first use. It is the user's responsibility to familiarise themselves with all the instructions necessary for safe use and operation and to understand all the risks that may arise during the operation of the equipment.

WARNING!!!

Due to the continuous improvement of products, the photographs and images included in the instructions are for illustrative purposes only and may differ from the purchased goods.

These differences cannot be grounds for a complaint.

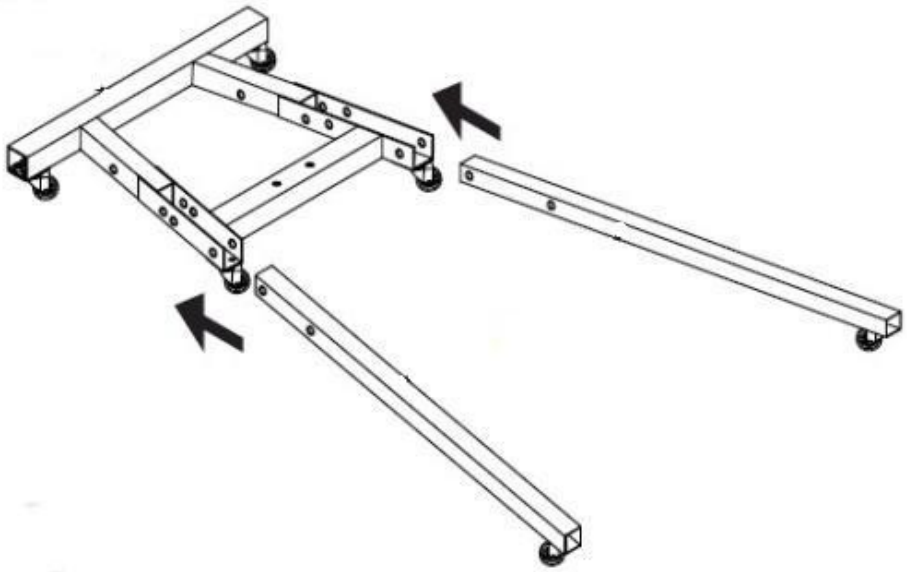
SAFETY RULES

1. Before starting work, read the operating instructions and remember all the safety rules contained therein.
2. It is forbidden to exceed the crane's lifting capacity of 3 tonnes.
3. Place the crane on a stable and level surface.
4. Before transferring, hang the load at the lowest possible level.
5. Only straps and chains with a load capacity greater than the weight of the load being lifted should be used.
6. Do not allow the load to swing or drop sharply during lowering or carrying.
7. It is forbidden to modify the crane in any way on own. Any modifications made by the user will void the warranty.
8. Only use straps or chains with a rated capacity greater than the weight of the load being lifted.
9. It is forbidden to modify the safety valve!
10. Fit the crane legs and boom correctly.
11. Observe the technical data on the crane (the more the boom is retracted, the higher the lifting capacity).
12. Wear protective gloves and goggles when working with the crane.
13. Check the crane for damage before each use.
14. The workplace must be well lit and clean.
15. It is forbidden for other persons to remain in the workplace.
16. When using the crane, work with the utmost care. It is forbidden to operate the crane when the user is tired, under the influence of drugs, alcohol or other intoxicating substances.
17. Do not remove the stickers from the crane! If the labels are illegible, contact the supplier.

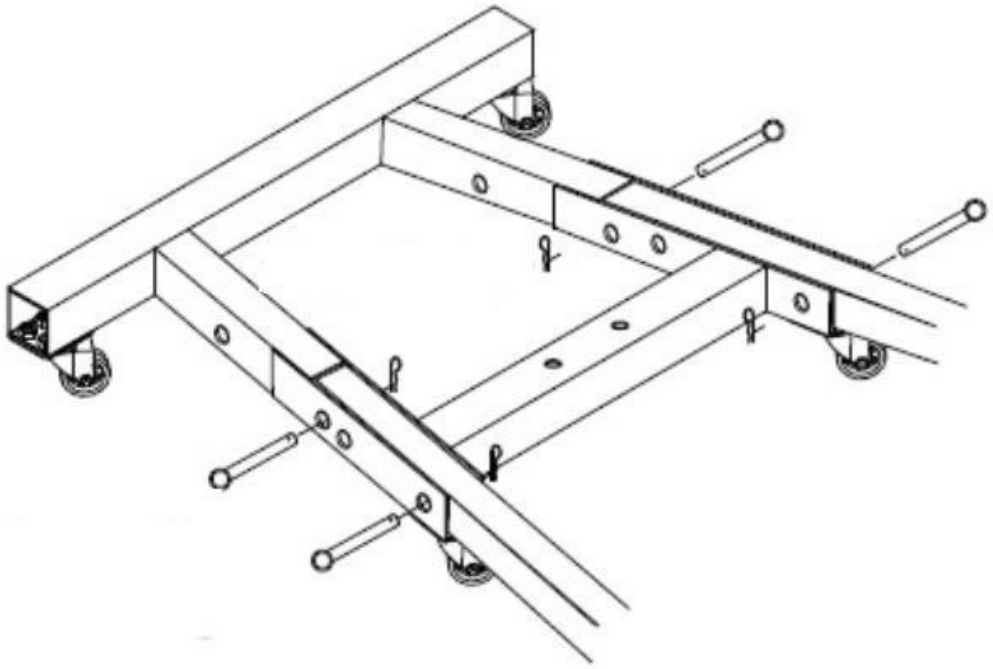
WARNING! THE SAFETY RULES CONTAINED IN THE MANUAL CANNOT COVER ALL POSSIBLE CONDITIONS AND SITUATIONS THAT MAY OCCUR DURING THE USE OF THE CRANE, THEREFORE IT IS NECESSARY TO ALWAYS WORK CAREFULLY WITH THE CRANE.

ASSEMBLY

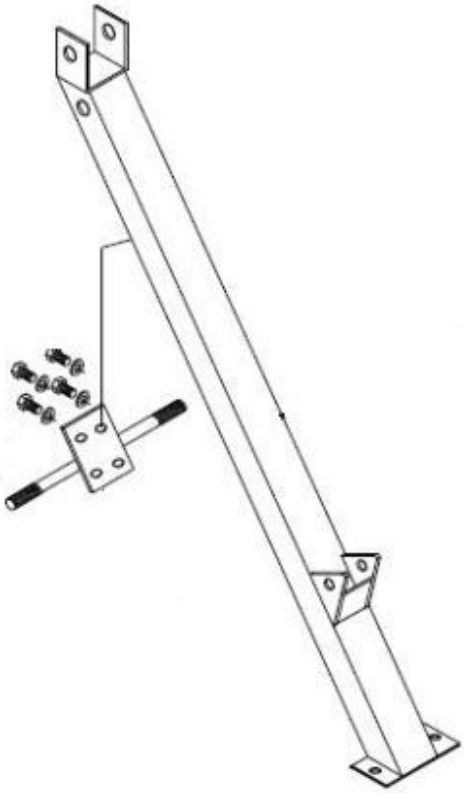
1. Slide the legs into the base of the crane.



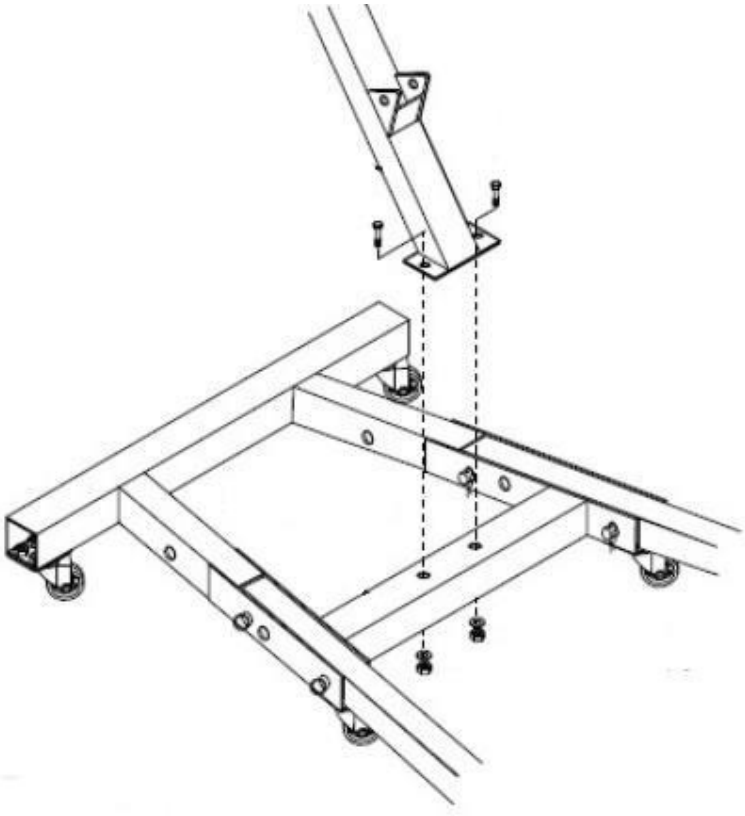
2. Fasten the legs with pins. To fit the pins, lift up the front of the base so that
the holes were in the plane. Once the four pins are fitted, insert one cotter pin through the small hole at the end of each pin until it clicks into place.



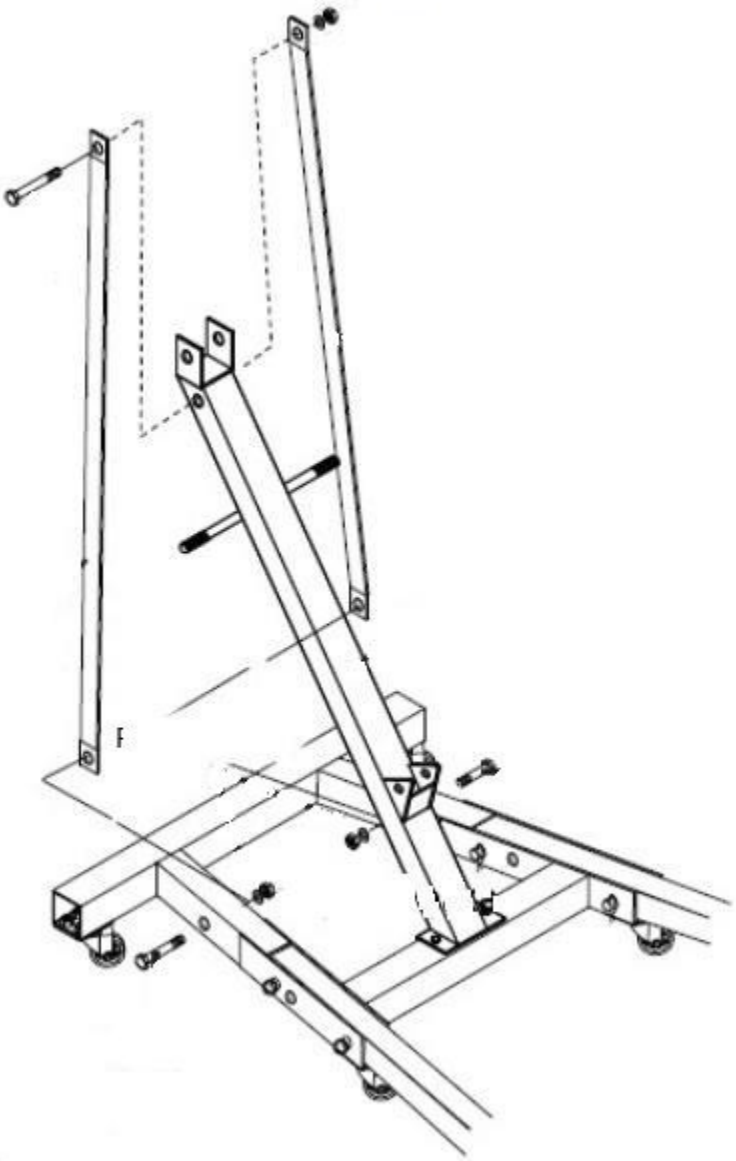
3. Use 4 screws and washers to secure the bracket to the post.



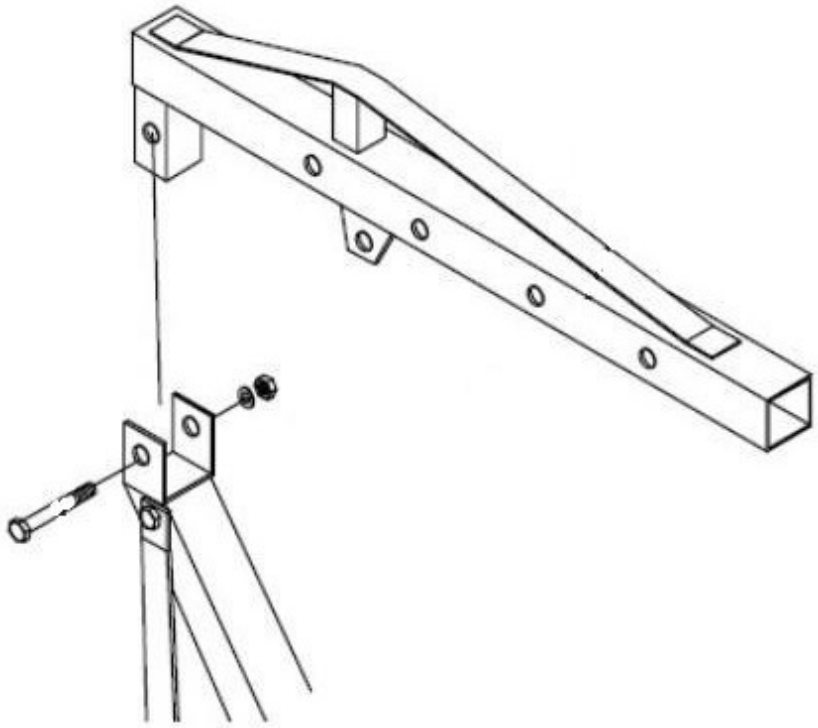
4. Use bolts, washers and nuts to connect the bottom of the post to the base.



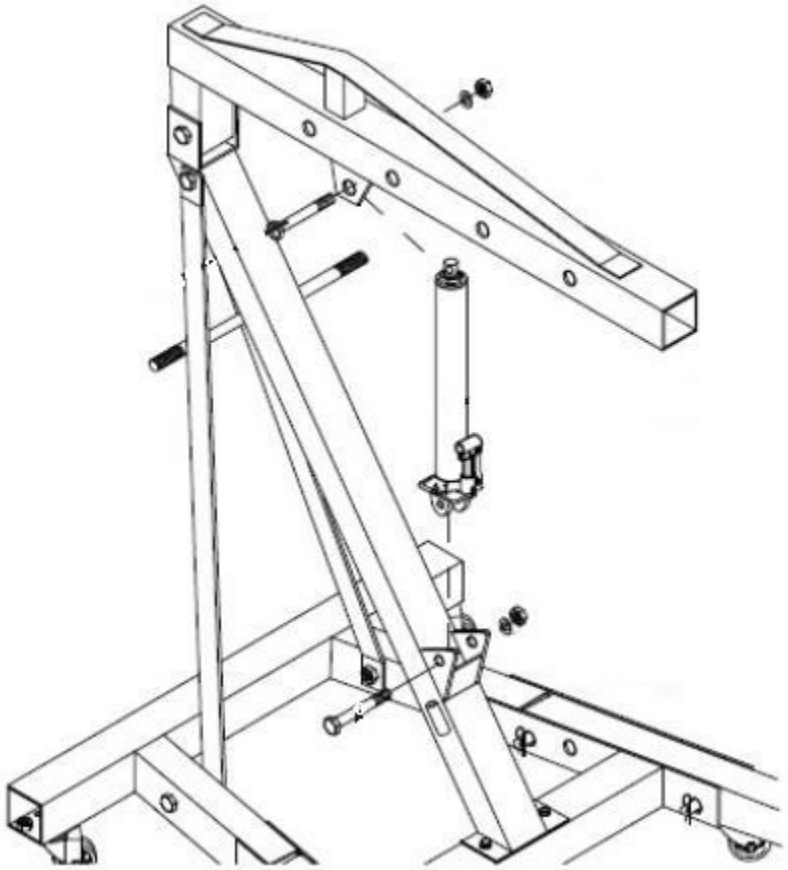
5. To attach the lower part of the support to the frame, use two bolts, two washers and two nuts. Use 1 bolt, 1 washer and 1 nut to attach the upper part of the support.



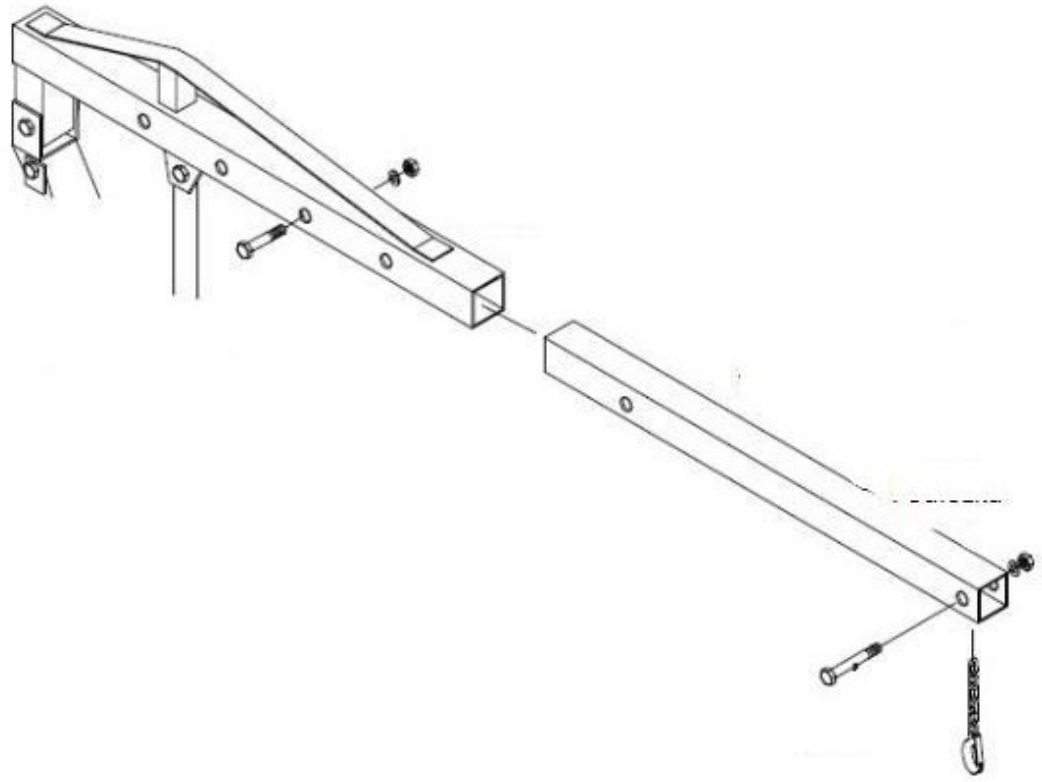
6. To attach the arm to the top of the post, use bolts, washers and nuts.



7. Attach the lower part of the jack to the post with a bolt, washer and nut. Use additional bolts, washers and nuts to secure the upper section of the hoist to the crane arm.



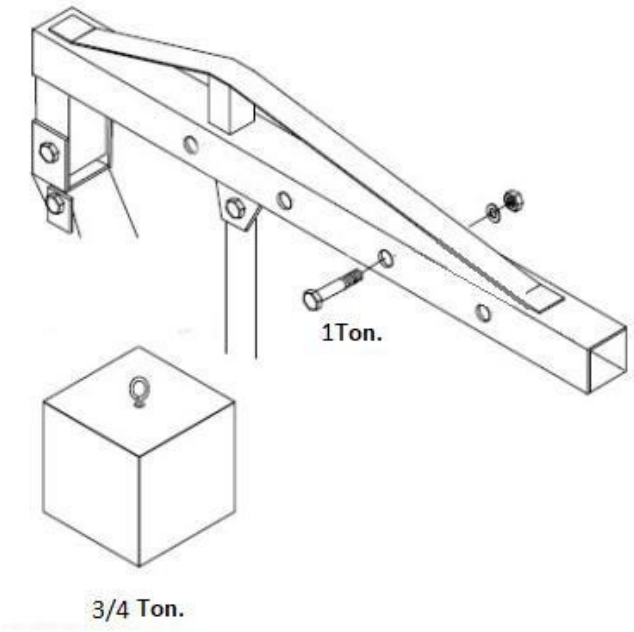
8. Insert the arm extension into the arm. Use the bolt, nut and washer to secure the arm to the correct load. Use bolts, washers and nuts to secure the hook and chain at the end of the crane's extension element.



INSTRUCTIONS FOR USE

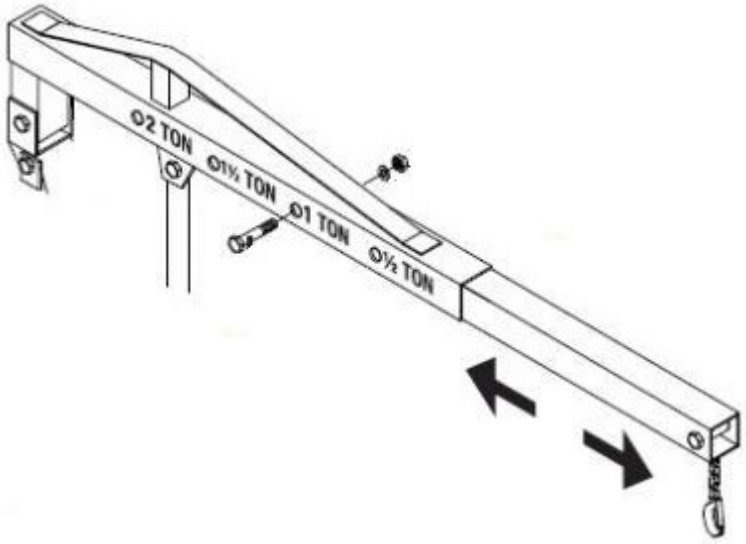
LIFTING AND LOWERING THE LOAD

1. Find the hole on the crane arm whose weight limit is greater than the weight of the load. E.g. if the load weighs 3/4 tonne, locate the hole in the load capacity corresponding to one tonne.



2. Adjust the boom extension so that the hole furthest away on the hook is aligned with the hole on the crane boom. Secure by screwing the bolt through the holes along with the washer and nut.

WARNING! It is forbidden to stand under the crane while the load is being lifted. There is a risk of the load slipping off the hook or chain, which can cause serious injury or loss of life!



3. Move the crane so that the hook and chain are directly above the load you want to lift.

4. Securely attach the hook and chain to the load.

5. To raise the crane arm, turn the hoist release valve clockwise (right), then install the hoist bracket and pump (up and down) until the load is raised to the desired height.

WARNING! Make sure the release valve is fully tightened, otherwise the hoist may not lift the load to the desired height.

6. To lower the load, SLOWLY turn the drain valve .

FOLDING FRAME

WARNING! Do not stack the crane while there is a load on it.

1. Lower the crane completely.

2. Remove the cotter pins from the pins. Remove the front pins. Leave only the rear pins.

3. Raise the crane leg until it rests on the bracket.

4. Insert the front pin into the center hole of the base at each leg and reinsert the cotter pins.

WARNING! WHEN DISASSEMBLING THE FRAME, MAKE SURE THAT AT THE SAME TIME ALL COTTER PINS AND PINS ARE REINSTALLED IN THE CORRECT PLACE.

VENTING

IMPORTANT! BEFORE USING THE CRANE FOR THE FIRST TIME, CHECK THE CORRECT AMOUNT OF HYDRAULIC OIL AND INSPECT THE EQUIPMENT THOROUGHLY. IF IT IS NOT WORKING PROPERLY, BLEED THE HYDRAULIC SYSTEM AS FOLLOWS:

1. Open the release valve and lower the jack fully.

2. Unscrew the oil filler cap and fill to the with hydraulic oil.

3. Press the jack and start pumping with the handle.

4. Check the lubricant hole and top up the hydraulic oil if necessary.

5. Replace the oil cap and tighten the release valve.

6. Before lifting the load, test the crane several times to make sure it is working properly. If the crane does not function after venting, do not operate the crane until it has been repaired by qualified service technicians.

MAINTENANCE AND SERVICE

WARNING! ALL REPAIRS NOT LISTED IN THE MANUAL MUST BE CARRIED OUT BY PROFESSIONALS.

TO PREVENT INJURY: Do not use damaged equipment!

CLEANING, MAINTENANCE AND LUBRICATION

1. Check the general condition before each use. Check for broken, missing, bent or loose crane parts. If there is any problem, it must be resolved before operating the equipment.
DO NOT USE DAMAGED EQUIPMENT!

2. Test the crane thoroughly before each use.

3. Change the hydraulic oil at least once every three years:

- Lower the crane fully, unscrew the oil filler cap on the side of the hoist cover.

- Tilt the crane to allow the oil to flow out. Dispose of used oil in accordance with local regulations.

- Set the crane vertically, fill the tank with high quality hydraulic oil until the oil starts to flow out of the filling hole.

- Unscrew the drain valve screw and move the handle to bleed the system.

- Screw the oil filler cap back on.

4. Wipe the crane with a dry cloth. Then store it in a dry and safe place that is inaccessible to children and unauthorised persons.

POSSIBLE PROBLEMS AND SOLUTIONS

To avoid serious injury: caution should be exercised when dealing with a problem with the operation of the crane. Keep away from load being lifted. Completely resolve any problems before use. If the table does not a solution to the problem, contact a professional.

After the crane has been repaired: carefully test the crane by fully raising and lowering it without a load.

POSSIBLE CAUSES						**POSSIBLE SOLUTION**
Crane does not rise to nominal heights	Chain, or hook up triggers under Weight cargo	Pump hoist seems to be "spongy"	Chain, or the hook does not lift cargo	The holder shall lifts when it is on a crane cargo	Oil flows from filler hole	**(Make sure the crane is not during problem solving loaded)**
X	**X**					Check the drain is fully closed. Vent the system.
X	**X**			**X**		The valves can be blocked or completely closed. Unblocking: 1. Lower the chain/hook and tighten the valve firmly. 2. Manually lift the chain/hook a few centimetres. 3. Open the valve and lower the chain/hook as quickly as possible.
X		**X**	**X**			Lack of hydraulic oil. Check and refill.
						The crane may require venting.

					X	Too much oil Check the oil level and adjust it.

Technical data

maximum load capacity: 3 t

easily movable with 6 wheels arm length

at 3 t lift: 1220 mm arm length at 2 t lift:

1460 mm arm length at 1 t lift: 1710 mm

maximum lift height: 2500 mm weight: 92

kg

Dimensions: 1600 x 820 x 1600 mm