



Workshop  
crane

K 21216



# **INSTRUCTIONS FOR USE**

## **IMPORTANT**

Read these safety instructions carefully in addition to the instructions for use, operation and maintenance. Keep them in a safe place for later consultation.

This crane has been designed for use as a hoist with extensive use in industry and automobile workshops, particularly for handling of engines. Any other use of this crane is considered inappropriate.

Handle the crane correctly and ensure that all parts and components are in good condition and that no parts are missing. Take special care with the elevation accessories used with the crane, such as slings, supports, compensators etc.

The crane should only be used by authorized persons, having read the content of this manual carefully and understood its content.

Do not modify the crane in any way.

Non-compliance with these instructions may result in injury or damage to the user, the crane or the load to be lifted

The manufacturer accepts no responsibility for improper use of the crane.

## **SAFETY INSTRUCTIONS**

- 1 The load to be lifted should never exceed the rated capacity of the crane in each of the positions of the hoisting arm.
- 2 Secure the element to be lifted against any type of slipping. Do not apply any lateral pressure to the elevated or suspended load.
- 3 The crane should be placed on a solid, level and horizontal, non-slip surface. It should be well illuminated and free of unnecessary obstacles.
- 4 The capacity of the crane is reduced as the arm is extended. Make sure that the load capacity is never exceeded in each of the positions of the slide as indicated.
- 5 Both children and unauthorized persons should be kept away from the work area. During the work, ensure that there is nobody in its path.
- 6 Prior to proceeding to work with the crane, make sure that the slide is perfectly fitted to the screw (figure 1, page 4). The crane arm should be located in the nearest possible position to the load to be elevated. Make sure that there are no elements in the vicinity which hinder the elevation of the load or obstacles which prevents its lowering. When securing the load to the hook, always use appropriate elevation elements with a capacity superior to that of the load to be elevated. Check that the safety trigger functions correctly.
- 7 To lift the load in a stable and balanced way, suspend it from the hook and bear in mind that its center of gravity should always be within the crane support base.
- 8 Never allow the load to sway and do not lower it aggressively as this may prove to be dangerous (figure 2, page 4).
- 9 Do not place any part of the body under the elevated load (figure 3, page 4) and do not climb on top of the crane.
- 10 The crane is not a transportation element but in the event that it is necessary to move the load a short distance, position the arm of the crane in the lowest possible position. Once the movement has been completed, place the load on the ground. The crane is not a device to maintain the load elevated for a longer period.
- 11 As a safety measure against overload, the crane is fitted with an overload valve, set at its maximum working pressure at the factory. This valve should not be tampered with under any circumstances.

## ASSEMBLY, USE AND OPERATION

As we are handling heavy elements, it is essential to carry out the following assembly processes with the help of other people.

- 1 To assemble the legs (5) of foldable cranes, it is necessary to position the crane on the ground with the wheels in position indicated in figure 6, page 4. Start by extracting the peg (6), turning it until its fixed limit (C in figure 7) coincides with the window. With the legs on the ground, introduce the peg (6) in the holes (B in figure 7). Turn the peg slightly in order to prevent it from falling out, hence securing the legs to the base of the crane. Perform the reverse operation to fold the legs.

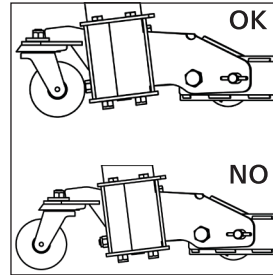


Figure 6

- 2 The arm (7) is then assembled with its slide (8) to the column and finally to the hydraulic unit (4) on a support located on the column. The operation is completed with the securing of the central piston to the arm (7) using a peg and two elastic rings.

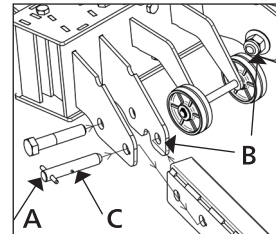
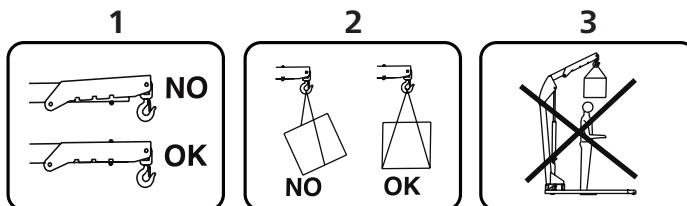
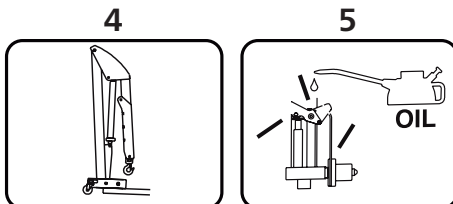


Figure 7

- 3 Prior to using the crane, the hydraulic circuit needs to be drained in order to eliminate any air from the valve system of the hydraulic unit. From behind the crane, turn the valve handle 90° whilst pumping the hydraulic unit several times. By releasing the handle, the crane is ready for use. Turn the hydraulic unit to activate the pump from most comfortable work position.



- 4 To lift the load, activate the pump lever which allows you to choose a comfortable working position due to the fact that its revolving. If lifting an engine, secure it at the points recommended by the manufacturer.
- 5 If it is necessary to use the crane in other positions, the slide should be perfectly fitted to the limiting screw.
- 6 To lower the load, turn the valve handle. This system enables the lowering to be regulated and controlled manually and precisely. As another safety element, the crane is fitted with an LCS system to avoid harsh lowering as a result from an incorrect manouvre. The crane will stop the lowering process when the handle is not activated.
- 7 After use of the crane, the piston of the hydraulic unit should be fully retracted. First move the slide to its initial position (figure 1, page 4)



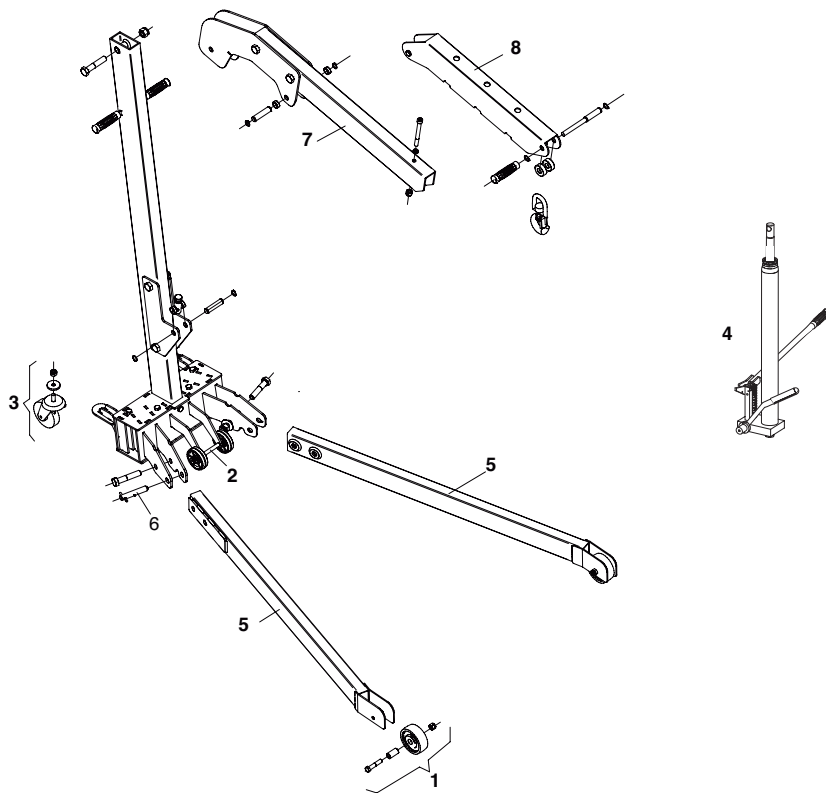
## **MAINTENANCE**

**Important:** Maintenance and repair of this crane shall only be carried out by qualified and authorized personnel, who as a result of their training and experience, are familiar with the hydraulic systems used in these devices.

- 1 Clean and lubricate the axes of the moving parts of the crane (figure 5, page 5) at regular intervals. The crane should be kept clean and protected from aggressive conditions at all times.
- 2 Only original spare parts should be used.
- 3 Withdraw the crane from service if it is suspected that it has been subjected to abnormal loads or has suffered any type of knock, until the problem has been solved.
- 4 If the oil level needs to be checked or refilled, dismantle the hydraulic unit and with the piston fully retracted, remove the filler plug and drain it's contents into a container. With the hydraulic in a horizontal position, proceed to introduce the necessary volume indicated in the parts table.

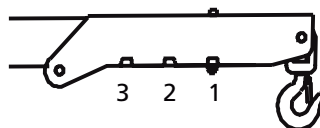
**Important:** An excess of oil over the volume required may affect the operation of the crane.

- 5 Only use hydraulic oil type HLP 32.  
**Extremely important:** Never use brake fluid.
- 6 When the crane is not in use, it should be fully retracted in the lowest position so as to minimize piston corrosion (illustration 4, page 5). it is recommendable to apply an anti-corrosion product to the main piston and the pump.
- 7 Store the crane in a dry, clean place out of reach for children.
- 8 At the end of the useful life of the crane, drain off the oil and hand it over to an authorized agent and dispose of the remaining parts in accordance with local regulations.



## SPARE PARTS LIST K 21216

Pos.	Parts No.	Description
1	K 21224	Wheel
2	K 21225	Wheel
3	K 21226	Wheel
4	K 21227	Hydraulic unit
5		Legs
6		Peg
7		Arm
	0,6 lit	Oil



### Variable capacity

Pos.1 1000 kg

Pos.2 800 kg

Pos.3 700 kg



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