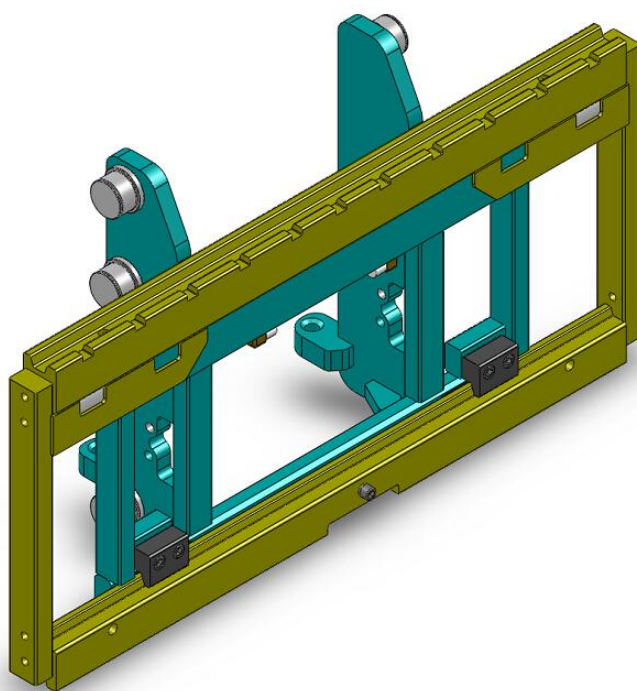




Liandong Engineering Trucks

Good helpers for forklift trucks



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Catalogue

1	Instructions for use	3
2	Daily maintenance	4
3	Special maintenance	5
	3.1 Removing the side shifters	5
	3.2 Slider replacement	6
	3.3 Dismantling of cylinders	6
4	Troubleshooting	7
	4.1 No side shift	7
	4.2 Lateral movement as slow	7
	4.3 Lateral movement irregularities	8

1 Instructions for use

The load and the centre distance of the load must not be greater than the range indicated on the label of the side-shifter, when the centre distance of the load is greater than the rated centre distance of the load, the actual load capacity will be reduced; the hydraulic circuit of the side-shifter must be relieved of pressure after the forklift truck has stopped working so that some necessary maintenance work can be carried out on it later.

The following operations are against the rules and must be prohibited:

- ☆ Carrying loads with a single fork;
- ☆ Moving the load by pushing the side shifters;
- ☆ The side shifter is in the side shift position when the forklift truck is turned;
- ☆ Load instability;
- ☆ people or obstacles in the working area of the side-shifter;
- ☆ Carrying persons on side shifters or forks;
- ☆ Use of the side-shifter in the event of a malfunction without rectification;
- ☆ not properly seating the locating stop pin in the central groove of the upper crossbeam of the fork frame during installation;
- ☆ lap welding on the side shifter;
- ☆ Use the side shifter in an inappropriate way.

2 Daily maintenance

1) Side shifters mounted on forklift trucks for normal use

- ▲ Every 100 hours of use must check whether the hose joint, the lower hook fixing screw is loose; whether the gap between the lower hook and the lower beam meets the requirements (1-2mm), if the gap exceeds the specified value, the slider must be readjusted or replaced, the lower hook requires a locking torque of 160Nm ~ 170Nm.
- ▲ The upper and lower sliding blocks must be greased every 500 hours of use.

The wear of the upper and lower slider must be checked every 1000 hours of use, if the thickness of the upper slider is less must be replaced, if the thickness of the upper slider is less than 3 mm, and the thickness of the lower slider is less than 5 mm, it must be replaced.

▲ Note

When applying lubricating grease to the upper and lower sliding blocks, it is necessary to first move the side mover to the edge position, then apply the lubricating grease to the other side. At this time, the oil cup on the other side is exactly in the middle between the side mover and the lower sliding block.

2) When the side shifters are not used for a long time, they should be removed and cleaned before being placed in storage. In particular, the following should be done:

- ✧ Lubrication and greasing of all parts requiring lubrication;
- ✧ Corrosion treatment or application of corrosion protection grease to all parts that may be subject to corrosion;
- ✧ Insulate the side-shifter from the weather by placing it indoors or covering it with a rain cloth;;
- ✧ If possible, have the hydraulic function of the side shifters checked periodically during storage.

3) When carrying out maintenance work, the electrical and oil circuits must be disconnected first to prevent safety accidents caused by mishandling.

4) Check wear and tear of wearing parts for normal use. (wearing parts: slider)

3 Special maintenance

3.1 Removing the side shifters

3.1.1 Loosen the fork stop screw in the centre of the lower cross member.

3.1.2 Dismantling of the forks. °

3.1.3 Remove the hose. °

Before any operation involving hydraulic components is

carried out, the forklift should be stopped and then the hydraulic circuit should be relieved of pressure first by operating the left and right side shift control levers.

⚠ Warning

Never remove pressurised parts or oil pipes when oil pressure is present.◦

3.1.4 Remove the locking bolt on the lower hook of the side shifter and loosen the lower hook.

3.1.5 Lifting and unloading of the side-shifters side-shifters by crane with a minimum load capacity of 450Kg.

3.2 Slider replacement

3.2.1 When replacing the slider, it must be ensured that the slider locating pin is correctly seated in the side shifter locating slot.

3.2.2 A high quality grease is recommended (Shell EP2 grease is recommended).◦

3.3 Dismantling of cylinders

3.3.1 Wrap a clean rag around the end of the plunger rod and gently pull the rod out, noting that this process should be carried out carefully and gently without bumping the rod.

3.3.2 Loosen the screws holding the cylinder head in place, remove the cylinder head, test and replace the seals.

▲ Note

Do not use blunt tools to abrade the surfaces of the end caps and plungers.

Pay attention to the orientation of the seal when replacing it.

3.3.3 To reinstall the cylinder, reverse the above procedure.

4 Troubleshooting

4.1 No side shift

4.1.1 Check that the pressure and flow rate of the hydraulic system are as required. The recommended working pressure for the integral side shifter is 160 bar.

4.1.2 Check if the structural parts are deformed, if they are, remove the deformation or replace them.

4.1.3 Check the hydraulic circuit and cylinders for leaks and replace the corresponding components.

4.2 Lateral movement as slow

In addition to the examination for non-lateral displacement, the following checks must be made:

4.2.1 Check that the throttle plates are not blocked and, if

necessary, enlarge the throttle holes appropriately;

4.2.2 Check the wear of the upper and lower sliding blocks.

4.3 Lateral movement irregularities

4.3.1 Check for air infiltration in the hydraulic circuit.

4.3.2 Check the wear of the upper and lower sliding blocks.