

## VISTA® MASTS

### GENERAL

This section has the description, operation and the repair procedures for the Vista® masts for the 3 500 to 6 000 kg (7,000 to 12,000 lb) capacity lift trucks. Information on the different types of side shift carriages is also included. The lift cylinders and the lowering control valves are described in the section **LIFT CYLINDERS, 4000 SRM 135**. The tilt cylinders are described in the section **TILT CYLINDERS, 2100 SRM 103**.

### DESCRIPTION AND OPERATION

The vertical frames of a mast are called weldments. Channels, load rollers and crossmembers are parts of the weldments. The channels on each side of the weldment are the support members of the mast and the tracks for the load rollers. During lifting and lowering a load, large forces are put on the mast assembly. The load rollers reduce the friction between the channels when the weldments move vertically.

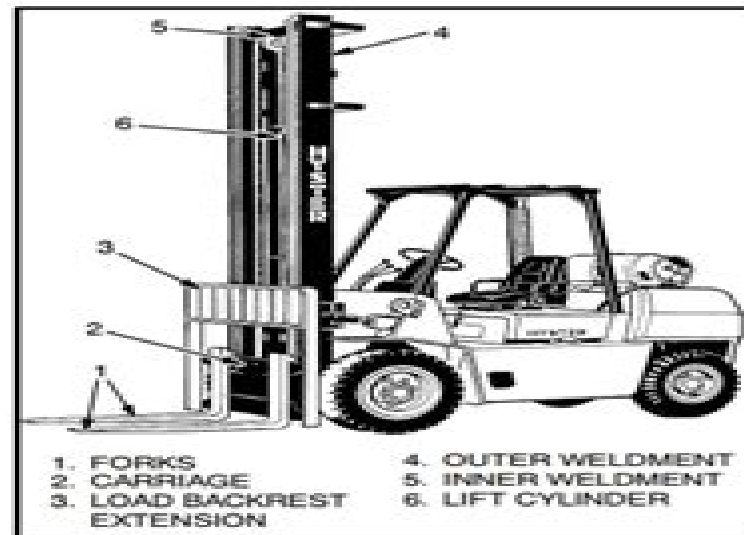


FIGURE 1. MAST COMPONENTS.

Each mast can tilt forward and backward. Tilt cylinders are installed between the frame of the lift truck and the outer weldment of the mast. The pivot mounts at the bottom of the outer weldment connect the mast to the lift truck. During the tilt operation, the mast rotates on the pivot pins in the frame.

### CARRIAGES

The carriage is a separate section that moves on load rollers within the vertical channels of the inner weldment. Forks or other types of load handling equipment are attached to the carriage. A load backrest extension is installed on the carriage.

A side shift carriage permits the operator to hydraulically change the lateral position of the load handling device on the carriage.

### TWO-STAGE MAST WITH LIMITED FREE-LIFT (See FIGURE 2.)

The Vista Two-Stage mast has two weldments, an outer weldment and an inner weldment. The outer weldment is connected to the lift truck by the pivot mounts and the tilt cylinders. The top of the outer weldment has one load roller on each side. The base of the inner weldment has one load roller on each side. These load rollers travel along the channels of the weldments. The angle of the load rollers permits them to control the forces from the front, back and sides of the mast. The shims on the load rollers control the lateral clearance between the weldments and the load rollers. Strip bearings are installed at the top of each side of the outer weldment. The strip bearings keep the correct clearance (forward and backward) between the outer weldment and the inner weldment.

The two-stage mast has two single stage lift cylinders. The lift cylinders are installed at the back of the outer weldment. The base of each lift cylinder sits in a mount at the bottom of the outer weldment. The hydraulic fitting for each lift cylinder goes through a hole in the mount. The top of each lift cylinder (cylinder rod) fits into a guide at the top of the inner weldment. A bracket on the cylinder shell holds the lift cylinder in position on the outer weldment. Operation of the lift cylinders extends and retracts the inner weldment.

# Hyster Maintenance Manuals

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**United States Government Publications** United States. Superintendent of Documents, 1989      Construction Methods ,1958      Monthly Catalogue, United States Public Documents ,1985-07      **Power Farming in Australia and New Zealand Technical Manual** ,1983      *Journal of the United States Artillery* ,1942      American Maritime Cases ,1988

**Army Regulations** United States. Dept. of the Army,      *Physical Demands and Capacities Analysis, Part 1: Physical*

*Demands and Capacities Manual; Part 2: Physical Demands Information, Shipbuilding Industry. Region XII, San Francisco, Calif., May 1944* United States. War Manpower Commission, 1944      **General Construction Equipment Operator** United States. Department of the Army, 1979

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