



VALUE PLUS REPORT

Mast Load Roller Bearings



Hyster Part Number: 1345219

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Load roller bearings are used in the mast of a lift truck to guide the mast interlocking channels when raising and lowering the forks. The load roller, as the name implies, carries the load as the mast channels move up and down. As a general rule of thumb, the more ball bearings there are in a load roller to help distribute the load, the better the quality of the bearing.



Hyster Load Roller Bearing

The most common cause of mast load roller bearing failure is due to miscellaneous impacts (mast or carriage bumping into storage racks or loads) The outer race (wheel) of the roller bearing determines load rating capacity and impact resistance. Compare the outer wheel of the Hyster load roller to the alternative



Alternative Load Roller Bearing

Hyster load rollers are put through grueling tests to ensure they meet specific load, capacity and impact resistance ratings. Below are two examples of alternative load roller bearings after Hyster impact testing. The inner race disintegrated causing catastrophic failure of the bearing on the left. The bearing is seized on the right.



One alternative Bearing disintegrated

If either of these failures occur in an actual lift truck application, not only will there be truck down time for load roller replacement, in all practicality, there will be mast channel damage and stub shaft damage as well.



Another alternative Bearing seized

Before purchasing alternative load rollers, ask your supplier the following questions to better understand the quality of the load roller they may want to supply you: Does the bearing you are considering have the same amount of ball bearings as the Hyster load roller? How much material does the load roller you are considering provide between the ball bearings and the outer race (wheel)? Chances are if you are paying for a cheap bearing, then that is what you are getting. Why take the chance on alternative parts that can lead to expensive repairs, excessive truck down time, and reflect poorly on the Hyster® brand of lift trucks?

Note: This product evaluation was performed by NACCO Materials Handling Group, Inc. Engineering Department.



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