

Hyster Drive Axles

The piece of equipment that is elastically affixed to the framework of the vehicle using a lift mast is the forklift drive axle. The lift mast attaches to the drive axle and could be inclined, by at the very least one tilting cylinder, round the drive axle's axial centerline. Forward bearing components combined with back bearing parts of a torque bearing system are responsible for fastening the vehicle and the drive axle frame. The drive axle can be pivoted around a swiveling axis oriented transversely and horizontally in the vicinity of the back bearing elements. The lift mast can likewise be inclined relative to the drive axle. The tilting cylinder is attached to the lift truck frame and the lift mast in an articulated fashion. This allows the tilting cylinder to be oriented nearly parallel to a plane extending from the swiveling axis to the axial centerline.

Model H40, H45 and H35 forklifts, which are produced by Linde AG in Aschaffenburg, Germany, have a affixed lift mast tilt on the vehicle framework itself. The drive axle is elastically connected to the framework of the forklift using numerous various bearings. The drive axle contains a tubular axle body together with extension arms affixed to it and extend backwards. This kind of drive axle is elastically affixed to the vehicle frame by rear bearing elements on the extension arms along with forward bearing devices situated on the axle body. There are two rear and two front bearing devices. Each one is separated in the transverse direction of the lift truck from the other bearing machine in its respective pair.

The drive and braking torques of the drive axle on tis particular unit of lift truck are sustained by the extension arms through the back bearing components on the frame. The forces produced by the lift mast and the load being carried are transmitted into the floor or roadway by the vehicle frame through the front bearing elements of the drive axle. It is essential to make sure the parts of the drive axle are put together in a firm enough way to maintain strength of the lift truck truck. The bearing elements can minimize minor bumps or road surface irregularities during travel to a limited extent and offer a bit smoother operation.