

Drive Axle for Forklifts

Drive Axle Forklift - A lift truck drive axle is actually a piece of equipment which is elastically affixed to a vehicle framework using a lift mast. The lift mast is connected to the drive axle and can be inclined round the drive axle's axial centerline. This is done by no less than one tilting cylinder. Frontward bearing elements together with back bearing elements of a torque bearing system are responsible for fastening the drive axle to the vehicle framework. The drive axle can be pivoted round a swiveling axis oriented transversely and horizontally in the vicinity of the rear bearing components. The lift mast is also capable of being inclined relative to the drive axle. The tilting cylinder is affixed to the lift truck framework and the lift mast in an articulated fashion. This enables the tilting cylinder to be oriented almost parallel to a plane extending from the axial centerline and to the swiveling axis.

Lift truck models like for instance H40, H45 and H35 that are produced in Aschaffenburg, Germany by Linde AG, have the lift mast tilt ably mounted on the vehicle framework. The drive axle is elastically connected to the forklift frame using many bearing devices. The drive axle comprise tubular axle body together with extension arms affixed to it and extend rearwards. This particular type of drive axle is elastically attached to the vehicle framework using rear bearing parts on the extension arms together with frontward bearing tools situated on the axle body. There are two back and two front bearing devices. Each one is separated in the transverse direction of the forklift from the other bearing machine in its respective pair.

The braking and drive torques of the drive axle on this model of forklift are sustained using the extension arms through the back bearing elements on the framework. The forces produced by the load being carried and the lift mast are transmitted into the floor or street by the vehicle framework through the front bearing components of the drive axle. It is important to be sure the parts of the drive axle are configured in a rigid enough way in order to maintain immovability of the forklift truck. The bearing parts can minimize minor bumps or road surface irregularities all through travel to a limited extent and give a bit smoother operation.