

Forklift Drive Axles

Forklift Drive Axle - A lift truck drive axle is actually a piece of machinery that is elastically affixed to a vehicle framework with a lift mast. The lift mast is fixed to the drive axle and can be inclined around the drive axle's axial centerline. This is done by no less than one tilting cylinder. Forward bearing elements together with rear bearing components of a torque bearing system are responsible for fastening the vehicle and the drive axle framework. 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 could also be inclined relative to the drive axle. The tilting cylinder is attached to the vehicle framework 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.

Lift truck models such as H45, H35 and H40 which are manufactured in Aschaffenburg, Germany by Linde AG, have the lift mast tiltably mounted on the vehicle framework. The drive axle is elastically affixed to the lift truck framework by numerous bearing devices. The drive axle comprise tubular axle body together with extension arms connected to it and extend backwards. This kind of drive axle is elastically attached to the vehicle framework utilizing back bearing parts on the extension arms along with frontward bearing devices situated on the axle body. There are two rear and two front bearing tools. Each one is separated in the transverse direction of the vehicle from the other bearing machine in its respective pair.

The braking and drive torques of the drive axle are maintained through the rear bearing parts on the framework using the extension arms. The load and the lift mast produce the forces which are transmitted into the road or floor by the framework of the vehicle through the drive axle's anterior bearing parts. It is vital to be sure the elements of the drive axle are configured in a rigid enough manner in order to maintain immovability of the forklift truck. The bearing components can reduce minor bumps or road surface irregularities during travel to a limited extent and give a bit smoother operation.