

Forklift Drive Axle

Forklift Drive Axle - A lift truck drive axle is a piece of equipment which is elastically connected to a vehicle framework with a lift mast. The lift mast is attached to the drive axle and is capable of being inclined around the axial centerline of the drive axle. This is done by no less than one tilting cylinder. Forward bearing parts along with back bearing components of a torque bearing system are responsible for fastening the vehicle and the drive axle framework. The drive axle could be pivoted around a swiveling axis oriented horizontally and transversely in the vicinity of the back bearing elements. The lift mast can likewise be inclined relative to the drive axle. The tilting cylinder is affixed to the lift truck frame and the lift mast in an articulated fashion. This allows the tilting cylinder to be oriented almost parallel to a plane extending from the axial centerline and to the swiveling axis.

Model H45, H35 and H40 forklifts, which are made by Linde AG in Aschaffenburg, Germany, have a mounted lift mast tilt on the vehicle framework itself. The drive axle is elastically connected to the framework of the lift truck using many various bearings. The drive axle comprise tubular axle body together with extension arms affixed to it and extend rearwards. This particular kind of drive axle is elastically attached to the vehicle frame utilizing back bearing parts on the extension arms together with frontward bearing devices located on the axle body. There are two rear and two front bearing devices. Each one is separated in the transverse direction of the vehicle from the other bearing tool in its respective pair.

The braking and drive torques of the drive axle are sustained through the back bearing parts on the framework using the extension arms. The lift mast and the load produce the forces which are transmitted into the roadway or floor by the framework of the vehicle through the drive axle's front bearing components. It is important to ensure the elements of the drive axle are constructed in a rigid enough manner to maintain immovability of the forklift truck. The bearing parts could lessen small bumps or road surface irregularities through travel to a limited extent and provide a bit smoother operation.