

Drive Axle for Forklifts

Forklift Drive Axle - The piece of machinery which is elastically affixed to the framework of the vehicle using a lift mast is called the lift truck drive axle. The lift mast affixes to the drive axle and can be inclined, by at least one tilting cylinder, round the axial centerline of the drive axle. Forward bearing elements combined with back bearing elements of a torque bearing system are responsible for fastening the drive axle to the vehicle frame. The drive axle could be pivoted round a swiveling axis oriented horizontally and transversely in the vicinity of the back bearing components. The lift mast is likewise capable of being inclined relative to the drive axle. The tilting cylinder is affixed to the vehicle framework and the lift mast in an articulated fashion. This enables the tilting cylinder to be oriented practically parallel to a plane extending from the axial centerline and to the swiveling axis.

Unit H40, H45 and H35 forklifts, which are manufactured by Linde AG in Aschaffenburg, Germany, have a affixed lift mast tilt on the vehicle framework itself. The drive axle is elastically affixed to the frame of the lift truck using numerous different bearings. The drive axle contains a tubular axle body together with extension arms attached to it and extend rearwards. This particular type of drive axle is elastically connected to the vehicle framework utilizing back bearing parts on the extension arms along with forward bearing devices located on the axle body. There are two back and two front bearing tools. Each one is separated in the transverse direction of the vehicle from the other bearing device in its respective pair.

The drive and braking torques of the drive axle are maintained through the back bearing components on the frame using the extension arms. The load and the lift mast produce the forces which are transmitted into the roadway or floor by the framework of the vehicle through the drive axle's anterior bearing components. It is essential to ensure the components of the drive axle are constructed in a rigid enough manner to be able to maintain immovability of the forklift truck. The bearing components could reduce slight bumps or road surface irregularities through travel to a limited extent and provide a bit smoother function.