

Forklift Drive Axle

Drive Axle for Forklifts - A lift truck drive axle is a piece of machinery that is elastically affixed to a vehicle framework with a lift mast. The lift mast is attached to the drive axle and is capable of being inclined round the axial centerline of the drive axle. This is accomplished by no less than one tilting cylinder. Frontward bearing parts together with rear bearing components of a torque bearing system are responsible for fastening the vehicle and the drive axle frame. The drive axle could be pivoted round a swiveling axis oriented transversely and horizontally in the vicinity of the back bearing elements. The lift mast is likewise capable of being inclined relative to the drive axle. The tilting cylinder is affixed to the vehicle frame and the lift mast in an articulated fashion. This allows the tilting cylinder to be oriented practically parallel to a plane extending from the swiveling axis to the axial centerline.

Unit H45, H35 and H40 forklifts, which are made by Linde AG in Aschaffenburg, Germany, have a mounted lift mast tilt on the vehicle frame itself. The drive axle is elastically affixed to the frame of the forklift using numerous different bearings. The drive axle comprise tubular axle body along with extension arms attached to it and extend backwards. This particular kind of drive axle is elastically attached to the vehicle frame using rear bearing elements on the extension arms together with forward bearing tools 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 tool in its respective pair.

The braking and drive torques of the drive axle are sustained through the back bearing elements on the framework by the extension arms. The lift mast and the load create the forces that are transmitted into the roadway or floor by the frame of the vehicle through the drive axle's front bearing components. It is vital to make sure the parts of the drive axle are installed in a firm enough manner to be able to maintain immovability of the lift truck truck. The bearing components can lessen minor road surface irregularities or bumps during travel to a limited extent and provide a bit smoother function.