

Forklift Drive Axle

Drive Axle for Forklift - A lift truck drive axle is a piece of machinery that is elastically fastened to a vehicle framework using a lift mast. The lift mast is connected to the drive axle and is capable of being inclined around the drive axle's axial centerline. This is done by at least one tilting cylinder. Forward bearing elements along with back bearing components 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 likewise capable of being inclined relative to the drive axle. The tilting cylinder is connected to the vehicle frame 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.

Unit H40, H45 and H35 forklifts, that 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 lift truck utilizing numerous different bearings. The drive axle consists of tubular axle body together with extension arms connected to it and extend rearwards. This type of drive axle is elastically attached to the vehicle frame by back bearing elements on the extension arms along with forward bearing devices located on the axle body. There are two rear and two front bearing tools. 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 particular model of forklift are sustained by the extension arms through the rear bearing parts on the frame. The forces generated by the load being carried and the lift mast are transmitted into the floor or roadway by the vehicle framework through the front bearing elements of the drive axle. It is vital to be certain the elements of the drive axle are configured in a rigid enough method to maintain immovability of the forklift truck. The bearing components can minimize minor road surface irregularities or bumps throughout travel to a limited extent and give a bit smoother operation.