Forklift Drive Axles

Forklift Drive Axle - A lift truck drive axle is actually a piece of equipment which is elastically affixed to a vehicle frame utilizing a lift mast. The lift mast is fixed to the drive axle and is capable of being inclined around the axial centerline of the drive axle. This is accomplished by at least one tilting cylinder. Forward bearing parts along with back bearing components 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 transversely and horizontally in the vicinity of the rear bearing parts. The lift mast is also capable of being inclined relative to the drive axle. The tilting cylinder is affixed to the lift truck 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 H45, H35 and H40 forklifts, which are made by Linde AG in Aschaffenburg, Germany, have a affixed lift mast tilt on the vehicle framework itself. The drive axle is elastically connected to the frame of the lift truck by numerous various bearings. The drive axle consists of tubular axle body together with extension arms connected to it and extend rearwards. This particular kind of drive axle is elastically attached to the vehicle frame by back bearing elements on the extension arms along with frontward bearing tools located on the axle body. There are two back and two front bearing tools. Each one is separated in the transverse direction of the forklift from the other bearing tool in its respective pair.

The drive and braking torques of the drive axle are sustained through the back bearing components 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 framework of the vehicle through the drive axle's front bearing elements. It is vital to ensure the components of the drive axle are installed in a firm enough method to maintain stability 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 operation.