Drive Axle for Forklifts

Forklift Drive Axle - A lift truck drive axle is a piece of equipment that is elastically connected to a vehicle frame using a lift mast. The lift mast is connected to the drive axle and can be inclined round the drive axle's axial centerline. This is accomplished by no less than one tilting cylinder. Forward bearing components together with back bearing parts of a torque bearing system are responsible for fastening the vehicle and the drive axle frame. The drive axle can be pivoted round 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 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, that are manufactured by Linde AG in Aschaffenburg, Germany, have a affixed lift mast tilt on the vehicle framework itself. The drive axle is elastically attached to the framework of the lift truck utilizing many various bearings. The drive axle consists of tubular axle body along with extension arms attached to it and extend rearwards. This type of drive axle is elastically attached to the vehicle framework using rear bearing parts on the extension arms along with frontward bearing tools located on the axle body. There are two rear 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 sustained through the rear bearing parts 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 anterior bearing elements. It is vital to make sure the parts of the drive axle are constructed in a rigid enough way to be able to maintain strength of the lift truck truck. The bearing parts could lessen minor road surface irregularities or bumps during travel to a limited extent and provide a bit smoother function.