

Drive Axle for Forklifts

Forklift Drive Axle - A lift truck drive axle is actually a piece of machinery which is elastically fastened to a vehicle frame with a lift mast. The lift mast is attached to the drive axle and can be inclined around the axial centerline of the drive axle. This is done by at least one tilting cylinder. Forward bearing parts combined with back bearing parts of a torque bearing system are responsible for fastening the vehicle and the drive axle framework. The drive axle could be pivoted round a swiveling axis oriented transversely and horizontally in the vicinity of the back bearing parts. The lift mast could likewise be inclined relative to the drive axle. The tilting cylinder is attached to the lift truck framework and the lift mast in an articulated fashion. This enables the tilting cylinder to be oriented almost parallel to a plane extending from the swiveling axis to the axial centerline.

Unit H35, H40, and H45 forklifts, that are manufactured by Linde AG in Aschaffenburg, Germany, have a mounted lift mast tilt on the vehicle framework itself. The drive axle is elastically connected to the frame of the forklift by many different bearings. The drive axle consists of tubular axle body along with extension arms attached to it and extend backwards. This kind of drive axle is elastically attached to the vehicle framework using rear bearing parts on the extension arms together with forward bearing tools situated 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 tool in its respective pair.

The braking and drive torques of the drive axle are sustained through the rear bearing parts on the framework utilizing the extension arms. The lift mast and the load generate the forces that are transmitted into the street or floor by the frame of the vehicle through the drive axle's anterior bearing components. It is vital to be certain the components of the drive axle are configured in a rigid enough method so as to maintain stability of the lift truck truck. The bearing parts could lessen small road surface irregularities or bumps during travel to a limited extent and give a bit smoother operation.