

Drive Axle for Forklifts

Forklift Drive Axles - The piece of machinery that is elastically fastened to the framework of the vehicle with a lift mast is the forklift drive axle. The lift mast affixes to the drive axle and could be inclined, by no less than one tilting cylinder, around the drive axle's axial centerline. Forward bearing components together with rear bearing elements 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 back bearing elements. The lift mast could also 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 allows the tilting cylinder to be oriented practically parallel to a plane extending from the axial centerline and to the swiveling axis.

Lift truck units like for example H45, H35 and H40 which are made in Aschaffenburg, Germany by Linde AG, have the lift mast tilt ably attached on the vehicle frame. The drive axle is elastically attached to the forklift framework using many bearing devices. The drive axle has tubular axle body together with extension arms attached to it and extend rearwards. This particular kind of drive axle is elastically connected 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 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 drive and braking torques of the drive axle are maintained through the rear bearing parts on the framework utilizing the extension arms. The lift mast and the load produce the forces that are transmitted into the roadway or floor by the framework of the vehicle through the drive axle's anterior bearing parts. It is important to ensure the elements of the drive axle are installed in a firm enough manner to maintain strength of the lift truck truck. The bearing components can reduce minor bumps or road surface irregularities during travel to a limited extent and give a bit smoother function.