

Drive Axle for Forklift

Drive Axle for Forklifts - The piece of equipment which is elastically fastened to the framework of the vehicle using 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, round the axial centerline of the drive axle. Forward bearing elements along with back bearing elements of a torque bearing system are responsible for fastening the vehicle and the drive axle frame. The drive axle could be pivoted around a swiveling axis oriented horizontally and transversely 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 enables the tilting cylinder to be oriented practically parallel to a plane extending from the swiveling axis to the axial centerline.

Model 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 lift truck by many various bearings. The drive axle has tubular axle body along with extension arms attached to it and extend backwards. This particular type of drive axle is elastically connected to the vehicle framework using rear bearing elements on the extension arms along with forward bearing devices located on the axle body. There are two rear and two front bearing devices. Each one is separated in the transverse direction of the forklift from the other bearing tool in its respective pair.

The braking and drive torques of the drive axle on this particular unit of forklift are sustained by the extension arms through the rear bearing parts on the framework. The forces created by the lift mast and the load being carried are transmitted into the floor or street by the vehicle framework through the front bearing parts of the drive axle. It is vital to be sure the parts of the drive axle are put together in a firm enough method to be able to maintain immovability of the lift truck truck. The bearing components can minimize slight bumps or road surface irregularities during travel to a limited extent and give a bit smoother operation.