

Drive Axle for Forklift

Forklift Drive Axle - The piece of equipment that is elastically affixed to the frame of the vehicle utilizing a lift mast is the forklift drive axle. The lift mast attaches to the drive axle and can be inclined, by at least one tilting cylinder, around the axial centerline of the drive axle. Frontward bearing parts together with rear bearing parts of a torque bearing system are responsible for fastening the drive axle to the vehicle frame. The drive axle could be pivoted around a swiveling axis oriented horizontally and transversely in the vicinity of the rear bearing components. The lift mast is likewise capable of being inclined relative to the drive axle. The tilting cylinder is attached to the lift truck frame 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 produced 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 using numerous various bearings. The drive axle consists of tubular axle body along with extension arms attached to it and extend backwards. This type of drive axle is elastically connected to the vehicle framework using rear bearing parts on the extension arms together with forward bearing devices situated on the axle body. There are two rear and two front bearing tools. Each one is separated in the transverse direction of the forklift from the other bearing device in its respective pair.

The braking and drive torques of the drive axle are sustained through the rear bearing elements on the frame by the extension arms. The load and the lift mast generate the forces which are transmitted into the road or floor by the frame of the vehicle through the drive axle's anterior bearing parts. It is essential to be sure the parts of the drive axle are installed in a firm enough manner in order to maintain strength of the forklift truck. The bearing parts could lessen small road surface irregularities or bumps during travel to a limited extent and offer a bit smoother function.