

Drive Axle Forklift

Forklift Drive Axles - The piece of equipment which is elastically fastened to the framework of the vehicle with a lift mast is known as the lift truck 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 parts together with rear bearing parts of a torque bearing system are responsible for fastening the drive axle to the vehicle framework. The drive axle could be pivoted around a swiveling axis oriented horizontally and transversely in the vicinity of the back bearing components. The lift mast is likewise capable of being inclined relative to the drive axle. The tilting cylinder is connected to the vehicle 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 axial centerline and to the swiveling axis.

Unit H40, H45 and H35 forklifts, which are produced by Linde AG in Aschaffenburg, Germany, have a mounted lift mast tilt on the vehicle framework itself. The drive axle is elastically affixed to the framework of the lift truck utilizing numerous various bearings. The drive axle comprise tubular axle body together with extension arms connected to it and extend backwards. This particular kind of drive axle is elastically attached to the vehicle frame utilizing rear bearing elements on the extension arms together with forward bearing devices located on the axle body. There are two back and two front bearing devices. Each one is separated in the transverse direction of the lift truck from the other bearing device in its respective pair.

The drive and braking torques of the drive axle are sustained through the back bearing parts on the frame using the extension arms. The lift mast and the load produce the forces which are transmitted into the street or floor by the framework of the vehicle through the drive axle's front bearing elements. It is vital to be certain the parts of the drive axle are installed in a rigid enough way in order to maintain stability of the forklift truck. The bearing parts could lessen small bumps or road surface irregularities during travel to a limited extent and give a bit smoother operation.