

Drive Axle for Forklift

Forklift Drive Axle - A lift truck drive axle is actually a piece of machinery which is elastically fastened to a vehicle framework with a lift mast. The lift mast is connected to the drive axle and could be inclined round the axial centerline of the drive axle. This is accomplished by no less than one tilting cylinder. Forward bearing elements together with back bearing components of a torque bearing system are responsible for fastening the vehicle and the drive axle frame. The drive axle can be pivoted round a swiveling axis oriented horizontally and transversely in the vicinity of the back bearing parts. The lift mast is also capable of being 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 almost parallel to a plane extending from the swiveling axis to the axial centerline.

Forklift units like H40, H45 and H35 which are produced in Aschaffenburg, Germany by Linde AG, have the lift mast tilt capably affixed\connected on the vehicle framework. The drive axle is elastically affixed to the forklift framework using a multitude of bearing tools. The drive axle has tubular axle body along with extension arms affixed to it and extend backwards. This particular kind of drive axle is elastically connected to the vehicle framework using back bearing parts on the extension arms along with frontward bearing tools situated on the axle body. There are two back and two front bearing devices. Each one is separated in the transverse direction of the vehicle from the other bearing machine in its respective pair.

The drive and braking torques of the drive axle on this unit of lift truck are sustained using the extension arms through the back bearing parts on the framework. The forces created by the load being carried and the lift mast are transmitted into the floor or street by the vehicle framework through the front bearing components of the drive axle. It is essential to ensure the parts of the drive axle are put together in a firm enough manner to be able to maintain immovability of the forklift truck. The bearing elements could reduce slight bumps or road surface irregularities during travel to a limited extent and offer a bit smoother function.