

Forklift Drive Axles

Drive Axle for Forklifts - The piece of machinery which is elastically connected to the framework of the vehicle using a lift mast is referred to as the lift truck drive axle. The lift mast attaches to the drive axle and could be inclined, by no less than one tilting cylinder, round the drive axle's axial centerline. Frontward bearing parts combined with back bearing parts of a torque bearing system are responsible for fastening the drive axle to the vehicle framework. The drive axle can be pivoted round a swiveling axis oriented horizontally and transversely in the vicinity of the back bearing elements. The lift mast could likewise be 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 axial centerline and to the swiveling axis.

Unit H40, H45 and H35 forklifts, that are produced by Linde AG in Aschaffenburg, Germany, have a connected lift mast tilt on the vehicle framework itself. The drive axle is elastically connected to the frame of the forklift by many different bearings. The drive axle consists of tubular axle body together with extension arms affixed to it and extend backwards. This particular kind of drive axle is elastically affixed to the vehicle framework using back bearing parts on the extension arms together with frontward bearing devices situated on the axle body. There are two back and two front bearing devices. Each one is separated in the transverse direction of the forklift from the other bearing machine in its respective pair.

The braking and drive torques of the drive axle on this unit of lift truck are sustained using the extension arms through the back bearing components on the framework. The forces produced by the lift mast and the load being carried are transmitted into the floor or road by the vehicle frame through the front bearing components of the drive axle. It is vital to make certain the elements of the drive axle are put together in a rigid enough manner to maintain immovability of the forklift truck. The bearing components can lessen slight road surface irregularities or bumps through travel to a limited extent and offer a bit smoother operation.