

Drive Axle for Forklift

Forklift Drive Axle - 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 connects to the drive axle and could be inclined, by no less than one tilting cylinder, around the axial centerline of the drive axle. Forward bearing parts along with back bearing elements 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 rear bearing components. The lift mast can likewise be inclined relative to the drive axle. The tilting cylinder is connected to the vehicle frame and the lift mast in an articulated fashion. This allows the tilting cylinder to be oriented almost 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 connected lift mast tilt on the vehicle frame itself. The drive axle is elastically attached to the frame of the forklift by numerous different bearings. The drive axle has tubular axle body along with extension arms attached to it and extend backwards. This particular kind of drive axle is elastically connected to the vehicle frame using back bearing elements on the extension arms together with frontward bearing tools located on the axle body. There are two back and two front bearing tools. 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 are sustained through the rear bearing elements on the framework by the extension arms. The load and the lift mast produce the forces which are transmitted into the road or floor by the framework of the vehicle through the drive axle's anterior bearing parts. It is important to be certain the elements of the drive axle are constructed in a rigid enough method so as to maintain immovability of the lift truck truck. The bearing parts can minimize slight bumps or road surface irregularities during travel to a limited extent and provide a bit smoother operation.