

Drive Axle for Forklifts

Forklift Drive Axle - The piece of machinery that is elastically fastened to the frame of the vehicle using a lift mast is referred to as the lift truck drive axle. The lift mast affixes to the drive axle and can be inclined, by at the very least one tilting cylinder, around the drive axle's axial centerline. Frontward bearing elements together with rear bearing components 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 parts. The lift mast could also be inclined relative to the drive axle. The tilting cylinder is affixed to the vehicle 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.

Model H45, H35 and H40 forklifts, that are manufactured by Linde AG in Aschaffenburg, Germany, have a connected lift mast tilt on the vehicle framework itself. The drive axle is elastically attached to the frame of the lift truck by many various bearings. The drive axle consists of tubular axle body together with extension arms affixed to it and extend rearwards. This kind of drive axle is elastically connected to the vehicle frame by back bearing elements on the extension arms along with forward 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 device in its respective pair.

The drive and braking torques of the drive axle are maintained through the rear bearing elements on the framework by the extension arms. The load and the lift mast generate the forces that are transmitted into the roadway or floor by the framework of the vehicle through the drive axle's anterior bearing parts. It is important to ensure the elements of the drive axle are put together in a firm enough method to maintain stability of the lift truck truck. The bearing parts can reduce small bumps or road surface irregularities all through travel to a limited extent and provide a bit smoother operation.