

Drive Axle for Forklift

Forklift Drive Axle - The piece of equipment which is elastically connected 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 can be inclined, by no less than one tilting cylinder, round the axial centerline of the drive axle. Frontward bearing elements together with back bearing components of a torque bearing system are responsible for fastening the vehicle and the drive axle framework. The drive axle can be pivoted round a swiveling axis oriented transversely and horizontally in the vicinity of the back bearing parts. The lift mast could likewise 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 allows the tilting cylinder to be oriented practically parallel to a plane extending from the swiveling axis to the axial centerline.

Lift truck models like for example H45, H35 and H40 which are manufactured in Aschaffenburg, Germany by Linde AG, have the lift mast tilt capably attached on the vehicle framework. The drive axle is elastically attached to the forklift framework utilizing numerous bearing tools. The drive axle comprise tubular axle body along with extension arms attached to it and extend backwards. This particular type of drive axle is elastically connected to the vehicle frame using back bearing elements on the extension arms together with forward 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 forklift from the other bearing device in its respective pair.

The braking and drive torques of the drive axle on this model of forklift are sustained by the extension arms through the back bearing parts on the frame. The forces produced by the load being carried and the lift mast are transmitted into the floor or road by the vehicle framework through the front bearing components of the drive axle. It is essential to make sure the parts of the drive axle are configured in a firm enough method to be able to maintain stability of the lift truck truck. The bearing components could reduce small bumps or road surface irregularities all through travel to a limited extent and offer a bit smoother function.