

## Forklift Drive Axle

Forklift Drive Axle - The piece of equipment that is elastically affixed to the framework of the vehicle utilizing a lift mast is the lift truck drive axle. The lift mast connects to the drive axle and could be inclined, by at least one tilting cylinder, around the drive axle's axial centerline. Forward bearing elements combined with back bearing elements of a torque bearing system are responsible for fastening the vehicle and the drive axle frame. The drive axle could be pivoted round a swiveling axis oriented transversely and horizontally in the vicinity of the rear bearing elements. The lift mast is also capable of being inclined relative to the drive axle. The tilting cylinder is affixed 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 swiveling axis to the axial centerline.

Forklift units like for instance H45, H35 and H40 which are manufactured in Aschaffenburg, Germany by Linde AG, have the lift mast tilt capably affixed\connected on the vehicle frame. The drive axle is elastically connected to the forklift framework by a multitude of bearing devices. The drive axle consists of tubular axle body together with extension arms affixed to it and extend rearwards. This type of drive axle is elastically affixed to the vehicle framework using back bearing elements on the extension arms along with frontward bearing devices located on the axle body. There are two rear and two front bearing devices. Each one is separated in the transverse direction of the vehicle from the other bearing device in its respective pair.

The drive and braking torques of the drive axle are sustained through the back bearing parts on the framework by the extension arms. The lift mast and the load create the forces which are transmitted into the roadway or floor by the frame of the vehicle through the drive axle's anterior bearing components. It is vital to make certain the components of the drive axle are put together in a firm enough way so as to maintain strength of the lift truck truck. The bearing elements can reduce minor bumps or road surface irregularities through travel to a limited extent and offer a bit smoother operation.