

## Drive Axle for Forklifts

Forklift Drive Axle - The piece of equipment that is elastically affixed 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 no less than one tilting cylinder, round the axial centerline of the drive axle. Forward bearing parts along with back bearing components 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 horizontally and transversely in the vicinity of the back bearing components. The lift mast can also be inclined relative to the drive axle. The tilting cylinder is affixed to the lift truck framework and the lift mast in an articulated fashion. This enables the tilting cylinder to be oriented practically parallel to a plane extending from the swiveling axis to the axial centerline.

Unit H35, H40, and H45 forklifts, that are manufactured by Linde AG in Aschaffenburg, Germany, have a attached lift mast tilt on the vehicle frame itself. The drive axle is elastically attached to the framework of the forklift utilizing many different bearings. The drive axle consists of tubular axle body along with extension arms attached to it and extend rearwards. This type of drive axle is elastically connected to the vehicle frame by rear bearing parts on the extension arms along with forward bearing tools situated on the axle body. There are two rear and two front bearing tools. Each one is separated in the transverse direction of the lift truck from the other bearing tool in its respective pair.

The drive and braking torques of the drive axle on tis particular model of lift truck are sustained using the extension arms through the rear bearing elements on the framework. The forces generated by the lift mast and the load being carried are transmitted into the floor or street by the vehicle framework through the front bearing elements of the drive axle. It is vital to ensure the components of the drive axle are put together in a firm enough manner to be able to maintain strength of the lift truck truck. The bearing parts can reduce slight road surface irregularities or bumps during travel to a limited extent and provide a bit smoother function.