

## Drive Axles

A forklift drive axle is a piece of equipment which is elastically fastened to a vehicle framework using a lift mast. The lift mast is connected to the drive axle and could be inclined around the axial centerline of the drive axle. This is accomplished by no less than one tilting cylinder. Forward bearing parts along with back bearing parts of a torque bearing system are responsible for fastening the drive axle to the vehicle frame. The drive axle can be pivoted around a swiveling axis oriented horizontally and transversely in the vicinity of the back bearing parts. The lift mast is likewise capable of being inclined relative to the drive axle. The tilting cylinder is connected to the vehicle frame 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.

Forklift models such as H35, H40 and H45 which are produced in Aschaffenburg, Germany by Linde AG, have the lift mast tilt capably attached on the vehicle framework. The drive axle is elastically affixed to the forklift frame by a multitude of bearing tools. The drive axle consists of tubular axle body together with extension arms connected to it and extend rearwards. This particular type of drive axle is elastically affixed to the vehicle framework utilizing back bearing parts on the extension arms along with frontward bearing devices situated on the axle body. There are two back and two front bearing devices. Each one is separated in the transverse direction of the lift truck from the other bearing device in its respective pair.

The braking and drive torques of the drive axle on this particular unit of lift truck are sustained utilizing the extension arms through the rear bearing components on the frame. The forces produced by the load being carried and the lift mast are transmitted into the floor or street by the vehicle frame through the front bearing parts of the drive axle. It is essential to ensure the components of the drive axle are configured in a firm enough manner to be able to maintain strength of the forklift truck. The bearing parts could minimize minor bumps or road surface irregularities through travel to a limited extent and give a bit smoother function.