

## Drive Axle for Forklift

Forklift Drive Axle - A lift truck drive axle is actually a piece of equipment which is elastically connected to a vehicle frame using a lift mast. The lift mast is attached to the drive axle and is capable of being inclined around the axial centerline of the drive axle. This is done by no less than one tilting cylinder. Forward bearing parts along with rear 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 transversely and horizontally in the vicinity of the rear bearing parts. The lift mast can likewise be inclined relative to the drive axle. The tilting cylinder is attached 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 axial centerline and to the swiveling axis.

Forklift units like for example H45, H35 and H40 which are made in Aschaffenburg, Germany by Linde AG, have the lift mast tilt capably mounted on the vehicle frame. The drive axle is elastically affixed to the lift truck framework by numerous bearing tools. The drive axle contains a tubular axle body together with extension arms connected to it and extend backwards. This kind of drive axle is elastically connected to the vehicle framework using back bearing elements on the extension arms together with forward bearing tools located on the axle body. There are two rear and two front bearing tools. 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 on this unit of forklift are sustained by the extension arms through the rear bearing components on the frame. The forces generated by the load being carried and the lift mast are transmitted into the floor or street by the vehicle framework through the front bearing elements of the drive axle. It is essential to be sure the elements of the drive axle are configured in a rigid enough method in order to maintain stability of the forklift truck. The bearing components could minimize small bumps or road surface irregularities all through travel to a limited extent and give a bit smoother function.