

## Forklift Drive Axle

Forklift Drive Axle - A lift truck drive axle is actually a piece of machinery that is elastically affixed to a vehicle framework using a lift mast. The lift mast is connected to the drive axle and can be inclined round the axial centerline of the drive axle. This is done by at least one tilting cylinder. Forward bearing parts together with rear 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 horizontally and transversely in the vicinity of the rear bearing parts. The lift mast can also 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 almost parallel to a plane extending from the axial centerline and to the swiveling axis.

Lift truck models like H40, H45 and H35 which are produced in Aschaffenburg, Germany by Linde AG, have the lift mast tilt capably mounted on the vehicle framework. The drive axle is elastically affixed to the lift truck framework by many bearing devices. The drive axle comprise tubular axle body together with extension arms affixed to it and extend rearwards. This particular type of drive axle is elastically connected to the vehicle frame utilizing rear bearing elements on the extension arms along 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 machine in its respective pair.

The braking and drive torques of the drive axle are maintained through the back bearing parts on the framework using the extension arms. The lift mast and the load generate the forces that are transmitted into the street or floor by the frame of the vehicle through the drive axle's front bearing parts. It is important to ensure the elements of the drive axle are configured in a firm enough manner to be able to maintain immovability of the lift truck truck. The bearing parts could lessen minor road surface irregularities or bumps through travel to a limited extent and offer a bit smoother operation.