

## Forklift Drive Axle

Forklift Drive Axle - A forklift drive axle is actually a piece of machinery that is elastically fastened to a vehicle framework using a lift mast. The lift mast is attached to the drive axle and can be inclined around the drive axle's axial centerline. This is accomplished by no less than one tilting cylinder. Frontward bearing elements combined with rear bearing elements 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 transversely and horizontally in the vicinity of the rear bearing parts. The lift mast is likewise capable of being inclined relative to the drive axle. The tilting cylinder is attached to the lift truck framework 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.

Model H45, H35 and H40 forklifts, which are produced by Linde AG in Aschaffenburg, Germany, have a affixed lift mast tilt on the vehicle framework itself. The drive axle is elastically connected to the framework of the lift truck utilizing many different bearings. The drive axle consists of tubular axle body together with extension arms affixed to it and extend backwards. This kind of drive axle is elastically affixed to the vehicle framework by rear bearing parts on the extension arms along with forward bearing tools 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 are maintained through the back bearing components on the framework using the extension arms. The load and the lift mast produce the forces that are transmitted into the road or floor by the frame of the vehicle through the drive axle's front bearing components. It is important to be sure the elements of the drive axle are configured in a firm enough way to be able to maintain strength of the forklift truck. The bearing elements can reduce small bumps or road surface irregularities through travel to a limited extent and provide a bit smoother operation.