

## Drive Axle Forklift

Forklift Drive Axle - A forklift drive axle is a piece of equipment which is elastically fastened to a vehicle frame with a lift mast. The lift mast is connected to the drive axle and can be inclined around the axial centerline of the drive axle. This is done by at least one tilting cylinder. Frontward bearing components 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 round a swiveling axis oriented transversely and horizontally in the vicinity of the back bearing elements. The lift mast is also 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 axial centerline and to the swiveling axis.

Lift truck units like for instance H45, H35 and H40 which are made in Aschaffenburg, Germany by Linde AG, have the lift mast tilt ably affixed\connected on the vehicle frame. The drive axle is elastically attached to the forklift framework using a multitude of bearing devices. The drive axle has tubular axle body along with extension arms connected to it and extend rearwards. This kind of drive axle is elastically attached to the vehicle frame utilizing back bearing elements on the extension arms together with forward bearing devices located on the axle body. There are two back and two front bearing devices. Each one is separated in the transverse direction of the forklift from the other bearing tool in its respective pair.

The drive and braking torques of the drive axle on this model of lift truck are sustained using the extension arms through the rear bearing parts on the framework. The forces generated by the lift mast and the load being carried are transmitted into the floor or road by the vehicle frame through the front bearing parts of the drive axle. It is important to ensure the components of the drive axle are installed in a firm enough method so as to maintain stability of the lift truck truck. The bearing parts can reduce slight road surface irregularities or bumps throughout travel to a limited extent and offer a bit smoother operation.