

## Drive Axle for Forklifts

Forklift Drive Axle - The piece of equipment that is elastically fastened to the framework of the vehicle with a lift mast is called the lift truck drive axle. The lift mast attaches to the drive axle and could be inclined, by at least one tilting cylinder, round the axial centerline of the drive axle. Forward bearing elements together with back bearing elements of a torque bearing system are responsible for fastening the vehicle and the drive axle frame. The drive axle could be pivoted around a swiveling axis oriented transversely and horizontally in the vicinity of the back bearing components. The lift mast could likewise be inclined relative to the drive axle. The tilting cylinder is affixed to the vehicle framework and the lift mast in an articulated fashion. This allows the tilting cylinder to be oriented nearly parallel to a plane extending from the swiveling axis to the axial centerline.

Forklift units like for example H40, H45 and H35 that are made in Aschaffenburg, Germany by Linde AG, have the lift mast tilt ably mounted on the vehicle frame. The drive axle is elastically affixed to the lift truck framework using numerous bearing tools. The drive axle contains a tubular axle body along with extension arms connected to it and extend rearwards. This kind of drive axle is elastically connected to the vehicle framework by rear bearing elements on the extension arms together with frontward bearing devices located on the axle body. There are two rear and two front bearing devices. Each one is separated in the transverse direction of the lift truck from the other bearing tool in its respective pair.

The braking and drive torques of the drive axle are maintained through the rear bearing parts on the framework utilizing the extension arms. The lift mast and the load produce the forces which are transmitted into the street or floor by the frame of the vehicle through the drive axle's front bearing elements. It is important to make certain the parts of the drive axle are constructed in a rigid enough way to maintain strength of the lift truck truck. The bearing components can minimize minor bumps or road surface irregularities all through travel to a limited extent and give a bit smoother function.