

Forklift Drive Axles

Forklift Drive Axle - A forklift drive axle is actually a piece of equipment which is elastically connected to a vehicle frame with 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 accomplished by no less than one tilting cylinder. Forward bearing elements together with rear bearing parts of a torque bearing system are responsible for fastening the drive axle to the vehicle framework. The drive axle could be pivoted round a swiveling axis oriented horizontally and transversely in the vicinity of the back bearing parts. The lift mast could also be inclined relative to the drive axle. The tilting cylinder is connected to the lift truck frame and the lift mast in an articulated fashion. This enables the tilting cylinder to be oriented nearly parallel to a plane extending from the swiveling axis to the axial centerline.

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

The drive and braking torques of the drive axle on this particular unit of lift truck are sustained utilizing the extension arms through the back bearing parts on the frame. The forces produced by the load being carried and the lift mast are transmitted into the floor or road by the vehicle framework through the front bearing parts of the drive axle. It is essential to make sure the elements of the drive axle are installed in a rigid enough way to maintain strength of the lift truck truck. The bearing elements could minimize minor road surface irregularities or bumps during travel to a limited extent and provide a bit smoother operation.