

Forklift Drive Axles

Forklift Drive Axle - A forklift drive axle is actually a piece of machinery that is elastically fastened to a vehicle frame using a lift mast. The lift mast is attached to the drive axle and is capable of being inclined around the axial centerline of the drive axle. This is accomplished by at least one tilting cylinder. Forward bearing elements together with back bearing components of a torque bearing system are responsible for fastening the drive axle to the vehicle frame. The drive axle can be pivoted around a swiveling axis oriented transversely and horizontally in the vicinity of the rear bearing parts. The lift mast can likewise 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 enables the tilting cylinder to be oriented nearly parallel to a plane extending from the axial centerline and to the swiveling axis.

Forklift models like for example H35, H40 and H45 which are manufactured 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 forklift frame using numerous bearing tools. The drive axle has tubular axle body along with extension arms connected to it and extend rearwards. This type of drive axle is elastically affixed to the vehicle framework utilizing rear bearing elements on the extension arms together with frontward bearing tools situated on the axle body. There are two back and two front bearing tools. Each one is separated in the transverse direction of the forklift from the other bearing machine in its respective pair.

The braking and drive torques of the drive axle on tis particular unit of lift truck are sustained by the extension arms through the back bearing components on the framework. The forces generated by the load being carried and the lift mast are transmitted into the floor or road by the vehicle frame through the front bearing elements of the drive axle. It is essential to be sure the elements of the drive axle are constructed in a rigid enough way to maintain immovability of the lift truck truck. The bearing elements can reduce small bumps or road surface irregularities during travel to a limited extent and provide a bit smoother function.