Forklift Drive Axle

Drive Axle for Forklifts - The piece of equipment that is elastically fastened to the frame of the vehicle with a lift mast is known as the forklift drive axle. The lift mast affixes to the drive axle and can be inclined, by no less than one tilting cylinder, around the drive axle's axial centerline. Forward bearing elements along 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 rear bearing components. The lift mast is likewise capable of being inclined relative to the drive axle. The tilting cylinder is connected to the lift truck framework and the lift mast in an articulated fashion. This enables the tilting cylinder to be oriented practically parallel to a plane extending from the swiveling axis to the axial centerline.

Forklift models like for example H45, H35 and H40 that are manufactured in Aschaffenburg, Germany by Linde AG, have the lift mast tilt ably attached on the vehicle frame. The drive axle is elastically affixed to the forklift frame utilizing numerous bearing devices. The drive axle consists of tubular axle body along with extension arms attached to it and extend rearwards. This particular kind of drive axle is elastically connected to the vehicle frame by back bearing parts on the extension arms along with frontward 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 drive and braking torques of the drive axle on this model of lift truck are sustained using the extension arms through the rear bearing components on the framework. The forces produced by the load being carried and the lift mast are transmitted into the floor or street by the vehicle frame through the front bearing elements of the drive axle. It is important to make certain the components of the drive axle are configured in a firm enough method to be able to maintain immovability of the lift truck truck. The bearing parts can minimize slight bumps or road surface irregularities during travel to a limited extent and provide a bit smoother operation.