

Drive Axle for Forklifts

Forklift Drive Axles - The piece of machinery which is elastically fastened to the frame of the vehicle with a lift mast is the lift truck drive axle. The lift mast affixes to the drive axle and could be inclined, by at least one tilting cylinder, around the axial centerline of the drive axle. Forward bearing components along with back bearing components of a torque bearing system are responsible for fastening the drive axle to the vehicle frame. The drive axle could be pivoted around a swiveling axis oriented transversely and horizontally in the vicinity of the back bearing parts. The lift mast can likewise be inclined relative to the drive axle. The tilting cylinder is attached to the vehicle framework and the lift mast in an articulated fashion. This allows 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 H45, H35 and H40 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 connected to the forklift frame utilizing a multitude of bearing tools. The drive axle consists of tubular axle body along with extension arms attached to it and extend backwards. This particular kind of drive axle is elastically attached to the vehicle frame by back bearing elements on the extension arms along with frontward bearing tools 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 drive and braking torques of the drive axle on this unit of forklift are sustained using the extension arms through the back bearing parts 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 parts of the drive axle. It is important to be certain the elements of the drive axle are constructed in a firm enough way to maintain immovability of the lift truck truck. The bearing parts could minimize slight road surface irregularities or bumps through travel to a limited extent and offer a bit smoother operation.