

Forklift Drive Axles

Drive Axle for Forklifts - A lift truck drive axle is actually a piece of equipment that is elastically affixed to a vehicle framework using a lift mast. The lift mast is fixed to the drive axle and could be inclined around the drive axle's axial centerline. This is done by at least one tilting cylinder. Forward bearing parts combined with rear bearing components of a torque bearing system are responsible for fastening the drive axle to the vehicle frame. The drive axle could be pivoted round a swiveling axis oriented transversely and horizontally in the vicinity of the rear bearing elements. The lift mast is likewise capable of being inclined relative to the drive axle. The tilting cylinder is attached to the vehicle 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 axial centerline and to the swiveling axis.

Forklift models such as H35, H40 and H45 which are produced in Aschaffenburg, Germany by Linde AG, have the lift mast tilt ably attached on the vehicle frame. The drive axle is elastically connected to the lift truck frame by many bearing tools. The drive axle contains a tubular axle body along with extension arms affixed to it and extend backwards. This kind of drive axle is elastically affixed to the vehicle framework by back bearing elements on the extension arms together with forward 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 vehicle from the other bearing tool in its respective pair.

The braking and drive torques of the drive axle are sustained through the rear bearing components on the frame utilizing the extension arms. The lift mast and the load generate the forces that are transmitted into the roadway or floor by the frame of the vehicle through the drive axle's anterior bearing elements. It is essential to ensure the elements of the drive axle are constructed in a rigid enough method so as to maintain immovability of the forklift truck. The bearing components could minimize minor road surface irregularities or bumps through travel to a limited extent and give a bit smoother operation.