

Drive Axle for Forklift

Forklift Drive Axle - The piece of equipment that is elastically connected to the frame of the vehicle with a lift mast is referred to as the lift truck drive axle. The lift mast attaches to the drive axle and could be inclined, by at the very least one tilting cylinder, around the axial centerline of the drive axle. Frontward bearing components combined with rear bearing elements of a torque bearing system are responsible for fastening the vehicle and the drive axle frame. The drive axle can be pivoted around a swiveling axis oriented transversely and horizontally in the vicinity of the back bearing elements. The lift mast can also be inclined relative to the drive axle. The tilting cylinder is attached to the lift truck frame and the lift mast in an articulated fashion. This allows the tilting cylinder to be oriented practically parallel to a plane extending from the swiveling axis to the axial centerline.

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

The drive and braking torques of the drive axle on this particular model of lift truck are sustained using the extension arms through the rear bearing elements on the framework. The forces produced by the lift mast and the load being carried are transmitted into the floor or roadway by the vehicle framework through the front bearing elements of the drive axle. It is vital to make sure the elements of the drive axle are put together in a rigid enough manner to be able to maintain immovability of the forklift truck. The bearing elements can reduce minor road surface irregularities or bumps all through travel to a limited extent and provide a bit smoother operation.