

Drive Axle for Forklifts

Forklift Drive Axle - A lift truck drive axle is a piece of equipment that is elastically connected to a vehicle frame utilizing a lift mast. The lift mast is fixed to the drive axle and can be inclined around the drive axle's axial centerline. This is done by at the very least one tilting cylinder. Forward bearing parts along with rear bearing elements of a torque bearing system are responsible for fastening the vehicle and the drive axle framework. The drive axle could be pivoted round a swiveling axis oriented transversely and horizontally in the vicinity of the rear bearing parts. The lift mast could also 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 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 such as H45, H35 and H40 which are manufactured in Aschaffenburg, Germany by Linde AG, have the lift mast tilt ably attached on the vehicle framework. The drive axle is elastically connected to the lift truck framework by many bearing tools. The drive axle consists of tubular axle body together with extension arms attached to it and extend rearwards. This particular type of drive axle is elastically affixed to the vehicle framework utilizing back bearing parts on the extension arms together with frontward bearing tools located on the axle body. There are two back and two front bearing devices. 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 on this particular unit of forklift are sustained using the extension arms through the back bearing elements on the framework. The forces generated by the load being carried and the lift mast are transmitted into the floor or street by the vehicle framework through the front bearing parts of the drive axle. It is essential to make certain the elements of the drive axle are installed in a firm enough manner in order to maintain immovability of the forklift truck. The bearing components can minimize minor bumps or road surface irregularities throughout travel to a limited extent and provide a bit smoother operation.