

Drive Axle for Forklift

Drive Axle for Forklift - A lift truck drive axle is actually a piece of equipment that is elastically affixed to a vehicle frame using a lift mast. The lift mast is fixed to the drive axle and could be inclined around the axial centerline of the drive axle. This is accomplished by at least one tilting cylinder. Forward bearing parts together with back bearing parts 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 rear bearing components. The lift mast is also capable of being inclined relative to the drive axle. The tilting cylinder is connected to the lift truck frame and the lift mast in an articulated fashion. This enables the tilting cylinder to be oriented nearly parallel to a plane extending from the axial centerline and to the swiveling axis.

Forklift units like for example H40, H45 and H35 that are produced in Aschaffenburg, Germany by Linde AG, have the lift mast tilt ably affixed\connected on the vehicle framework. The drive axle is elastically connected to the forklift framework utilizing a multitude of bearing devices. The drive axle contains a tubular axle body along with extension arms attached to it and extend backwards. This kind of drive axle is elastically attached to the vehicle framework using back bearing parts on the extension arms along with forward bearing devices located on the axle body. There are two rear and two front bearing devices. Each one is separated in the transverse direction of the forklift from the other bearing tool in its respective pair.

The drive and braking torques of the drive axle are sustained through the back bearing parts on the frame by the extension arms. The lift mast and the load produce the forces which are transmitted into the street or floor by the frame of the vehicle through the drive axle's front bearing components. It is important to ensure the parts of the drive axle are configured in a rigid enough manner to be able to maintain strength of the forklift truck. The bearing elements can lessen minor bumps or road surface irregularities throughout travel to a limited extent and provide a bit smoother function.