

Drive Axle for Forklifts

Forklift Drive Axle - A lift truck drive axle is a piece of machinery that is elastically affixed to a vehicle framework utilizing a lift mast. The lift mast is fixed to the drive axle and could be inclined round the drive axle's axial centerline. This is done by no less than one tilting cylinder. Frontward bearing components combined with rear bearing parts of a torque bearing system are responsible for fastening the vehicle and the drive axle framework. The drive axle could be pivoted around a swiveling axis oriented horizontally and transversely 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 attached to the lift truck 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 swiveling axis to the axial centerline.

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

The braking and drive torques of the drive axle on tis particular model of lift truck are sustained using the extension arms through the rear bearing elements on the frame. The forces produced by the lift mast and the load being carried are transmitted into the floor or roadway by the vehicle frame through the front bearing components of the drive axle. It is essential to make sure the elements of the drive axle are configured in a firm enough manner in order to maintain stability of the forklift truck. The bearing components could minimize minor bumps or road surface irregularities through travel to a limited extent and provide a bit smoother operation.