

Drive Axle for Forklifts

Forklift Drive Axle - A lift truck drive axle is a piece of machinery that is elastically connected to a vehicle frame using a lift mast. The lift mast is fixed to the drive axle and is capable of being inclined round the drive axle's axial centerline. This is accomplished by no less than one tilting cylinder. Frontward 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 back bearing parts. The lift mast is also capable of being inclined relative to the drive axle. The tilting cylinder is connected to the vehicle frame and the lift mast in an articulated fashion. This allows the tilting cylinder to be oriented almost parallel to a plane extending from the swiveling axis to the axial centerline.

Forklift models like H40, H45 and H35 that are manufactured in Aschaffenburg, Germany by Linde AG, have the lift mast tilt capably attached on the vehicle framework. The drive axle is elastically connected to the lift truck framework utilizing numerous bearing devices. The drive axle has tubular axle body together with extension arms attached to it and extend backwards. This particular type of drive axle is elastically affixed to the vehicle frame using back bearing parts on the extension arms together with frontward bearing tools located on the axle body. There are two rear and two front bearing devices. 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 unit of forklift are sustained by the extension arms through the back bearing parts on the framework. The forces created by the load being carried and the lift mast are transmitted into the floor or road by the vehicle frame through the front bearing components of the drive axle. It is vital to ensure the parts of the drive axle are constructed in a firm enough manner in order to maintain immovability of the forklift truck. The bearing elements could minimize slight bumps or road surface irregularities all through travel to a limited extent and give a bit smoother function.