

Drive Axle for Forklift

Forklift Drive Axle - A lift truck drive axle is a piece of equipment that is elastically connected to a vehicle frame with a lift mast. The lift mast is connected to the drive axle and is capable of being inclined around the drive axle's axial centerline. This is done by at least one tilting cylinder. Forward bearing elements along with rear bearing parts 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 rear bearing parts. The lift mast is likewise 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 almost parallel to a plane extending from the swiveling axis to the axial centerline.

Lift truck models such as H40, H45 and H35 that are manufactured in Aschaffenburg, Germany by Linde AG, have the lift mast tilt capably mounted on the vehicle framework. The drive axle is elastically connected to the forklift frame utilizing numerous bearing tools. The drive axle contains a tubular axle body together with extension arms connected to it and extend backwards. This kind of drive axle is elastically attached to the vehicle framework by rear bearing elements on the extension arms along with frontward bearing devices 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 machine in its respective pair.

The braking and drive torques of the drive axle are maintained through the back bearing elements on the frame by the extension arms. The lift mast and the load produce the forces which are transmitted into the road or floor by the frame of the vehicle through the drive axle's anterior bearing parts. It is essential to be sure the elements of the drive axle are put together in a firm enough manner to be able to maintain stability of the lift truck truck. The bearing elements could reduce small road surface irregularities or bumps throughout travel to a limited extent and provide a bit smoother operation.