

Forklift Drive Axle

Forklift Drive Axle - A lift truck drive axle is a piece of equipment which is elastically fastened to a vehicle framework with a lift mast. The lift mast is fixed to the drive axle and could be inclined around the drive axle's axial centerline. This is done by at least one tilting cylinder. Frontward bearing elements combined with rear bearing parts of a torque bearing system are responsible for fastening the drive axle to the vehicle framework. The drive axle could be pivoted around a swiveling axis oriented horizontally and transversely in the vicinity of the back bearing components. The lift mast could likewise be inclined relative to the drive axle. The tilting cylinder is attached to the vehicle 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 swiveling axis to the axial centerline.

Lift truck units like for instance H45, H35 and H40 which are manufactured in Aschaffenburg, Germany by Linde AG, have the lift mast tilt capably attached on the vehicle frame. The drive axle is elastically connected to the lift truck framework utilizing many bearing tools. The drive axle comprise tubular axle body together with extension arms attached to it and extend rearwards. This kind of drive axle is elastically affixed to the vehicle frame 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 drive and braking torques of the drive axle are sustained through the back bearing elements on the framework using the extension arms. The lift mast and the load produce the forces that are transmitted into the road or floor by the framework of the vehicle through the drive axle's front bearing components. It is essential to ensure the parts of the drive axle are constructed in a rigid enough manner in order to maintain immovability of the lift truck truck. The bearing elements could lessen slight road surface irregularities or bumps throughout travel to a limited extent and provide a bit smoother function.