

Forklift Drive Axle

Forklift Drive Axle - The piece of equipment which is elastically fastened to the frame of the vehicle with a lift mast is referred to as the forklift drive axle. The lift mast attaches to the drive axle and could be inclined, by no less than one tilting cylinder, round the drive axle's axial centerline. Forward bearing parts combined with rear bearing elements of a torque bearing system are responsible for fastening the drive axle to the vehicle frame. The drive axle can be pivoted round a swiveling axis oriented horizontally and transversely in the vicinity of the back bearing parts. The lift mast could likewise be inclined relative to the drive axle. The tilting cylinder is connected to the vehicle frame and the lift mast in an articulated fashion. This enables the tilting cylinder to be oriented practically parallel to a plane extending from the axial centerline and to the swiveling axis.

Forklift models like for example H40, H45 and H35 that are manufactured in Aschaffenburg, Germany by Linde AG, have the lift mast tilt capably attached on the vehicle frame. The drive axle is elastically attached to the lift truck framework using numerous bearing tools. The drive axle has tubular axle body along with extension arms attached to it and extend rearwards. This particular kind of drive axle is elastically connected to the vehicle frame by back bearing parts on the extension arms together 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 lift truck from the other bearing machine in its respective pair.

The drive and braking torques of the drive axle are sustained through the back bearing components on the frame using the extension arms. The load and the lift mast produce the forces which are transmitted into the roadway or floor by the frame of the vehicle through the drive axle's front bearing components. It is essential to ensure the components of the drive axle are installed in a firm enough method in order to maintain immovability of the forklift truck. The bearing components can minimize minor bumps or road surface irregularities throughout travel to a limited extent and offer a bit smoother operation.