

Drive Axle for Forklift

Forklift Drive Axle - The piece of equipment which is elastically connected to the frame of the vehicle with a lift mast is the forklift drive axle. The lift mast affixes to the drive axle and can be inclined, by at least one tilting cylinder, around the axial centerline of the drive axle. Frontward bearing parts together 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 back bearing elements. The lift mast could also be inclined relative to the drive axle. The tilting cylinder is connected to the lift truck framework and the lift mast in an articulated fashion. This allows the tilting cylinder to be oriented nearly parallel to a plane extending from the swiveling axis to the axial centerline.

Lift truck units like H35, H40 and H45 which are manufactured in Aschaffenburg, Germany by Linde AG, have the lift mast tilt capably affixed\connected on the vehicle frame. The drive axle is elastically connected to the lift truck frame utilizing numerous bearing devices. The drive axle comprise tubular axle body together with extension arms attached to it and extend rearwards. This type of drive axle is elastically attached to the vehicle frame by back bearing parts on the extension arms along 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 vehicle from the other bearing machine in its respective pair.

The drive and braking torques of the drive axle are sustained through the rear bearing components on the framework by the extension arms. The lift mast and the load generate the forces which are transmitted into the roadway or floor by the framework of the vehicle through the drive axle's front bearing components. It is essential to ensure the components of the drive axle are constructed in a firm enough way in order to maintain strength of the lift truck truck. The bearing elements could minimize small road surface irregularities or bumps all through travel to a limited extent and provide a bit smoother function.