

Forklift Drive Axles

Forklift Drive Axle - The piece of machinery which is elastically fastened to the framework of the vehicle with a lift mast is known as the lift truck drive axle. The lift mast affixes to the drive axle and could be inclined, by no less than one tilting cylinder, around the drive axle's axial centerline. Frontward bearing elements combined with rear bearing components 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 horizontally and transversely in the vicinity of the back bearing parts. The lift mast can likewise be inclined relative to the drive axle. The tilting cylinder is attached to the lift truck frame and the lift mast in an articulated fashion. This allows the tilting cylinder to be oriented nearly parallel to a plane extending from the axial centerline and to the swiveling axis.

Unit H40, H45 and H35 forklifts, that are made by Linde AG in Aschaffenburg, Germany, have a attached lift mast tilt on the vehicle framework itself. The drive axle is elastically affixed to the frame of the forklift by numerous different bearings. The drive axle has tubular axle body along with extension arms connected to it and extend rearwards. This kind of drive axle is elastically connected to the vehicle framework using rear bearing elements on the extension arms along with forward bearing tools situated on the axle body. There are two back and two front bearing devices. Each one is separated in the transverse direction of the forklift from the other bearing tool in its respective pair.

The braking and drive torques of the drive axle are maintained through the rear bearing parts on the frame by the extension arms. The load and the lift mast create the forces which are transmitted into the street or floor by the frame of the vehicle through the drive axle's front bearing components. It is important to ensure the elements of the drive axle are configured in a firm enough way to maintain strength of the lift truck truck. The bearing components can reduce small road surface irregularities or bumps through travel to a limited extent and provide a bit smoother operation.