

Drive Axle for Forklifts

Drive Axle for Forklift - The piece of machinery which is elastically fastened to the framework of the vehicle using a lift mast is the lift truck drive axle. The lift mast attaches to the drive axle and can be inclined, by no less than one tilting cylinder, round the drive axle's axial centerline. Forward bearing components along with rear bearing components of a torque bearing system are responsible for fastening the vehicle and the drive axle frame. The drive axle could be pivoted round a swiveling axis oriented horizontally and transversely in the vicinity of the back bearing parts. The lift mast can 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 enables 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 produced by Linde AG in Aschaffenburg, Germany, have a mounted lift mast tilt on the vehicle framework itself. The drive axle is elastically affixed to the framework of the forklift by numerous various bearings. The drive axle has tubular axle body along with extension arms connected to it and extend rearwards. This particular kind of drive axle is elastically attached to the vehicle frame using rear bearing elements on the extension arms together 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 forklift from the other bearing device in its respective pair.

The braking and drive torques of the drive axle on this unit of lift truck are sustained using the extension arms through the rear bearing elements on the frame. The forces produced by the lift mast and the load being carried are transmitted into the floor or roadway by the vehicle framework through the front bearing components of the drive axle. It is important to make sure the parts of the drive axle are constructed in a rigid enough manner to be able to maintain stability of the lift truck truck. The bearing components can reduce small road surface irregularities or bumps during travel to a limited extent and offer a bit smoother function.