

Drive Axle Forklift

Forklift Drive Axles - A lift truck drive axle is actually a piece of machinery which is elastically affixed to a vehicle frame with a lift mast. The lift mast is connected to the drive axle and is capable of being inclined around the drive axle's axial centerline. This is done by at least one tilting cylinder. Forward bearing elements together with back bearing components 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 lift truck frame and the lift mast in an articulated fashion. This enables the tilting cylinder to be oriented almost parallel to a plane extending from the axial centerline and to the swiveling axis.

Model H40, H45 and H35 forklifts, which are made by Linde AG in Aschaffenburg, Germany, have a attached lift mast tilt on the vehicle frame itself. The drive axle is elastically connected to the framework of the forklift using numerous different bearings. The drive axle contains a tubular axle body together with extension arms affixed to it and extend backwards. This type of drive axle is elastically affixed to the vehicle frame using back bearing elements on the extension arms together with frontward bearing devices located 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 on tis particular model of forklift are sustained using the extension arms through the rear bearing components on the frame. The forces created by the load being carried and the lift mast are transmitted into the floor or roadway by the vehicle framework through the front bearing components of the drive axle. It is vital to be sure the components of the drive axle are put together in a rigid enough manner to maintain strength of the lift truck truck. The bearing parts could reduce minor bumps or road surface irregularities throughout travel to a limited extent and give a bit smoother operation.