

Forklift Drive Axle

Drive Axle for Forklift - The piece of equipment that is elastically fastened to the frame of the vehicle using a lift mast is the lift truck drive axle. The lift mast affixes to the drive axle and can be inclined, by at least one tilting cylinder, around the drive axle's axial centerline. Frontward bearing parts along with rear bearing components of a torque bearing system are responsible for fastening the drive axle to the vehicle frame. The drive axle can be pivoted around a swiveling axis oriented horizontally and transversely in the vicinity of the rear bearing components. The lift mast could also 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 practically parallel to a plane extending from the swiveling axis to the axial centerline.

Model H35, H40, and H45 forklifts, that are made by Linde AG in Aschaffenburg, Germany, have a mounted lift mast tilt on the vehicle frame itself. The drive axle is elastically connected to the framework of the lift truck by numerous different bearings. The drive axle comprise tubular axle body together with extension arms connected to it and extend backwards. This particular type of drive axle is elastically affixed to the vehicle framework utilizing rear bearing elements on the extension arms together with frontward 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 device in its respective pair.

The braking and drive torques of the drive axle on tis particular model of lift truck are sustained using the extension arms through the back bearing components on the framework. The forces produced by the load being carried and the lift mast are transmitted into the floor or roadway by the vehicle frame through the front bearing components of the drive axle. It is essential to make certain the elements of the drive axle are put together in a rigid enough manner to maintain strength of the forklift truck. The bearing components can reduce minor road surface irregularities or bumps throughout travel to a limited extent and give a bit smoother operation.