## Forklift Drive Axles

Drive Axle for Forklift - A lift truck drive axle is a piece of equipment which is elastically connected to a vehicle framework with a lift mast. The lift mast is connected to the drive axle and can be inclined around the axial centerline of the drive axle. This is accomplished by at least one tilting cylinder. Frontward bearing parts together with back bearing elements of a torque bearing system are responsible for fastening the drive axle to the vehicle framework. The drive axle could be pivoted around a swiveling axis oriented transversely and horizontally in the vicinity of the rear bearing components. The lift mast is also capable of being inclined relative to the drive axle. The tilting cylinder is affixed to the vehicle framework and the lift mast in an articulated fashion. This allows the tilting cylinder to be oriented almost parallel to a plane extending from the axial centerline and to the swiveling axis.

Unit H35, H40, and H45 forklifts, which are produced by Linde AG in Aschaffenburg, Germany, have a affixed lift mast tilt on the vehicle framework itself. The drive axle is elastically connected to the frame of the lift truck by many different bearings. The drive axle comprise tubular axle body together with extension arms connected to it and extend rearwards. This kind of drive axle is elastically attached to the vehicle framework using rear bearing parts on the extension arms along with frontward bearing devices located on the axle body. There are two back 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 drive and braking torques of the drive axle on tis particular model of forklift are sustained utilizing the extension arms through the back bearing parts on the framework. The forces generated by the lift mast and the load being carried are transmitted into the floor or roadway by the vehicle framework through the front bearing elements of the drive axle. It is important to be sure the parts of the drive axle are put together in a rigid enough way in order to maintain strength of the forklift truck. The bearing parts can minimize small road surface irregularities or bumps all through travel to a limited extent and give a bit smoother operation.