

## Forklift Drive Axles

Forklift Drive Axle - A lift truck drive axle is actually a piece of equipment which is elastically connected to a vehicle frame using a lift mast. The lift mast is attached to the drive axle and could be inclined around the axial centerline of the drive axle. This is done by no less than one tilting cylinder. Frontward bearing components together with rear bearing parts of a torque bearing system are responsible for fastening the drive axle to the vehicle framework. The drive axle could be pivoted round a swiveling axis oriented horizontally and transversely in the vicinity of the rear bearing elements. The lift mast could also be inclined relative to the drive axle. The tilting cylinder is connected to the vehicle 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 swiveling axis to the axial centerline.

Forklift models such as H45, H35 and H40 which are produced in Aschaffenburg, Germany by Linde AG, have the lift mast tilt capably mounted on the vehicle frame. The drive axle is elastically affixed to the lift truck framework by numerous bearing tools. The drive axle contains a tubular axle body together with extension arms attached to it and extend backwards. This particular type of drive axle is elastically connected to the vehicle framework by back bearing parts 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 vehicle from the other bearing machine in its respective pair.

The drive and braking torques of the drive axle on this particular model of lift truck are sustained by the extension arms through the back bearing components on the framework. The forces generated by the lift mast and the load being carried are transmitted into the floor or road by the vehicle frame through the front bearing elements of the drive axle. It is important to be certain the parts of the drive axle are put together in a rigid enough method in order to maintain strength of the forklift truck. The bearing components could minimize small road surface irregularities or bumps throughout travel to a limited extent and give a bit smoother function.