

## Forklift Drive Axle

Drive Axle for Forklifts - The piece of equipment which is elastically affixed to the frame of the vehicle utilizing a lift mast is called the lift truck drive axle. The lift mast attaches to the drive axle and can be inclined, by at the very least one tilting cylinder, round the axial centerline of the drive axle. Forward bearing components combined with back bearing parts of a torque bearing system are responsible for fastening the vehicle and the drive axle frame. The drive axle can be pivoted around a swiveling axis oriented horizontally and transversely in the vicinity of the rear bearing elements. The lift mast can also be inclined relative to the drive axle. The tilting cylinder is attached to the vehicle 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 axial centerline and to the swiveling axis.

Lift truck units such as H40, H45 and H35 that are produced in Aschaffenburg, Germany by Linde AG, have the lift mast tilt capably mounted on the vehicle frame. The drive axle is elastically attached to the lift truck framework using a multitude of bearing devices. The drive axle comprise tubular axle body together with extension arms affixed to it and extend backwards. This particular kind of drive axle is elastically affixed to the vehicle framework by rear bearing parts on the extension arms along with frontward bearing devices situated 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 device in its respective pair.

The braking and drive torques of the drive axle on this model of forklift are sustained by the extension arms through the back bearing elements on the frame. The forces produced by the lift mast and the load being carried are transmitted into the floor or street by the vehicle framework through the front bearing components of the drive axle. It is essential to make sure the parts of the drive axle are constructed in a rigid enough manner in order to maintain stability of the lift truck truck. The bearing components can lessen minor bumps or road surface irregularities through travel to a limited extent and give a bit smoother function.