

Forklift Drive Axles

Forklift Drive Axle - A forklift drive axle is actually a piece of equipment which is elastically connected to a vehicle frame utilizing a lift mast. The lift mast is attached to the drive axle and could be inclined around the drive axle's axial centerline. This is accomplished by at least one tilting cylinder. Frontward bearing elements along with back bearing components of a torque bearing system are responsible for fastening the drive axle to the vehicle frame. The drive axle could be pivoted round a swiveling axis oriented horizontally and transversely in the vicinity of the back 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 enables the tilting cylinder to be oriented nearly parallel to a plane extending from the axial centerline and to the swiveling axis.

Forklift units such as H40, H45 and H35 which are produced in Aschaffenburg, Germany by Linde AG, have the lift mast tilt ably attached on the vehicle framework. The drive axle is elastically attached to the forklift frame using a multitude of bearing tools. The drive axle contains a tubular axle body together with extension arms affixed to it and extend rearwards. This particular type of drive axle is elastically connected to the vehicle frame utilizing back bearing parts on the extension arms together with forward bearing tools situated on the axle body. There are two rear and two front bearing tools. Each one is separated in the transverse direction of the vehicle from the other bearing device in its respective pair.

The drive and braking torques of the drive axle on this particular unit of lift truck are sustained utilizing the extension arms through the back bearing parts on the frame. The forces produced by the lift mast and the load being carried are transmitted into the floor or roadway by the vehicle framework through the front bearing parts of the drive axle. It is vital to ensure the elements of the drive axle are installed in a firm enough manner to be able to maintain strength of the forklift truck. The bearing elements can reduce minor bumps or road surface irregularities throughout travel to a limited extent and give a bit smoother function.