

Drive Axle for Forklifts

Forklift Drive Axle - The piece of equipment which is elastically connected to the framework of the vehicle utilizing a lift mast is called the lift truck drive axle. The lift mast connects to the drive axle and could be inclined, by no less than one tilting cylinder, round the axial centerline of the drive axle. Frontward bearing elements together with rear bearing elements 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 transversely and horizontally 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 lift truck frame and the lift mast in an articulated fashion. This enables the tilting cylinder to be oriented almost parallel to a plane extending from the axial centerline and to the swiveling axis.

Model H45, H35 and H40 forklifts, that are manufactured by Linde AG in Aschaffenburg, Germany, have a connected lift mast tilt on the vehicle frame itself. The drive axle is elastically connected to the framework of the lift truck utilizing many different bearings. The drive axle contains a tubular axle body along with extension arms affixed to it and extend backwards. This particular kind of drive axle is elastically connected to the vehicle frame utilizing rear bearing elements on the extension arms along with forward bearing tools located on the axle body. There are two rear and two front bearing tools. Each one is separated in the transverse direction of the lift truck from the other bearing tool in its respective pair.

The braking and drive torques of the drive axle on this particular unit of lift truck are sustained using the extension arms through the back bearing parts on the frame. The forces produced by the load being carried and the lift mast are transmitted into the floor or street by the vehicle framework through the front bearing elements of the drive axle. It is vital to be certain the elements of the drive axle are configured in a firm enough manner to be able to maintain stability of the forklift truck. The bearing elements could minimize minor road surface irregularities or bumps through travel to a limited extent and offer a bit smoother function.