

Drive Axle Forklift

Forklift Drive Axle - The piece of machinery that is elastically affixed to the framework of the vehicle utilizing a lift mast is referred to as the forklift drive axle. The lift mast attaches to the drive axle and could be inclined, by at least one tilting cylinder, around the drive axle's axial centerline. Frontward bearing parts combined with back bearing parts of a torque bearing system are responsible for fastening the vehicle and the drive axle framework. The drive axle could be pivoted around a swiveling axis oriented horizontally and transversely in the vicinity of the rear bearing parts. The lift mast is also capable of being inclined relative to the drive axle. The tilting cylinder is connected to the vehicle framework and the lift mast in an articulated fashion. This enables the tilting cylinder to be oriented almost parallel to a plane extending from the swiveling axis to the axial centerline.

Lift truck models like for instance H35, H40 and H45 which are manufactured 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 forklift frame using a multitude of bearing devices. The drive axle contains a tubular axle body together with extension arms affixed to it and extend rearwards. This particular kind of drive axle is elastically connected to the vehicle framework utilizing rear bearing parts on the extension arms together with frontward bearing tools located on the axle body. There are two back 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 drive and braking torques of the drive axle on this particular unit of forklift are sustained utilizing the extension arms through the rear bearing components 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 essential to ensure the elements of the drive axle are constructed in a rigid enough manner to maintain immovability of the forklift truck. The bearing parts could minimize minor bumps or road surface irregularities through travel to a limited extent and provide a bit smoother operation.