

Drive Axle for Forklift

Forklift Drive Axle - The piece of equipment that is elastically connected to the framework of the vehicle using a lift mast is known as 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, around the drive axle's axial centerline. Forward bearing parts together 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 elements. 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 practically parallel to a plane extending from the swiveling axis to the axial centerline.

Lift truck units like for instance H35, H40 and H45 which are made in Aschaffenburg, Germany by Linde AG, have the lift mast tilt capably attached on the vehicle frame. The drive axle is elastically attached to the lift truck frame by a multitude of bearing tools. The drive axle consists of tubular axle body along with extension arms affixed to it and extend backwards. This particular type of drive axle is elastically affixed to the vehicle framework using back bearing parts on the extension arms together with frontward 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 vehicle from the other bearing tool in its respective pair.

The braking and drive torques of the drive axle on this model of lift truck are sustained utilizing the extension arms through the rear bearing components on the frame. The forces created by the lift mast and the load being carried are transmitted into the floor or road by the vehicle frame through the front bearing parts of the drive axle. It is important to be sure the parts of the drive axle are put together in a rigid enough way to be able to maintain stability of the forklift truck. The bearing elements could minimize small bumps or road surface irregularities during travel to a limited extent and offer a bit smoother function.