

Forklift Drive Axle

Drive Axle for Forklift - The piece of machinery that is elastically fastened to the framework of the vehicle utilizing a lift mast is called the forklift drive axle. The lift mast affixes to the drive axle and could be inclined, by at the very least one tilting cylinder, around the drive axle's axial centerline. Forward bearing components along with back bearing components 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 transversely and horizontally in the vicinity of the rear bearing parts. The lift mast is likewise capable of being inclined relative to the drive axle. The tilting cylinder is attached 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.

Forklift units like H45, H35 and H40 which are made 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 lift truck framework using many bearing tools. The drive axle consists of tubular axle body along with extension arms affixed to it and extend rearwards. This type of drive axle is elastically connected to the vehicle frame using back bearing parts on the extension arms together with frontward bearing devices located on the axle body. There are two back and two front bearing devices. 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 model of forklift are sustained utilizing the extension arms through the back 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 framework through the front bearing parts of the drive axle. It is important to be sure the parts of the drive axle are constructed in a rigid enough manner in order to maintain immovability 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.