

Drive Axle for Forklifts

Drive Axle for Forklifts - The piece of machinery which is elastically affixed to the frame of the vehicle with 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 the very least one tilting cylinder, around the axial centerline of the drive axle. Forward bearing elements combined with rear 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 back bearing parts. The lift mast is likewise 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 allows the tilting cylinder to be oriented practically 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 attached on the vehicle framework. The drive axle is elastically affixed to the lift truck framework using a multitude of bearing devices. The drive axle has tubular axle body together with extension arms connected to it and extend backwards. This particular kind of drive axle is elastically affixed to the vehicle frame by rear bearing elements on the extension arms along with forward bearing devices 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 unit of forklift are sustained utilizing the extension arms through the rear bearing parts on the framework. 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 elements of the drive axle. It is important to make certain the elements of the drive axle are installed in a firm enough manner so as to maintain immovability of the forklift truck. The bearing elements can lessen slight bumps or road surface irregularities through travel to a limited extent and provide a bit smoother function.