

Drive Axle for Forklifts

Forklift Drive Axle - A forklift drive axle is actually a piece of equipment which is elastically fastened to a vehicle framework utilizing a lift mast. The lift mast is attached to the drive axle and can be inclined around the drive axle's axial centerline. This is done by no less than one tilting cylinder. Frontward bearing components combined with back bearing components of a torque bearing system are responsible for fastening the drive axle to the vehicle framework. The drive axle can be pivoted around a swiveling axis oriented horizontally and transversely in the vicinity of the back bearing elements. The lift mast can also be 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 allows the tilting cylinder to be oriented practically parallel to a plane extending from the axial centerline and to the swiveling axis.

Forklift models like for example H40, H45 and H35 that 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 utilizing numerous bearing devices. The drive axle contains a tubular axle body along with extension arms affixed to it and extend backwards. This type of drive axle is elastically affixed to the vehicle frame utilizing 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 devices. Each one is separated in the transverse direction of the forklift from the other bearing device in its respective pair.

The braking and drive torques of the drive axle on this particular model of forklift are sustained utilizing the extension arms through the rear bearing components on the framework. 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 elements of the drive axle. It is important to ensure the elements of the drive axle are put together in a rigid enough method in order to maintain stability of the forklift truck. The bearing parts could minimize minor road surface irregularities or bumps during travel to a limited extent and provide a bit smoother function.