

Forklift Drive Axle

Forklift Drive Axle - A forklift drive axle is actually a piece of equipment which is elastically fastened to a vehicle framework with a lift mast. The lift mast is attached to the drive axle and is capable of being inclined around the axial centerline of the drive axle. This is done by at the very least one tilting cylinder. Forward bearing components along with rear bearing parts of a torque bearing system are responsible for fastening the drive axle to the vehicle framework. The drive axle could be pivoted around a swiveling axis oriented horizontally and transversely in the vicinity of the rear bearing elements. The lift mast can also be inclined relative to the drive axle. The tilting cylinder is attached to the vehicle 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.

Lift truck models like for example H45, H35 and H40 which are made in Aschaffenburg, Germany by Linde AG, have the lift mast tilt ably affixedconnected on the vehicle frame. The drive axle is elastically attached to the forklift frame by numerous bearing tools. The drive axle consists of tubular axle body together with extension arms affixed to it and extend rearwards. This type of drive axle is elastically connected to the vehicle framework using back bearing parts on the extension arms together with forward bearing devices situated on the axle body. There are two back and two front bearing devices. Each one is separated in the transverse direction of the lift truck from the other bearing device in its respective pair.

The braking and drive torques of the drive axle on this unit of lift truck are sustained utilizing the extension arms through the back bearing components on the frame. The forces produced by the load being carried and the lift mast are transmitted into the floor or road by the vehicle frame through the front bearing elements of the drive axle. It is important to ensure the elements of the drive axle are configured in a firm enough way to be able to maintain stability of the forklift truck. The bearing components can reduce small road surface irregularities or bumps all through travel to a limited extent and give a bit smoother operation.