

Drive Axle Forklift

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

Forklift models such as H45, H35 and H40 that are manufactured in Aschaffenburg, Germany by Linde AG, have the lift mast tiltably affixed\connected on the vehicle frame. The drive axle is elastically connected to the lift truck frame using many bearing devices. The drive axle consists of tubular axle body along with extension arms attached to it and extend rearwards. This type of drive axle is elastically attached to the vehicle frame utilizing back bearing parts on the extension arms along with frontward bearing tools 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 are maintained through the rear bearing parts on the frame by the extension arms. The lift mast and the load generate the forces which are transmitted into the street or floor by the frame of the vehicle through the drive axle's front bearing elements. It is vital to ensure the parts of the drive axle are constructed in a rigid enough manner to maintain strength of the forklift truck. The bearing elements could minimize small road surface irregularities or bumps through travel to a limited extent and offer a bit smoother operation.