

Forklift Drive Axle

Drive Axle for Forklift - A forklift drive axle is actually a piece of machinery that is elastically connected to a vehicle framework using a lift mast. The lift mast is connected to the drive axle and is capable of being inclined round the drive axle's axial centerline. This is done by no less than one tilting cylinder. Frontward bearing elements combined with back bearing elements 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 rear bearing parts. The lift mast can also be 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.

Unit H45, H35 and H40 forklifts, that are made by Linde AG in Aschaffenburg, Germany, have a mounted lift mast tilt on the vehicle framework itself. The drive axle is elastically attached to the framework of the forklift utilizing many various bearings. The drive axle has tubular axle body along with extension arms connected to it and extend backwards. This type of drive axle is elastically connected to the vehicle framework by rear bearing parts on the extension arms together with forward bearing tools located on the axle body. There are two back and two front bearing tools. 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 are maintained through the back bearing components on the framework by the extension arms. The load and the lift mast generate the forces that are transmitted into the street or floor by the framework of the vehicle through the drive axle's anterior bearing elements. It is important to make sure the components of the drive axle are configured in a firm enough manner so as to maintain stability of the forklift truck. The bearing elements can lessen minor bumps or road surface irregularities through travel to a limited extent and provide a bit smoother operation.