

Drive Axle Forklift

Drive Axle for Forklifts - A lift truck drive axle is a piece of machinery which is elastically fastened to a vehicle framework with a lift mast. The lift mast is connected to the drive axle and is capable of being inclined round the axial centerline of the drive axle. This is done by no less than one tilting cylinder. Forward bearing elements combined with rear bearing components of a torque bearing system are responsible for fastening the drive axle to the vehicle framework. The drive axle could be pivoted round a swiveling axis oriented transversely and horizontally in the vicinity of the back bearing components. The lift mast is likewise capable of being inclined relative to the drive axle. The tilting cylinder is connected to the lift truck frame and the lift mast in an articulated fashion. This enables the tilting cylinder to be oriented practically parallel to a plane extending from the swiveling axis to the axial centerline.

Unit H40, H45 and H35 forklifts, that are produced by Linde AG in Aschaffenburg, Germany, have a affixed lift mast tilt on the vehicle frame itself. The drive axle is elastically connected to the frame of the lift truck using numerous different bearings. The drive axle consists of tubular axle body together with extension arms affixed to it and extend rearwards. This kind of drive axle is elastically connected to the vehicle frame using back bearing elements on the extension arms along with forward bearing devices situated on the axle body. There are two rear and two front bearing devices. Each one is separated in the transverse direction of the vehicle from the other bearing tool in its respective pair.

The braking and drive torques of the drive axle are sustained through the back bearing components on the frame utilizing the extension arms. The load and the lift mast produce the forces which are transmitted into the street or floor by the frame of the vehicle through the drive axle's anterior bearing parts. It is important to ensure the parts of the drive axle are installed in a rigid enough manner so as to maintain strength of the forklift truck. The bearing elements could reduce slight road surface irregularities or bumps during travel to a limited extent and provide a bit smoother operation.