

Drive Axle Forklift

Drive Axle for Forklifts - The piece of machinery that is elastically fastened to the framework of the vehicle using a lift mast is called the forklift drive axle. The lift mast connects to the drive axle and can be inclined, by no less than one tilting cylinder, around the axial centerline of the drive axle. Frontward bearing elements along with rear bearing parts of a torque bearing system are responsible for fastening the drive axle to the vehicle frame. The drive axle can be pivoted round a swiveling axis oriented horizontally and transversely in the vicinity of the back bearing parts. 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 almost parallel to a plane extending from the swiveling axis to the axial centerline.

Unit H45, H35 and H40 forklifts, that are manufactured by Linde AG in Aschaffenburg, Germany, have a mounted lift mast tilt on the vehicle framework itself. The drive axle is elastically connected to the frame of the forklift by many different bearings. The drive axle has tubular axle body together with extension arms connected to it and extend rearwards. This type of drive axle is elastically affixed to the vehicle frame utilizing rear bearing parts on the extension arms together with forward 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 vehicle from the other bearing tool in its respective pair.

The drive and braking torques of the drive axle on this particular model of forklift are sustained by the extension arms through the rear bearing elements on the frame. The forces generated by the lift mast and the load being carried are transmitted into the floor or street by the vehicle frame through the front bearing elements of the drive axle. It is vital to ensure the components of the drive axle are configured in a rigid enough method to be able to maintain strength of the forklift truck. The bearing parts could lessen small road surface irregularities or bumps through travel to a limited extent and provide a bit smoother operation.