

Drive Axle for Forklift

Forklift Drive Axles - A forklift drive axle is a piece of machinery which is elastically connected to a vehicle framework with a lift mast. The lift mast is attached to the drive axle and could be inclined round the drive axle's axial centerline. This is accomplished by at least one tilting cylinder. Forward bearing parts 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 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 affixed 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 axial centerline and to the swiveling axis.

Lift truck units such as H40, H45 and H35 that are manufactured in Aschaffenburg, Germany by Linde AG, have the lift mast tilt ably attached on the vehicle framework. The drive axle is elastically connected to the lift truck framework utilizing many bearing tools. The drive axle has tubular axle body together with extension arms attached to it and extend backwards. This type of drive axle is elastically attached to the vehicle framework utilizing back bearing parts on the extension arms together with frontward 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 vehicle from the other bearing device in its respective pair.

The drive and braking torques of the drive axle are maintained through the rear bearing elements on the framework utilizing the extension arms. The lift mast and the load produce the forces which are transmitted into the road or floor by the frame of the vehicle through the drive axle's front bearing parts. It is vital to be certain the parts of the drive axle are put together in a firm enough way so as to maintain stability of the lift truck truck. The bearing components could minimize slight road surface irregularities or bumps throughout travel to a limited extent and give a bit smoother operation.