

Forklift Drive Axle

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

Unit H40, H45 and H35 forklifts, that are manufactured by Linde AG in Aschaffenburg, Germany, have a attached lift mast tilt on the vehicle framework itself. The drive axle is elastically affixed to the framework of the forklift by numerous different bearings. The drive axle has tubular axle body together with extension arms connected to it and extend backwards. This kind of drive axle is elastically connected to the vehicle framework by rear bearing parts on the extension arms together with frontward bearing tools situated on the axle body. There are two back and two front bearing devices. Each one is separated in the transverse direction of the lift truck from the other bearing machine in its respective pair.

The braking and drive torques of the drive axle are maintained through the back bearing elements on the frame utilizing the extension arms. The lift mast and the load produce the forces which are transmitted into the street or floor by the framework of the vehicle through the drive axle's front bearing parts. It is important to make certain the parts of the drive axle are constructed in a rigid enough manner in order to maintain strength of the forklift truck. The bearing parts could reduce small road surface irregularities or bumps through travel to a limited extent and give a bit smoother operation.