

Forklift Drive Axle

Drive Axle Forklift - The piece of equipment which is elastically fastened to the frame of the vehicle using a lift mast is called the forklift drive axle. The lift mast affixes to the drive axle and can be inclined, by at least one tilting cylinder, around the axial centerline of the drive axle. Forward bearing components combined with back bearing elements of a torque bearing system are responsible for fastening the drive axle to the vehicle framework. The drive axle can be pivoted around a swiveling axis oriented transversely and horizontally in the vicinity of the back bearing elements. The lift mast could likewise be 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 allows the tilting cylinder to be oriented almost parallel to a plane extending from the axial centerline and to the swiveling axis.

Lift truck units like H35, H40 and H45 that are manufactured in Aschaffenburg, Germany by Linde AG, have the lift mast tilt capably affixed\connected on the vehicle framework. The drive axle is elastically affixed to the lift truck frame by many bearing devices. The drive axle contains a tubular axle body along with extension arms connected to it and extend backwards. This kind of drive axle is elastically connected to the vehicle framework 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 tools. Each one is separated in the transverse direction of the forklift from the other bearing tool in its respective pair.

The braking and drive torques of the drive axle on this model of lift truck are sustained by the extension arms through the back bearing components on the framework. The forces created by the load being carried and the lift mast are transmitted into the floor or roadway by the vehicle framework through the front bearing components of the drive axle. It is important to be sure the components of the drive axle are installed in a firm enough method to maintain stability of the forklift truck. The bearing components could lessen slight road surface irregularities or bumps during travel to a limited extent and provide a bit smoother operation.