

Forklift Drive Axle

Drive Axle for Forklifts - The piece of machinery which is elastically affixed to the framework of the vehicle utilizing a lift mast is referred to as 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. Frontward bearing components along with rear bearing elements of a torque bearing system are responsible for fastening the drive axle to the vehicle frame. The drive axle can be pivoted around a swiveling axis oriented horizontally and transversely in the vicinity of the rear bearing elements. The lift mast could likewise be inclined relative to the drive axle. The tilting cylinder is affixed 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.

Unit H35, H40, and H45 forklifts, that are manufactured by Linde AG in Aschaffenburg, Germany, have a connected lift mast tilt on the vehicle frame itself. The drive axle is elastically attached to the frame of the lift truck utilizing many various bearings. The drive axle has tubular axle body together with extension arms affixed to it and extend backwards. This particular kind of drive axle is elastically connected to the vehicle frame by rear bearing parts on the extension arms along with frontward 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 vehicle from the other bearing device in its respective pair.

The braking and drive torques of the drive axle on this particular model of forklift are sustained using the extension arms through the rear bearing components on the framework. The forces generated by the lift mast and the load being carried are transmitted into the floor or road by the vehicle framework through the front bearing parts of the drive axle. It is important to ensure the elements of the drive axle are configured in a rigid enough manner in order to maintain immovability of the lift truck truck. The bearing components could lessen small bumps or road surface irregularities throughout travel to a limited extent and provide a bit smoother function.