

Forklift Drive Axle

Forklift Drive Axle - The piece of equipment which is elastically fastened 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 drive axle's axial centerline. Forward bearing components combined with rear bearing elements of a torque bearing system are responsible for fastening the vehicle and the drive axle frame. The drive axle could be pivoted around a swiveling axis oriented horizontally and transversely in the vicinity of the back bearing components. The lift mast is likewise capable of being inclined relative to the drive axle. The tilting cylinder is attached to the vehicle frame and the lift mast in an articulated fashion. This enables the tilting cylinder to be oriented nearly parallel to a plane extending from the swiveling axis to the axial centerline.

Model H45, H35 and H40 forklifts, which are produced by Linde AG in Aschaffenburg, Germany, have a connected lift mast tilt on the vehicle framework itself. The drive axle is elastically attached to the framework of the forklift by numerous various bearings. The drive axle contains a tubular axle body together with extension arms affixed to it and extend rearwards. This type of drive axle is elastically attached to the vehicle framework utilizing rear bearing parts on the extension arms along with forward bearing devices located on the axle body. There are two rear 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 on this unit of lift truck are sustained by the extension arms through the back bearing components on the frame. The forces produced by the load being carried and the lift mast are transmitted into the floor or street by the vehicle framework through the front bearing components of the drive axle. It is vital to ensure the parts of the drive axle are put together in a firm enough method in order to maintain immovability of the forklift truck. The bearing components can minimize small bumps or road surface irregularities during travel to a limited extent and give a bit smoother operation.