Drive Axle for Forklifts

Forklift Drive Axle - The piece of machinery that is elastically connected to the frame of the vehicle using a lift mast is referred to as the lift truck drive axle. The lift mast affixes to the drive axle and could be inclined, by no less than one tilting cylinder, around the drive axle's axial centerline. Forward bearing parts combined with back bearing elements of a torque bearing system are responsible for fastening the drive axle to the vehicle frame. The drive axle can be pivoted round a swiveling axis oriented horizontally and transversely in the vicinity of the back bearing parts. The lift mast can also be inclined relative to the drive axle. The tilting cylinder is affixed to the vehicle frame and the lift mast in an articulated fashion. This enables 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, 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 connected to the frame of the lift truck by numerous various bearings. The drive axle comprise tubular axle body together with extension arms connected to it and extend backwards. This particular type of drive axle is elastically affixed to the vehicle frame by back bearing parts on the extension arms together with frontward bearing tools located on the axle body. There are two back 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 unit of lift truck are sustained using the extension arms through the back bearing parts on the frame. The forces created by the lift mast and the load being carried are transmitted into the floor or roadway by the vehicle framework through the front bearing components of the drive axle. It is essential to make certain the elements of the drive axle are configured in a rigid enough method to maintain strength of the lift truck truck. The bearing elements could lessen minor bumps or road surface irregularities all through travel to a limited extent and provide a bit smoother function.