Drive Axle Forklift

Forklift Drive Axle - A lift truck drive axle is a piece of machinery that is elastically connected to a vehicle framework with a lift mast. The lift mast is fixed to the drive axle and could be inclined round the drive axle's axial centerline. This is done by at the very least one tilting cylinder. Forward bearing components combined with back bearing components of a torque bearing system are responsible for fastening the vehicle and the drive axle framework. The drive axle could be pivoted round a swiveling axis oriented transversely and horizontally in the vicinity of the back bearing parts. The lift mast can also be inclined relative to the drive axle. The tilting cylinder is connected 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 axial centerline and to the swiveling axis.

Unit H35, H40, and H45 forklifts, which are produced by Linde AG in Aschaffenburg, Germany, have a mounted lift mast tilt on the vehicle frame itself. The drive axle is elastically affixed to the frame of the lift truck utilizing numerous different bearings. The drive axle has tubular axle body together with extension arms connected to it and extend rearwards. This particular type of drive axle is elastically attached to the vehicle framework utilizing back bearing elements on the extension arms together with frontward bearing tools situated 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 machine in its respective pair.

The braking and drive torques of the drive axle on this unit of forklift are sustained using the extension arms through the back bearing parts on the frame. The forces generated by the load being carried and the lift mast are transmitted into the floor or roadway by the vehicle framework through the front bearing elements of the drive axle. It is important to make certain the parts of the drive axle are installed in a firm enough manner to maintain immovability of the forklift truck. The bearing elements can reduce minor road surface irregularities or bumps through travel to a limited extent and give a bit smoother function.