Forklift Drive Axles

Forklift Drive Axle - A lift truck drive axle is actually a piece of equipment which is elastically fastened to a vehicle frame using a lift mast. The lift mast is connected to the drive axle and could be inclined around the drive axle's axial centerline. This is accomplished by at least one tilting cylinder. Frontward bearing components together with rear bearing components 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 components. The lift mast is also capable of being 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 enables the tilting cylinder to be oriented almost parallel to a plane extending from the swiveling axis to the axial centerline.

Unit H40, H45 and H35 forklifts, that are produced by Linde AG in Aschaffenburg, Germany, have a attached lift mast tilt on the vehicle frame itself. The drive axle is elastically attached to the framework of the forklift by numerous 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 affixed to the vehicle frame using back bearing elements on the extension arms along with forward 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 lift truck from the other bearing device in its respective pair.

The braking and drive torques of the drive axle on this unit of lift truck are sustained utilizing the extension arms through the rear bearing components on the framework. 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 components of the drive axle. It is important to ensure the parts of the drive axle are configured in a firm enough method to maintain strength of the forklift truck. The bearing elements can minimize minor road surface irregularities or bumps all through travel to a limited extent and provide a bit smoother operation.