Drive Axle for Forklift

Forklift Drive Axle - The piece of equipment that is elastically affixed to the framework of the vehicle with a lift mast is known as the lift truck drive axle. The lift mast connects to the drive axle and can be inclined, by at the very least one tilting cylinder, around the drive axle's axial centerline. Frontward bearing components along with rear bearing components of a torque bearing system are responsible for fastening the drive axle to the vehicle framework. The drive axle could be pivoted round a swiveling axis oriented horizontally and transversely in the vicinity of the rear bearing parts. The lift mast is also capable of being 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 practically parallel to a plane extending from the axial centerline and to the swiveling axis.

Model H35, H40, and H45 forklifts, that are made by Linde AG in Aschaffenburg, Germany, have a affixed lift mast tilt on the vehicle framework itself. The drive axle is elastically affixed to the frame of the lift truck by numerous various bearings. The drive axle comprise tubular axle body along with extension arms attached to it and extend rearwards. This kind of drive axle is elastically affixed to the vehicle framework using 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 devices. Each one is separated in the transverse direction of the lift truck from the other bearing tool in its respective pair.

The braking and drive torques of the drive axle are maintained through the back bearing elements on the frame using the extension arms. The load and the lift mast produce the forces which are transmitted into the street or floor by the framework of the vehicle through the drive axle's front bearing components. It is essential to make sure the parts of the drive axle are configured in a rigid enough way to be able to maintain immovability of the lift truck truck. The bearing parts could minimize small road surface irregularities or bumps during travel to a limited extent and give a bit smoother function.