Forklift Drive Axle

Forklift Drive Axle - A lift truck drive axle is a piece of machinery that is elastically connected to a vehicle framework using a lift mast. The lift mast is fixed to the drive axle and is capable of being inclined round the drive axle's axial centerline. This is done by no less than one tilting cylinder. Frontward bearing components along with rear bearing components of a torque bearing system are responsible for fastening the drive axle to the vehicle frame. The drive axle can be pivoted around a swiveling axis oriented horizontally and transversely in the vicinity of the back bearing components. The lift mast can likewise be inclined relative to the drive axle. The tilting cylinder is connected to the lift truck frame and the lift mast in an articulated fashion. This allows the tilting cylinder to be oriented nearly parallel to a plane extending from the axial centerline and to the swiveling axis.

Lift truck models such as H35, H40 and H45 which are manufactured in Aschaffenburg, Germany by Linde AG, have the lift mast tilt capably mounted on the vehicle frame. The drive axle is elastically affixed to the forklift frame utilizing a multitude of bearing tools. The drive axle comprise tubular axle body along with extension arms attached to it and extend rearwards. This kind of drive axle is elastically attached to the vehicle frame by rear bearing elements on the extension arms together with frontward bearing devices located on the axle body. There are two rear and two front bearing tools. Each one is separated in the transverse direction of the lift truck from the other bearing tool in its respective pair.

The drive and braking torques of the drive axle on this unit of lift truck are sustained using the extension arms through the rear bearing parts on the framework. The forces generated by the lift mast and the load being carried are transmitted into the floor or roadway by the vehicle frame through the front bearing components of the drive axle. It is essential to be certain the components of the drive axle are installed in a firm enough way so as to maintain stability of the lift truck truck. The bearing elements can lessen slight road surface irregularities or bumps throughout travel to a limited extent and give a bit smoother operation.