Drive Axle for Forklifts

Forklift Drive Axle - A lift truck drive axle is a piece of machinery which is elastically affixed to a vehicle frame with a lift mast. The lift mast is fixed to the drive axle and can be inclined around the axial centerline of the drive axle. This is accomplished by at the very least one tilting cylinder. Frontward bearing components combined with rear bearing elements of a torque bearing system are responsible for fastening the drive axle to the vehicle frame. The drive axle could be pivoted around a swiveling axis oriented transversely and horizontally in the vicinity of the rear bearing components. The lift mast is also capable of being inclined relative to the drive axle. The tilting cylinder is attached to the lift truck framework 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.

Model H45, H35 and H40 forklifts, that are manufactured 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 frame of the forklift using numerous different bearings. The drive axle consists of tubular axle body along with extension arms connected to it and extend backwards. This kind of drive axle is elastically connected to the vehicle frame using back bearing elements on the extension arms together with frontward bearing devices located on the axle body. There are two back and two front bearing tools. Each one is separated in the transverse direction of the vehicle from the other bearing tool in its respective pair.

The braking and drive torques of the drive axle are maintained through the rear bearing parts 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 anterior bearing elements. It is vital to be certain the elements of the drive axle are installed in a rigid enough manner to be able to maintain stability of the lift truck truck. The bearing elements can reduce minor road surface irregularities or bumps throughout travel to a limited extent and give a bit smoother operation.