Forklift Drive Axle

Forklift Drive Axles - A lift truck drive axle is a piece of machinery which is elastically affixed to a vehicle framework utilizing a lift mast. The lift mast is attached to the drive axle and could be inclined around the axial centerline of the drive axle. This is done by at least one tilting cylinder. Forward bearing components combined with back bearing parts of a torque bearing system are responsible for fastening the vehicle and the drive axle framework. The drive axle could be pivoted around a swiveling axis oriented transversely and horizontally in the vicinity of the rear bearing parts. The lift mast is likewise 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 nearly parallel to a plane extending from the swiveling axis to the axial centerline.

Unit H45, H35 and H40 forklifts, which are manufactured by Linde AG in Aschaffenburg, Germany, have a connected lift mast tilt on the vehicle framework itself. The drive axle is elastically connected to the frame of the lift truck using numerous different bearings. The drive axle has tubular axle body together with extension arms connected to it and extend backwards. This kind of drive axle is elastically attached to the vehicle frame utilizing back bearing parts on the extension arms together with frontward bearing tools located on the axle body. There are two back and two front bearing devices. Each one is separated in the transverse direction of the forklift from the other bearing machine 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 back bearing components on the frame. The forces produced by the lift mast and the load being carried are transmitted into the floor or road by the vehicle frame through the front bearing elements of the drive axle. It is essential to be certain the elements of the drive axle are constructed in a firm enough way in order to maintain stability of the forklift truck. The bearing components could reduce slight road surface irregularities or bumps through travel to a limited extent and provide a bit smoother function.