Forklift Drive Axles

Drive Axle for Forklifts - The piece of equipment that is elastically connected to the frame of the vehicle using a lift mast is known as the forklift drive axle. The lift mast connects to the drive axle and could be inclined, by at the very least one tilting cylinder, round the drive axle's axial centerline. Frontward bearing components combined with rear bearing parts 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 transversely and horizontally in the vicinity of the rear bearing elements. The lift mast could also be inclined relative to the drive axle. The tilting cylinder is connected to the vehicle 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.

Unit H45, H35 and H40 forklifts, that are produced by Linde AG in Aschaffenburg, Germany, have a mounted lift mast tilt on the vehicle frame itself. The drive axle is elastically connected to the framework of the forklift using numerous various bearings. The drive axle has tubular axle body along with extension arms attached to it and extend rearwards. This kind of drive axle is elastically connected to the vehicle framework using rear bearing parts on the extension arms together with forward bearing devices located on the axle body. There are two rear and two front bearing devices. Each one is separated in the transverse direction of the forklift from the other bearing device in its respective pair.

The drive and braking torques of the drive axle on this model of lift truck are sustained by the extension arms through the rear bearing elements on the frame. The forces generated by the lift mast and the load being carried are transmitted into the floor or road by the vehicle framework through the front bearing components of the drive axle. It is essential to make certain the elements of the drive axle are constructed in a rigid enough way to maintain strength of the lift truck truck. The bearing parts can reduce slight road surface irregularities or bumps through travel to a limited extent and give a bit smoother function.