Drive Axle for Forklifts

Forklift Drive Axle - The piece of machinery that is elastically fastened to the frame 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 least one tilting cylinder, around the drive axle's axial centerline. Frontward bearing elements 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 round a swiveling axis oriented transversely and horizontally in the vicinity of the back bearing elements. The lift mast is likewise capable of being inclined relative to the drive axle. The tilting cylinder is affixed to the vehicle framework 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.

Model H45, H35 and H40 forklifts, that are made by Linde AG in Aschaffenburg, Germany, have a affixed lift mast tilt on the vehicle frame itself. The drive axle is elastically connected to the framework of the forklift by numerous different bearings. The drive axle has tubular axle body along with extension arms affixed to it and extend backwards. This type of drive axle is elastically attached to the vehicle framework utilizing back bearing parts on the extension arms together with forward bearing devices situated on the axle body. There are two back 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 on this model of lift truck are sustained utilizing the extension arms through the back bearing components on the frame. The forces created by the load being carried and the lift mast are transmitted into the floor or street by the vehicle framework through the front bearing components of the drive axle. It is important to be certain the parts of the drive axle are installed in a firm enough method to maintain strength of the lift truck truck. The bearing elements could lessen small bumps or road surface irregularities throughout travel to a limited extent and give a bit smoother operation.