Drive Axle Forklift

Drive Axle Forklift - 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 could be inclined round the drive axle's axial centerline. This is done by no less than one tilting cylinder. Forward bearing components combined with rear bearing elements of a torque bearing system are responsible for fastening the drive axle to the vehicle framework. The drive axle can be pivoted round a swiveling axis oriented horizontally and transversely in the vicinity of the back bearing components. The lift mast is also capable of being inclined relative to the drive axle. The tilting cylinder is connected 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 H40, H45 and H35 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 affixed to the frame of the forklift using numerous various bearings. The drive axle consists of tubular axle body along with extension arms affixed to it and extend rearwards. This type of drive axle is elastically connected to the vehicle frame by rear bearing parts on the extension arms along with frontward bearing devices situated 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 braking and drive torques of the drive axle are sustained through the rear bearing elements on the framework by the extension arms. The load and the lift mast produce the forces which are transmitted into the roadway or floor by the frame of the vehicle through the drive axle's front bearing elements. It is important to be certain the elements of the drive axle are put together in a rigid enough way in order to maintain immovability of the forklift truck. The bearing components can reduce small road surface irregularities or bumps through travel to a limited extent and give a bit smoother function.