Drive Axle Forklift

Forklift Drive Axle - The piece of equipment which is elastically fastened to the frame of the vehicle using a lift mast is called the forklift drive axle. The lift mast affixes to the drive axle and could be inclined, by at least one tilting cylinder, around the drive axle's axial centerline. Forward bearing parts together with rear bearing components of a torque bearing system are responsible for fastening the drive axle to the vehicle framework. The drive axle could be pivoted round a swiveling axis oriented transversely and horizontally in the vicinity of the back bearing parts. The lift mast can likewise be inclined relative to the drive axle. The tilting cylinder is affixed to the lift truck frame 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.

Lift truck models such as H40, H45 and H35 that are manufactured in Aschaffenburg, Germany by Linde AG, have the lift mast tilt ably affixed\connected on the vehicle frame. The drive axle is elastically attached to the forklift frame by a multitude of bearing devices. The drive axle consists of tubular axle body together with extension arms affixed to it and extend backwards. This type of drive axle is elastically attached to the vehicle framework by rear bearing parts on the extension arms along with frontward bearing tools situated on the axle body. There are two back and two front bearing tools. 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 tis particular unit of lift truck are sustained by the extension arms through the back bearing elements on the frame. The forces generated by the load being carried and the lift mast are transmitted into the floor or road by the vehicle framework through the front bearing components of the drive axle. It is essential to be sure the components of the drive axle are put together in a rigid enough method so as to maintain strength of the forklift truck. The bearing components could minimize small road surface irregularities or bumps through travel to a limited extent and give a bit smoother operation.