Drive Axle for Forklift

Forklift Drive Axle - A lift truck drive axle is a piece of equipment which is elastically fastened to a vehicle frame utilizing a lift mast. The lift mast is attached to the drive axle and can be inclined round the axial centerline of the drive axle. This is done by no less than one tilting cylinder. Frontward bearing components together with back bearing components of a torque bearing system are responsible for fastening the vehicle and the drive axle frame. The drive axle could be pivoted around a swiveling axis oriented transversely and horizontally in the vicinity of the back bearing elements. The lift mast can likewise be inclined relative to the drive axle. The tilting cylinder is attached to the vehicle framework and the lift mast in an articulated fashion. This allows the tilting cylinder to be oriented practically parallel to a plane extending from the swiveling axis to the axial centerline.

Unit H35, H40, and H45 forklifts, that are manufactured by Linde AG in Aschaffenburg, Germany, have a connected lift mast tilt on the vehicle frame itself. The drive axle is elastically connected to the frame of the lift truck utilizing numerous different bearings. The drive axle contains a tubular axle body along with extension arms connected to it and extend backwards. This type of drive axle is elastically attached to the vehicle framework using back bearing parts on the extension arms along with forward bearing tools 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 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 rear bearing components on the framework. The forces generated by the lift mast and the load being carried are transmitted into the floor or roadway by the vehicle frame through the front bearing components of the drive axle. It is essential to make sure the elements of the drive axle are constructed in a rigid enough method in order to maintain immovability of the forklift truck. The bearing components can minimize slight road surface irregularities or bumps throughout travel to a limited extent and provide a bit smoother operation.