Drive Axle for Forklifts

Forklift Drive Axle - The piece of equipment that is elastically connected to the frame of the vehicle using 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, round the axial centerline of the drive axle. Forward bearing elements along with back bearing parts 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 rear bearing elements. The lift mast is also capable of being inclined relative to the drive axle. The tilting cylinder is affixed to the vehicle frame and the lift mast in an articulated fashion. This enables the tilting cylinder to be oriented practically parallel to a plane extending from the swiveling axis to the axial centerline.

Unit H45, H35 and H40 forklifts, that are made by Linde AG in Aschaffenburg, Germany, have a connected lift mast tilt on the vehicle framework itself. The drive axle is elastically affixed to the framework of the forklift using numerous different bearings. The drive axle has tubular axle body along with extension arms affixed to it and extend backwards. This particular kind of drive axle is elastically connected to the vehicle frame using back bearing parts on the extension arms together with frontward bearing tools located on the axle body. There are two rear and two front bearing tools. 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 on this model of forklift are sustained using the extension arms through the rear bearing parts on the framework. The forces produced by the lift mast and the load being carried are transmitted into the floor or street by the vehicle frame through the front bearing components of the drive axle. It is vital to be certain the parts of the drive axle are put together in a firm enough way to maintain stability of the forklift truck. The bearing components can reduce slight bumps or road surface irregularities during travel to a limited extent and offer a bit smoother operation.