Drive Axle for Forklifts

Forklift Drive Axle - The piece of equipment that is elastically fastened to the frame of the vehicle with a lift mast is called the lift truck drive axle. The lift mast affixes to the drive axle and can be inclined, by no less than one tilting cylinder, round the axial centerline of the drive axle. Forward bearing parts along with back bearing components of a torque bearing system are responsible for fastening the vehicle and the drive axle framework. The drive axle could be pivoted around a swiveling axis oriented transversely and horizontally in the vicinity of the rear bearing components. The lift mast is also capable of being inclined relative to the drive axle. The tilting cylinder is attached to the vehicle framework and the lift mast in an articulated fashion. This enables the tilting cylinder to be oriented nearly parallel to a plane extending from the axial centerline and to the swiveling axis.

Unit H40, H45 and H35 forklifts, which are manufactured 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 framework of the forklift by numerous different bearings. The drive axle contains a tubular axle body along with extension arms connected to it and extend rearwards. This particular kind of drive axle is elastically attached to the vehicle frame by 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 tools. Each one is separated in the transverse direction of the vehicle from the other bearing device in its respective pair.

The drive and braking torques of the drive axle are sustained through the rear bearing elements on the frame using the extension arms. The lift mast and the load produce the forces that are transmitted into the road or floor by the frame of the vehicle through the drive axle's anterior bearing parts. It is vital to ensure the components of the drive axle are configured in a rigid enough method so as to maintain stability of the forklift truck. The bearing elements could minimize slight road surface irregularities or bumps during travel to a limited extent and offer a bit smoother operation.