Drive Axle for Forklift

Forklift Drive Axle - The piece of machinery which is elastically affixed to the frame of the vehicle utilizing a lift mast is referred to as the forklift drive axle. The lift mast attaches to the drive axle and can be inclined, by no less than one tilting cylinder, around the axial centerline of the drive axle. Forward bearing elements together with rear bearing components of a torque bearing system are responsible for fastening the vehicle and the drive axle framework. The drive axle can be pivoted around a swiveling axis oriented transversely and horizontally in the vicinity of the back bearing components. The lift mast is likewise capable of being inclined relative to the drive axle. The tilting cylinder is connected to the vehicle frame 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 H40, H45 and H35 forklifts, that are manufactured by Linde AG in Aschaffenburg, Germany, have a affixed lift mast tilt on the vehicle framework itself. The drive axle is elastically attached to the framework of the forklift using numerous different bearings. The drive axle comprise tubular axle body together with extension arms connected to it and extend rearwards. This type of drive axle is elastically attached to the vehicle framework utilizing rear bearing parts on the extension arms along with forward bearing tools situated on the axle body. There are two back 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 are maintained through the back bearing elements on the framework utilizing the extension arms. The lift mast and the load create the forces which are transmitted into the roadway or floor by the framework of the vehicle through the drive axle's front bearing elements. It is vital to be sure the parts of the drive axle are put together in a firm enough manner so as to maintain strength of the forklift truck. The bearing elements could minimize slight bumps or road surface irregularities through travel to a limited extent and provide a bit smoother function.