Drive Axle for Forklift

Forklift Drive Axle - The piece of equipment which is elastically fastened to the frame of the vehicle with a lift mast is the lift truck drive axle. The lift mast attaches to the drive axle and could be inclined, by at least one tilting cylinder, around the axial centerline of the drive axle. Forward bearing components along with back bearing components of a torque bearing system are responsible for fastening the vehicle and the drive axle frame. 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 also capable of being inclined relative to the drive axle. The tilting cylinder is affixed to the lift truck framework 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.

Unit H40, H45 and H35 forklifts, which are produced by Linde AG in Aschaffenburg, Germany, have a attached lift mast tilt on the vehicle frame itself. The drive axle is elastically attached to the framework of the forklift using many different bearings. The drive axle comprise tubular axle body together with extension arms affixed to it and extend backwards. This particular type of drive axle is elastically affixed to the vehicle framework using rear bearing elements on the extension arms along with forward bearing devices 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 are maintained through the rear bearing parts on the frame using the extension arms. The lift mast and the load generate the forces which are transmitted into the roadway or floor by the frame of the vehicle through the drive axle's anterior bearing parts. It is vital to make certain the parts of the drive axle are installed in a firm enough way in order to maintain stability of the lift truck truck. The bearing elements can minimize slight bumps or road surface irregularities all through travel to a limited extent and offer a bit smoother function.