Drive Axle for Forklifts

Forklift Drive Axle - The piece of machinery that is elastically fastened to the frame of the vehicle using a lift mast is referred to as the lift truck drive axle. The lift mast affixes to the drive axle and can be inclined, by at least one tilting cylinder, round the axial centerline of the drive axle. Frontward bearing elements along with rear bearing components of a torque bearing system are responsible for fastening the vehicle and the drive axle framework. The drive axle could be pivoted round a swiveling axis oriented horizontally and transversely in the vicinity of the rear bearing parts. The lift mast is also capable of being inclined relative to the drive axle. The tilting cylinder is connected to the lift truck 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.

Forklift units like for instance H35, H40 and H45 which are made in Aschaffenburg, Germany by Linde AG, have the lift mast tilt capably attached on the vehicle framework. The drive axle is elastically affixed to the forklift framework by numerous bearing tools. The drive axle has tubular axle body together with extension arms affixed to it and extend backwards. This particular type of drive axle is elastically connected to the vehicle frame by rear bearing parts on the extension arms together with frontward bearing devices situated on the axle body. There are two rear and two front bearing tools. Each one is separated in the transverse direction of the lift truck from the other bearing device in its respective pair.

The braking and drive torques of the drive axle are maintained through the back bearing components on the frame using the extension arms. The lift mast and the load generate the forces that are transmitted into the roadway or floor by the framework of the vehicle through the drive axle's front bearing components. It is important to make sure the parts of the drive axle are put together in a rigid enough method to be able to maintain strength of the lift truck truck. The bearing components could lessen slight bumps or road surface irregularities throughout travel to a limited extent and provide a bit smoother operation.