Drive Axle for Forklift

Forklift Drive Axle - A forklift drive axle is actually a piece of equipment that is elastically fastened to a vehicle framework utilizing a lift mast. The lift mast is fixed to the drive axle and could be inclined around the drive axle's axial centerline. This is done by at least one tilting cylinder. Forward bearing parts combined with rear bearing parts of a torque bearing system are responsible for fastening the drive axle to the vehicle framework. The drive axle can be pivoted around a swiveling axis oriented horizontally and transversely in the vicinity of the back bearing elements. The lift mast could likewise be inclined relative to the drive axle. The tilting cylinder is attached to the lift truck framework 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.

Lift truck units like for instance H40, H45 and H35 that are made in Aschaffenburg, Germany by Linde AG, have the lift mast tilt capably attached on the vehicle framework. The drive axle is elastically attached to the forklift framework by many bearing devices. The drive axle comprise tubular axle body along with extension arms affixed to it and extend backwards. This particular type of drive axle is elastically attached to the vehicle frame utilizing back bearing parts on the extension arms together with forward bearing tools 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 tool in its respective pair.

The drive and braking torques of the drive axle on this model of forklift are sustained utilizing the extension arms through the back bearing elements on the frame. The forces created by the load being carried and the lift mast are transmitted into the floor or road by the vehicle framework through the front bearing elements of the drive axle. It is important to ensure the elements of the drive axle are configured in a firm enough method so as to maintain strength of the forklift truck. The bearing components can lessen slight road surface irregularities or bumps throughout travel to a limited extent and give a bit smoother function.