Drive Axle for Forklifts

Drive Axle for Forklift - A forklift drive axle is actually a piece of equipment which is elastically fastened to a vehicle frame using a lift mast. The lift mast is fixed to the drive axle and can be inclined round the drive axle's axial centerline. This is done by no less than one tilting cylinder. Frontward bearing components combined with back bearing components of a torque bearing system are responsible for fastening the drive axle to the vehicle frame. 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 can also be inclined relative to the drive axle. The tilting cylinder is affixed to the lift truck frame 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 models like for example H35, H40 and H45 that are manufactured in Aschaffenburg, Germany by Linde AG, have the lift mast tilt capably affixedconnected on the vehicle frame. The drive axle is elastically connected to the forklift frame utilizing many bearing devices. The drive axle contains a tubular axle body along with extension arms attached to it and extend rearwards. This kind of drive axle is elastically affixed to the vehicle frame by rear bearing parts on the extension arms along with frontward bearing tools located on the axle body. There are two rear and two front bearing tools. Each one is separated in the transverse direction of the forklift from the other bearing tool in its respective pair.

The drive and braking torques of the drive axle are sustained through the rear bearing parts on the frame by the extension arms. The lift mast and the load generate the forces that are transmitted into the road or floor by the frame of the vehicle through the drive axle's front bearing parts. It is important to ensure the parts of the drive axle are configured in a rigid enough manner so as to maintain strength of the forklift truck. The bearing parts could lessen minor bumps or road surface irregularities throughout travel to a limited extent and give a bit smoother operation.