Drive Axle for Forklift

Forklift Drive Axle - The piece of equipment that is elastically affixed to the frame of the vehicle using a lift mast is referred to as the forklift drive axle. The lift mast affixes to the drive axle and could be inclined, by at least one tilting cylinder, around the drive axle's axial centerline. Frontward bearing parts together with back bearing components of a torque bearing system are responsible for fastening the drive axle to the vehicle frame. The drive axle can be pivoted around a swiveling axis oriented transversely and horizontally in the vicinity of the back bearing parts. The lift mast could also 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 allows the tilting cylinder to be oriented nearly parallel to a plane extending from the axial centerline and to the swiveling axis.

Forklift models like for example H40, H45 and H35 which are produced in Aschaffenburg, Germany by Linde AG, have the lift mast tilt capably attached on the vehicle framework. The drive axle is elastically connected to the forklift frame using numerous bearing devices. The drive axle contains a tubular axle body together with extension arms affixed to it and extend backwards. This type of drive axle is elastically affixed to the vehicle framework by back bearing elements on the extension arms together with forward bearing devices located on the axle body. There are two rear and two front bearing tools. Each one is separated in the transverse direction of the vehicle from the other bearing machine in its respective pair.

The drive and braking torques of the drive axle on this unit of lift truck are sustained using the extension arms through the rear bearing elements on the frame. The forces produced by the lift mast and the load being carried are transmitted into the floor or roadway by the vehicle frame through the front bearing components of the drive axle. It is important to ensure the components of the drive axle are put together in a firm enough method so as to maintain strength of the forklift truck. The bearing elements could lessen small road surface irregularities or bumps all through travel to a limited extent and offer a bit smoother operation.