Forklift Drive Axle

Forklift Drive Axle - The piece of equipment that is elastically affixed to the framework of the vehicle using a lift mast is known as the lift truck drive axle. The lift mast attaches to the drive axle and can be inclined, by at the very least one tilting cylinder, round the drive axle's axial centerline. Forward bearing elements combined 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 can likewise be inclined relative to the drive axle. The tilting cylinder is attached to the vehicle framework and the lift mast in an articulated fashion. This allows the tilting cylinder to be oriented almost parallel to a plane extending from the axial centerline and to the swiveling axis.

Lift truck models such as H40, H45 and H35 which are produced in Aschaffenburg, Germany by Linde AG, have the lift mast tilt capably affixed\connected on the vehicle frame. The drive axle is elastically affixed to the lift truck framework utilizing numerous bearing tools. The drive axle contains a tubular axle body together with extension arms attached to it and extend rearwards. This type of drive axle is elastically attached to the vehicle framework using back bearing parts on the extension arms along with frontward bearing tools located on the axle body. There are two back and two front bearing devices. 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 sustained through the back bearing elements on the frame using the extension arms. The load and the lift mast create 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 sure the components of the drive axle are put together in a rigid enough manner so as to maintain stability of the forklift truck. The bearing components could reduce slight road surface irregularities or bumps during travel to a limited extent and give a bit smoother operation.