Drive Axle for Forklift

Drive Axle for Forklifts - The piece of equipment that is elastically connected to the frame of the vehicle with a lift mast is known as the forklift drive axle. The lift mast attaches to the drive axle and could be inclined, by at least one tilting cylinder, round the axial centerline of the drive axle. Frontward bearing components along with rear 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 back bearing components. The lift mast could likewise be inclined relative to the drive axle. The tilting cylinder is affixed to the vehicle frame and the lift mast in an articulated fashion. This enables the tilting cylinder to be oriented almost parallel to a plane extending from the axial centerline and to the swiveling axis.

Unit H45, H35 and H40 forklifts, that are produced by Linde AG in Aschaffenburg, Germany, have a affixed lift mast tilt on the vehicle framework itself. The drive axle is elastically attached to the framework of the forklift using numerous different bearings. The drive axle contains a tubular axle body along with extension arms affixed to it and extend backwards. This kind of drive axle is elastically attached to the vehicle frame using rear bearing elements on the extension arms together with forward bearing devices located on the axle body. There are two back and two front bearing devices. Each one is separated in the transverse direction of the forklift from the other bearing machine in its respective pair.

The braking and drive torques of the drive axle on tis particular unit of lift truck are sustained using the extension arms through the back bearing components on the framework. The forces created by the lift mast and the load being carried are transmitted into the floor or roadway by the vehicle frame through the front bearing parts of the drive axle. It is essential to make sure the components of the drive axle are put together in a rigid enough manner so as to maintain strength of the lift truck truck. The bearing parts can reduce slight bumps or road surface irregularities during travel to a limited extent and provide a bit smoother function.