

Drive Axle for Forklifts

Forklift Drive Axle - A lift truck drive axle is a piece of equipment which is elastically connected to a vehicle frame using a lift mast. The lift mast is fixed to the drive axle and could be inclined round the drive axle's axial centerline. This is done by at the very least one tilting cylinder. Forward bearing parts together with back bearing elements of a torque bearing system are responsible for fastening the drive axle to the vehicle frame. The drive axle can be pivoted round a swiveling axis oriented horizontally and transversely in the vicinity of the back bearing parts. The lift mast could likewise be inclined relative to the drive axle. The tilting cylinder is connected to the lift truck 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 swiveling axis to the axial centerline.

Model H40, H45 and H35 forklifts, which are produced by Linde AG in Aschaffenburg, Germany, have a affixed lift mast tilt on the vehicle frame itself. The drive axle is elastically attached to the frame of the lift truck using numerous different bearings. The drive axle contains a tubular axle body together with extension arms attached to it and extend backwards. This kind of drive axle is elastically affixed to the vehicle frame using back bearing parts on the extension arms together with frontward 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 forklift from the other bearing machine in its respective pair.

The drive and braking torques of the drive axle on this model of lift truck are sustained using the extension arms through the rear bearing parts on the frame. The forces produced by the load being carried and the lift mast are transmitted into the floor or street by the vehicle frame through the front bearing components of the drive axle. It is important to make certain the components of the drive axle are installed in a firm enough way so as to maintain stability of the forklift truck. The bearing parts can lessen small bumps or road surface irregularities during travel to a limited extent and offer a bit smoother operation.