

Drive Axle for Forklift

Drive Axle Forklift - The piece of equipment which is elastically affixed to the framework of the vehicle using a lift mast is called the lift truck drive axle. The lift mast affixes to the drive axle and could be inclined, by at least one tilting cylinder, around the axial centerline of the drive axle. Frontward bearing parts together with back bearing components of a torque bearing system are responsible for fastening the vehicle and the drive axle frame. The drive axle can be pivoted around a swiveling axis oriented horizontally and transversely in the vicinity of the rear bearing components. The lift mast is also capable of being inclined relative to the drive axle. The tilting cylinder is affixed to the vehicle frame 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.

Model H45, H35 and H40 forklifts, which are made by Linde AG in Aschaffenburg, Germany, have a affixed lift mast tilt on the vehicle framework itself. The drive axle is elastically affixed to the framework of the forklift utilizing numerous various bearings. The drive axle contains a tubular axle body together with extension arms connected to it and extend backwards. This particular type of drive axle is elastically affixed to the vehicle frame using rear bearing parts on the extension arms together with forward 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 forklift from the other bearing tool in its respective pair.

The braking and drive torques of the drive axle are maintained through the back bearing components on the frame by the extension arms. The load and the lift mast produce the forces that are transmitted into the roadway or floor by the frame of the vehicle through the drive axle's anterior bearing elements. It is important to ensure the parts of the drive axle are put together in a firm 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 offer a bit smoother function.