

Forklift Drive Axle

Forklift Drive Axle - The piece of equipment which is elastically fastened to the framework of the vehicle with a lift mast is the forklift drive axle. The lift mast connects to the drive axle and can be inclined, by at the very least one tilting cylinder, round the drive axle's axial centerline. Frontward bearing components together with rear bearing components of a torque bearing system are responsible for fastening the vehicle and the drive axle framework. 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 could also 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 enables the tilting cylinder to be oriented almost parallel to a plane extending from the swiveling axis to the axial centerline.

Unit H35, H40, and H45 forklifts, which are manufactured by Linde AG in Aschaffenburg, Germany, have a connected lift mast tilt on the vehicle framework itself. The drive axle is elastically connected to the frame of the lift truck using many various bearings. The drive axle contains a tubular axle body together with extension arms connected to it and extend backwards. This particular kind of drive axle is elastically connected to the vehicle framework by back bearing elements on the extension arms together with forward bearing tools situated on the axle body. There are two back and two front bearing devices. Each one is separated in the transverse direction of the vehicle from the other bearing machine in its respective pair.

The braking and drive torques of the drive axle on this unit of forklift are sustained by the extension arms through the back bearing components on the framework. The forces produced by the lift mast and the load being carried are transmitted into the floor or roadway by the vehicle framework through the front bearing elements of the drive axle. It is important to be certain the parts of the drive axle are put together in a rigid enough manner in order to maintain immovability of the lift truck truck. The bearing elements could minimize slight bumps or road surface irregularities throughout travel to a limited extent and offer a bit smoother function.