

Forklift Drive Axles

Forklift Drive Axle - A forklift drive axle is actually a piece of machinery that is elastically fastened to a vehicle framework with a lift mast. The lift mast is fixed to the drive axle and is capable of being inclined around the axial centerline of the drive axle. This is accomplished by at least one tilting cylinder. Frontward bearing elements along with rear bearing parts of a torque bearing system are responsible for fastening the drive axle to the vehicle framework. The drive axle can be pivoted round a swiveling axis oriented horizontally and transversely in the vicinity of the rear bearing elements. The lift mast is also capable of being inclined relative to the drive axle. The tilting cylinder is connected to the vehicle frame and the lift mast in an articulated fashion. This allows the tilting cylinder to be oriented nearly parallel to a plane extending from the axial centerline and to the swiveling axis.

Lift truck units like for instance H35, H40 and H45 which are made in Aschaffenburg, Germany by Linde AG, have the lift mast tilt ably affixed\connected on the vehicle framework. The drive axle is elastically affixed to the lift truck frame using a multitude of bearing devices. The drive axle comprise tubular axle body together with extension arms affixed to it and extend backwards. This kind of drive axle is elastically affixed to the vehicle framework using rear bearing parts on the extension arms together with frontward 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 forklift from the other bearing device in its respective pair.

The drive and braking torques of the drive axle on this unit of forklift are sustained utilizing the extension arms through the back bearing parts on the frame. The forces generated by the lift mast and the load being carried are transmitted into the floor or road by the vehicle frame through the front bearing elements of the drive axle. It is important to make sure the components of the drive axle are constructed in a firm enough manner so as to maintain strength of the forklift truck. The bearing parts can lessen slight road surface irregularities or bumps all through travel to a limited extent and offer a bit smoother operation.