

Drive Axles

A forklift drive axle is a piece of machinery which is elastically affixed to a vehicle frame utilizing a lift mast. The lift mast is fixed to the drive axle and can be inclined round the axial centerline of the drive axle. This is done by at the very least one tilting cylinder. Forward bearing components together with back bearing components of a torque bearing system are responsible for fastening the vehicle and the drive axle framework. 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 is likewise capable of being inclined relative to the drive axle. The tilting cylinder is affixed 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 axial centerline and to the swiveling axis.

Forklift units such as H40, H45 and H35 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 connected to the lift truck framework utilizing numerous bearing devices. The drive axle has tubular axle body together with extension arms attached to it and extend rearwards. This type of drive axle is elastically connected to the vehicle frame by rear bearing elements on the extension arms together with frontward bearing devices situated on the axle body. There are two rear and two front bearing devices. Each one is separated in the transverse direction of the lift truck from the other bearing tool in its respective pair.

The braking and drive torques of the drive axle are sustained through the rear bearing components on the framework by the extension arms. The lift mast and the load produce the forces that are transmitted into the street or floor by the framework of the vehicle through the drive axle's front bearing parts. It is important to ensure the elements of the drive axle are put together in a firm enough method to be able to maintain strength of the forklift truck. The bearing elements can reduce minor bumps or road surface irregularities throughout travel to a limited extent and give a bit smoother operation.