Drive Axles

The piece of equipment that is elastically affixed to the frame of the vehicle with a lift mast is the lift truck drive axle. The lift mast attaches to the drive axle and could be inclined, by at the very least one tilting cylinder, round the drive axle's axial centerline. Forward bearing components combined with back bearing elements of a torque bearing system are responsible for fastening the drive axle to the vehicle frame. The drive axle could be pivoted round a swiveling axis oriented transversely and horizontally 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 framework and the lift mast in an articulated fashion. This enables the tilting cylinder to be oriented nearly parallel to a plane extending from the axial centerline and to the swiveling axis.

Forklift units like H40, H45 and H35 which are manufactured in Aschaffenburg, Germany by Linde AG, have the lift mast tilt ably affixedconnected on the vehicle framework. The drive axle is elastically connected to the forklift frame using a multitude of bearing devices. The drive axle comprise tubular axle body along with extension arms attached to it and extend rearwards. This particular type of drive axle is elastically connected to the vehicle framework by back bearing elements on the extension arms together with frontward bearing tools located on the axle body. There are two back and two front bearing tools. 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 tis particular model of forklift are sustained using the extension arms through the back bearing components on the frame. The forces generated by the load being carried and the lift mast are transmitted into the floor or street by the vehicle framework through the front bearing components of the drive axle. It is vital to make certain the elements of the drive axle are installed in a rigid enough way so as to maintain stability of the lift truck truck. The bearing elements could reduce minor bumps or road surface irregularities all through travel to a limited extent and give a bit smoother function.