Drive Axle Forklift

Forklift Drive Axle - A forklift drive axle is actually a piece of equipment which is elastically fastened to a vehicle frame utilizing a lift mast. The lift mast is attached to the drive axle and could be inclined around the axial centerline of the drive axle. This is accomplished by no less than one tilting cylinder. Frontward bearing parts combined with rear bearing parts 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 rear bearing parts. The lift mast is likewise capable of being 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 practically parallel to a plane extending from the swiveling axis to the axial centerline.

Forklift units such as H35, H40 and H45 that are manufactured in Aschaffenburg, Germany by Linde AG, have the lift mast tilt ably mounted on the vehicle frame. The drive axle is elastically affixed to the forklift frame by many bearing tools. The drive axle has tubular axle body along with extension arms affixed to it and extend backwards. This kind of drive axle is elastically attached to the vehicle frame using back bearing elements on the extension arms along 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 machine in its respective pair.

The braking and drive torques of the drive axle are maintained through the back bearing elements on the frame utilizing the extension arms. The lift mast and the load generate the forces which are transmitted into the roadway or floor by the frame of the vehicle through the drive axle's front bearing components. It is important to be sure the parts of the drive axle are configured in a firm enough method in order to maintain immovability of the forklift truck. The bearing parts can lessen small bumps or road surface irregularities throughout travel to a limited extent and give a bit smoother operation.