Forklift Drive Axle

Drive Axle for Forklifts - The piece of equipment which is elastically connected to the framework of the vehicle using a lift mast is referred to as the forklift drive axle. The lift mast connects to the drive axle and can be inclined, by at least one tilting cylinder, around the axial centerline of the drive axle. Frontward bearing parts combined with rear bearing components of a torque bearing system are responsible for fastening the vehicle and the drive axle frame. The drive axle could be pivoted around a swiveling axis oriented horizontally and transversely in the vicinity of the back bearing components. The lift mast can likewise be 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.

Model H35, H40, and H45 forklifts, that 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 comprise tubular axle body together with extension arms attached to it and extend backwards. This particular type of drive axle is elastically attached to the vehicle framework using rear bearing parts on the extension arms along with frontward bearing devices located 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 drive and braking torques of the drive axle on tis particular model of forklift are sustained utilizing 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 street by the vehicle framework through the front bearing parts of the drive axle. It is essential to ensure the components of the drive axle are installed in a rigid enough manner to maintain strength of the lift truck truck. The bearing components can minimize minor road surface irregularities or bumps all through travel to a limited extent and provide a bit smoother function.