## Drive Axles

The piece of equipment that is elastically fastened to the framework of the vehicle utilizing a lift mast is called the forklift drive axle. The lift mast attaches to the drive axle and can be inclined, by at least one tilting cylinder, round the axial centerline of the drive axle. Frontward bearing components combined with rear bearing parts of a torque bearing system are responsible for fastening the vehicle and the drive axle framework. The drive axle could be pivoted around a swiveling axis oriented horizontally and transversely in the vicinity of the back bearing elements. The lift mast could also be inclined relative to the drive axle. The tilting cylinder is attached to the vehicle 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 swiveling axis to the axial centerline.

Model H45, H35 and H40 forklifts, which are produced by Linde AG in Aschaffenburg, Germany, have a affixed lift mast tilt on the vehicle frame itself. The drive axle is elastically affixed to the framework of the forklift by many various bearings. The drive axle has tubular axle body along with extension arms connected to it and extend rearwards. This type of drive axle is elastically affixed to the vehicle frame by back bearing parts on the extension arms along with forward bearing devices located on the axle body. There are two back and two front bearing tools. Each one is separated in the transverse direction of the forklift from the other bearing tool in its respective pair.

The braking and drive torques of the drive axle on this unit of lift truck are sustained using the extension arms through the rear bearing components on the frame. The forces created by the lift mast and the load being carried are transmitted into the floor or roadway by the vehicle framework through the front bearing components of the drive axle. It is vital to make sure the components of the drive axle are put together in a rigid enough manner in order to maintain strength of the lift truck truck. The bearing parts could minimize minor road surface irregularities or bumps throughout travel to a limited extent and provide a bit smoother function.