

Steer Axles for Forklifts

Forklift Steer Axle - Axles are defined by a central shaft which rotates a gear or a wheel. The axle on wheeled motor vehicles can be fixed to the wheels and turned along with them. In this case, bushings or bearings are provided at the mounting points where the axle is supported. Conversely, the axle may be attached to its surroundings and the wheels may in turn revolve around the axle. In this case, a bearing or bushing is situated within the hole within the wheel to enable the wheel or gear to revolve all-around the axle.

With trucks and cars, the term axle in several references is used casually. The word usually means shaft itself, a transverse pair of wheels or its housing. The shaft itself rotates with the wheel. It is frequently bolted in fixed relation to it and known as an 'axle' or an 'axle shaft'. It is likewise true that the housing surrounding it that is generally called a casting is also called an 'axle' or at times an 'axle housing.' An even broader sense of the term refers to every transverse pair of wheels, whether they are connected to one another or they are not. Hence, even transverse pairs of wheels inside an independent suspension are often known as 'an axle.'

The axles are an essential component in a wheeled vehicle. The axle serves to be able to transmit driving torque to the wheel in a live-axle suspension system. The position of the wheels is maintained by the axles relative to one another and to the motor vehicle body. In this particular system the axles should likewise be able to bear the weight of the motor vehicle plus whatever load. In a non-driving axle, as in the front beam axle in various two-wheel drive light vans and trucks and in heavy-duty trucks, there will be no shaft. The axle in this situation serves just as a steering component and as suspension. Many front wheel drive cars consist of a solid rear beam axle.

The axle works only to transmit driving torque to the wheels in various kinds of suspension systems. The position and angle of the wheel hubs is part of the operating of the suspension system seen in the independent suspensions of newer SUVs and on the front of numerous brand new light trucks and cars. These systems still have a differential but it does not have attached axle housing tubes. It could be fixed to the motor vehicle frame or body or even can be integral in a transaxle. The axle shafts then transmit driving torque to the wheels. The shafts in an independent suspension system are like a full floating axle system as in they do not support the vehicle weight.

To finish, in reference to a vehicle, 'axle,' has a more vague definition. It means parallel wheels on opposing sides of the vehicle, regardless of their mechanical connection kind to one another and the vehicle body or frame.