

Forklift Steer Axle

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

With cars and trucks, the term axle in some references is used casually. The word generally means shaft itself, a transverse pair of wheels or its housing. The shaft itself turns along with the wheel. It is normally bolted in fixed relation to it and called an 'axle shaft' or an 'axle.' It is equally true that the housing around it which is generally known as a casting is otherwise referred to as an 'axle' or at times an 'axle housing.' An even broader sense of the word refers to every transverse pair of wheels, whether they are attached to one another or they are not. Thus, even transverse pairs of wheels inside an independent suspension are generally called 'an axle.'

In a wheeled motor vehicle, axles are an essential component. With a live-axle suspension system, the axles function to transmit driving torque to the wheel. The axles also maintain the position of the wheels relative to one another and to the vehicle body. In this system the axles should also be able to support the weight of the motor vehicle plus any load. In a non-driving axle, like the front beam axle in some two-wheel drive light trucks and vans and in heavy-duty trucks, there will be no shaft. The axle in this condition serves only as a steering component and as suspension. Many front wheel drive cars have a solid rear beam axle.

The axle works only to transmit driving torque to the wheels in some types of suspension systems. The angle and position of the wheel hubs is part of the operating of the suspension system seen in the independent suspensions of new SUVs and on the front of several new cars and light trucks. These systems still consist of a differential but it does not have attached axle housing tubes. It can be fixed to the vehicle frame or body or also could 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.

The vehicle axle has a more vague definition, meaning that the parallel wheels on opposing sides of the vehicle, regardless of their kind of mechanical connection to one another.