

Cushion Tire Forklift

Used Cushion Tire Forklift Seattle - Forklift trucks are commonly classified by the kind of work they complete as well as the kind of tire they use. The two types of tire classification for forklifts are: 1. Cushion; and 2. Pneumatic. When considering the benefits and drawbacks of cushion tires in forklift uses, it is important to discuss the benefits and drawbacks of the other available forklift tire option: the pneumatic tire. The cushion tire benefits and drawbacks can only be understood in the context of what the pneumatic tire offers in terms of forklift operation. Forklift Tire Classifications Cushion Tires Cushion tires feature solid rubber that is either smooth or treaded and fixed or positioned around a baseband or metal ring. These kinds of forklift tires are cheaper to make and easier to maintain. Cushion tires have been designed to work on smooth surfaces such as interior loading docks and warehouse floors. These tires are designed to maneuver well within tight locations, due to their specific turning radius. Forklifts that use cushion tires can be lower to the ground compared to pneumatic tire models and the increase in vertical clearance is welcome for many applications. It is important to note that cushion tires do not offer as much traction compared to pneumatic models and this is noticeable on wet locations and outdoor surfaces. Cushion tires forklifts are commonly used for organizing inventory, moving items to and from different loading docks, unloading shipments and similar applications. Pneumatic Tires Pneumatic tires are mainly utilized on uneven surfaces and rougher terrain. These tires fall into two categories: standard air pneumatic or solid resilient pneumatic. The solid resilient pneumatic tires are comprised entirely of rubber and the standard air pneumatic tires feature a layered rubber design filled with air. For locations with uneven surfaces and unpaved ground, pneumatic tire forklifts are prime choices. Solid resilient pneumatic forklifts are a better option in areas that may have objects which could puncture a standard air pneumatic, such as junkyards, lumber yards and the like which may have sharp metal objects. Benefits of Cushion Tire Forklifts Cushion tire forklifts can be used inside and outside on smooth surfaces. The type of forklift that utilizes cushion tires are for mainly inside applications with some limited outside use. Warehousing applications and manufacturing facilities often rely on cushion tire forklifts. Work which requires forklift operations in tight areas, such as narrow aisles, are ideal for the use of a cushion tire forklift. Some benefits of using a cushion tire forklift over a pneumatic tire forklift are: 1) Maneuverability Since cushion tire forklifts do not need to house a larger internal combustion engine, they are more compact and easier to maneuver. 2) Lower Clearance Indoor cushion tire forklifts have lower clearance compared to pneumatic models; allowing the machine to travel easier through doorways and around lights or sprinkler obstacles. 3) Durability With little to no risk of a tire puncture, cushion forklift models are easy to maintain and ultra-durable. 4) Quiet Because the majority of cushion tire forklifts are powered by battery or fuel cell, instead of an internal combustion engine, they are much less noisy than propane or diesel powered forklifts. 5) Environmentally Friendly Again, because most cushion tire forklifts are powered by electricity, rather than an internal combustion engine, cushion tire forklifts produce no harmful emissions. Forklift Tire Choice Most forklift frames only allow for either a cushion tire or a pneumatic tire. The forklifts' lifting capacity and frame are specific to the axles and tires in the design. Most forklift manufacturers design forklifts to operate safely with specific wheels and tires, namely cushion tires or pneumatic tires. Due to their special tire design, it is best to choose the forklift type that will suit the job in terms of forklift tire types. Workplace Applications Suitable Work Applications for Cushion Tires Cushion tire forklifts are usually the best option for many workplace applications. If there is moderate use of the forklift outside on smooth surfaces and the majority of the lifting, loading and transporting will be occurring inside on smooth floors, a cushion tire model is an excellent tool. Forklifts fitted with cushion tires often have a smaller frame and sit much lower to the ground than forklifts fitted with pneumatic tires. This gives them better clearance for fitting through doorways and avoiding overhead obstacles. Although, cushion tire forklifts offer less ground clearance, this can cause damage to outdoor obstacles when the surface is uneven

or unclear. One solution to this problem is to fit the cushion tire forklift with traction tires on the front of their forklifts. Tires that offer traction will perform better on wet surfaces, rough terrain, packed gravel and asphalt. These tires are not recommended for travelling on grass or dirt. Traction tires are utilized on the opposite sides, the steer and drive axles. One of the largest advantages of using a forklift with cushion tires is the smaller turning radius. This makes cushion tire forklifts ideal for warehouses and manufacturing facilities that have less space. Warehouses that utilize a narrow aisle layout will especially benefit from the smaller turning radius of cushion tire forklifts. Cushion tire forklifts are more cost-effective and available compared to pneumatic tire models. Suitable Work Applications for Pneumatic Tire Forklifts Outdoor applications working on gravel benefit from pneumatic tire forklift models thanks to the air in their tires. Pneumatic tires can also be used inside but do not provide the advantages of low clearance, maneuverability or small turning radius. Pneumatic tire forklifts operate with an internal combustion engine and these harmful emissions are dangerous for use indoors. Pneumatic tire forklifts are longer and wider than cushion tire forklifts which is why they are primarily used outdoors. There are two kinds of pneumatic tires; the air-filled pneumatic tire is less expensive than the solid pneumatic tire. The solid pneumatic tire has no air inside and is made from solid rubber. This design makes the tire stronger against punctures or gouges. Outdoor areas including lumber yards and scrap yards that feature copious amounts of metal debris and nails often rely on solid pneumatic tires. Air pneumatic tires work great outside on gravel and asphalt applications. Air-filled pneumatic tires can easily become punctured and their working environment needs to be evaluated carefully. Because of this, it is necessary to make sure the work area is free of any sharp objects before using forklift fitted with air pneumatic tires at that site. Operator fatigue and discomfort can be traced to the bounciness of air-filled tires. Due to this, numerous air pneumatic forklift users fill foam in their tires. The foam filling option creates a more even ride compared to the solid pneumatic tires or the bounciness of the air-filled pneumatic tires. Foam filling is commonly used for flat tire prevention. It takes roughly three days to fill and cure an air pneumatic tire with foam. Difference in Load Capacity Both cushion tire and pneumatic tire forklifts offer similar load capacities. There may be lift limits on certain electric-powered cushion tire models. There are numerous forklifts available and a variety of pneumatic and cushion tire models can be found in a variety of load capacities. These machines come in different load capacities from under 2000 lbs. to over 200,000 lbs. depending on your application.