

Cushion Tire Forklift

Used Cushion Tire Forklift Orange - Most forklifts are classified by the kind of work they do and some are classified by their type of tires. There are two main kinds of tire classification for forklifts, pneumatic and cushion tire. 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. Cushion tires cost less to make and are easier to take care of. This type of tire is made to work on smooth surfaces such as indoor concrete floors and loading docks. These tires are designed to maneuver well within tight locations, due to their specific turning radius. Cushion tires enable the forklift to be situated closer to the ground, increasing the vertical clearance in comparison to other models that rely on pneumatic tires. Pneumatic tires provide better traction compared to cushion tires; especially on wet surfaces and outdoor locations. Cushion tire forklifts are used for a wide range of applications, including order picking, unloading shipments, organizing inventory, transporting to and from a loading dock and other similar applications. Pneumatic Tires Pneumatic tires, on the other hand, are primarily designed to operate in rougher terrain, with uneven surfaces. These tires have two categorizations: 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. Cushion tire models excel in tight locations including narrow aisles and accessing high shelves. Some benefits of using a cushion tire forklift over a pneumatic tire forklift are: 1) Maneuverability Most cushion tire forklifts intended for indoor use are electric, which means they are usually smaller and more maneuverable because they do not required the extra room needed to accommodate the larger internal combustion engine. 2) Lower Clearance Indoor forklift models that use cushion tires feature lower clearance compared to pneumatic tire models. This enables the machine to travel through doors and navigate obstacles such as sprinkler systems ad lights much easier. 3) Durability With little to no risk of a tire puncture, cushion forklift models are easy to maintain and ultra-durable. 4) Quiet Cushion tire forklifts do not use an internal combustion engine and instead rely on a battery or fuel cell, making them significantly quieter than their propane or diesel cousins. 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. Tires and axles are specific to the lifting capacity and the machine's frame. The majority of forklift manufacturers create models to coincide with specific wheels and tires, usually cushion tires or pneumatic tires. Instead of trying to modify the forklift by picking the correct tire for a particular application, it is wiser to choose the forklift that will best suit the job at hand. Workplace Applications Suitable Work Applications for Cushion Tires There are many work applications suitable for using cushion tire forklift models. If the majority of the load lifting, transporting and placing will occur indoors or with only moderate outdoor usage on smooth surfaces, then cushion tires are likely the best option. Forklifts fitted with cushion tires often have a smaller frame and sit much lower to the ground than forklifts fitted with pneumatic tires. This compact design facilitates easier clearance through doorways and overhead obstacle avoidance. It is important to note that cushion tire

forklifts showcase less ground clearance and the machine may get caught up on exterior obstacles if the ground is uneven. One solution is to outfit traction tires on the front of the cushion tire forklift. Traction style tires will give better traction on rough terrains like asphalt or packed gravel or wet surfaces. These tires are not recommended for travelling on grass or dirt. Traction tires are utilized on the opposite sides, the steer and drive axles. The smaller turning radius on the cushion tire forklifts is one of their main advantages. Cushion tire forklifts are excellent for manufacturing facilities and warehouse operations that are compact with less space. Locations that rely on narrow aisles will benefit greatly from the smaller cushion tire forklifts and their tight turning capabilities. Cushion tire forklifts are more cost-effective and available compared to pneumatic tire models.

Suitable Work Applications for Pneumatic Tire Forklifts

Since pneumatic tires contain air, these forklifts are better suited for exterior applications. Interior applications may use pneumatic tire forklift models although they will not provide the maneuverability, lower clearance or tighter turning radius. Pneumatic tire models create harsh fumes with their internal combustion engines, making them unsuitable for interior locations. Pneumatic tire forklifts are longer and wider than cushion tire forklifts which is why they are primarily used outdoors. The solid pneumatic tire costs more compared to the air pneumatic tire. This is because a solid pneumatic tire is not susceptible to punctures or gouges because they are made of solid rubber and do not have air in them. Solid pneumatic tires are commonly used in lumber and scrap yards where there are tons of sharp, metal debris including nails. Air-filled pneumatic tires work well on gravel and asphalt exterior surfaces. The main issue with air pneumatic tires is their ability to become gouged or punctured. Due to their susceptibility for getting gouged or punctured, the work location must be free from sharp debris before driving the air pneumatic tires. Air tires are also known to give a bouncy ride, contributing to operator discomfort and fatigue. Therefore, many air pneumatic tire forklift users prefer to foam fill 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 also used to help prevent flat tires. It takes roughly three days to fill and cure an air pneumatic tire with foam.

Difference in Load Capacity

The load capacity on for pneumatic tire forklifts and cushion tire forklifts are fairly equal. There may be lift limits on certain electric-powered cushion tire models. However, cushion and pneumatic tire forklifts can basically be obtained with just about any load capacity. Load capacities come in a wide range - from less than 2,000 pounds to more than 200,000 pounds.