

## Cushion Tire Forklift

Used Cushion Tire Forklift Idaho - Most forklifts are classified by the kind of work they do and some are classified by their type of tires. Pneumatic and cushion tires provide the 2 distinct forklift classifications. It is vital to note that there are benefits and drawbacks to both types of forklift tires; cushion and pneumatic. 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 are made up of either smooth or treaded solid rubber and are designed around a metal ring or baseband. Cushion tires cost less to make and are easier to take care of. Cushion tires have been designed to work on smooth surfaces such as interior loading docks and warehouse floors. Cushion tires make travelling in tight locations much easier to navigate around corners due to their tight radius. Cushion tires also allow the forklift to sit closer to the ground. The advantage of a lower forklift is the increased vertical clearance when compared to forklifts with pneumatic tires. 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 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 are mainly utilized on uneven surfaces and rougher terrain. These tires fall into two categories: standard air pneumatic or solid resilient pneumatic. The main difference with these categories is that the standard air pneumatic tires consist of a layered rubber design filled with air and the solid resilient pneumatic type is made completely out of rubber. Pneumatic tire forklifts are excellent choices for working in locations with uneven or unpaved ground outdoors. The solid resilient pneumatic forklift tires are best used in areas such as lumber yards or junkyards and construction sites where there may be sharp metal items on the ground which could puncture the tires.

**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** 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** Most cushion tire forklift models use a fuel cell or battery as opposed to an internal combustion engine and are much quieter compared to their diesel or propane counterparts.
- 5) **Environmentally Friendly** Powered by electricity instead of relying on an internal combustion engine enables cushion tire forklifts to make zero dangerous emissions.

**Forklift Tire Choice** The forklift frame typically depicts whether a cushion tire or a pneumatic tire will be utilized. Axles and tires are specific to a forklift frame and lifting capacity. 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 most of the transporting, lifting loads and placement happens inside or with limited outdoor use on smooth surfaces, cushion tire forklifts are your best choice. 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. 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. Traction based tires will function in rough terrain environments that have wet surfaces, packed gravel and asphalt. However, it is still not recommended to drive on dirt or grass and it must be noted that the same type of tire must be used on the opposite sides, drive and steer axles. One of the top advantages of the cushion forklifts is their tight turning radius. 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 also less expensive and are more readily available than pneumatic tire forklifts.

**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. Interior applications may use pneumatic tire forklift models although they will not provide the maneuverability, lower clearance or tighter 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. Solid pneumatic tires are commonly used in lumber and scrap yards where there are tons of sharp, metal debris including nails. Air pneumatic tires work great outside on gravel and asphalt applications. The main issue with air pneumatic tires is their ability to become gouged or punctured. It is essential to ensure the work site is free from any sharp materials before using a forklift with air pneumatic tires. Since air-filled tires deliver a bouncy sensation, they contribute to operator fatigue and discomfort. Therefore, many air pneumatic tire forklift users prefer to foam fill their tires. This provides a smoother ride for the operator than the one experienced on solid pneumatic tires but also a less bouncy ride than air filled pneumatic tires. Foam filling is commonly used for flat tire prevention. It is necessary to plan for enough time when foam filling an air pneumatic tire as it can take up to 3 days to fill and cure properly.

**Difference in Load Capacity** Both cushion tire and pneumatic tire forklifts offer similar load capacities. Lift limits are given for certain electric-powered cushion tire forklifts. There are numerous forklifts available and a variety of pneumatic and cushion tire models can be found in a variety of load capacities. Load capacities come in a wide range - from less than 2,000 pounds to more than 200,000 pounds.