

THE IMPACT OF TIRE WEAR

When keeping track of the various powerful, hard-working components of an industrial forklift, it's easy to overlook some of the most subtle, yet crucial pieces: The tires. They may not seem impressive, but think about this: It is estimated that the average drive tire on a forklift carries more than 9,600 lbs., and unlike other vehicles, forklifts have no suspension systems to dissipate shock loads. The tires absorb every ounce of your forklift and its load, making it crucial to ensure they're safe to use at all times.

Forklift tires are in danger of sustaining damage or simply wearing out through regular use. It may be easy to look at a functioning tire and say, "It seems like it works to me," but you may be taking a serious risk by ignoring the signs that tires should be retired from service. It is important to switch out your tires after they sustain a certain amount of wear or any notable damage, as these conditions can cause:

Fatigue and job stress

Operators who use a forklift with chunked, worn or flat spotted tires have increased fatigue and job stress, possibly making them less careful and productive.

Stability issues

Kingpin is subjected to excessive stresses from shocks and uneven operation. This can cause potential stability issues.

Engines and transmission leak

Decreased ground clearances subject the truck to more damage to assemblies underneath. Having little to no cushion from worn forklift tires can loosen hardware on the unit which can cause engines and transmissions to leak.

Loads can be compromised

Loads can be compromised by the constant jarring and rocking, leading to damaged product and safety issues such as an upset forklift load falling on an employee.

Accelerated fork heel wear

Fork heel wear is accelerated as it becomes easier for an operator to drag the forks

Facility damage

The floors in your facility can experience damage due to bad forklift tires

Air tire blowing

Air tires risk blowing out, which can cause a tip over or lost load.



When to replace a Press-On tire.

- Camso recommends to replace a smooth Press-on tire when the overall rubber height reaches 2/3rds of the original rubber height. This dimension can be found on our published specification sheets.

Why?

- Reduced load carrying capacity
- Ensure clearance between mast and floor
- Improve ride quality and reduce shock transmission
- Reduce unnecessary lift maintenance

PRESS-ON TIRES

SOLIDEAL MAGNUM SMOOTH

TIRE SIZE ⁽¹⁾	TREAD	ACTUAL TIRE DIMENSIONS			LOAD CAPACITY ⁽²⁾ Counterbalanced lift trucks (lbs)					
		OVERALL DIAMETER	OVERALL WIDTH	REPLACEMENT OVERALL DIAMETER ⁽²⁾	6 mph		10 mph		16 mph	
	SMOOTH	(in)	(in)	(in)	LOAD WHEEL	STEERING WHEEL	LOAD WHEEL	STEERING WHEEL	LOAD WHEEL	STEERING WHEEL
9 x 5 x 5	■	9.0	5.0	7.9	2116	1742	1885	1587	1532	1257
10 x 4 x 6 1/4	■	9.9	4.0	8.9	1731	1422	1543	1301	1257	1025
10 x 5 x 6 1/4	■	10.0	5.0	8.9	2260	1863	2017	1698	1642	1345
10 x 4 x 6 1/2	■	10.0	4.0	9.0	1720	1411	1532	1290	1246	1025
10 x 4 3/4 x 6 1/2	■	10.0	4.8	9.0	2094	1720	1863	1565	1521	1246
10 x 4 15/16 x 6 1/2	■	10.1	4.9	9.1	2238	1841	1995	1675	1620	1334
10 x 5 x 6 1/2	■	10.0	5.0	9.0	2238	1841	1995	1675	1620	1334
10 1/2 x 5 x 6 1/2	■	10.5	5.0	9.3	2370	1951	2116	1786	1720	1411
10 1/2 x 6 x 6 1/2	■	10.5	6.0	9.3	2642	2116	2222	2005	2128	1752

When to replace a Resilient tire.

- Undamaged resilient tires can be worn down to the 60-J line as indicated on the sidewall of the tire.
- Wearing beyond the 60-J line represents a safety hazard and can lead to unexpected tire failure as well as potential damage to the forklift truck.
- Certain Solideal branded tires also feature a wearing indicator.



Wearing indicator (Solideal Xtreme)



When to replace a Pneumatic tire.

- Pneumatic tires (not damaged) can be worn until the tread layer has been worn away.
- Wearing beyond the tread pattern represents a safety hazard and can lead to unexpected tire failure as well as potential damage to the forklift.

Wearable rubber

