

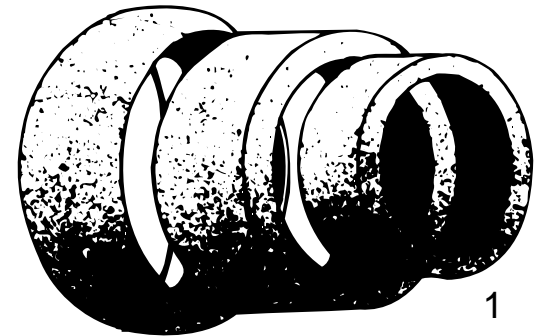
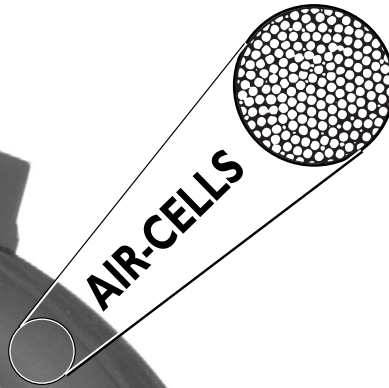


TROJAN TIRE INC.



Manufacturer of Patented Trojan Air-Cell® Rubber Technology

Tire Solutions for Support & Production Equipment



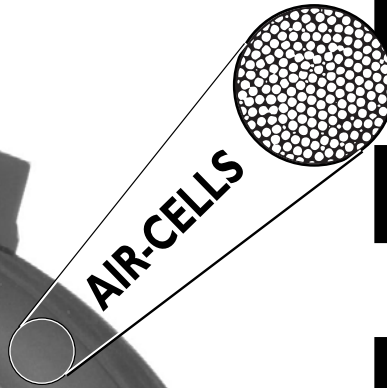


TROJAN TIRE INC.



Manufacturer of Patented Trojan Air-Cell® Rubber Technology

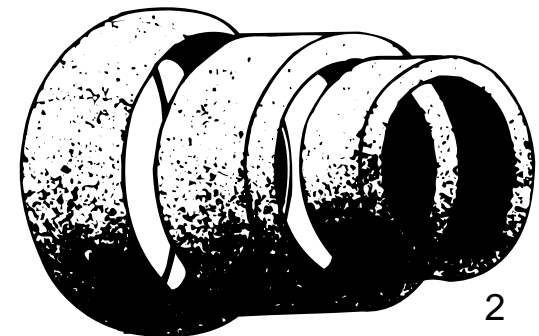
Tire Solutions for Support & Production Equipment



Superior Performance

Best for the Environment

Improved Health & Safety



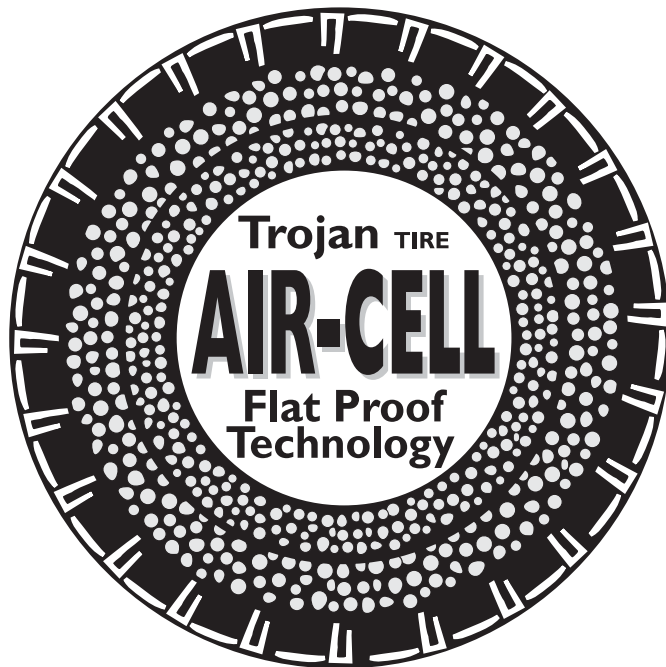
About Trojan Tire Inc.

Manufacturer of specialty, quality industrial tire products since 1987



About Trojan Tire Inc.

Patented Air-Cell[®] Rubber Tire Fill Technology





About Trojan Tire Inc.

Patented Air-Cell[®] Rubber Tire Fill Technology

Initially developed for underground mining applications, Trojan manufactures the Tuffil and Soft Core Products.

They have been proven around the world in a range of industrial, OTR and mining applications - in both production and support equipment.





About Trojan Tire Inc.

What this means for you:



Air-Like Ride

Increased Load Capacity

Best Stability

Longest Tire Life

Reduced Environmental Impact

Improved Health & Safety



Air-Cell Technology

What this means for you:

Made of high quality rubber compounds.

Every Tuffil and Soft Core is a complete unit that is psi/bar and compound engineered to a tire size - and application - for optimum performance.

Lowest Cost per Hour





Pre-Manufactured Layers



Real Cellular Rubber Compounds



Pre-Manufactured Layers

Each unit is manufactured for a specific tire brand, type and size

The layers fill entire tire cavity, to the bead

The number of layers depends on the tire dimensions

Press on a wheel, similar to a solid tire

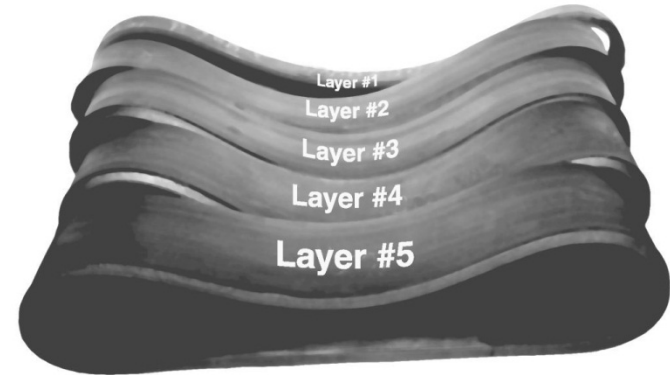




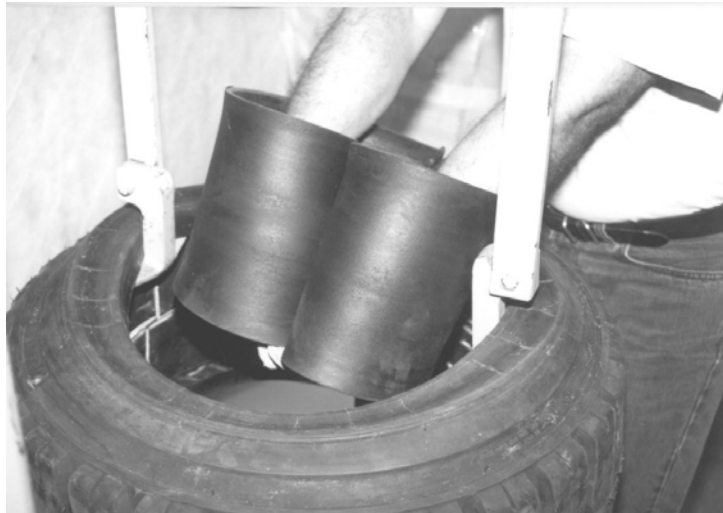
Easy to Insert



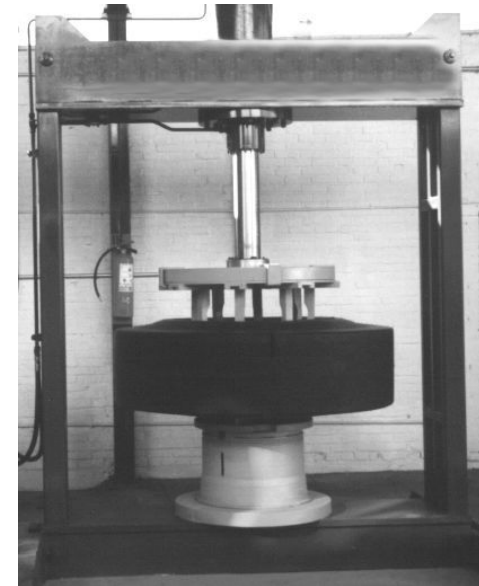
1. Pre-manufactured unit



2. Separate layers for installation



3. Spread tire, insert layers



4. Press ON/OFF Wheel



Easy to Service

Reduced Service Time

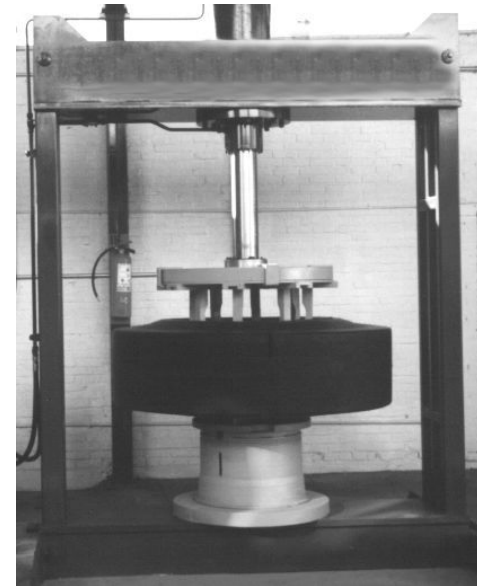


Available Pre-Installed

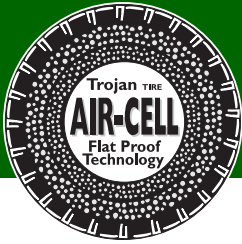
Off the Shelf

One Trip

Wheel Exchange



4. Press ON/OFF Wheel



Service Options

Maximize Your Tire Investment

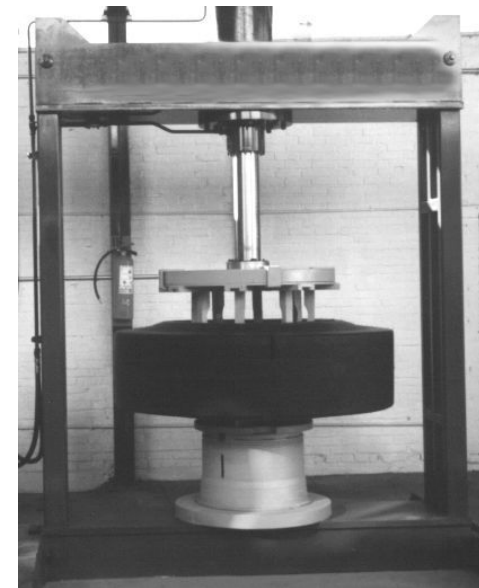
Wheels can be pressed off/on,
Soft Core or Tuffil can be removed/replaced

Retread Tires

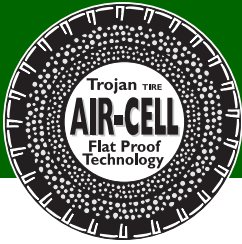
Repair Tires

Planned Maintenance

Machine Transferable



4. Press ON/OFF Wheel



Strong

Protect Your Tire Investment

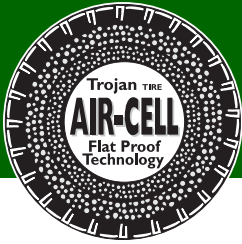
Real Cellular Rubber Compounds are much stronger than polyurethane (so called “foam fill”?)

This means longer tire life because:

Will not easily breakdown under higher loads and speeds – leading to premature tire failure.

Highly resistant to breakdown at potential tire casing cut areas.





Strong

Increased Load Capacity

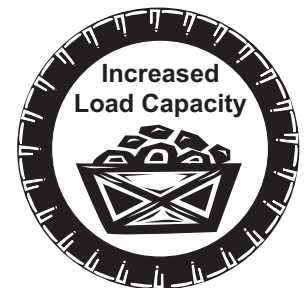
Trojan Air-Cell Rubber Compounds Support Load – unlike physically weak polyurethane

Up to 10 times stronger

Up to 50% plus increased load capacity

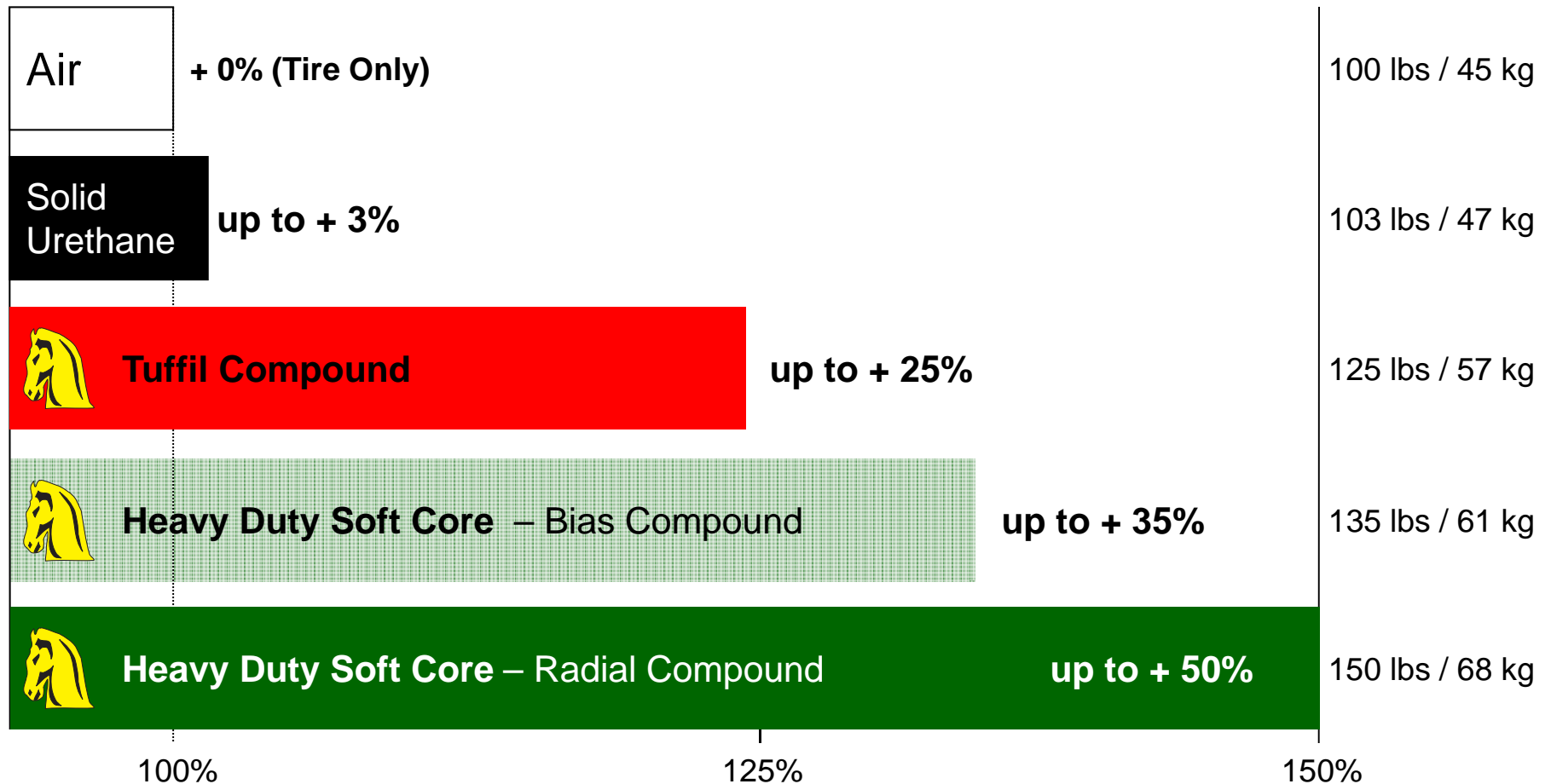
Trojan: Very High Tensile - up to 2700

Solid Urethane: Very Low Tensile – only 300



Increased Load Capacity

Tire Load Capacity + Fill Material Capacity = Total Load Capacity



Note: Tire Load Capacity combined with Fill Material Capacity is the Total Load Capacity.

Fill Materials Load Capacity ratings above are designed to Max psi or bar at 5 mph or 8 km/h.

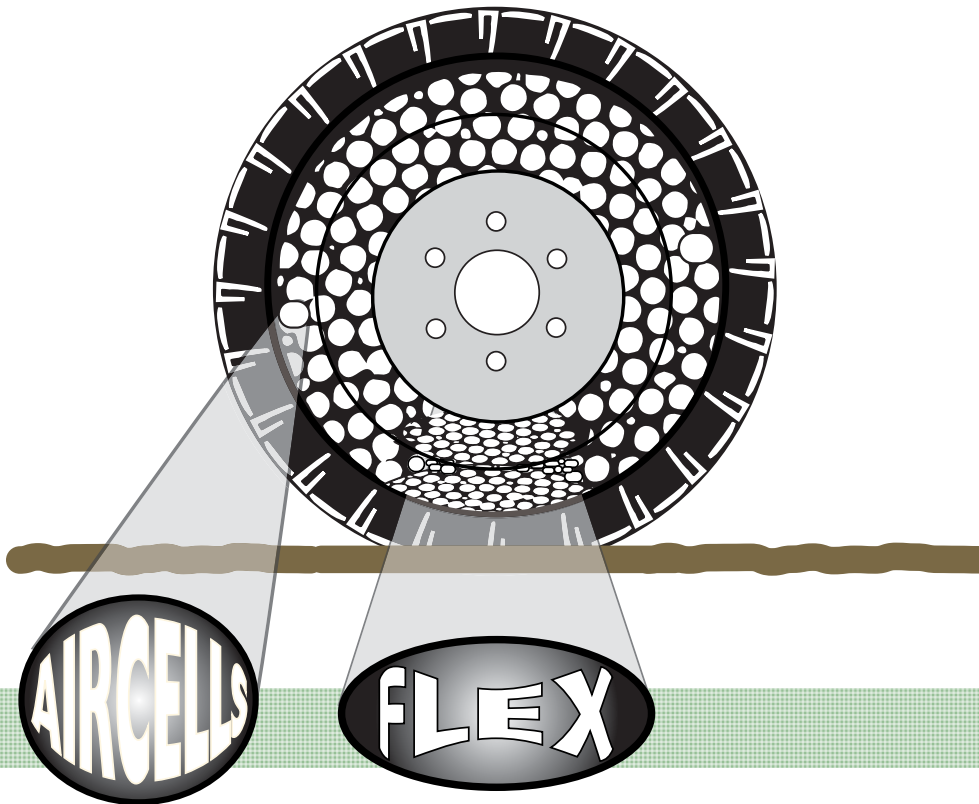
Super Overload Soft Core Compound also available – load capacity increase up to 70%. Consult Trojan.

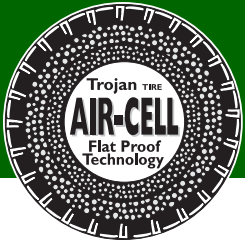


Air-Like Ride

Shock Absorbing

Cellular Rubber construction deflects with the tires load to absorb the impact and keep on rolling



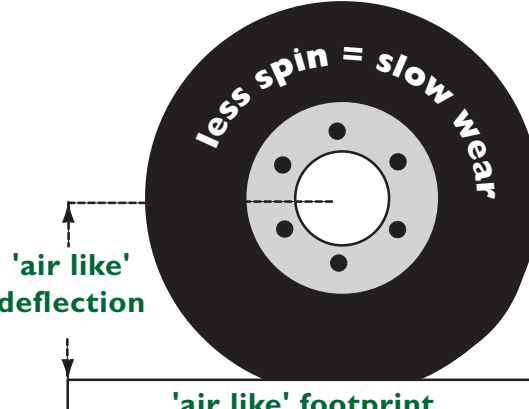
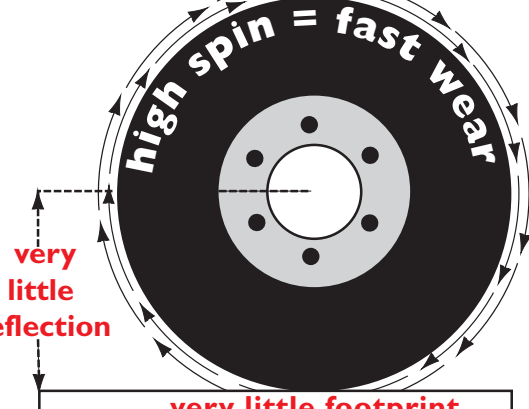


Best Traction

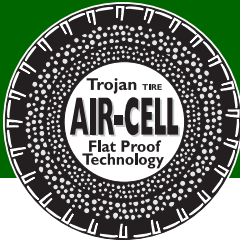
Less Spin

Larger footprint (contact area) and greater deflection (flex)



Trojan – Flexible Rubber	Polyurethane – Hard Solid Mass
 <p>'air like' deflection</p> <p>'air like' footprint</p> <p>less spin = slow wear</p> <p>More Traction = Less Spin = Slower Wear Rate</p>	 <p>very little deflection</p> <p>very little footprint</p> <p>high spin = fast wear</p> <p>Less Traction = High Spin = Faster Wear Rate</p>

High pressure solid polyurethane highly tensions the tire casing making it very rigid thus resist flexing, tire is susceptible to impact breaks, etc.


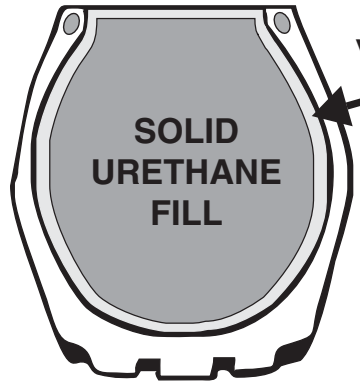



Positive Pressure

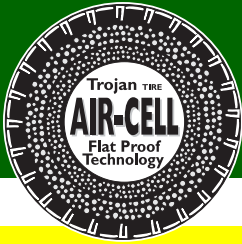
Expandable

Compressible Cellular Rubber flexes with casing, expands when tire stretches



Trojan – Expansive	Polyurethane – Non-Expansive
 <p data-bbox="241 1242 766 1339">Compressible, Flexes = Positive Casing Pressure</p>	 <p data-bbox="913 1242 1459 1339">Void Space, Rigid = Negative Casing Pressure</p>  <p data-bbox="1501 1274 1869 1323">Cause of Failure</p>

When casing stretches the void space of the Solid Polyurethane causes 18 Negative Casing Pressure Tension - potential cause of early tire and fill failure.



Clear Advantage

Solves your Environmental Impact Problems!

Trojan is the best option to meet Corporate mandates on the Environment:

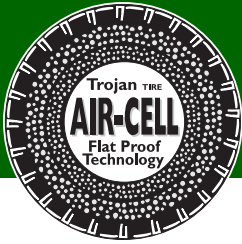
100% Reusable

100% Recyclable

Safe to Dispose

Landfill/Watershed Safe





Health & Safety

Protect your Workers

An easy way to dramatically improve workplace safety:

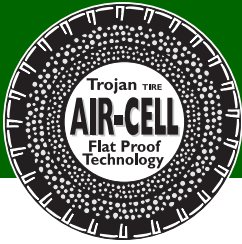
Safe to Handle

Non-Toxic to Employees

Fire Analysis: Toxicity Same as Tire



Solid Urethane: Highly Toxic to Employees as outlined in MSDS sheets



Safety Plus

Eliminates Air

Prevent the potential of a catastrophic injury



No Air = No Explosive Force

Planned Maintenance

Maintained Pressure

Reduced Liability





Proven

- Underground Coal Mining
- Underground Hard Rock Mining
- Docks
- Steel Mills
- Smelters
- Scrap Yards
- Solid Waste Facilities
- Brick Yards, Block Yards, Construction and more...

Production and Support Equipment



Compound Options

Options for Applications and Budgets

Tuffil

Heavy Duty Soft Core

TROJAN TUFFIL[®]

Manufacturer of Patented Trojan Air-Cell[®] Rubber Technology
Soft Ride • Longer Tire Life • Low Cost per Hour

Protect your Tire Investment

Superior Durability and Performance for Production & Support Equipment
PLUS
Easily Handles 25% Tire Overloads - unlike very weak polyurethane

TROJAN PRESS N GO
Fast Service

TROJAN SOFT CORE[®]

Manufacturer of Patented Trojan Air-Cell[®] Rubber Technology
Tire Solutions for Support & Production Equipment

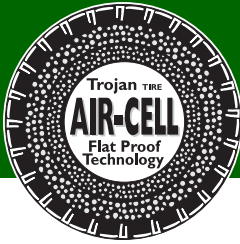
Air-Like Ride
Increased Load Capacity
Longest Tire Life
Improved Health & Safety

AIR-CELLS

trojantire.com


Best Environment

Consider for tires that have long life or are at remote sites.

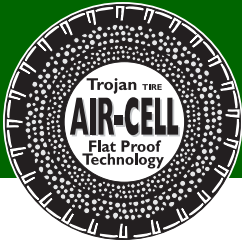


The Right Compound

Consult with Trojan

		APPLICATION DATA (Reference: QUOTATION/ORDER FORM) Tel: 905.633.6886 Fax: 905.633.7271 E-Mail: info@trojantire.com	
TIRE SIZE & BRAND: _____	TYPE OF MACHINE: _____	TIRE NOMENCLATURE: _____	MACHINE MAKE & MODEL#: _____
TIRE PLY RATING: _____ BIAS <input type="radio"/> RADIAL <input type="radio"/>	TRACTOR: _____ TRAILER: _____	TREAD DESIGN: _____	#TIRES FRONT: _____ # TIRES REAR: _____
NEW: <input type="radio"/> USED: <input type="radio"/> RETREAD: <input type="radio"/>	MACHINE # & HOURS PER YEAR: _____	RIM WIDTH CONFIRMED: _____	BUCKET/BOX: _____ LOAD: _____
TYPE OF RIM & BRAND: _____	UNLOADED WEIGHTS FRONT AXLE: _____	CURRENT AIR PRESSURE USED: _____	LOAD per TIRE: _____ Overload: _____
TIRE RATED CAPACITY: _____ lbs _____ kgs	UNLOADED WEIGHTS REAR AXLE: _____	SPEED: _____ DISTANCE: _____ PSI: _____	LOAD per TIRE: _____ Overload: _____
TIRE OD: _____ S.L.R.: _____	TOTAL EMPTY WEIGHT: _____	TIRE WITH TROJAN: _____ lbs _____ kgs	LOADED WEIGHTS FRONT AXLE: _____
REQUIRED AIR PRESSURE: _____	LOAD per TIRE: _____ Overload: _____	TYPE OF OPERATION: _____	LOADED WEIGHTS REAR AXLE: _____
AVERAGE # OF TIRES PER MACHINE PER YEAR: _____	LOAD per TIRE: _____ Overload: _____	TIRE HOURS (AVERAGE): _____	TOTAL LOADED WEIGHT: _____
OTHER OPERATING COMMENTS: _____	CYCLE DISTANCE: _____ CYCLE TIME: _____	_____	SPEED: _____ HRS OF OPERATION: _____
_____	SURFACE CONDITIONS: <input type="radio"/> SMOOTH <input type="radio"/> ROUGH	_____	_____
RECOMMENDATIONS: _____	_____	_____	_____

page 9



Reference

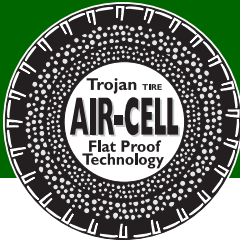
Pressure and Loading Chart – Bias Tires

Increased Load Capacity Ratings

Bias Tires - Pressures and Loadings Chart

(for data on other sizes contact Trojan)

Tire Size and Ply	Air psi @ 5 mph	Load Capacity Increase with Heavy Duty Soft Core up to +35%	Air bar @ 8 km/h	Load Capacity Increase with Heavy Duty Soft Core up to +35%
8.25x15, 16 ply	120 psi = 7,025 lbs	9,484 lbs	8.3 bar = 3,186 kg	4,302 kg
10.00x15, 16 ply	115 psi = 8,455 lbs	11,414 lbs	8.0 bar = 3,835 kg	5,177 kg
28x12.5x15, 20 ply	130 psi = 7,025 lbs	9,484 lbs	9.0 bar = 3,187 kg	4,302 kg
32x12.1x15, 24 ply	145 psi = 9,150 lbs	12,353 lbs	10.0 bar = 4,150 kg	5,603 kg
32x14.50x15, 24 ply	150 psi = 10,900 lbs	14,715 lbs	10.3 bar = 4,944 kg	6,675 kg
35x14.50x15, 28 ply	150 psi = 12,305 lbs	16,612 lbs	10.3 bar = 5,581 kg	7,534 kg
38x16x15, 28 ply	150 psi = 15,800 lbs	21,330 lbs	10.3 bar = 7,167 kg	9,675 kg
10.00x20, 16 ply	110 psi = 10,295 lbs	13,898 lbs	7.6 bar = 4,670 kg	6,305 kg
42x13x20, 24 ply	140 psi = 18,000 lbs	24,300 lbs	9.7 bar = 8,165 kg	11,023 kg
12.00x20, 20 ply	140 psi = 13,400 lbs	18,090 lbs	9.7 bar = 6,078 kg	8,205 kg
14.00x20, 28 ply	140 psi = 21,000 lbs	28,350 lbs	9.7 bar = 9,525 kg	12,859 kg
44x18x20, 32 ply	150 psi = 20,100 lbs	27,135 lbs	10.3 bar = 9,117 kg	12,308 kg
50-20x20, 36 ply	145 psi = 28,500 lbs	38,475 lbs	10.0 bar = 12,927 kg	17,451 kg
12.00x24, 24 ply	120 psi = 15,210 lbs	20,534 lbs	8.3 bar = 6,899 kg	9,314 kg
14.00x24, 28 ply	140 psi = 22,000 lbs	29,700 lbs	9.7 bar = 9,979 kg	13,472 kg
16.00x25, 28 ply	109 psi = 25,400 lbs	34,290 lbs	7.5 bar = 11,500 kg	15,525 kg
17.5x25, 20 ply	83 psi = 18,200 lbs	24,570 lbs	5.8 bar = 8,250 kg	11,138 kg
1800x25, 32 ply	109 psi = 33,100 lbs	44,685 lbs	7.5 bar = 15,000 kg	20,250 kg
26.5x25, 32 ply	80 psi = 37,500 lbs	50,625 lbs	5.5 bar = 17,000 kg	22,950 kg



Reference

Pressure and Loading Chart – Radial Tires Increased Load Capacity Ratings

Radial Tires (L4 or L5) - Pressures and Loadings Chart (for data on other sizes contact Trojan)

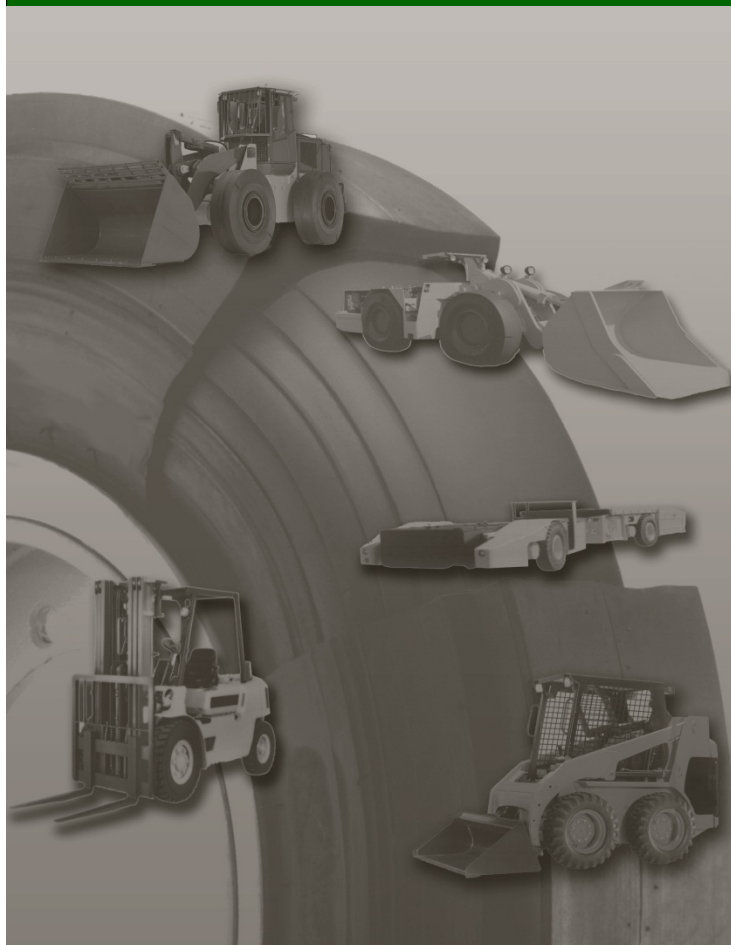
Tire Size	Air psi @ 5 mph	Load Capacity Increase with Heavy Duty Soft Core up to +50%	Air bar @ 8 km/h	Load Capacity Increase with Heavy Duty Soft Core up to +50%
8.25R15, L5	116 psi = 7,938 lbs	11,907 lbs	8.0 bar = 3,600 kg	5,400 kg
10.00R15, L5	116 psi = 9,482 lbs	14,223 lbs	8.0 bar = 4,301 kg	6,452 kg
32-14.5R15, L5 350/65R15, L5	116 psi = 9,129 lbs	13,694 lbs	8.0 bar = 4,140 kg	6,210 kg
35-14.5R15, L5	116 psi = 11,246 lbs	16,869 lbs	8.0 bar = 5,101 kg	7,652 kg
38-16R15, L5 400/80R15, L5	116 psi = 13,120 lbs	19,680 lbs	8.0 bar = 5,950 kg	8,925 kg
9.00R20, L5	116 psi = 11,025 lbs	16,538 lbs	8.0 bar = 5,000 kg	7,500 kg
10.00R20, L4	116 psi = 12,987 lbs	19,481 lbs	8.0 bar = 5,890 kg	8,835 kg
12.00R20, L5	116 psi = 14,112 lbs	21,168 lbs	8.0 bar = 6,401 kg	9,602 kg
14.00R20, L5	140 psi = 21,000 lbs	31,500 lbs	9.7 bar = 9,525 kg	14,288 kg
12.00R24, L5	123 psi = 16,097 lbs	24,146 lbs	8.5 bar = 7,301 kg	10,952 kg
14.00R24, 3" L4	123 psi = 22,050 lbs	33,075 lbs	8.5 bar = 10,000 kg	15,000 kg
14.00R25, 3" L4	123 psi = 14,000 lbs	21,000 lbs	8.5 bar = 6,350 kg	9,525 kg
16.00R25, L5	102 psi = 21,609 lbs	32,414 lbs	7.0 bar = 9,800 kg	14,700 kg
17.5R25, L5	102 psi = 22,160 lbs	33,240 lbs	7.0 bar = 10,051 kg	15,077 kg
18.00R25, L5	102 psi = 30,098 lbs	45,147 lbs	7.0 bar = 13,650 kg	20,475 kg
26.5R25, L5	80 psi = 36,713 lbs	55,070 lbs	5.5 bar = 16,650 kg	24,975 kg
29.5R25, L5	80 psi = 44,431 lbs	66,647 lbs	5.5 bar = 20,150 kg	30,225 kg

Note: Load ratings will vary by tire brand, construction, speeds and distances. Incorrect wheel types and widths can vary load capacity resulting in reduced tire life and Soft Core reusability. • For applications with overloads greater than 25%, Trojan requires machine application, speed, load, distance information, etc. (please see Trojan's Quotation/Order Form or Application Data Form)

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Tire Solutions for Support & Production Equipment



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Email: info@trojantire.com