

BIG MOVES

Industrial
Pneumatic Tyres

YOUR NEXT BIG MOVE

Business under pressure

Airports, logistics, ports - different business sectors facing the same challenges: how to increase operational performance while meeting growing demands for individual solutions, strict safety requirements and digitized services.

Big moves with pneumatic tyres

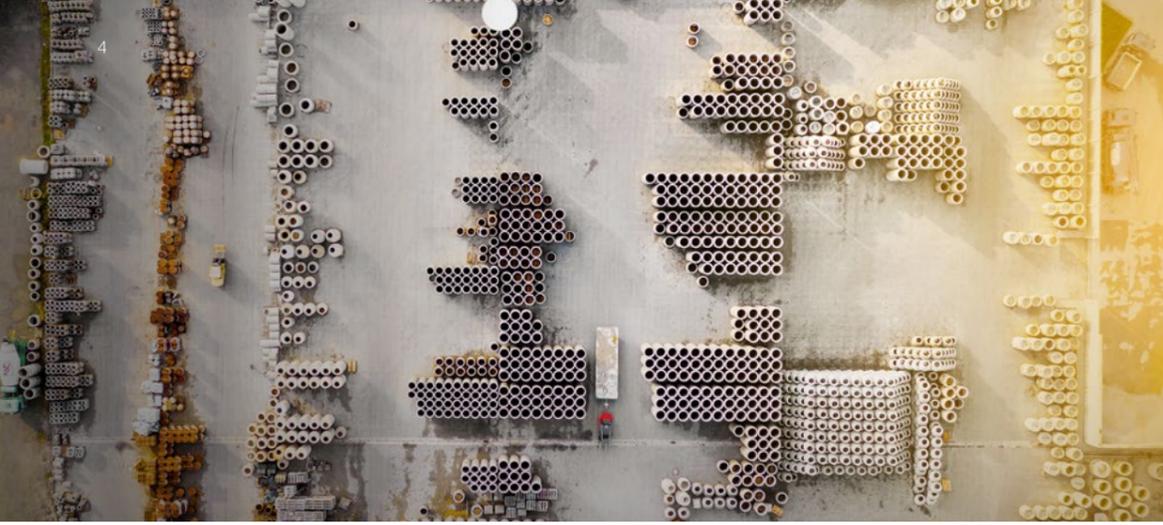
When you're making big moves you need technology that keeps you going. Continental supports you with high-performance industrial pneumatic tyres to withstand the pressure of your daily operations. Our innovative industrial pneumatic tyres give you reliability and efficiency at high and low speeds, over long and short distances and on various surfaces.

German engineering and expertise

150 years of enhanced tyre knowledge, 50 years of industrial pneumatic expertise and millions of industrial pneumatic tyre delivered worldwide. Our history of precision German engineering is backed by a promise for the future: to continue to produce tyres that allow you to make your big moves, whenever you want it.

Make your next big move with Continental.





INDUSTRIAL



PNEUMATIC



TYRES

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BIG CHALLENGES

Nothing could be more diverse or complex than current demands. Our aim is to help you overcome the various challenges of your daily operations - with our comprehensive product range, advanced tyre technology and digital solutions.

Increase productivity

With a strong and robust design and a high resistance to damage and cuts, even under extreme conditions, our tyres ensure your operations keep running, 24/7.

Provide individual, tailor-made solutions

Our industrial pneumatic tyre portfolio offers the opportunity to meet individual demands with customized solutions - for forklifts, tow tractors, heavy load transport, airport ground support vehicles and trailers.

Manage increasingly complex operations

Strong, reliable, powerful - our tyres are ready to manage the tough tasks waiting for them in various industrial operations including the steel, concrete, paper, automotive and airport sectors.

Meet stringent safety requirements

Effective grip and outstanding traction, even on the slipperiest surfaces, means our industrial pneumatic tyres meet the strictest safety requirements.

Achieve challenging sustainability goals

Our industrial pneumatic tyres are designed to reduce fuel consumption and therefore help to improve your carbon footprint and reduce your overall costs.



OUR BIGGEST AIM: YOUR SUCCESS

Customer Services

Reliable support combined with sustainable solutions

Every day we aim to make your mobility safer, smarter and more sustainable. With excellent tyres and reliable solutions, we strive to be your perfect service partner for industrial pneumatic tyres.

Our sustainable solutions add value to your company and to society. To put them in practice we put our customers first. Whether it is consultancy about the right tyres for your applications, or on-site assistance with tyre testing and digital solution implementation, we are there for you.

We believe "tyre business is people business." Together we can shape a sustainable future.



"We have been working very closely with Continental for over 20 years. If you call them, they will always get back to you. The support from Continental is top-notch."

Jospeh Gensler, former Workshop Manager at Krenzer Paletten



Technical Customer Services

- Warranty support – from Basic to Advanced
- Monitoring systems for evaluation and prediction of tyre performance
- Technical consultancy and trainings

Fleet Services

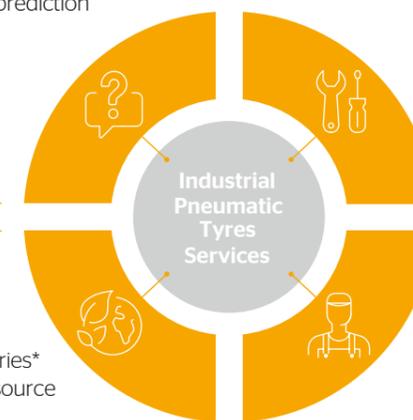
- Conti360° fleet solutions with a network of around 1,000 service partners in multiple countries across Europe
- Fleet administration tools to help automate data intake
- Advanced fleet management back office platform

Sustainability (Targets until 2050)

- 100% carbon neutrality along our entire value chain
- 100% emission-free mobility and industries*
- Circular economy with 100% closed resource and product cycles
- 100% responsible value chain
- Our ambition: 100% renewed and recycled tyres

Experts at Work

- Highly trained employees in every position – from Sales to R&D
- Close connection to customers to fulfill our conviction "tyre business is people business"
- Advanced training tools – online, live and hybrid



* Emission-free* refers to zero emissions like greenhouse gases or NOx but does not include harmless emissions like water vapor emissions, non-toxic biodegradable particulate emissions or a minimum of noise emissions.

DRIVEN BY BIG DATA

Why Digital Tyre Monitoring?

One Example: Savings for a fleet of 20 forklifts.

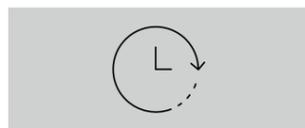


¹ vs. a tyre that is 10% underinflated ² Analysis by Continental based on customer experiences



Tyre Sensors
mounted onto the inner liner:
measure pressure and temperature from inside the tyre.

Challenges



Lack of time for frequent manual tyre checks due to 24/7 shifts.



Maneuvering in small areas and high turn rate put high stress on tyre and **can lead to high tyre temperatures.**



Application based **driving** behavior.



A wide variety of different processes and applications both **indoor and outdoor.**

Solution

- Receive real-time status by e-mail and SMS alerts or check your tyre pressure in the web portal before vehicles go into operation to **reduce risk of breakdowns.**
- Properly inflated tyres **save you up to 1% on fuel** compared to a tyre just 10% underinflated. Additionally, it increases casing life by up to 20%.*
- Get precise information on the tyres' temperature **to help prevent tyre Damage and breakdowns.**
- Ensure **correct inflation pressure** during vehicle operations.
- Get system-supported tyre information to increase safety and **save working hours** by eliminating manual pressure checks.

* Please refer to the tyre manufacturer's load and inflation information to determine the tyre's weight capacity and proper air pressure.

Choices

ContiPressureCheck

Single Vehicle Monitoring ContiPressureCheck is a system for monitoring tyre pressure and air temperature via a sensor in the tyre. This system displays the collected data in the driver's cabin and sends a signal when tyre pressure is not optimal. ContiPressureCheck is a driver-centric system for single vehicles and can be integrated into third-party telematics solutions by enabling long-distance, wireless data transmission.

Single

- Display
- Hand-Held Tool (HHT)
- Central Control Unit (CCU)
- Tyre sensors

Integrated

- Hand-Held Tool (HHT)
- Central Control Unit (CCU)
- Tyre sensors
- In vehicle telematics integration proprietary

ContiConnect

Multiple Vehicle Solution ContiConnect is a solution that easily connects multiple vehicles and helps fleet managers move from rigid, manual maintenance. The tool includes a yard reader/telematic unit that enables remote data collection and transmission. This information is transmitted to the Continental backend and then uploaded to the ContiConnect web portal. This way, drivers and fleet managers can check the data anytime and anywhere on the web.

Yard

- ContiConnect Web Portal
- Hand-Held Tool (HHT)
- Yard-Reader-Station (YRS)
- Tyre sensors

Live

- ContiConnect Web Portal
- Hand-Held Tool (HHT)
- Yard-Reader-Station (YRS)
- Central Control Unit (CCU)
- Tyre sensors

Benefits



Increase efficiency



Monitor your assets



Maximize uptime



Safety



Sustainability

BIG TIME FOR TECHNOLOGIES

Radial Tyres

Motion and distance

A **radial tyre** has a carcass which contains several layers of steel reinforcements. The main steel carcass layer runs directly from bead to bead. The sidewall and the tread area work independently of each other, which in turn enables the contact patch to be stiffer, flatter, wider, more stable with less tread movement while driving. This leads to lower heat build-up and lower wear rate, making a radial tyre the optimum choice for longer distance applications.

StaBLe Bead*

Re-engineered construction at bead area for maximum robustness

- Open steel cord ends and bead reinforcements are covered with an edge protection component to reduce potential bead area damage
- Special adhesion agents in the protection component enhance the chemical and mechanical interaction between reinforcements and compounds to deliver high robustness

* In selected tyre sizes implemented.

Edge protection component



Edge protection component for very high resistance against crack propagation and mechanical stress

Cross-ply Tyres

Motion and stability

In a **cross-ply construction**, the carcass consists of multiple layers of fabric, running diagonally from one bead to the other. Tread and sidewall are coupled to form a single unit. All shock-absorbing movements of the sidewall are transferred into the tread, meaning that the contact patch width varies in size and shape according to the ground surface. The multiple carcass layers result in a very robust side sidewall construction. Cross-ply tyres are therefore flexible and have very high damage resistance. They are best suited to industrial tractors, airport vehicles and self-powered lift vehicles.

Tread
Textile carcass
Innerliner
Sidewall
Apex, chafer, bead and wire cores



Depicted: IC40

SO BIG, SO SAFE



Tubeless Sealing Ring (TSR)

Improved safety and mobility

The Tubeless Sealing Ring (TSR) enables the mounting of Continental industrial radial tyres on standard industrial vehicle rims. Their construction requires mounting with a tube and a flap. The TSR consists of a rubber ring with an integrated valve. The rubber ring sits on the cylindrical part of the rim between the beads of the tyre and ensures an airtight interface, sealing the tyre chamber without the use of a tube and flap.

The TSR works as an enabler for the usage of ContiPressureCheck in combination with a multi piece rim (tube type). ContiPressureCheck uses a sensor inside the tyre to continuously monitor the inflation pressure and tyre temperature to prevent tyre failures and damage and maximize fuel efficiency.

Off-centered valve position (OC) for rims with a short valve slot.

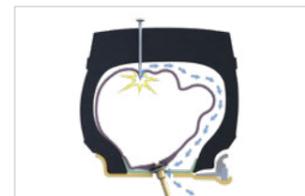


Standard centered valve position for rims with a long valve slot.



How does it work?

A rubber sealing ring is mounted inside the tyre between the beads that seals the air when inflated.



Disadvantages of tube tyres

- Rapid deflation upon puncture
- Risk of valve rip-out
- Instant failure and increased downtime
- Risk of load and equipment damage

Advantages of tubeless tyres

- No sudden air loss upon puncture
- Equipment remains safe, mobile and productive
- Elimination of sudden weight transfer
- Turning on the rim is not critical
- Low profile tyres have increased durability
- Simplified and quicker mounting
- Fewer parts than a tubed tyre
- Optimized CO₂ footprint and maximum sustainability of the tyre/vehicle system.

ENJOY BIGGER POWER

ContiRT20

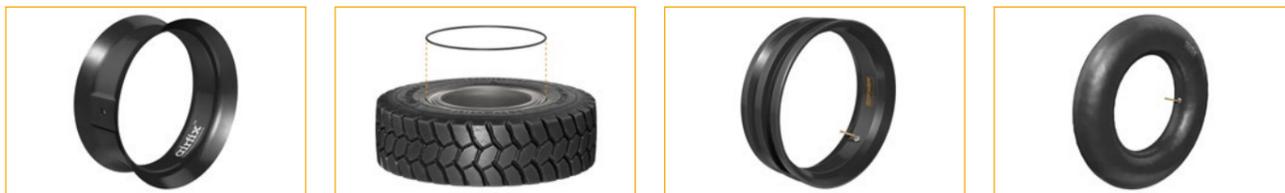
Power and durability

The ContiRT20 is characterized by outstanding mileage due to the low abrasion tread compound and resistance to damage and cuts even under extreme conditions.

The construction of this tyre is specially designed to offer maximum tilting stability and therefore safety when lifting and transporting heavy and fragile loads. Its intricate tread design with a high number of tread edges ensure excellent traction together with high comfort via reduced vibration.

In general, the ContiRT20 is the perfect choice when it comes to high productivity and minimal operating costs in tough working conditions.

Accessories for Continental industrial pneumatic tyres (e. g. tubes, flaps and valves) are available. Detailed information can be found in our Technical Data Book for Material Handling and Port Operations Tyres.



Radial Tyres



Product highlight

High number of tread edges

Customer benefits

- Improved transmission of tractive force
- Increased mileage by reducing vibration-induced abrasion
- High durability
- Resistance to severe wear and tread cracking
- Special tread design for high levels of traction on both smooth and uneven ground surfaces





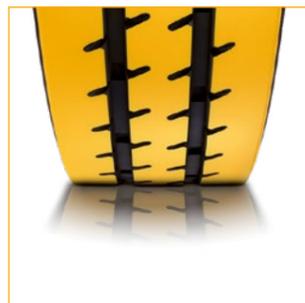
BIG IN ALL CONDITIONS

ContiRV20

Speed and grip

The ContiRV20 offers high productivity and minimal operating cost in fast moving material handling applications such as airports and logistics.

Safety is also in focus with improved wet grip and traction ensuring shorter stopping distances and better grip on slippery or sloping surfaces such as ramps. In addition, an industrial strength radial casing together with a closed outside-shoulder three-rib design provides excellent durability and lifetime as well a high degree of ride comfort and handling.



Product highlight
Ribbed tread pattern for smooth road contact

- Customer benefits**
- Reduced energy consumption and CO₂ emission output
 - Wet grip and traction
 - Ride comfort and even wear



ContiRV20 All Season

Traction and comfort - all year round

ContiRV20 All Season offers extra traction and performance in winter conditions.

Its three-rib tread with multiple sipes ensure maximum ground contact and traction on typical hard and flat airport surfaces and ramps that can get slippery when wet or covered in snow or slush.



Product highlight
Angled pocket sipes for optimum traction performance and steering capabilities in all weather conditions

- Customer benefits**
- Optimum traction performance and steering capabilities in both summer and winter conditions
 - Increased traction and better braking performance in all weather conditions
 - High comfort and steering capabilities





MADE FOR BIG JOBS

TerminalMaster

Strength and traction

Port terminal operations are very demanding for tyres. Terminal tractors with their short wheelbase are designed for tight turns with a lot of tyre abrasion. Ground conditions are additionally synonymous with a high amount of debris and uneven kerb and rail surfaces. Conditions are especially harsh with a high risk of tyre damage. It is therefore recommended to use a tyre specially developed for this application.

The Continental TerminalMaster is designed for this type of heavy-duty application combining a high load carrying capacity, extra deep tread and added damage protection from foreign objects.



Product highlight

Closed shoulder design tread ribs

Customer benefits

- Outstanding traction due to distinctive S-shaped cross ribs
- Increased mileage and excellent protection against foreign obstacles
- Reduced impact of corner scrub during turns



TerminalTransport

Resistance and endurance

The Continental TerminalTransport is an all-rounder. This radial tyre with its closed-shoulder design and proven tread pattern will perform on all terminal tractor and trailer axle positions.

At home in the port terminal or freight shunting environment the TerminalTransport offers the advantages of low rolling resistance, excellent grip and traction in the wet, high ride comfort and even wear - with an excellent price-performance ratio.



Product highlight

Special tread pattern and tread compound

Customer benefits

- High damage resistance
- Traction on even and uneven surface
- High mileage





THE BIG CHOICE

TerminalMaster AP

Durable and efficient

The tyre is used for pushback tractors or tugs (so called "pushbacks") operating in an airport.

Customer benefits

- High mileage and long service life
- Reduced fuel consumption and carbon emissions
- Excellent traction

IC70

Flexible and energy-saving

The IC70 is the universal industrial tyre for all wheel positions available in 8" rim diameters.

Customer benefits

- Good traction
- Excellent ride comfort
- Energy saving

ConRad HT1

Tough and long-lasting

The ConRad HT1 is a twin fitment solution for large forklifts.

Customer benefits

- Tyre durability
- Lower rolling resistance
- Longer wear
- Cost efficient

IC 10 / IC 12

Sturdy and comfortable

The sturdy construction provides protection from tread punctures.

Customer benefits

- Good ride comfort
- High mileage

IC 40

Robust and durable

The tyre for demanding applications, where high mileage and durability are critical.

Customer benefits

- High loading capability
- Good tyre stability
- Optimized damage resistance



Cross-ply Tyres



Digital Tyre Monitoring Components



Driver's cockpit display

- Display shows the status of the tyre and indicates 7 different types of warning and the related tyre position in the driver's cabin



ContiConnect Web Portal

- Browser-based web interface for access to data, statistics and reports



Receiver/Central Control Unit (CCU)

- Receives and evaluates signals from tyre sensors
- Generates warnings and provides them for display - up to 24 tyres fitted on up to 6 axles



Hand-Held Tool

- Initial configuration of entire system
- Wireless communication with tyre sensors
- Synchronizes tyre sensors to each wheel position
- Wired communication with CCU



Additional Receiver

- Integrated antenna and receiver to be used if:
 - Vehicle has an axle spread of more than 6m
 - Vehicle has more than 3 axles
 - A trailer is docked



Yard Reader Station (YRS)

- The connectivity component that wirelessly receives data from the tyre sensor upon returning to the yard



Central Telematic Unit (CTU)

- The Telematic Control Unit receives processed data from the CCU and transmits it along with a GPS signal to Conticonnect web portal while the vehicle is moving in operation.



Tyre Sensor

- Integrated battery-powered tyre sensor with radio frequency transmitter - individual coding per running wheel
- Sends data every 2 minutes



Cleaning Scraper and Mounting Tool (for retrofitting sensor)

- Scraper for pretreating the inner layer of the tyre
- Pressing tool including insert
- Tool for pressing on the tyre sensor during bonding

Digital Tyre Monitoring Make your modular choice

	Description	Article No.
● Basic Kits	Kit 1.2: without additional receiver	17 34 115
	Kit 3.2: Trailer	17 34 117
● Sensor Kits	Kit 4.2.4: 4 tyre sensors	17 34 118
	Kit 4.2.6: 6 tyre sensors	17 34 119
● Advanced Kits	Kit 6.2: TyreView (Display)	17 34 121
	Kit 7.2: TyreConnect (Telematics cable)	17 34 122
Tyre sensor mounting and spare parts	Cleaning Scraper	17 34 130
	Mounting Tool (Tyre sensor)	17 34 019
	Insert - Mounting Tool	17 34 022
System configuration and spare parts (Hand-Held Tool)	Set Hand-Held Tool incl. accessory	17 34 052
	Set Tyre Sensor Container 12	17 34 072
	Set Tyre Sensor Container 24	17 34 073
ContiConnect	KIT YardReader Station	*
	CTU (Central Telematic Unit)	1734199

*Please contact our sales team for detailed information
Additional mounting equipment and spare parts available. Detailed information can be found in the Technical Data Book for Material Handling and Port Operations.

Components needed by solution

	Single		Integrated		Yard		Live	
	● 1.2	● 4.2.6	● 1.2	● 4.2.6	● 4.2.6	● YR	● 1.2	● 4.2.6
	● 6.2						● CTU	● 6.2
	● 1.2	● 4.2.6	● 1.2	● 4.2.6	● 4.2.6	● YR	● 1.2	● 4.2.6
	● 6.2						● CTU	● 6.2
	● 1.2	● 4.2.6	● 1.2	● 4.2.6	● 4.2.6	● YR	● 1.2	● 4.2.6
	● 6.2		● 7.2				● CTU	● 6.2
	● 1.2	● 4.2.6	● 1.2	● 4.2.6			● 1.2	● 4.2.6
	● 6.2		● 7.2				● CTU	● 6.2
	● 1.2	● 4.2.6	● 1.2	● 4.2.6	● 4.2.6	● YR	● 1.2	● 4.2.6
	● 6.2		● 7.2				● CTU	● 6.2
	● 3.2	● 4.2.4			● 4.2.4	● 4.2.4	● 1.2	● 4.2.4
	● 4.2.4				● YR		● 4.2.4	● CTU

Dimensions

Article Program Radial Tyres

Size	PR	LI	SSY	Tread Pattern	Tyre Type
8" Rim					
5.00 R 8	10	111	A5	IC70	TL
125/75 R 8 15x4 1/2R8	12	100	A5	IC70	TL
150/75 R 8 16x6R8	16	113	A5	IC70	TL
180/70 R 8 18x7R8	16	125	A5	ContiRT20, ContiRV20	TL
9" Rim					
6.00 R 9	12	121	A5	ContiRT20, ContiRV20	TL
10" Rim					
6.50 R 10	14	128	A5	ContiRT20, ContiRV20	TL
225/75 R 10 23x9R10	20	142	A5	ContiRT20, ContiRV20	TL
12" Rim					
7.00 R 12	16	136	A5	ContiRT20, ContiRV20, IC70	TL
250/75 R 12 27x10R12	20	152	A5	ContiRT20	TL
13" Rim					
165 R 13		102	A6	ContiRV20	TL
15" Rim					
7.00 R 15	14	143	A5	ContiRT20, ContiRV20	TL
7.50 R 15	16	146	A5	ContiRT20, ContiRV20	TL
8.25 R 15	18	153	A5	ContiRT20, ContiRV20, ConRad HT1	TL
225/75 R 15 28x9R15	16	149	A5	ContiRT20	TL
250/70 R 15	18	153	A5	ContiRT20, ContiRV20, IC80	TL
315/70 R 15	22	165	A5	ContiRT20, ContiRV20	TL
355/65 R 15	24	170	A5	ContiRT20	TL
16" Rim					
225/75 R 16	10	116	A8	ContiRV20, ContiRV20 All Season	TL
16.5" Rim					
8.75 R 16.5	12	128	A8	ContiRV20, ContiRV20 All Season	TL
20" Rim					
10.00 R 20	18	166	A5	ContiRT20	TL
11.00 R 20	18	169	A5	ContiRT20	TL
12.00 R 20	20	176	A5	ContiRT20, ContiRV20, ConRad HT1	TL
365/80 R 20		175	A5	TerminalMaster AP	TL
22.5" Rim					
280/75 R 22.5		168	A8	TerminalMaster	TL
300/80 R 22.5		172	A8	TerminalTransport	TL
310/80 R 22.5		175	A8	TerminalMaster	TL
24" Rim					
12.00 R 24		178	A5	ContiRT20	TL, TT
14.00 R 24		193	A5	ContiRT20	TL, TT

Dimensions

Article Program Cross-ply Tyres

Size	PR	LI	SSY	Tread Pattern	Tyre Type
4" Rim					
3.00-4	4	51	A5	IC10, IC35	TT
4.00-4	6	77	A5	IC10	TT
21x4	4	98	A5	IC10	TT
8" Rim					
4.00-8	6	90	A5	IC10	TT
4.00-8	10	97	A5	IC10	TT
5.00-8	8	106	A5	IC10, IC40	TT
15x4 1/2 - 8	12	100	A5	IC36	TT
16x6-8	16	113	A5	IC12	TT
18x7-8	16	125	A5	IC12, IC40	TT
9" Rim					
6.00-9	12	121	A5	IC10, IC40	TT
21x8-9	14	131	A5	IC40	TT
21x8-9	16	134	A5	IC12	TT
10" Rim					
6.50-10	14	128	A5	IC10, IC40	TT
7.50-10	12	133	A5	IC10	TT
23x9-10	14	134	A5	IC12, IC30	TT
23x9-10	20	142	A5	IC12, IC40	TT
12" Rim					
7.00-12	14	134	A5	IC10, IC40	TT
7.00-12	16	136	A5	IC10, IC40	TT
27x10-12	14	143	A5	IC12, IC30, IC40	TT
27x10-12	20	152	A5	IC12, IC40	TT
13" Rim					
21x4	4	98	A5	IC10	TT
22x4 1/2	4	101	A5	IC10	TT
23x5	6	113	A5	IC10, IC40	TT
25x6	8	126	A5	IC10, IC40	TT
15" Rim					
7.00-15	12	138	A5	IC10	TT
7.50-15	14	144	A5	IC40	TT
7.50-15	16	146	A5	IC10	TT
8.25-15	18	153	A5	IC10, IC40	TT
28x9-15	14	146	A5	IC12, IC40	TT
200-15	12	139	A5	IC12	TT
250-15	18	153	A5	IC12, IC40	TT
300-15	22	165	A5	IC12, IC40	TT
355/65-15	24	170	A5	IC12, IC40	TL
20" Rim					
10.00-20	18	166	A5	IC40	TL
12.00-20	20	176	A5	IC40	TL



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