

**Continental**   
The Future in Motion



**Continental Earthmover Tires**

We move the earth



## Continental's Tire Portfolio for the Earthmoving Industry

Continental is a global leader in tire manufacturing. We design, develop, and produce a wide range of superior products for almost every form of mobility. From high-performance bicycles, to high-horsepower specialty mining equipment, we have a solution for almost every need.

But tires make up less than 30% of our business, because Continental is far more than an "ordinary" tire manufacturer. As a leading supplier of brake systems, instrumentation, vehicle electronics, and infotainment solutions, as well as systems and components for power trains and chassis, tires, and technical elastomers, Continental enhances driving safety and efficiency. In short, we see ourselves as the experts for driving performance.

This customer-focused approach is the driver behind Continental's production of cross-ply, radial, and solid tires. This enables us to offer tires that exactly match the needs and demands of our customers.

Continental's new Earthmoving tire range is specifically designed for application in the very harsh conditions of surface and underground mining as well as quarries and construction sites. Continental EM-Tires are made to meet the highest level of performance, safety, and durability for every application, even in the harshest of conditions. We're sure that you will find the perfect tire to meet your individual needs within this brochure.





**ContiEarth™**

Continental Construction Solutions









## ContiEarth™ EM-Master

ADTs, loaders, and dozers are used for transporting large quantities of bulk or aggregate material in extreme conditions ranging from soft and muddy soil to gravelly and rocky terrain in construction or mining sites. Durability, excellent traction, and superior resistance to rock cutting and heat generation are essential to operate in these extreme conditions.

Continental's EM-Master is customized for these specific demands. The tire is available in two versions with different tire tread designs. The EM-Master E3/L3 features a normal tread depth and wide spacing between the blocks. This results in excellent self-cleaning characteristics, good traction, and maneuverability even in muddy terrain. The Conti EM-Master E4/L4 provides a smaller spacing between the blocks offering smooth running on hard surfaces. The deep tread depth results in a high protection against cuts and object penetrations.

### ContiEarth™ EM-Master E3/L3

Article	Dimension	TRA	Type
1270517	20.5R25	E3/L3	TL
1270516	23.5R25	E3/L3	TL
1270515	26.5R25	E3/L3	TL
1270514	29.5R25	E3/L3	TL

### ContiEarth™ EM-Master E4/L4

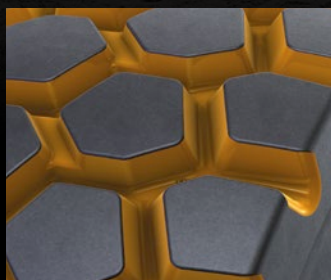
Article	Dimension	TRA	Type
1270508	23.5R25	E4/L4	TL
1270506	26.5R25	E4/L4	TL
1270468	29.5R25	E4/L4	TL

All EM-Master tires are equipped with sensors ex factory.





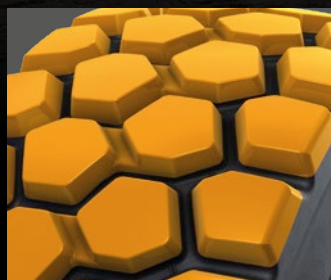
### ContiEarth™ EM-MasterE3/L3



#### Wide space between blocks

Outstanding self-  
cleaning abilities

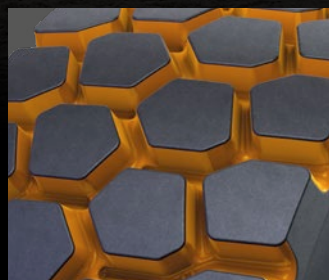
Low heat build-up



#### Five-edged block design

Many gripping edges for  
powerful traction on soft  
and muddy terrain

### ContiEarth™ EM-MasterE4/L4



#### Narrow space between blocks

High tread wear volume

More service life



#### Deep tread

High carcass protection  
against cuts and damage  
by foreign objects





## ContiEarth™ RDT-Master

Rigid dump trucks are built to haul heavy loads over long distances in rough terrain. In these severe applications tires have to offer high stability and good traction even at higher speeds. In addition, the tires need to be extremely resistant to cut and tear. The RDT-Master is the perfect fit for transporting extra-heavy loads in adverse condi-

tions. The special tread design with a deep tread depth and a wide and flat tread radius offers a high loading capacity, excellent wear picture and good self-cleaning characteristics. The angled edges and the open shoulder design allow high lateral stability leading to better driving behavior even in demanding cornering applications.

Continental RDT-Master is available in two different compound concepts:

### Cut resistant (CR)

The new compound is designed for operations in aggressive terrain where resistance to cut and chip are predominantly required. In operations with shorter load cycles and rated speeds this compound offers an excellent wear resistance for an extra long mileage.

### Standard (ST)

A well balanced intermediate compound which covers longer load cycles than its cut resistant counterpart while still offering a good abrasion resistance and thus overall operating hour performance.

Article	Dimension	TRA	Type	Compound
1270474	18.00R33	E4	TL	ST
1270475	21.00R33	E4	TL	ST
1270476	24.00R35	E4	TL	ST
1270481	18.00R33	E4	TL	CR
1270482	21.00R33	E4	TL	CR
1270483	24.00R35	E4	TL	CR

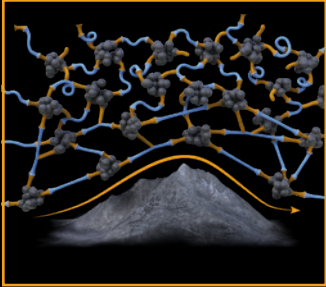
All RDT-Master tires are equipped with sensors ex factory.





**CUT RESISTANT**  
COMPOUND

**Now available**

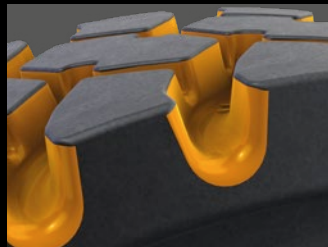


**Cut resistant compound**  
Polymer meshing system flexes over rough surface and obstacles keeping its structure after pressure release.  
Extraordinary resistance to surface stress.

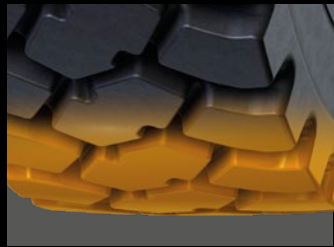
**General RDT-Master Features (ST and CR)**



**Deep tread**  
High carcass protection against cuts and damage by foreign objects



**Open shoulder design**  
Perfect self-cleaning abilities  
Enhanced traction



**Wide tread with flat radius**  
Maximum traction





**ContiMine™**

Continental Underground Mining Solutions







## Continental DumperMaster

designed and developed for Articulated Dump Trucks.



## Continental DumperMaster

Mine Trucks for underground mining and tunneling applications are mainly used for transporting ore to a conveyor belt or directly to the surface. Transport distances as well as the grades depend very much on the mine layout. To be most efficient in transporting ore, the machines with tramming capacities of 20 to 60 metric tons need tires with low heat build-up to travel longer distances at higher average speeds. Continental has developed a dedicated tire for underground Dump Trucks with a unique construction and pattern design. The All Steel Radial technology of the Continental DumperMaster with a carcass construction with ratings of up to four stars combines low heat build-up and extremely high load-carrying capacity, which means efficiency in hauling material within the mine.

Article	Dimension	TRA	Type	SR
1270453	26.5R25	E4	TL	4*
1270454	29.5R25	E4	TL	4*
1270455	35/65R33	E4	TL	4*

All DumperMaster tires are equipped with sensors ex factory.





**Tread lug design**

Closed center blocks for maximum protection against penetration of the crown

Wide footprint for long service life and comfortable ride

Chunky tread lugs for high stability



**Tread groove design**

High self-cleaning ability and good traction in muddy and loose ground conditions

Groove spacing for minimized stone trapping and reduced rock penetrations, tearing, or cutting



**All steel radial technology**

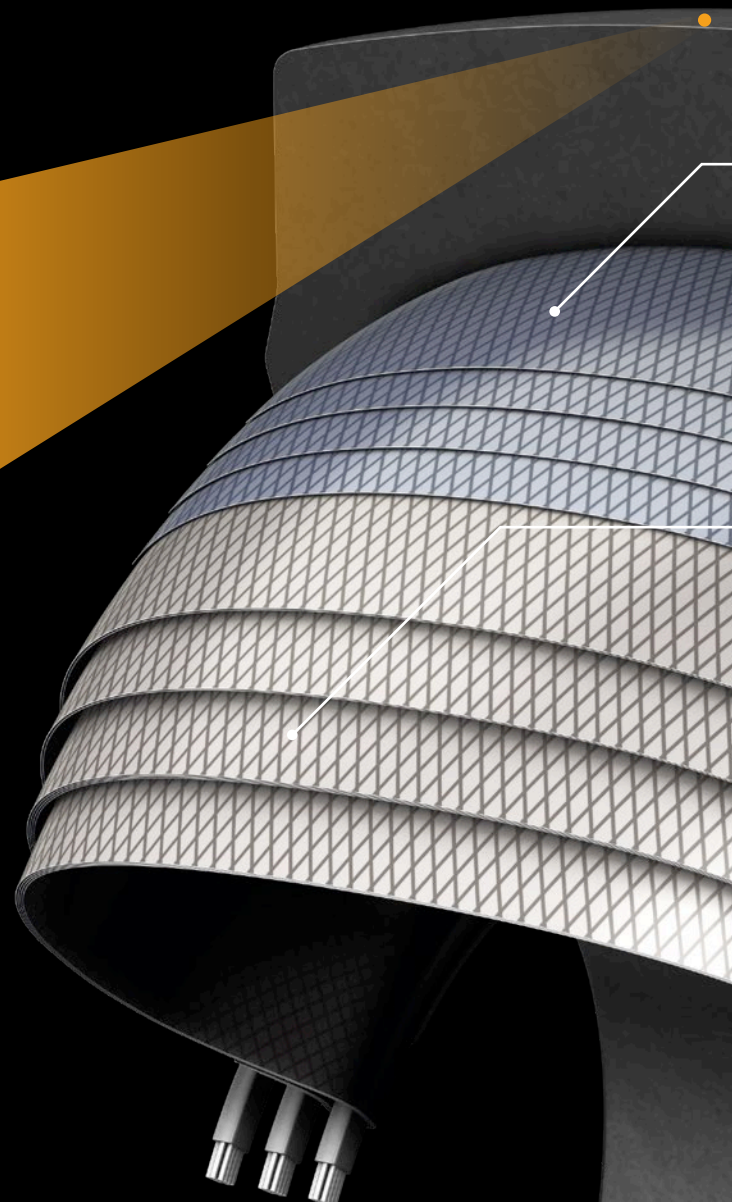
Carcass construction allows for high inflation pressure resulting in high load capacity

Wide bead construction for optimized rim fit and drive torque transmission



### ContiCutCompress Safety in every situation

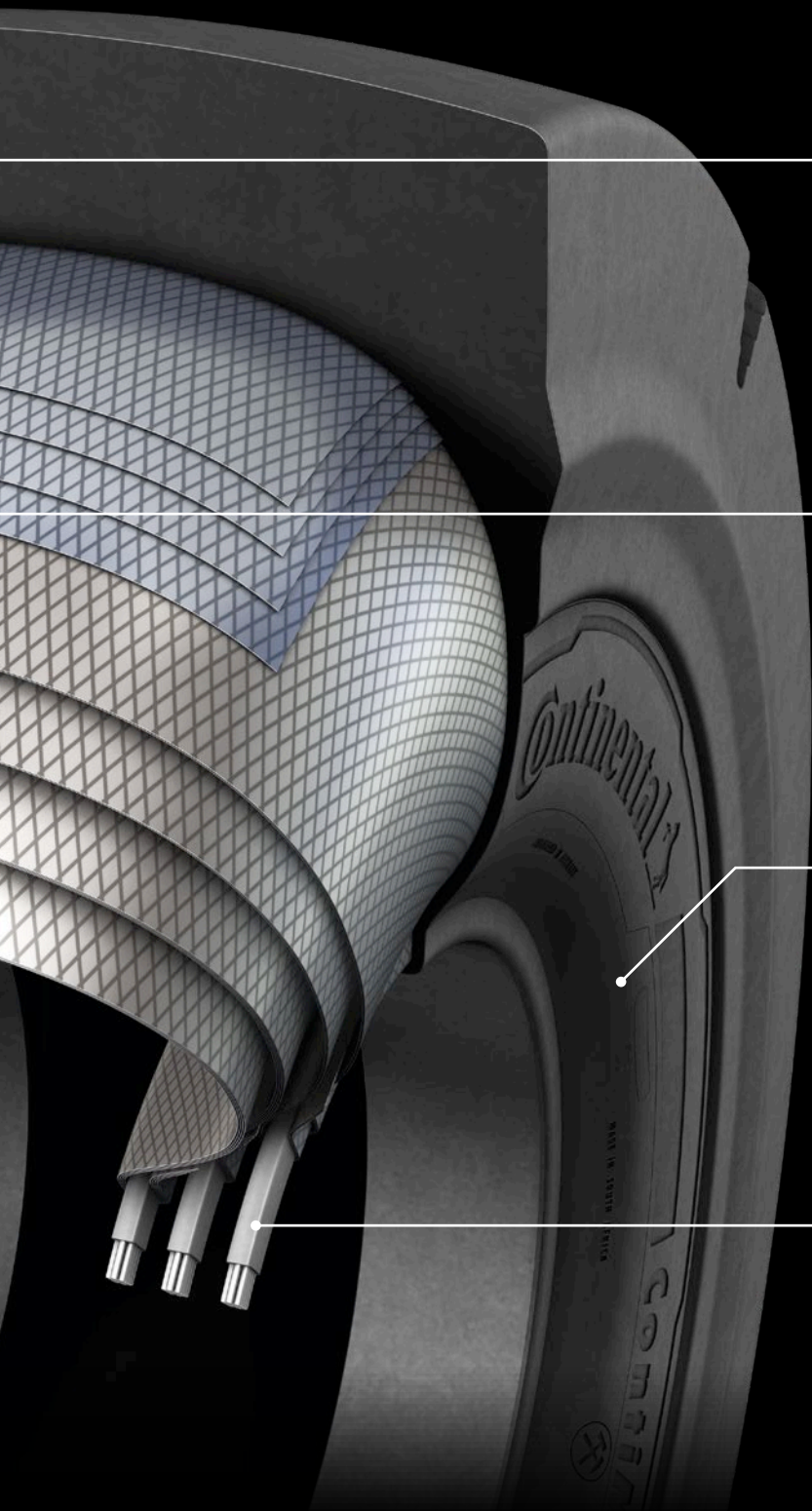
The V.ply technology is partly based on a sharper angle of the carcass layers compared to conventional x-ply tires. This sharper angle reduces the friction between the tire components, which means less heat build-up and therefore lower tire rolling resistance and lower fuel consumption of the machine. The sharper angle of the carcass layers also means that the tread rubber gets slightly compressed, which is a major advantage in rough applications like underground mines where freshly blasted rocks are a constant danger to tires. The tread cuts that these rocks generate are very hard to avoid but the growth of these cuts can be reduced by the compressed tread rubber. ContiCutCompress cannot eliminate the risk of tire damages but certainly reduces the growth of tread cuts and therefore improves the tire performance.



If you had to design the perfect tire, the goal would be something like this: “Unrivalled traction on wet and dry surfaces, in searing hot and freezing cold conditions. Zero wear, extreme stability, and a comfortably soft ride on any surface. And best of all – the costs would be next to nothing.”

Although this exaggerated scenario is still a long way off, Continental's V.ply technology is in fact a huge leap forward in the quest for the perfect tire. Our V.ply construction was inspired by racing tire technology and executed through the extensive use of 3-D modeling and the Continental Group's Research & Development know-how. It was also extensively field-tested in real-life conditions. V.ply technology combines the best of cross-ply technology and radial technology by integrating an innovative weaving pattern of multiple cords arranged at specially designed angles.





### The breaker layers

Up to four V.ply breaker layers not only provide additional rigidity to the tread area, but they also function as an excellent bonding element between the outer rubber tread and inner polymer structure.

### The V.ply pattern

Up to 20 layers of high-resistance polymer fiber are aligned in a specially angled V-pattern. This unique technology is inspired by racing tire design and means less inner movement for low rolling resistance.

### The strengthened sidewalls

The V.ply technology allows for the design of exceptionally strong sidewalls. They provide low deflection for high damping, excellent driving stability, and nearly unmatched protection against damage.

### The profiled inner bead

In contrast to beads with a single round wire, the V.ply design is based on up to three bead wire bundles. The result is a wide bead, which provides even load distribution and perfect rim fit.





## Continental ScoopMaster

Loaders or Scoops transport heavy loads of orebodies at low speeds over a relatively short distance to dump trucks or conveyor belts. They often face freshly blasted, sharp rocks in wet and abrasive conditions. Durability, traction, and even wear are the most important tire features.

Continental's ScoopMaster was developed to last in this extremely harsh underground mining environment. Premium quality tread and sidewall rubber compounds provide maximum resistance to rock cutting, penetrations, and tearing. The special V.ply construction in combination with the carcass rubber compound provides high carcass strength, excellent flex fatigue, and sidewall damage resistance.

Article	Dimension	TRA	Type	PR
1230067	12.00-20	L5S	TT	20
1230068	12.00-24	L5S	TT	20
1230069	14.00-24	L5S	TT	20
1270459	17.5-25	L5S	TL	20
1270460	18.00-25	L5S	TL	32
1270443	20.5-25	L5S	TL	24
1270445	23.5-25	L5S	TL	32
1270458	26.5-25	L5S	TL	36
1270444	29.5-25	L5S	TL	40
1270456	29.5-29	L5S	TL	40
1270457	35/65-33	L5S	TL	48





**Smooth extra deep tread design**

Maximum casing protection against punctures and impacts

Wide contact area for reduced slippage, good traction, and even wear

High wear volume for optimum mileage performance

**Sidewall protection rib**

Additional cut-resistant rubber rib to protect casing in sidewall area where sharp rocks can damage the tire

Cut-resistant rubber compound for sidewall protection

**Tread wear indicator (TWI)**

Designed for easy and fast tread depth measurement

TWI shape prevents stone catching and carcass penetration



designed and developed for Drill Rigs, Scaling Rigs, and Bolting Drill Rigs.



## Continental DrillMaster

Specialized machines like Drill Rigs, Scalars, or Bolters are required for blast hole drilling in order to prepare for detonation, removal of loose rock after blasting, or the installation of rock bolts to support the roof. To drill blast holes as economically as possible, Drill Rigs cover rock cross sections of a hundred square meters and more. Therefore, the Drills use up to four booms, which result in very high tire loads when moving. High cutting resistance, good traction, and stability are essential for tires used in these applications.

The Continental DrillMaster with its V.ply construction is the perfect choice: a highly cut-resistant rubber compound protects the carcass during operation in freshly blasted rocks. The tire carcass is designed to stand heavy loads. The innovative zigzag tire tread design offers the maximum amount of gripping edges in all directions to manage steep inclination and declination with tight cornering safely.

Article	Dimension	TRA	Type	PR
1230062	8.25-15	L4	TT	24
1230059	10.00-15	L4	TT	24
1230064	9.00-20	L4	TT	20
1270447	12.00-20	L4	TL	28
1270449	12.00-24	L4	TL	28
1230066	14.00-24	L4	TT	30
1270451	16.00-25	L4	TL	34





**Tread lug design**

Zigzag design with multiple edges for maximum traction in circumferential and lateral direction

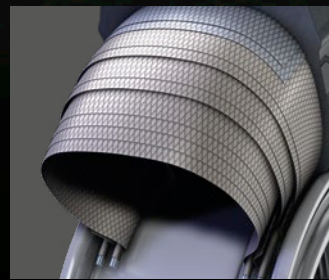
Connected tread block for increased stability especially during tight downhill cornering



**Tread groove design**

Round shaped tread groove to reduce stone trapping

Extensive siping ratio of tread for high amount of gripping edges



**V.ply construction**

High load capability due to carcass construction

Low heat build-up when driving long distances





## Continental UndergroundMaster

Shuttle Cars, Scoops, and Face Haulers are mainly used in soft rock applications like coal mines for mineral extraction and transport. The loose underfoot conditions require tires with outstanding traction to move material as efficiently as possible. The travel distance can be quite long, which increases the temperature in the tire. Outstanding durability, traction, and mileage are must-haves for tires used in room-and-pillar applications.

The Continental UndergroundMaster with V.ply technology offers an extremely high carcass strength. The tread lug design guarantees a great performance and a good grip. Its reverse outer block direction improves lateral stability and driving accuracy, ensuring safe cornering even on loose soil. An optimized tread width reduces tread block damages in room-and-pillar applications. Multiple tread edges offer maximum traction in turning maneuvers in all directions.

Article	Dimension	TRA	Type	PR
1270470	32x15-15	L3	TL	28
1270469	35x15-15	L3	TL	32
1270466	38x16-15	L3	TL	32
1270467	14.00-20	L3	TL	32
1270471	44x18-20	L3	TL	36
1270472	50x20-20	L3	TL	36
1270473	17.5-25	L3	TL	24





**Tread lug design**

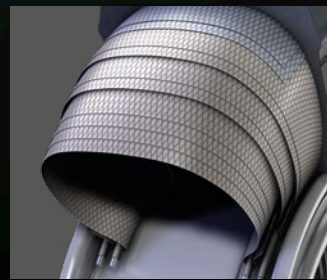
Reverse block direction for reduced lateral drifting when cornering

Multiple tread edges for maximum traction in circumferential and lateral direction



**Tread width**

Reduced block damage due to optimized tread width especially when cornering in room-and-pillar applications

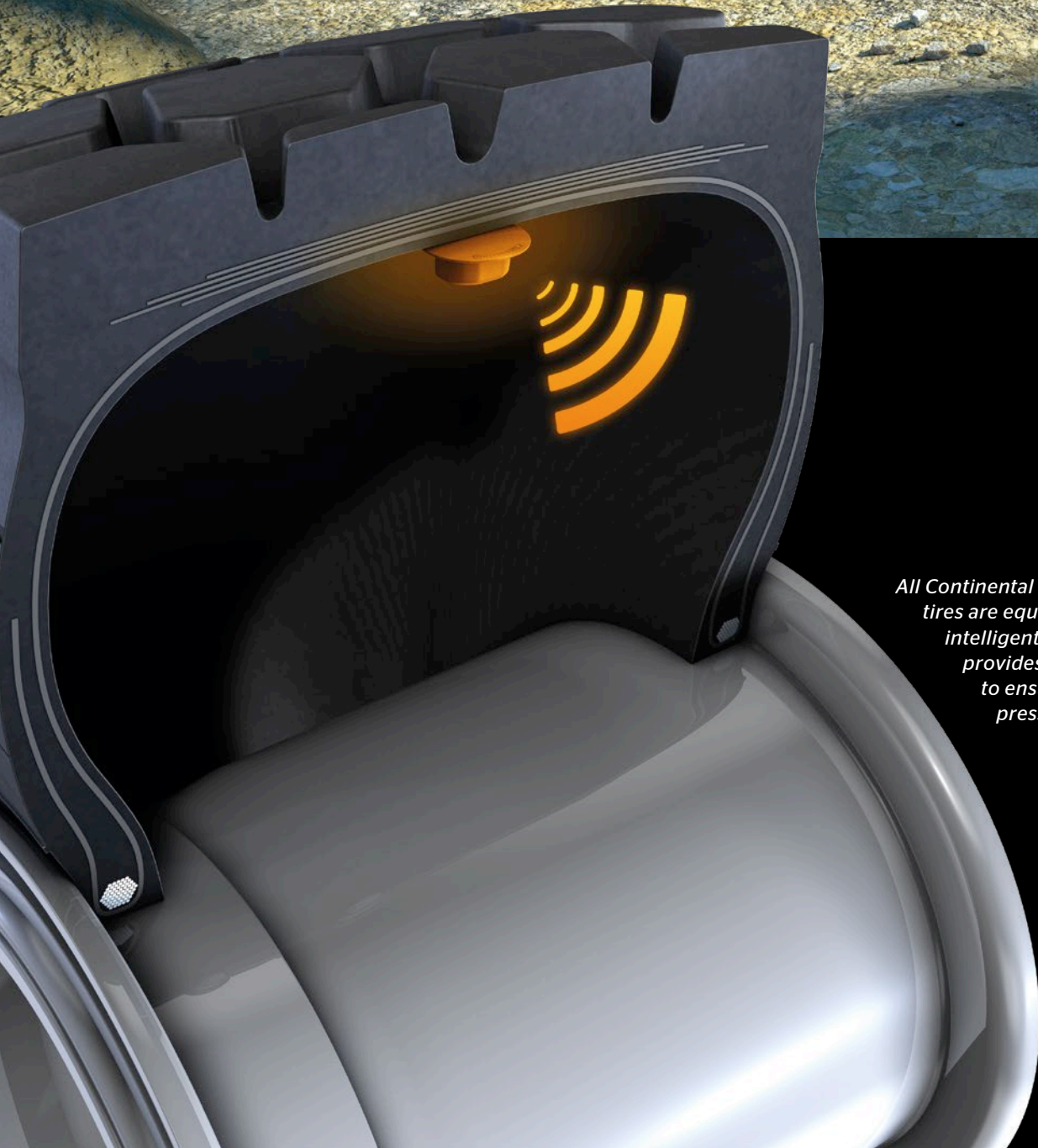


**V.ply construction**

High load capability due to carcass construction

Low heat build-up when driving long distances





*All Continental radial earthmoving tires are equipped with an intelligent tire sensor that provides data in real time to ensure optimal tire pressure and temperature*





## Intelligent Earthmoving

### Benefits of digital tire monitoring

When transporting heavy loads on rough terrain, the tires of the vehicles are permanently under pressure, day in and day out. Driving with underinflated or overheated tires will lead to an increased fuel consumption and can cause premature tire failures - a serious concern for the vehicle safety in your daily operations. As a mandatory consequence the inflation pressure and temperature should be monitored constantly. All Continental radial earthmoving tires are therefore equipped with our premounted sensors. These sensors transmit data in real time to our stand alone or complete fleet monitoring solutions of your choice. Time consuming, manual tire checks become redundant.

#### Your benefits



Data accuracy



Improved productivity



Cost efficiency



Versatility



Safety



Reliability



Eco-friendly



Transparency





## ContiPressureCheck™

### Single Vehicle Monitoring

The ContiPressureCheck™ system provides an effective solution. A sensor inside the tire is constantly measuring air pressure and temperature, to ensure driver safety and tire quality. ContiPressureCheck™ is a complete, driver focused system for single vehicles and can be integrated into third party telematics.

**ContiPressureCheck™ light** is the ideal entry level solution for single vehicles by monitoring tire pressure and temperature via the hand-held tool.

**ContiPressureCheck™ Single** is the perfect solution for single vehicles by monitoring tire pressure and temperature via a built-in display that allows the driver to have a continuous view on the tire data.



**ContiPressureCheck™ Integrated** allows OEMs and telematic providers to offer end users an easy solution for monitoring tire pressure and temperature which will be integrated into their on-board (telematics) system.





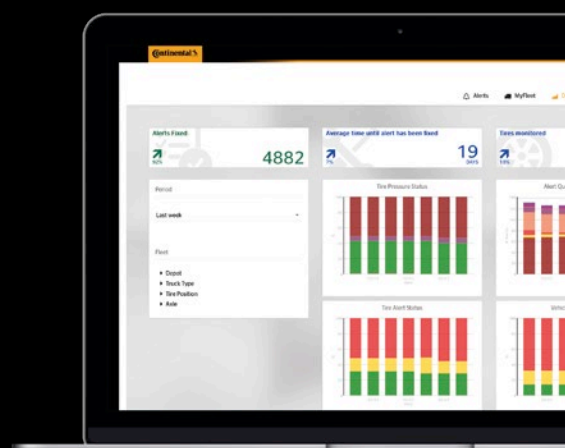
## ContiConnect™

### Multiple Vehicle Solution

ContiConnect™ takes digital tire monitoring to the next level. The solution conveniently connects multiple vehicles and helps fleet managers switch from inflexible manual service routines to targeted in-time maintenance. Tire issues are immediately identified upon return to the fleet yard or in real-time with any telemetry provider.

**ContiConnect™ Light** is the ideal entry solution for monitoring the tire pressure of multiple vehicles via the hand-held tool and provides the possibility to manually upload the data to the ContiConnect™ web portal.

**ContiConnect™ Yard** is the solution for multiple vehicles, that return regularly to dedicated checkpoints, by monitoring tire pressure and temperature remotely. The data is automatically uploaded to the ContiConnect™ web portal.



**ContiConnect™ Live** is the optimal solution for remotely monitoring the tire pressure and temperature of multiple vehicles regardless of their location. The data is automatically uploaded to the ContiConnect™ web portal.



# Technical Data

## ContiEarth™

### EM-Master E3/L3

Article no.	Tire size	TRA code	Type	Transport		Loader		Rim	Overall diam. mm (inch)	Overall width mm (inch)	Tread depth mm (32")	Available*
				SR/PR	LI/SS	SR/PR	LI/SS					
1270517	20.5R25	E3/L3	TL	2*	177B	1*	186A2	25x17.00/2.0 & 1.7	1485 (58.5)	512 (20.2)	37 (46/32)	available
1270516	23.5R25	E3/L3	TL	2*	185B	1*	195A2	25x19.50/2.5	1605 (63.2)	605 (23.8)	39 (49/32)	available
1270515	26.5R25	E3/L3	TL	2*	193B	2*	202A2	25x22.00/3.0	1740 (68.5)	703 (27.7)	41 (52/32)	available
1270514	29.5R25	E3/L3	TL	2*	200B	2*	216A2	25x25.00/3.5	1843 (72.6)	759 (29.9)	46 (58/32)	available

### EM-Master E4/L4

Article no.	Tire size	TRA code	Type	Transport		Loader		Rim	Overall diam. mm (inch)	Overall width mm (inch)	Tread depth mm (32")	Available*
				SR/PR	LI/SS	SR/PR	LI/SS					
1270508	23.5R25	E4/L4	TL	2*	185B	1*	195A2	25x19.50/2.5	1609 (63.3)	603 (23.7)	48 (60/32)	available
1270506	26.5R25	E4/L4	TL	2*	193B	2*	202A2	25x22.00/3.0	1739 (68.5)	697 (27.4)	52 (66/32)	available
1270468	29.5R25	E4/L4	TL	2*	200B	2*	216A2	25x25.00/3.5	1850 (72.8)	760 (29.9)	59 (74/32)	available

### RDT-Master

Article no.	Tire size	TRA code	Type	Transport		Loader		Rim	Overall diam. mm (inch)	Overall width mm (inch)	Tread depth mm (32")	Available*
				SR/PR	LI/SS	SR/PR	LI/SS					
1270474	18.00R33 ST	E4	TL	2*	191B	-	-	33x13.00/2.5	1873 (73.7)	518 (20.4)	54 (68/32)	available
1270475	21.00R33 ST	E4	TL	2*	200B	-	-	33x15.00/3.0	2000 (78.7)	603 (23.7)	58 (73/32)	available
1270476	24.00R35 ST	E4	TL	2*	209B	-	-	35x17.00/3.5	2180 (85.8)	670 (26.4)	70 (88/32)	available
1270481	18.00R33 CR	E4	TL	2*	191B	-	-	33x13.00/2.5	1873 (73.7)	518 (20.4)	54 (68/32)	available
1270482	21.00R33 CR	E4	TL	2*	200B	-	-	33x15.00/3.0	2000 (78.7)	603 (23.7)	58 (73/32)	available
1270483	24.00R35 CR	E4	TL	2*	209B	-	-	35x17.00/3.5	2180 (85.8)	670 (26.4)	70 (88/32)	available

All radial tires, EM-Master, RDT-Master and DumperMaster are delivered with sensors ex factory

SR: Star Rating for Radial Tires  
 PR: Ply Rating for x-ply tires  
 LI: Load Index  
 SS: Speed Symbol

Specifications are subject to change without notice  
 For further technical information, see data sheets

\* For details regarding product availability, please contact your local sales representative.



# Technical Data

## ContiMine™

### ScoopMaster

Article no.	Tire size	TRA code	Type	Transport		Loader		Rim	Overall diam. mm (inch)	Overall width mm (inch)	Tread depth mm (32")	Available*
				SR/PR	LI/SS	SR/PR	LI/SS					
1230067	12.00-20	L5S	TT	-	-	20	145A2	8.50V/1.3	1130 (44.5)	309 (12.2)	60 (75/32)	available
1230068	12.00-24	L5S	TT	-	-	20	175A2	8.50V/1.3	1269 (50.0)	321 (12.6)	57 (72/32)	available
1230069	14.00-24	L5S	TT	-	-	20	182A2	10.00W/1.5	1351 (53.2)	373 (14.7)	72 (92/32)	available
1270459	17.5-25	L5S	TL	-	-	20	182A2	14.00/1.5	1362 (53.6)	446 (17.6)	69 (87/32)	available
1270460	18.00-25	L5S	TL	-	-	32	202A2	13.00/2.5	1632 (64.3)	509 (20.1)	88 (111/32)	available
1270443	20.5-25	L5S	TL	-	-	24	190A2	17.00/2.0	1573 (61.9)	489 (19.25)	79 (100/32)	available
1270445	23.5-25	L5S	TL	-	-	32	201A2	19.50/2.5	1631 (64.2)	593 (23.3)	88 (111/32)	available
1270518	26.5-25	L5S	TL	-	-	36	209A2	22.00/3.0	1789 (70.4)	706 (27.8)	95 (119/32)	in preparation
1270444	29.5-25	L5S	TL	-	-	40	216A2	25.00/3.5	1905 (75)	751 (29.6)	100 (126/32)	in preparation
1270456	29.5-29	L5S	TL	-	-	40	218A2	25.00/3.5	1983 (78.1)	749 (29.5)	112 (141/32)	in preparation
1270457	35/65-33	L5S	TL	-	-	48	224A2	28.00/3.5	2020 (79.5)	831 (32.7)	100 (126/32)	in preparation

### DrillMaster

Article no.	Tire size	TRA code	Type	Other		Rim	Overall diam. mm (inch)	Overall width mm (inch)	Tread depth mm (32")	Available*
				SR/PR	LI/SS					
1230062	8.25-15	L4	TT	24	162A2	6.50-15/1.4	844 (33.2)	239 (9.4)	25 (32/32)	available
1230059	10.00-15	L4	TT	24	167A2	15x7.5	902 (35.5)	279 (11)	25 (32/32)	available
1230064	9.00-20	L4	TT	20	169A2	20x7.0	996 (39.2)	258 (10.2)	25 (32/32)	available
1270447	12.00-20	L4	TL	28	185A2	20x8.5	1124 (44.3)	318 (12.5)	27 (29/32)	available
1270449	12.00-24	L4	TL	28	187A2	8.50-24/1.3	1232 (48.5)	322 (12.7)	29 (37/32)	available
1230066	14.00-24	L4	TT	30	195A2	24x10.00	1343 (52.9)	386 (15.2)	31 (39/32)	available
1270451	16.00-25	L4	TL	34	203A2	11.25-25/2.0	1489 (58.6)	436 (17.2)	35 (44/32)	available

### UndergroundMaster

Article no.	Tire size	TRA code	Type	Other		Rim	Overall diam. mm (inch)	Overall width mm (inch)	Tread depth mm (32")	Available*
				SR/PR	LI/SS					
1270470	32x15-15	L3	TL	28	163A2	11.50	829 (32.6)	306 (12)	24 (30/32)	in preparation
1270469	35x15-15	L3	TL	32	167A2	10.50	896 (35.3)	337 (13.3)	24 (30/32)	in preparation
1270466	38x16-15	L3	TL	32	179A2	11.50	976 (38.4)	350 (13.8)	24 (30/32)	available
1270467	14.00-20	L3	TL	32	185A2	10.00	1220 (48)	376 (14.8)	29 (36/32)	available
1270471	44x18-20	L3	TL	36	182A2	15.00	1141 (44.9)	443 (17.5)	31 (39/32)	available
1270472	50x20-20	L3	TL	36	195A2	15.00	1234 (48.6)	521 (20.5)	29 (36/32)	in preparation
1270473	17.5-25	L3	TL	24	184A2	14.00-1.5	1358 (53.5)	450 (17.7)	26 (33/32)	available

### DumperMaster

Article no.	Tire size	TRA code	Type	Transport		Loader		Rim	Overall diam. mm (inch)	Overall width mm (inch)	Tread depth mm (32")	Available*
				SR/PR	LI/SS	SR/PR	LI/SS					
1270453	26.5R25	E4	TL	4*	210A8	-	-	22.00/3.0	1769 (69.7)	690 (27.2)	57 (72/32)	available
1270454	29.5R25	E4	TL	4*	217A8	-	-	25.00/3.5	1870 (73.6)	774 (30.5)	59 (74/32)	available
1270455	35/65R33	E4	TL	4*	225A8	-	-	28.00/3.5	2026 (79.8)	907 (35.7)	64 (81/32)	available



**Continental Reifen Deutschland GmbH**

Commercial Specialty Tires

Büttnerstraße 25, 30165 Hanover, Germany

T. +49 511 938-01

mail\_service@conti.de

www.continental-specialty-tires.com

