



MINING PRODUCTS



> **LDR150**

Solid centerline tread pattern provides a stable, smooth ride and additional resistance to rock-type damage

> MINING TIRES AND WHEELS

OEM CENTERED SOLUTIONS

Original equipment manufacturers (OEMs) for the mining industry regularly improve their designs, making equipment larger and more productive for the harsh conditions of a mine. We work with OEMs to produce high-quality wheels that complement nearly any piece of mining equipment – including loaders and haul trucks. We're also the only global manufacturer of both wheels and tires, which means we can offer a complete wheel assembly for your equipment designs.

HEAVY DUTY ENGINEERING

Mining equipment – including loaders and haul trucks – require some of the strongest wheels in the world. They need to support the equipment and several tons of valuable resources at the same time. Unforgiving terrain commonly found on haul roads and the floor of the mine adds to the need for quality wheels. Our engineers address these challenges by incorporating heavy-duty steel into our wheel products to maximize durability and equipment performance.

KEEPING YOU MOVING

There's no time for downtime when material tonnage is your income. That's why keeping your equipment moving is your goal and ours. For example, you can minimize wear and increase equipment performance by utilizing one of our proprietary tread compounds or tread pattern options to match your mining conditions.

THERE IS MORE THAN MEETS THE EYE WHEN IT COMES TO MANUFACTURING WHEELS AND TIRES.

No wheel works without the tire - the two are a total system. Titan International Inc. is one of the only companies with the ability to design, test and produce both wheels and tires. Titan is one of North America's largest manufacturers of off-highway tires and one of the world's largest manufacturers of off-highway wheels.



007 MFT (E-4) OR (E-4+)

- Large contact area provides damage resistance
- Self-cleaning grooves provide excellent traction
- Tie-bars provide excellent traction



Size	Compound / Construction	Tread Design	Catalog #	Industry Code	Load Rating	Outside Diameter (in.)	Overall Width (in.)
27.00R49	H2	A	MH22R9	E-4	2*	106.7	28.6
33.00R51	H2	A	MH22R3	E-4	2*	120.5	35.2
37.00R57	H2	A	MH2237	E-4+	2*	135.8	39.6
40.00R57	H2	A	MH2240	E-4	2*	142.1	43.1
46/90R57	H2	A	MH2276	E-4	2*	142.1	46.0
50/80R57	H4	B	MH4270	E-4	2*	142.5	48.2

LDR 250 (L-5)

- Extra deep tread provides excellent rock-type damage resistance and long tread life
- Open non-directional tread pattern provides all-around traction with excellent self-cleaning
- Steel belted construction to provide increased cut resistance and extended wear
- Tread C - Aggressive tread pattern and siping provides excellent traction on all surfaces and conditions especially snow, ice and mud



Size	Compound / Construction	Tread Design	Catalog #	Industry Code	Load Rating	Outside Diameter (in.)	Overall Width (in.)
29.5R29	WV	C	LWV2U2	L-5	2*	77.1	29.8
35/65R33	WE	A	LFT26K	L-5	2*	81.6	33.1
45/65R45	WE	A	LFT26P	L-5	2*	107.7	43.1
50/65R51	WE	B	LFT2G6	L-5	2*	120.0	50.0

LDR 150 (L-4)

- Non-directional deep tread depth provides extended tread life and excellent cut resistance
- Solid centerline tread pattern provides a stable, smooth ride and additional resistance to rock-type damage



Size	Compound / Construction	Catalog #	Industry Code	Load Rating	Outside Diameter (in.)	Overall Width (in.)
58/80R63	WE	LF4258	L-4	2*	152.0	54.9

DTH4 (E-4)

- Deep tread depth for long tread life
- Solid center and large contact area provide damage resistance
- Self-cleaning grooves provide excellent traction



Size	Compound / Construction	Catalog #	Industry Code	Load Rating	Outside Diameter (in.)	Overall Width (in.)
24.00R35	HE	EHH2R7	E-4	2*	85.8	26.7

STANDARD 5-PIECE RIM/WHEEL (W & EHD)

- Continuous Pry Bar Slot: incorporated into rim components to ease tire removal
- Machined Components: critical component surfaces 100% mismatched fitting it in place
- Full Tire Bead Support: designed for brands of tires
- Shot Peen: critical surface components shot peened
- Sur-Loc: prevents inflation of tire if lock ring is misassembled, mismatched, or distorted



Vehicle	Part #	Description
Cat 773-775*	9013995	35x17.00/3.5 Wheel RWHGX-14 Hole
Komatsu 465-7*	5067895	35x17.00/3.5 Wheel RWHGXT-14 Hole
Komatsu 465-5*	1735RWHGXD96	1735RWHGXD-demountable rim 35x17.00/3.5
Terex/Hitachi*	1735RWHGXD96	1735RWHGXD-demountable rim 35x17.00/3.5
Cat 777 B/C/D*	9010395	49x19.50/4.0 Wheel RWEG-20 Hole
Komatsu 785-5*	1949RWHGD95	1949RWHGD-demountable rim 49x19.50/4.0
Komatsu 785-7*	50504A96	49x19.50/4.0 Whl RWEG1X-20 Hole
Terex/Hitachi*	1949MRWEGUSD95	1949MRWEGUSD-demountable rim 49x19.50/4.0
Komatsu 1500-5	2451EHDXTD95	2451EHDXTD-demountable rim 51x24.00/5.0
Cat 785	4036495	51x24.00/5.0 Wheel-45 Hole
Caterpillar 789B	4043995	57x27.00/6.0 Wheel-53 Hole
Komatsu 730E	2757EHDXTD95	2757EHDXTD-demountable rim 57x27.00/6.0
Caterpillar 793	9036997	57x29.00/6.0 wheel-70 Hole
Caterpillar 789	9031595	57x29.00/6.0 wheel-53 Hole
Komatsu 830E	2957EHD1XTD97	2957EHD1XTD-demountable rim 57x29.00/6.0
Komatsu 860E	5072795	57x34.00/6.0 Wheel-71 Hole
Komatsu 930E-4	5053596	63x36/5.0 Wheel-57 Hole
Komatsu 960E	5057396	63x41.00/6.0 Wheel-57 Hole
Liebherr T282	5055696	63x41.00/5.0 Wheel-58 Hole
Caterpillar 797	5055596	63x44/5.0 Wheel-54 Hole

* Product in W style does not have the Sur-Loc feature

“ They (ACT Wheels) have been well worth the money spent and are producing income for us now. ”

– FREDDY HUNT, GENERAL MANAGER, MS&R EQUIPMENT, CEDAR LAKE MINE

ACT RIM/WHEEL

- Save on downtime, money, and inventory
- Innovative Accelerated Change Technology (ACT) lets you change the an inner dual without removing the outer wheel
- Maneuver the inner tire over both the outer and inner wheel before fitting it in place
- Eliminate the requirement to torque, re-torque, and use of hand tools and extra hardware



Vehicle	Part #	Description
Cat 773-775	5063096	35x17.00/3.5 Wheel RWH2GX-14 Hole
Komatsu 465-7	5063195	35x17.00/3.5 Wheel RWH2GXT-14 Hole
Komatsu 465-5	1735RWH2GXD96	1735RWHGXD-demountable rim 35x17.00/3.5
Terex/Hitachi	1735RWH2GXD96	1735RWHGXD-demountable rim 35x17.00/3.5
Cat 777 B/C/D	5062796	49x19.50/4.0 Wheel RWEG-20 Hole
Komatsu 785-5	1949RWH2GD96	1949RWH2GD-demountable rim 49x19.50/4.0
Komatsu 785-7	5062995	49x19.50/4.0 Whl RWEG1X-20 Hole
Terex/Hitachi	1949MRWE2GUSD96	1949MRWE2GUSD-demountable rim 49x19.50/4.0
Komatsu 1500-5	2451G2EHDXTD95	51x24.00/5.0
Cat 785	5060496	51x24.00/5.0 Wheel-57 Hole
Caterpillar 789B	5066395	57x27.00/6.0 Wheel-57 Hole
Komatsu 730E	2757G2EHDXTD95	2757G2EHDXTD-demountable rim 57x27.00/6.0
Caterpillar 793	5058495	57x29.00/6.0 wheel-72 Hole
Caterpillar 789	5058995	57x29.00/6.0 wheel-57 Hole
Komatsu 830E	5060295	2957G2EHD1XTD-demountable rim 57x29.00/6.0
Komatsu 860E	5073295	57x34.00/6.0 Wheel-52 Hole
Komatsu 930E-4	5062596	63x36/5.0 Wheel-54 Hole
Komatsu 960E	5059096*	63x41.00/6.0 Wheel-57 Hole
Liebherr T282	5059596	63x41.00/5.0 Wheel-60 Hole
Caterpillar 797	5059696*	63x44/5.0 Wheel-54 Hole



TITAN OFFERS COMPLETE TIRE, WHEEL, AND TRACK SERVICES TO END USERS NEAR LARGE MINES.

Services provided by Titan International, Inc. include:

- Technical support for tires, wheels, and track components
- Provide application specific product recommendations
- Determining the best suited tires for specific applications
- Recommending compounds and tires to use based on site Job Ton Mile per Hour values (TMPH)
- Servicing Titan products on-site
- Conduct site evaluations, tire/wheel tracking, and VBOX analysis to determine Job TMPH

TIRE/WHEEL TRACKING

An excellent management tool that tracks:

- Cost per hour
- Tire Inventory
- Running hours by unit, tire brand, or tire size
- Repaired tire costs
- Total tire cost
- Tires for warranty
- Scrap tire analysis

VBOX ANALYSIS

- Measure vehicle speed, distance, cycle times and acceleration via GPS
- Analyze haul road grades and cornering
- Plot route on Google Earth
- Obtain Job TMPH
- Analyze lateral acceleration to find problem spots on haul roads



INSTALLATION GUIDE - TITAN ULTRA CLASS RADIAL

RADIAL TIRE COMPOUND/ CONSTRUCTION DESIGNATIONS

Compound Description	Codes			
	Titan	Bridgestone	Goodyear	Michelin
Heat Resistant	S	3	2	C
	H			C4
Wear Resistant (Standard)	W	1	4	B
				B4
Cut Resistant	C	2	6	A
				A4

Construction Description	Titan Code
Siped Tread	D,E,G,R,V
Sipeless Tread	2, 4, 5, 7

WHEEL COMPONENT RECOMMENDATIONS

Tire Size	Wheel Size	Titan P-min.	T&RA P-min.
35/65R33	33x28.00 / 3.5	6.0" Back Flange 5.60" Beadseat	5.50"
45/65R45	45x36.00 / 4.5	6.0" Back Flange 5.60" Beadseat	5.50"
27.00R49	49x19.50 / 4.0	6.0" Back Flange 5.60" Beadseat	5.50"
33.00R51	51x24.00 / 5.0	7.50" Back Flange 7.50" Beadseat	7.50"
50/65R51	51x40.00 / 4.5	7.50" Back Flange 7.50" Beadseat	7.50"
37.00R57	57x27.00 / 6.0 57x29.00 / 6.0	7.50" Back Flange 7.50" Back Flange	7.50"
40.00R57	57x29.00 / 6.0 57x32.00 / 6.0	7.50" Back Flange 7.50" Back Flange	7.50"
46/90R57	57x32.00 / 6.0	7.50" Back Flange 7.50" Back Flange	7.50"
50/80R57	57x32.00 / 6.0 57x34.00 / 6.0	7.50" Back Flange 7.50" Back Flange	7.50"
53/80R63	63x36.00 / 5.0 63x38.00 / 5.0	8.90" Back Flange 7.80" Beadseat	7.50"
56/80R63	63x41.00 / 5.0	8.90" Back Flange 7.80" Beadseat	7.50"
58/80R63	63x47.00 / 5.0	8.90" Back Flange 7.80" Beadseat	7.50"
59/80R63	63x44.00 / 5.0	8.90" Back Flange 7.80" Beadseat	7.50"

TITAN COLD INFLATION PRESSURE RECOMENDATIONS WITH AMBIENT TEMPERATURE ADJUSTMENTS

Refer to the Load and Inflation Tables section in the Titan OTR Data-book or contact Titan Technical Services for cold inflation pressures specific to your equipment. (105 psi and 110 psi examples shown below.)

Ambient Temperature		Titan Adjusted Cold Inflation Pressure (PSI)	
°F	°C	Initial Inflation	Cold Inflation
66-75	19-23	109	105
76-85	24-29	112	108
86-95	30-35	115	110
96-105	36-41	117	112
106-115	42-46	119	114

Ambient Temperature		Titan Adjusted Cold Inflation Pressure (PSI)	
°F	°C	Initial Inflation	Cold Inflation
66-75	19-23	114	110
76-85	24-29	118	113
86-95	30-35	120	116
96-105	36-41	122	118
106-115	42-46	125	120

Definitions:

Basic Cold Inflation Pressure: Recommended tire pressure at room temperature in normal operating conditions with standard equipment

Adjusted Initial Inflation Pressure: Tire pressure required after tire has been properly seated/ mounted to a rim and prior to use. Due to the elongation properties of the nylon casing, the tire's cavity volume will adjust within 24hrs of use to the proper Adjusted Cold Inflation Pressure

Adjusted Cold Inflation Pressure: Recommended tire pressure with respect to ambient temperature in normal operating conditions with standard equipment

Notes:

- For different applications or modified equipment, please contact a Titan Field Service Representative for a specific recommendation
- When operating in ambient temperatures below 32°F (0°C) please contact a Titan Field Service Representative for assistance
- Tire damage or failure caused by improper load, ply/star rating, speed or inflation practices is not covered by the Titan Tire Warranty Policy.

Details of the Warranty Policy can be found at www.titan-intl.com

> **FOR EVERY APPLICATION, TITAN KEEPS YOU MOVING.**



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TITAN MOVES THE WORLD®

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