

# MINING

PRODUCTS AND SERVICES



TITAN MOVES THE WORLD™

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## ABOUT TITAN INTERNATIONAL

Titan International Inc. (TWI) is a publicly traded company on the New York Stock Exchange. Headquartered in the heartland of the U.S. in Quincy, Illinois, Titan has grown to become a top global manufacturer of specialty tires, wheels and tracks. Titan moves the world with locations in North and South America, as well as Europe, Africa and Australia. It is the only company that manufactures off-the-road wheels, tires and tracks through its subsidiaries, Titan Wheel Corporation, Titan Tire Corporation and Ital Tractor Modena (ITM).

Titan Wheel has a heritage of over 100 years in the off-highway wheel manufacturing business and is the world's largest manufacturer of off-highway wheels. Titan produces a wide range of wheels — more than 50,000 sizes and types — and has complete research and development test facilities to validate wheel and rim designs.

In 1993, Titan entered the tire market and is now number one in farm tires worldwide. Titan Tire Corporation manufactures two distinct brands — Titan and Goodyear Farm Tires — known for their quality craftsmanship, unique tread designs and durability, while offering sizes from 6 to 72.5 inches in diameter.

Through its undercarriage division, ITM, Titan is also a leading specialist designer and builder of complete undercarriage solutions for OEMs. ITM products are also available all over the world for aftermarket, via a network of the industry's top dealers and distributors.

## MINING SERVICES

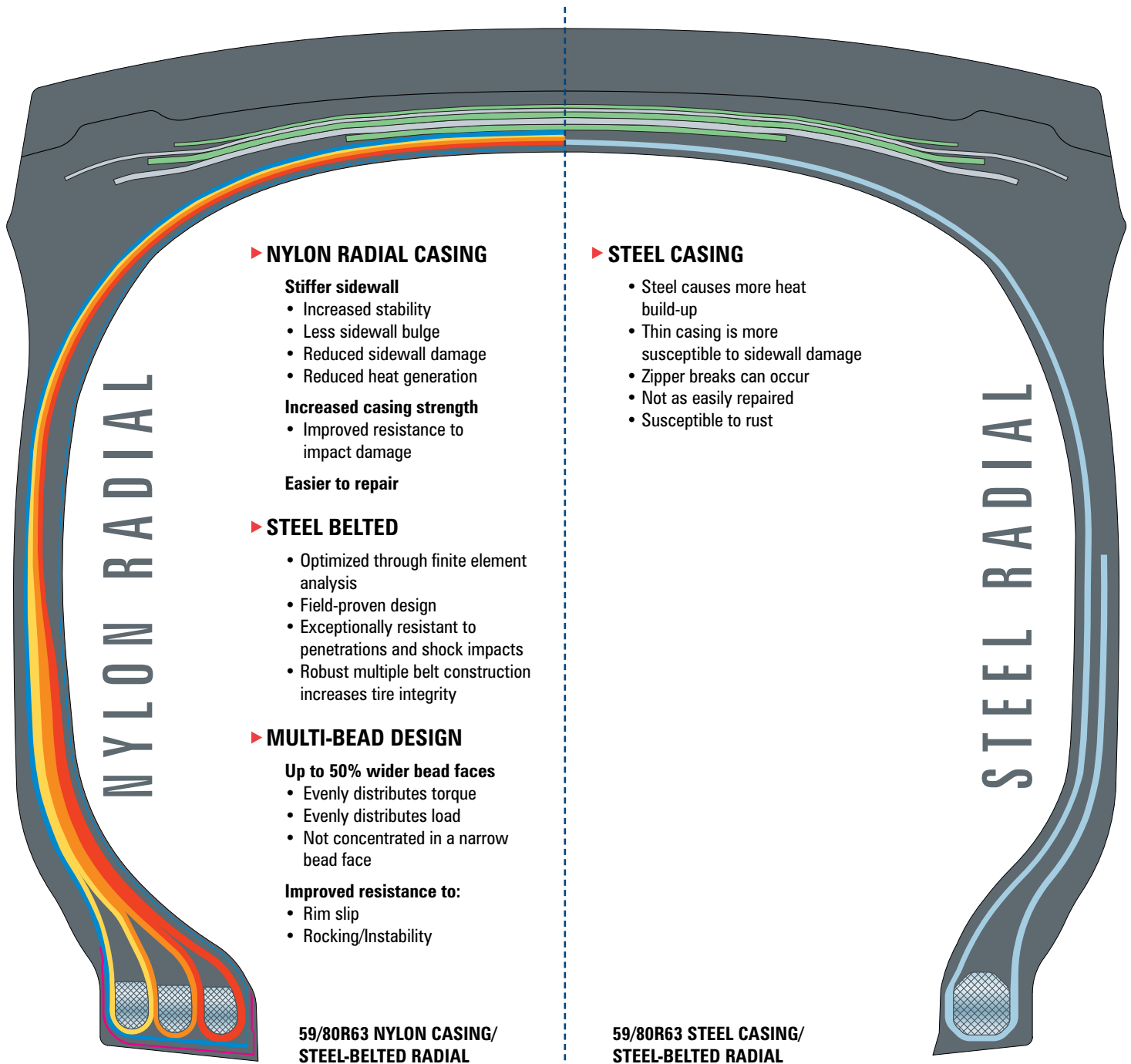
Titan is the only company with the ability to design, test and produce both wheels, tires and tracks for the mining market. Because of this unique ability, Titan has created Titan Mining Services (TMS) to offer complete tire, wheel and track services to end users near large mines.



Titan Mining Services is able to provide you with proper information regarding tires, and the rim and components they should be mounted on. Titan Mining Services offers site visits to determine which tire best suits the application in which the tire will be utilized. A TMS representative will determine the site TMPH, and recommend which compound and tire to use. Titan Mining Services is also able to service your Titan product on-site.

The company's first location was established in Fort MacKay, Alberta, Canada, where Titan is partnering with Saskatoon Wholesale Tire Ltd., who has been in the area for a number of years and also represents Titan Tire. Titan Mining Services also has locations in Peru, Chile, South Africa and Australia. As the company grows, Titan will continue to position TMS in strategic locations around the world.

# TITAN STEEL-BELTED RADIAL WITH NYLON BODY PLYS







## 007 MFT ULTRA CLASS RADIAL

- Large contact area provides damage resistance
- Self-cleaning grooves provide excellent traction
- Tie-bars provide lug stabilization, resulting in even tread wear
- Custom compounds available
- No sipes available on some designs

### SIZES 59/80R63 – 46/90R57

Size	Compound/Construction	Catalog Number	Sipes/No Sipes	Industry Code	Load Rating	Rim Width Code	Flange Height Code	
<b>59/80R63</b>	<b>HV</b>	<b>MHV278</b>	<b>Sipes</b>	<b>E-3</b>	<b>2*</b>	<b>44.00</b>	<b>5.0</b>	
<b>59/80R63</b>	<b>WV</b>	<b>MWV278</b>	<b>Sipes</b>	<b>E-3</b>	<b>2*</b>	<b>44.00</b>	<b>5.0</b>	
<b>59/80R63</b>	<b>CV</b>	<b>MFV278</b>	<b>Sipes</b>	<b>E-3</b>	<b>2*</b>	<b>44.00</b>	<b>5.0</b>	
<b>59/80R63</b>	<b>SV</b>	<b>MSV278</b>	<b>Sipes</b>	<b>E-3</b>	<b>2*</b>	<b>44.00</b>	<b>5.0</b>	
<b>59/80R63</b>	<b>H2</b>	<b>MH2278</b>	<b>No Sipes</b>	<b>E-3</b>	<b>2*</b>	<b>44.00</b>	<b>5.0</b>	
<b>59/80R63</b>	<b>W2</b>	<b>MW2278</b>	<b>No Sipes</b>	<b>E-3</b>	<b>2*</b>	<b>44.00</b>	<b>5.0</b>	
59/80R63	C2	MF2278	No Sipes	E-3	2*	44.00	5.0	
<b>59/80R63</b>	<b>S2</b>	<b>MS2278</b>	<b>No Sipes</b>	<b>E-3</b>	<b>2*</b>	<b>44.00</b>	<b>5.0</b>	
<b>59/80R63</b>	<b>HD</b>	<b>MHD278</b>	<b>Sipes</b>	<b>E-4</b>	<b>2*</b>	<b>44.00</b>	<b>5.0</b>	
<b>59/80R63</b>	<b>WD</b>	<b>MWD278</b>	<b>Sipes</b>	<b>E-4</b>	<b>2*</b>	<b>44.00</b>	<b>5.0</b>	
59/80R63	CD	MFD278	Sipes	E-4	2*	44.00	5.0	
<b>59/80R63</b>	<b>H5</b>	<b>MH5278</b>	<b>No Sipes</b>	<b>E-4</b>	<b>2*</b>	<b>44.00</b>	<b>5.0</b>	
<b>59/80R63</b>	<b>W5</b>	<b>MW5278</b>	<b>No Sipes</b>	<b>E-4</b>	<b>2*</b>	<b>44.00</b>	<b>5.0</b>	
59/80R63	C5	MF5278	No Sipes	E-4	2*	44.00	5.0	
<b>53/80R63</b>	<b>HV</b>	<b>MHV23M</b>	<b>Sipes</b>	<b>E-4</b>	<b>2*</b>	<b>36.00, 38.00</b>	<b>5.0</b>	
<b>53/80R63</b>	<b>WV</b>	<b>MWV23M</b>	<b>Sipes</b>	<b>E-4</b>	<b>2*</b>	<b>36.00, 38.00</b>	<b>5.0</b>	
53/80R63	CV	MFV23M	Sipes	E-4	2*	36.00, 38.00	5.0	
<b>53/80R63</b>	<b>H2</b>	<b>MH223M</b>	<b>No Sipes</b>	<b>E-4</b>	<b>2*</b>	<b>36.00, 38.00</b>	<b>5.0</b>	
<b>53/80R63</b>	<b>W2</b>	<b>MW223M</b>	<b>No Sipes</b>	<b>E-4</b>	<b>2*</b>	<b>36.00, 38.00</b>	<b>5.0</b>	
53/80R63	C2	MF223M	No Sipes	E-4	2*	36.00, 38.00	5.0	
<b>46/90R57</b>	<b>HV</b>	<b>MHV276</b>	<b>Sipes</b>	<b>E-4</b>	<b>2*</b>	<b>32.00, 29.00</b>	<b>6.0</b>	
<b>46/90R57</b>	<b>WV</b>	<b>MWV276</b>	<b>Sipes</b>	<b>E-4</b>	<b>2*</b>	<b>32.00, 29.00</b>	<b>6.0</b>	
46/90R57	CV	MFV276	Sipes	E-4	2*	32.00, 29.00	6.0	
<b>46/90R57</b>	<b>H2</b>	<b>MH2276</b>	<b>No Sipes</b>	<b>E-4</b>	<b>2*</b>	<b>32.00, 29.00</b>	<b>6.0</b>	
<b>46/90R57</b>	<b>W2</b>	<b>MW2276</b>	<b>No Sipes</b>	<b>E-4</b>	<b>2*</b>	<b>32.00, 29.00</b>	<b>6.0</b>	
46/90R57	C2	MF2276	No Sipes	E-4	2*	32.00, 29.00	6.0	

Tires in bold currently released.

	Size	Outside Diameter in (mm)	Section Width in (mm)	Tread Depth 32nd in (mm)	Rated Load @ Inflation lb @ psi (kg @ bar)	TMPH (TKPH)
	<b>59/80R63</b>	<b>158.5 (4026)</b>	<b>57.4 (1461)</b>	<b>89/32 (71)</b>	<b>220,500 @ 110 (100,000 @ 7.5)</b>	<b>1355 (1978)</b>
	<b>59/80R63</b>	<b>158.5 (4026)</b>	<b>57.4 (1461)</b>	<b>89/32 (71)</b>	<b>220,500 @ 110 (100,000 @ 7.5)</b>	<b>1084 (1582)</b>
	<b>59/80R63</b>	<b>158.5 (4026)</b>	<b>57.4 (1461)</b>	<b>89/32 (71)</b>	<b>220,500 @ 110 (100,000 @ 7.5)</b>	<b>813 (1187)</b>
	<b>59/80R63</b>	<b>158.5 (4026)</b>	<b>57.4 (1461)</b>	<b>89/32 (71)</b>	<b>220,500 @ 110 (100,000 @ 7.5)</b>	<b>TBD</b>
	<b>59/80R63</b>	<b>158.5 (4026)</b>	<b>57.4 (1461)</b>	<b>89/32 (71)</b>	<b>220,500 @ 110 (100,000 @ 7.5)</b>	<b>1287 (1879)</b>
	<b>59/80R63</b>	<b>158.5 (4026)</b>	<b>57.4 (1461)</b>	<b>89/32 (71)</b>	<b>220,500 @ 110 (100,000 @ 7.5)</b>	<b>1030 (1503)</b>
	59/80R63	158.5 (1461)	57.4 (1461)	89/32 (71)	220,500 @ 110 (100,000 @ 7.5)	772 (1127)
	<b>59/80R63</b>	<b>158.5 (4026)</b>	<b>57.4 (1461)</b>	<b>89/32 (71)</b>	<b>220,500 @ 110 (100,000 @ 7.5)</b>	<b>TBD</b>
	<b>59/80R63</b>	<b>158.5 (4026)</b>	<b>57.4 (1461)</b>	<b>146/32 (116)</b>	<b>220,500 @ 110 (100,000 @ 7.5)</b>	<b>1016 (1483)</b>
	<b>59/80R63</b>	<b>158.5 (4026)</b>	<b>57.4 (1461)</b>	<b>146/32 (116)</b>	<b>220,500 @ 110 (100,000 @ 7.5)</b>	<b>813 (1186)</b>
	59/80R63	158.5 (4026)	57.4 (1461)	146/32 (116)	220,500 @ 110 (100,000 @ 7.5)	610 (890)
	<b>59/80R63</b>	<b>158.5 (4026)</b>	<b>57.4 (1461)</b>	<b>146/32 (116)</b>	<b>220,500 @ 110 (100,000 @ 7.5)</b>	<b>965 (1409)</b>
	<b>59/80R63</b>	<b>158.5 (4026)</b>	<b>57.4 (1461)</b>	<b>146/32 (116)</b>	<b>220,500 @ 110 (100,000 @ 7.5)</b>	<b>772 (1127)</b>
	59/80R63	158.5 (4026)	57.4 (1461)	146/32 (116)	220,500 @ 110 (100,000 @ 7.5)	579 (845)
	<b>53/80R63</b>	<b>148.8 (3780)</b>	<b>53 (1346)</b>	<b>130/32 (103)</b>	<b>182,000 @ 110 (82,500 @ 7.5)</b>	<b>1001 (1461)</b>
	<b>53/80R63</b>	<b>148.8 (3780)</b>	<b>53 (1346)</b>	<b>130/32 (103)</b>	<b>182,000 @ 110 (82,500 @ 7.5)</b>	<b>801 (1169)</b>
	53/80R63	148.8 (3780)	53 (1346)	130/32 (103)	182,000 @ 110 (82,500 @ 7.5)	601 (877)
	<b>53/80R63</b>	<b>148.8 (3780)</b>	<b>53 (1346)</b>	<b>130/32 (103)</b>	<b>182,000 @ 110 (82,500 @ 7.5)</b>	<b>951 (1388)</b>
	<b>53/80R63</b>	<b>148.8 (3780)</b>	<b>53 (1346)</b>	<b>130/32 (103)</b>	<b>182,000 @ 110 (82,500 @ 7.5)</b>	<b>761 (1110)</b>
	53/80R63	148.8 (3780)	53 (1346)	130/32 (103)	182,000 @ 110 (82,500 @ 7.5)	571 (833)
	<b>46/90R57</b>	<b>141.5 (3594)</b>	<b>46.0 (1168)</b>	<b>105/32 (83)</b>	<b>139,000 @105 (63,000 @7.3)</b>	<b>853 (1246)</b>
	<b>46/90R57</b>	<b>141.5 (3594)</b>	<b>46.0 (1168)</b>	<b>105/32 (83)</b>	<b>139,000 @105 (63,000 @7.3)</b>	<b>683 (996)</b>
	46/90R57	141.5 (3594)	46.0 (1168)	105/32 (83)	139,000 @105 (63,000 @7.3)	512 (747)
	<b>46/90R57</b>	<b>141.5 (3594)</b>	<b>46.0 (1168)</b>	<b>105/32 (83)</b>	<b>139,000 @105 (63,000 @7.3)</b>	<b>810 (1183)</b>
	<b>46/90R57</b>	<b>141.5 (3594)</b>	<b>46.0 (1168)</b>	<b>105/32 (83)</b>	<b>139,000 @105 (63,000 @7.3)</b>	<b>648 (947)</b>
	46/90R57	141.5 (3594)	46.0 (1168)	105/32 (83)	139,000 @105 (63,000 @7.3)	486 (710)

Tires in bold currently released.



## 007 MFT ULTRA CLASS RADIAL

- Large contact area provides damage resistance
- Self-cleaning grooves provide excellent traction
- Tie-bars provide lug stabilization, resulting in even tread wear
- Custom compounds available
- No sipes available on some designs

### SIZES 40.00R57 – 27.00R49

Size	Compound/Construction	Catalog Number	Sipes/No Sipes	Industry Code	Load Rating	Rim Width Code	Flange Height Code	
<b>40.00R57</b>	<b>HV</b>	<b>MHV240</b>	<b>Sipes</b>	<b>E-4</b>	<b>2*</b>	<b>29.00, 32.00</b>	<b>6.0</b>	
<b>40.00R57</b>	<b>WV</b>	<b>MWV240</b>	<b>Sipes</b>	<b>E-4</b>	<b>2*</b>	<b>29.00, 32.00</b>	<b>6.0</b>	
40.00R57	CV	MFV240	Sipes	E-4	2*	29.00, 32.00	6.0	
<b>40.00R57</b>	<b>H2</b>	<b>MH2240</b>	<b>No Sipes</b>	<b>E-4</b>	<b>2*</b>	<b>29.00, 32.00</b>	<b>6.0</b>	
<b>40.00R57</b>	<b>W2</b>	<b>MW2240</b>	<b>No Sipes</b>	<b>E-4</b>	<b>2*</b>	<b>29.00, 32.00</b>	<b>6.0</b>	
40.00R57	C2	MF2240	No Sipes	E-4	2*	29.00, 32.00	6.0	
<b>40.00R57</b>	<b>HR</b>	<b>MHR240*</b>	<b>Sipes</b>	<b>E-4</b>	<b>2*</b>	<b>29.00, 32.00</b>	<b>6.0</b>	
<b>40.00R57</b>	<b>WR</b>	<b>MWR240*</b>	<b>Sipes</b>	<b>E-4</b>	<b>2*</b>	<b>29.00, 32.00</b>	<b>6.0</b>	
40.00R57	CR	MFR240*	Sipes	E-4	2*	29.00, 32.00	6.0	
<b>40.00R57</b>	<b>H4</b>	<b>MH4240*</b>	<b>No Sipes</b>	<b>E-4</b>	<b>2*</b>	<b>29.00, 32.00</b>	<b>6.0</b>	
<b>40.00R57</b>	<b>W4</b>	<b>MW4240*</b>	<b>No Sipes</b>	<b>E-4</b>	<b>2*</b>	<b>29.00, 32.00</b>	<b>6.0</b>	
40.00R57	C4	MF4240*	No Sipes	E-4	2*	29.00, 32.00	6.0	
<b>37.00R57</b>	<b>HV</b>	<b>MHV237</b>	<b>Sipes</b>	<b>E-4 +</b>	<b>2*</b>	<b>27.00, 29.00</b>	<b>6.0</b>	
<b>37.00R57</b>	<b>WV</b>	<b>MWV237</b>	<b>Sipes</b>	<b>E-4 +</b>	<b>2*</b>	<b>27.00, 29.00</b>	<b>6.0</b>	
37.00R57	CV	MFV237	Sipes	E-4 +	2*	27.00, 29.00	6.0	
<b>37.00R57</b>	<b>H2</b>	<b>MH2237</b>	<b>No Sipes</b>	<b>E-4 +</b>	<b>2*</b>	<b>27.00, 29.00</b>	<b>6.0</b>	
<b>37.00R57</b>	<b>W2</b>	<b>MW2237</b>	<b>No Sipes</b>	<b>E-4 +</b>	<b>2*</b>	<b>27.00, 29.00</b>	<b>6.0</b>	
37.00R57	C2	MF2237	No Sipes	E-4 +	2*	27.00, 29.00	6.0	
<b>33.00R51</b>	<b>HE</b>	<b>MHT2R3</b>	<b>Sipes</b>	<b>E-4</b>	<b>2*</b>	<b>24.00</b>	<b>5.0</b>	
<b>33.00R51</b>	<b>WE</b>	<b>MWT2R3</b>	<b>Sipes</b>	<b>E-4</b>	<b>2*</b>	<b>24.00</b>	<b>5.0</b>	
33.00R51	CE	MFT2R3	Sipes	E-4	2*	24.00	5.0	
<b>33.00R51</b>	<b>H2</b>	<b>MH22R3</b>	<b>No Sipes</b>	<b>E-4</b>	<b>2*</b>	<b>24.00</b>	<b>5.0</b>	
<b>33.00R51</b>	<b>W2</b>	<b>MW22R3</b>	<b>No Sipes</b>	<b>E-4</b>	<b>2*</b>	<b>24.00</b>	<b>5.0</b>	
33.00R51	C2	MF22R3	No Sipes	E-4	2*	24.00	5.0	
<b>27.00R49</b>	<b>HE</b>	<b>MHT2R9</b>	<b>Sipes</b>	<b>E-4</b>	<b>2*</b>	<b>19.50</b>	<b>4.0</b>	
<b>27.00R49</b>	<b>WE</b>	<b>MWT2R9</b>	<b>Sipes</b>	<b>E-4</b>	<b>2*</b>	<b>19.50</b>	<b>4.0</b>	
27.00R49	CE	MFT2R9	Sipes	E-4	2*	19.50	4.0	
<b>27.00R49</b>	<b>H2</b>	<b>MH22R9</b>	<b>No Sipes</b>	<b>E-4</b>	<b>2*</b>	<b>19.50</b>	<b>4.0</b>	
<b>27.00R49</b>	<b>W2</b>	<b>MW22R9</b>	<b>No Sipes</b>	<b>E-4</b>	<b>2*</b>	<b>19.50</b>	<b>4.0</b>	
27.00R49	C2	MF22R9	No Sipes	E-4	2*	19.50	4.0	

Tires in bold currently released. \* R: Round shoulder design

	Size	Outside Diameter in (mm)	Section Width in (mm)	Tread Depth 32nd in (mm)	Rated Load @ Inflation lb @ psi (kg @ bar)	TMPH (TKPH)
	<b>40.00R57</b>	<b>142.1 (3609)</b>	<b>43.2 (1097)</b>	<b>105/32 (83)</b>	<b>132,500 @ 105 (60,000 @ 7.3)</b>	<b>813 (1186)</b>
	<b>40.00R57</b>	<b>142.1 (3609)</b>	<b>43.2 (1097)</b>	<b>105/32 (83)</b>	<b>132,500 @ 105 (60,000 @ 7.3)</b>	<b>650 (949)</b>
	40.00R57	142.1 (3609)	43.2 (1097)	105/32 (83)	132,500 @ 105 (60,000 @ 7.3)	488 (712)
	<b>40.00R57</b>	<b>142.1 (3609)</b>	<b>43.2 (1097)</b>	<b>105/32 (83)</b>	<b>132,500 @ 105 (60,000 @ 7.3)</b>	<b>772 (1127)</b>
	<b>40.00R57</b>	<b>142.1 (3609)</b>	<b>43.2 (1097)</b>	<b>105/32 (83)</b>	<b>132,500 @ 105 (60,000 @ 7.3)</b>	<b>618 (902)</b>
	40.00R57	142.1 (3609)	43.2 (1097)	105/32 (83)	132,500 @ 105 (60,000 @ 7.3)	463 (676)
	<b>40.00R57</b>	<b>142.1 (3609)</b>	<b>43.2 (1097)</b>	<b>105/32 (83)</b>	<b>132,500 @ 105 (60,000 @ 7.3)</b>	<b>813 (1186)</b>
	<b>40.00R57</b>	<b>142.1 (3609)</b>	<b>43.2 (1097)</b>	<b>105/32 (83)</b>	<b>132,500 @ 105 (60,000 @ 7.3)</b>	<b>650 (949)</b>
	40.00R57	142.1 (3609)	43.2 (1097)	105/32 (83)	132,500 @ 105 (60,000 @ 7.3)	488 (712)
	<b>40.00R57</b>	<b>142.1 (3609)</b>	<b>43.2 (1097)</b>	<b>105/32 (83)</b>	<b>132,500 @ 105 (60,000 @ 7.3)</b>	<b>772 (1127)</b>
	<b>40.00R57</b>	<b>142.1 (3609)</b>	<b>43.2 (1097)</b>	<b>105/32 (83)</b>	<b>132,500 @ 105 (60,000 @ 7.3)</b>	<b>618 (902)</b>
	40.00R57	142.1 (3609)	43.2 (1097)	105/32 (83)	132,500 @ 105 (60,000 @ 7.3)	463 (676)
	<b>37.00R57</b>	<b>136.0 (3455)</b>	<b>40.0 (1016)</b>	<b>125/32 (99)</b>	<b>113,500 @ 105 (51,500 @ 7.3)</b>	<b>716 (1046)</b>
	<b>37.00R57</b>	<b>136.0 (3455)</b>	<b>40.0 (1016)</b>	<b>125/32 (99)</b>	<b>113,500 @ 105 (51,500 @ 7.3)</b>	<b>573 (837)</b>
	37.00R57	136.0 (3455)	40.0 (1016)	125/32 (99)	113,500 @ 105 (51,500 @ 7.3)	430 (628)
	<b>37.00R57</b>	<b>136.0 (3455)</b>	<b>40.0 (1016)</b>	<b>125/32 (99)</b>	<b>113,500 @ 105 (51,500 @ 7.3)</b>	<b>681 (994)</b>
	<b>37.00R57</b>	<b>136.0 (3455)</b>	<b>40.0 (1016)</b>	<b>125/32 (99)</b>	<b>113,500 @ 105 (51,500 @ 7.3)</b>	<b>545 (795)</b>
	37.00R57	136.0 (3455)	40.0 (1016)	125/32 (99)	113,500 @ 105 (51,500 @ 7.3)	408 (596)
	<b>33.00R51</b>	<b>120.5 (3061)</b>	<b>35.2 (894)</b>	<b>98/32 (78)</b>	<b>85,500 @ 105 (38,750 @ 7.3)</b>	<b>568 (829)</b>
	<b>33.00R51</b>	<b>120.5 (3061)</b>	<b>35.2 (894)</b>	<b>98/32 (78)</b>	<b>85,500 @ 105 (38,750 @ 7.3)</b>	<b>470 (687)</b>
	33.00R51	120.5 (3061)	35.2 (894)	98/32 (78)	85,500 @ 105 (38,750 @ 7.3)	353 (515)
	<b>33.00R51</b>	<b>120.5 (3061)</b>	<b>35.2 (894)</b>	<b>98/32 (78)</b>	<b>85,500 @ 105 (38,750 @ 7.3)</b>	<b>540 (788)</b>
	<b>33.00R51</b>	<b>120.5 (3061)</b>	<b>35.2 (894)</b>	<b>98/32 (78)</b>	<b>85,500 @ 105 (38,750 @ 7.3)</b>	<b>447 (652)</b>
	33.00R51	120.5 (3061)	35.2 (894)	98/32 (78)	85,500 @ 105 (38,750 @ 7.3)	335 (489)
	<b>27.00R49</b>	<b>106.7 (2703)</b>	<b>28.6 (726)</b>	<b>86/32 (68)</b>	<b>60,000 @ 105 (27,250 @ 7.3)</b>	<b>433 (631)</b>
	<b>27.00R49</b>	<b>106.7 (2703)</b>	<b>28.6 (726)</b>	<b>86/32 (68)</b>	<b>60,000 @ 105 (27,250 @ 7.3)</b>	<b>346 (505)</b>
	27.00R49	106.7 (2703)	28.6 (726)	86/32 (68)	60,000 @ 105 (27,250 @ 7.3)	260 (379)
	<b>27.00R49</b>	<b>106.7 (2703)</b>	<b>28.6 (726)</b>	<b>86/32 (68)</b>	<b>60,000 @ 105 (27,250 @ 7.3)</b>	<b>411 (600)</b>
	<b>27.00R49</b>	<b>106.7 (2703)</b>	<b>28.6 (726)</b>	<b>86/32 (68)</b>	<b>60,000 @ 105 (27,250 @ 7.3)</b>	<b>329 (480)</b>
	27.00R49	106.7 (2703)	28.6 (726)	86/32 (68)	60,000 @ 105 (27,250 @ 7.3)	247 (360)

Tires in bold currently released.





## DTE4 (E-4) HAUL TRUCK TIRE

- Deep tread depth for long tread life
- Deep lug tread pattern provides excellent traction
- Open, non-directional tread pattern provides excellent self-cleaning

Size	Compound/ Construction	Catalog Number	Industry Code	Load Rating	Rim Width Code	Flange Height Code	Outside Diameter in (mm)	Section Width in (mm)	Tread Depth 32nd in (mm)	Rated Load @ Inflation lb @ psi (kg @ bar)	TMPH (TKPH)
<b>33.00R51</b>	<b>HE</b>	<b>EEH2R3</b>	<b>E-4T</b>	<b>2*</b>	<b>24.00</b>	<b>5.0</b>	<b>120.0 (3048)</b>	<b>34.1 (866)</b>	<b>108/32 (86)</b>	<b>85,000 @ 105 (38,750 @ 7.3)</b>	<b>641 (936)</b>
<b>33.00R51</b>	<b>WE</b>	<b>EEW2R3</b>	<b>E-4T</b>	<b>2*</b>	<b>24.00</b>	<b>5.0</b>	<b>120.0 (3048)</b>	<b>34.1 (866)</b>	<b>108/32 (86)</b>	<b>85,000 @ 105 (38,750 @ 7.3)</b>	<b>513 (749)</b>
33.00R51	CE	EEF2R3	E-4T	2*	24.00	5.0	120.0 (3048)	34.1 (866)	108/32 (86)	85,000 @ 105 (38,750 @ 7.3)	360 (526)
<b>27.00R49</b>	<b>HE</b>	<b>EEH2R9</b>	<b>E-4T</b>	<b>2*</b>	<b>19.50</b>	<b>4.0</b>	<b>107.9 (2741)</b>	<b>28.2 (716)</b>	<b>95/32 (75)</b>	<b>60,000 @ 105 (27,250 @ 7.3)</b>	<b>458 (669)</b>
<b>27.00R49</b>	<b>WE</b>	<b>EEW2R9</b>	<b>E-4T</b>	<b>2*</b>	<b>19.50</b>	<b>4.0</b>	<b>107.9 (2741)</b>	<b>28.2 (716)</b>	<b>95/32 (75)</b>	<b>60,000 @ 105 (27,250 @ 7.3)</b>	<b>382 (558)</b>
27.00R49	CE	EEF2R9	E-4T	2*	19.50	4.0	107.9 (2741)	28.2 (716)	95/32 (75)	60,000 @ 105 (27,250 @ 7.3)	286 (418)
<b>18.00R33</b>	<b>HE</b>	<b>EEH2R8</b>	<b>E-4T</b>	<b>2*</b>	<b>13.00</b>	<b>2.5</b>	<b>74.5 (1887)</b>	<b>20.1 (511)</b>	<b>68/32 (54)</b>	<b>24,000 @ 102 (10,900 @ 7.0)</b>	<b>TBD</b>
<b>18.00R33</b>	<b>WE</b>	<b>EEW2R8</b>	<b>E-4T</b>	<b>2*</b>	<b>13.00</b>	<b>2.5</b>	<b>74.5 (1887)</b>	<b>20.1 (511)</b>	<b>68/32 (54)</b>	<b>24,000 @ 102 (10,900 @ 7.0)</b>	<b>TBD</b>
<b>18.00R33</b>	<b>CE</b>	<b>EEF2R8</b>	<b>E-4T</b>	<b>2*</b>	<b>13.00</b>	<b>2.5</b>	<b>74.5 (1887)</b>	<b>20.1 (511)</b>	<b>68/32 (54)</b>	<b>24,000 @ 102 (10,900 @ 7.0)</b>	<b>TBD</b>

Tires in bold currently released. E – estimated





## DTH4 (E-4) HAUL TRUCK TIRE

- 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 Number	Industry Code	Load Rating	Rim Width Code	Flange Height Code	Outside Diameter in (mm)	Section Width in (mm)	Tread Depth 32nd in (mm)	Rated Load @ Inflation lb @ psi (kg @ bar)	TMPH (TKPH)
56/80R63	HE	MHT226	E-4	2*	41.00	5.0	152.6E (3,876)	56E (1,422.4)	125/32 (99.2)	209,500 @ 110 (95,028 @ 7.5)	TBD
56/80R63	WE	MWT226	E-4	2*	41.00	5.0	152.6E (3,876)	56E (1,422.4)	125/32 (99.2)	209,500 @ 110 (95,028 @ 7.5)	TBD
56/80R63	CE	MFT226	E-4	2*	41.00	5.0	152.6E (3,876)	56E (1,422.4)	125/32 (99.2)	209,500 @ 110 (95,028 @ 7.5)	TBD
<b>53/80R63</b>	<b>HE</b>	<b>EHH23M</b>	<b>E-4</b>	<b>2*</b>	<b>36.00, 38.00</b>	<b>5.0</b>	<b>148.8 (3780)</b>	<b>53 (1346)</b>	<b>105/32 (83)</b>	<b>182,000 @110 (82,500 @ 7.5)</b>	<b>914 (1333)</b>
<b>53/80R63</b>	<b>WE</b>	<b>EHW23M</b>	<b>E-4</b>	<b>2*</b>	<b>36.00, 38.00</b>	<b>5.0</b>	<b>148.8 (3780)</b>	<b>53 (1346)</b>	<b>105/32 (83)</b>	<b>182,000 @110 (82,500 @ 7.5)</b>	<b>731 (1066)</b>
53/80R63	CE	EHF23M	E-4	2*	36.00, 38.00	5.0	148.8 (3780)	53 (1346)	105/32 (83)	182000 @ 110 (82500 @ 7.5)	548 (800)
<b>40.00R57</b>	<b>HE</b>	<b>EHH240</b>	<b>E-4</b>	<b>2*</b>	<b>29.00, 32.00</b>	<b>6.0</b>	<b>142.1 (3609)</b>	<b>43.2 (1097)</b>	<b>105/32 (83)</b>	<b>132,5000 @105 (60,000 @ 7.3)</b>	<b>729 (1064)</b>
<b>40.00R57</b>	<b>WE</b>	<b>EHW240</b>	<b>E-4</b>	<b>2*</b>	<b>29.00, 32.00</b>	<b>6.0</b>	<b>142.1 (3609)</b>	<b>43.2 (1097)</b>	<b>105/32 (83)</b>	<b>132,5000 @105 (60,000 @ 7.3)</b>	<b>583 (851)</b>
40.00R57	CE	EHF240	E-4	2*	29.00, 32.00	6.0	142.1 (3609)	43.2 (1097)	105/32 (83)	132,5000 @105 (60,000 @ 7.3)	437 (638)
<b>33.00R51</b>	<b>HE</b>	<b>EHH2R3</b>	<b>E-4</b>	<b>2*</b>	<b>24.00</b>	<b>5.0</b>	<b>120.0 (3048)</b>	<b>34.1 (866)</b>	<b>106/32 (84)</b>	<b>85,5000 @ 105 (38,750 @ 7.3)</b>	<b>432 (631)</b>
<b>33.00R51</b>	<b>WE</b>	<b>EHW2R3</b>	<b>E-4</b>	<b>2*</b>	<b>24.00</b>	<b>5.0</b>	<b>120.0 (3048)</b>	<b>34.1 (866)</b>	<b>106/32 (84)</b>	<b>85,5000 @ 105 (38,750 @ 7.3)</b>	<b>346 (505)</b>
33.00R51	CE	EHF2R3	E-4	2*	24.00	5.0	120.0 (3048)	34.1 (866)	106/32 (84)	85,5000 @ 105 (38,750 @ 7.3)	259 (378)
27.00R49	HE	EHH2R9	E-4	2*	19.50	4.0	107.9 (2741)	28.7 (729)	95/32 (75)	60,000 @ 105 (27,250 @ 7.3)	TBD
27.00R49	WE	EHW2R9	E-4	2*	19.50	4.0	107.9 (2741)	28.7 (729)	95/32 (75)	60,000 @ 105 (27,250 @ 7.3)	TBD
27.00R49	CE	EHF2R9	E-4	2*	19.50	4.0	107.9 (2741)	28.7 (729)	95/32 (75)	60,000 @ 105 (27,250 @ 7.3)	TBD
<b>24.00R35</b>	<b>HE</b>	<b>EHH2R7</b>	<b>E-4</b>	<b>2*</b>	<b>17.00</b>	<b>3.5</b>	<b>85.8 (2179)</b>	<b>26.7 (678)</b>	<b>70/32 (55.6)</b>	<b>40,800 @ 102 (18,500 @ 7.0)</b>	<b>310 (453)</b>
<b>24.00R35</b>	<b>WE</b>	<b>EHW2R7</b>	<b>E-4</b>	<b>2*</b>	<b>17.00</b>	<b>3.5</b>	<b>85.8 (2179)</b>	<b>26.7 (678)</b>	<b>70/32 (55.6)</b>	<b>40,800 @ 102 (18,500 @ 7.0)</b>	<b>225 (329)</b>
24.00R35	CE	EHF2R7	E-4	2*	17.00	3.5	85.8 (2179)	26.7 (678)	70/32 (55.6)	40,800 @ 102 (18,500 @ 7.0)	168 (245)
18.00R33	HE	EHH2R8	E-4	2*	13.00	2.5	74.0 (1880)	21.2 (539)	62/32 (49.2)	24,000 @ 102 (10,900 @ 7.0)	TBD
<b>18.00R33</b>	<b>WE</b>	<b>EHW2R8</b>	<b>E-4</b>	<b>2*</b>	<b>13.00</b>	<b>2.5</b>	<b>74.0 (1880)</b>	<b>21.2 (539)</b>	<b>62/32 (49.2)</b>	<b>24,000 @ 102 (10,900 @ 7.0)</b>	<b>TBD</b>
<b>18.00R33</b>	<b>CE</b>	<b>EHF2R8</b>	<b>E-4</b>	<b>2*</b>	<b>13.00</b>	<b>2.5</b>	<b>74.0 (1880)</b>	<b>21.2 (539)</b>	<b>62/32 (49.2)</b>	<b>24,000 @ 102 (10,900 @ 7.0)</b>	<b>TBD</b>

Tires in bold currently released. E – estimated



A



B

## LDR 250 (L-5) LOADER TIRE

- 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

Size	Tread Style	Compound/Construction	Catalog Number	Industry Code	Load Rating	Rim Width Code	Flange Height Code	Outside Diameter in (mm)	Section Width in (mm)	Tread Depth 32nd in (mm)	Rated Load @ Inflation lb @ psi (kg @ bar)
<b>50/65R51</b>	<b>B</b>	<b>WE</b>	<b>LFT2G6</b>	<b>L-5</b>	<b>2*</b>	<b>40.00</b>	<b>4.5</b>	<b>120E (3048)</b>	<b>50E (1270)</b>	<b>160/32 (127)</b>	<b>143,500 @ 94 (65,000 @ 6.5)</b>
<b>45/65R45</b>	<b>A</b>	<b>WE</b>	<b>LFT26P</b>	<b>L-5</b>	<b>2*</b>	<b>36.00</b>	<b>4.5</b>	<b>106.9E (2715)</b>	<b>42.4E (1077)</b>	<b>140/32 (111)</b>	<b>113,500 @ 94 (51,500 @ 6.5)</b>
<b>35/65R33</b>	<b>A</b>	<b>WE</b>	<b>LFT26K</b>	<b>L-5</b>	<b>2*</b>	<b>28.00</b>	<b>3.5</b>	<b>81.2E (2085)</b>	<b>33.9E (861)</b>	<b>115/32 (91)</b>	<b>61,500 @ 94 (28,000 @ 6.5)</b>

Tires in bold currently released. E – estimated



## LDR 150 (L-4) LOADER TIRE

- 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

Size	Compound/Construction	Catalog Number	Industry Code	Rim Width Code	Flange Height Code	Outside Diameter in (mm)	Section Width in (mm)	Tread Depth 32nd in (mm)	Rated Load @ Inflation lb @ psi (kg @ bar)
<b>58/80R63</b>	<b>WE</b>	<b>LF4258</b>	<b>L-4</b>	<b>47.00</b>	<b>5.0</b>	<b>155.2 (3942)</b>	<b>55.2 (1402)</b>	<b>119/32 (95)</b>	<b>275,500 @ 102 (125,000 @ 7.0)</b>

Tires in bold currently released. E – estimated



## LD 250 SUPER SMOOTH UGM (L-5S) LOADER TIRE

- Super smooth tread pattern gives the maximum rock-type damage resistance
- New underground mine compound

Size	Catalog Number	Industry Code	Ply Rating	Rim Width Code	Flange Height Code	Outside Diameter in (mm)	Section Width in (mm)	Section Width Loaded in (mm)	Static Loaded Radius in (mm)	Gross Footprint Area in <sup>2</sup> (cm <sup>2</sup> )	Tread Depth 32nd in (mm)	Rated Load @ Inflation lb @ psi (kg @ bar)
12.00-24NHS	SBT912	L-5S	20	8.50	N/A	48.3 (1227)	12.5 (3.18)	14.0E (356)	21.8 (554)	N/A	46/32 (37)	15,200 @ 120 (6900 @ 8.3)
14.00-24NHS	SBT914	L-5S	20	N/A	N/A	54.1 (1373)	N/A	N/A	24.9 (632)	198 (5029)	102/32 (81)	16,500 @ 102 (7500 @ 7.0)
17.5-25	SBT917	L-5S	20	14.00	1.5	55.2E (1402)	18.0E (457)	20.7E (526)	24.6E (625)	N/A	104/32 (83)	18,200 @ 83 (8250 @ 5.8)
17.5-25	SBTR17	L-5S	24	14.00	1.5	55.2E (1402)	18.0E (457)	20.7E (526)	24.6E (625)	N/A	104/32 (83)	20,400 @ 102 (9250 @ 7.0)
18.00-25	UGMW18	L-5S	32	13.00	2.5	65.7 (1669)	19.8 (503)	21.5 (546)	29.7 (755)	275 (1774)	99/32 (79)	33,100 @ 109 (15,000 @ 7.5)
20.5-25	6SU921	L-5S	20	17.00	2.0	61.3 (1557)	21.3 (544)	23.1 (587)	27.7 (704)	260 (1678)	86/32 (68)	20,900 @ 65 (9500 @ 4.5)
23.5-25	6SUR23	L-5S	24	19.50	2.5	66.2 (1681)	24.5 (632)	26.5 (673)	29.8 (757)	354 (2284)	95/32 (75)	27,600 @ 69 (12,500 @ 4.8)
26.5-25	6SUW27	L-5S	32	22.00	3.0	70.9 (1801)	28.0 (711)	29.2 (742)	32.4 (823)	329 (2123)	105/32 (83)	37,500 @ 80 (17,000 @ 5.5)
29.5-25 (BELTED) +	6CUXW1	L-5S	34	25.00	3.5	75.1 (1908)	30.0 (762)	31.9 (810)	33.5 (851)	575 (3710)	128/32 (102)	44,100 @ 76 (20,000 @ 5.3)
29.5-29	6SUXW2	L-5S	34	25.00	3.5	79.3 (2014)	30.2 (767)	32.2 (818)	35.0 (889)	608 (3923)	115/32 (91)	46,700 @ 76 (21,200 @ 5.3)
35/65-33 (BELTED) +	67UC6B	L-5S	42	28.00	3.5	82.5 (2096)	35.7 (907)	37.5 (953)	36.7 (932)	755 (4871)	115/32 (91)	58,400 @ 91 (26,500 @ 6.3)

+ CAB-steel belted construction. Tires in bold currently released. E – estimated.

NOTE: Loads shown are reference for 5 mph/10 kmh. Contact Titan OTR Field Engineering for specific site recommendations.

# TITAN ULTRA CLASS RADIAL INSTALLATION GUIDE

## TIRE COMPOUND/CONSTRUCTION DESIGNATIONS

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

Construction Description	Titan Code
Steel-Belted Nylon Radial	N, E, V, 2 (sipeless tread)
Steel Radial	S

## WHEEL COMPONENT RECOMMENDATIONS

Tire Size	Wheel Size	Titan P-min.	T&RA P-min.
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 7.80" Beadseat	7.50"
37.00R57	57x27.00/6.0 57x29.00/6.0	7.50" Back Flange 7.50" Beadseat	7.50"
40.00R57	57x29.00/6.0 57x32.00/6.0	7.50" Back Flange 7.50" Beadseat	7.50"
46/90R57	57x29.00/6.0 57x32.00/6.0	7.50" Back Flange 7.50" Beadseat	7.50"
53/80R63	63x36.00/5.0 63x38.00/5.0	8.90" Back Flange 7.80" Beadseat	7.50"
59/80R63	63x44.00/5.0	8.90" Back Flange 7.80" Beadseat	7.50"

## BASIC PRESSURE RECOMMENDATIONS

Ambient Temperature		Titan Basic Cold Inflation (psi) 105		Titan Basic Cold Inflation (psi) 110	
°F	°C	Adjusted Initial Inflation	Adjusted Cold Inflation	Adjusted Initial Inflation	Adjusted Cold Inflation
76-85	24-29	112	108	118	113
86-95	30-35	115	110	120	116
96-105	36-41	117	112	122	118
106-115	41-46	119	114	125	120

### Definitions:

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

**Initial Adjusted 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 24 hrs 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:

- When mounting on steer positions, the cold inflation pressure can be increased by 5 psi
- 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, speed or inflation practices is not covered by the Titan Tire Warranty Policy





## STANDARD 5-PIECE RIM/WHEEL

Vehicle	Part No.	Description
Caterpillar 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
Caterpillar 777 B/C/D	9010395	49x19.50 wheel RWEG-20 hole
Komatsu 785-5	1949RWHGD95	1949RWHGD-demountable rim 49x19.50/4.0
Komatsu 785-7	50504A96	49x19.50/4.0 wheel RWEG1X-20 hole
Terex/Hitachi	1949MRWEGUSD95	1949MRWEGUSD-demountable rim 49x19.50/4.0
Komatsu 1500-5	2451EHDXTD95	2451EHDXTD-demountable rim 51x24.00/5.0
Caterpillar 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	63x36.00/5.0 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	63x44.00/5.0 wheel-54 hole



## ACT RIM/WHEEL

Vehicle	Part No.	Description
Caterpillar 773-775	5063096	35x17.00/3.5 wheel RWHGX-14 hole
Komatsu 465-7	5063195	35x17.00/3.5 wheel RWHGXT-14 hole
Komatsu 465-5	1735RWH2GXD96	1735RWHGXD-demountable rim 35x17.00/3.5
Terex/Hitachi	1735RWH2GXD96	1735RWHGXD-demountable rim 35x17.00/3.5
Caterpillar 777 B/C/D	5062796	49x19.50/4.0 wheel RWEG-20 hole
Komatsu 785-5	1949RWH2GD96	1949RWHGD-demountable rim 49x19.50/4.0
Komatsu 785-7	5062995	49x19.50/4.0 wheel RWEG1X-20 hole
Terex/Hitachi	1949MRWE2GUSD96	1949MRWEGUSD-demountable rim 49x19.50/4.0
Komatsu 1500-5	2451G2EHDXTD95	2451G2EHDXTD-demountable rim 51x24.00/5.0
Caterpillar 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	63x36.00/5.0 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*	63x44.00/5.0 wheel-54 hole

\* adapter required



## Reduce downtime by up to 50% with Accelerated Change Technology

When our customers said tire changes and rotations were costing them too much downtime, we developed a solution for their problem.

Introducing the solution: The Titan-exclusive Accelerated Change Technology (ACT) for mining. The ACT two-piece lock rings can release the tire assembly from the wheel, while the wheel itself stays mounted to the truck.

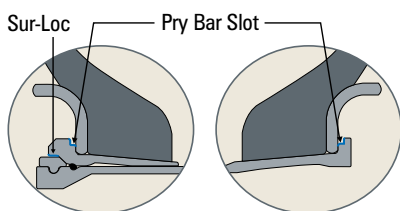
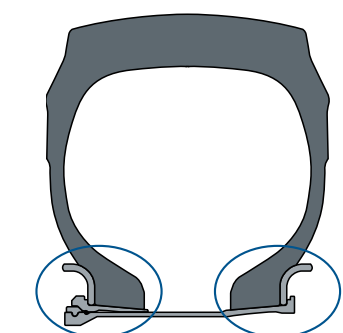
ACT can reduce the downtime required for tire change or rotation by up to 50 percent. That means your truck could spend 50 percent more time creating revenue compared to other tire change methods.

## Compare the Titan difference

*Titan Extra Heavy Duty (EHD 51 & 57) and Accelerated Change Technology (ACT 51 & 57)*

- Less labor plus less downtime equals more revenue from every ACT-equipped truck
- Same components are used on both Titan EHD and ACT

*Ask your Titan sales representative.*

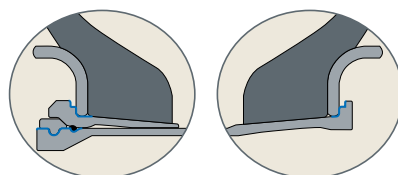


### SUR-LOC

- Extra protection during inflation
- Prevents inflation of tire if lock ring is misassembled, mismatched or distorted

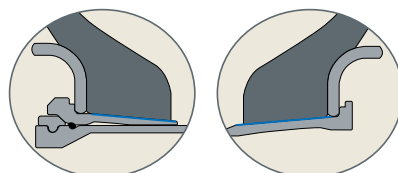
### CONTINUOUS PRY BAR SLOT

- Incorporated in rim to ease tire removal



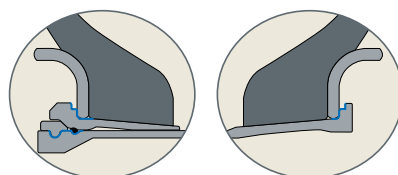
### MACHINED COMPONENTS

- All critical component surfaces are 100% machined; only rim base and bead seat band



### FULL TIRE BEAD SUPPORT

- Designed for all brands of tires



### SHOT PEEN

- All critical surface components are shot peened



# TITAN EHD 51 & 57 AND ACT 51 & 57 PRODUCT LINE

Titan offers EHD and ACT rims for various applications and tire sizes in 51-inch and 57-inch diameters. All rim types can be made into wheels. Consult Titan for the proper selection for your application.

## HAUL TRUCK

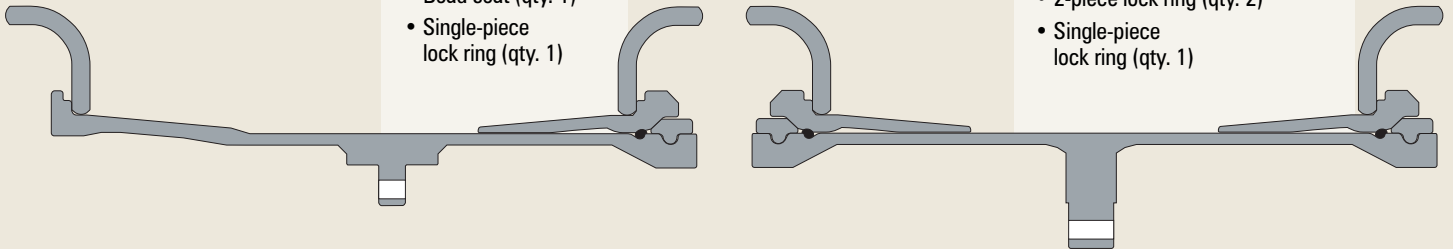


Each complete Titan EHD 51 & 57 wheel assembly includes:

- Wheel (qty. 1)
- Side ring (qty. 2)
- O-ring (qty. 1)
- Bead seat (qty. 1)
- Single-piece lock ring (qty. 1)

Each complete Titan ACT 51 & 57 wheel assembly includes:

- Wheel (qty. 1)
- Side ring (qty. 2)
- O-ring (qty. 2)
- Bead seat (qty. 2)
- 2-piece lock ring (qty. 2)
- Single-piece lock ring (qty. 1)

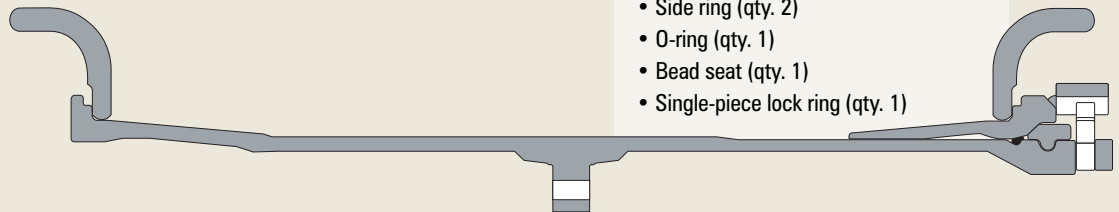


## LOADER

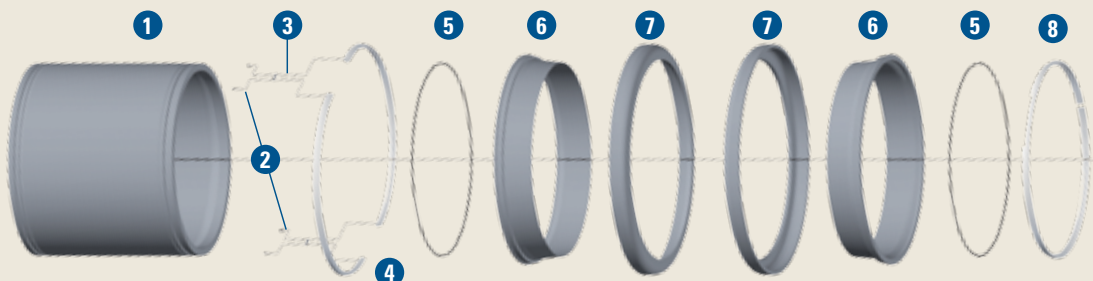


Each complete Titan EHD 51 & 57 wheel assembly includes:

- Wheel (qty. 1)
- Side ring (qty. 2)
- O-ring (qty. 1)
- Bead seat (qty. 1)
- Single-piece lock ring (qty. 1)



## ACT WHEEL ASSEMBLY



- 1 Wheel (qty. 1)
- 2 Bolt (qty. 8)
- 3 Lock plate (qty. 4)
- 4 2-piece lock ring (qty. 2)
- 5 O-ring (qty. 2)
- 6 Bead seat (qty. 2)
- 7 Side ring (qty. 2)
- 8 Single-piece lock ring (qty. 1)

Same components used on both Titan EHD and ACT.



# TITAN ACT 51 & 57

*Save on downtime, money and inventory*

**INNOVATIVE ACCELERATED CHANGE TECHNOLOGY LETS YOU CHANGE AN INNER DUAL TIRE WITHOUT REMOVING THE OUTER DUAL WHEEL.**

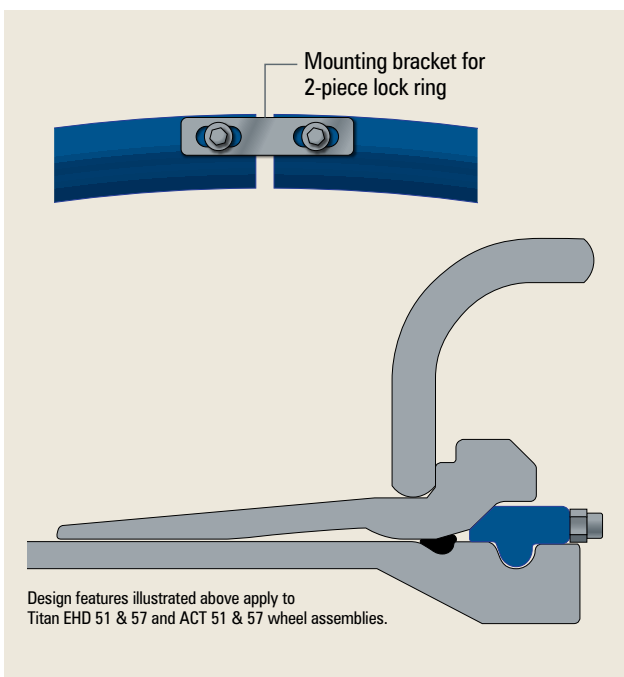
The ACT assembly lets you:

- Maneuver the inner tire over both the outer and inner wheel before fitting it in place
- Eliminate the requirement to torque, re-torque and to use hand tools and extra hardware

## WHEEL POSITIONS



## 2-PIECE LOCK RINGS PROVIDE CONVENIENT MOUNTING AND REMOVAL



## 5 EASY STEPS

### CHANGING AN INNER DUAL USING ACT

#### STEP 1

Inner EHD wheel

Outer ACT wheel



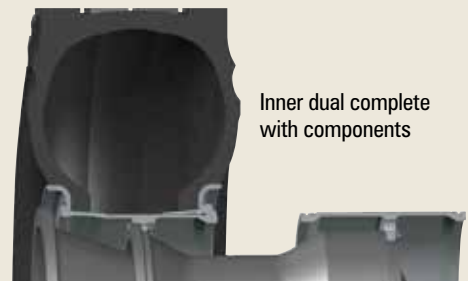
#### STEP 2

Inner tire mounting



#### STEP 3

Inner dual complete with components



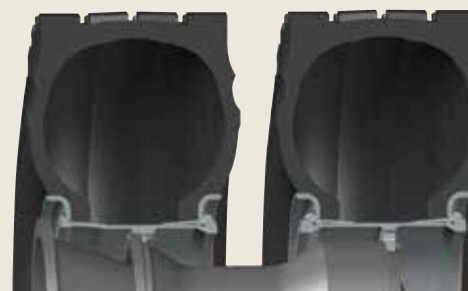
#### STEP 4

Start assembly of tire on ACT wheel



#### STEP 5

Outer dual complete with components  
Dual tire change complete





## SVM/OVM WHEELS

Vehicle	Part No.	Description	Size
Caterpillar 777	549--001--001	OVM	49x19.50/4.0 wheel
Caterpillar 785	551--002--001	OVM	51x24.00/5.0 wheel
Caterpillar 789	557--002--001	OVM	57x29.00/6.0 wheel
Caterpillar 789	557--012--001	SVM	57x29.00/6.0 wheel
Caterpillar 793B-D	557--002--006	OVM	57x29.00/6.0 wheel
Caterpillar 793B-D	557--002--004	OVM	57x32.00/6.0 wheel
Caterpillar 793F	TBA	OVM	57x29.00/6.0 wheel
Caterpillar 793F (OE supplied to Cat)	557--002--005	OVM	57x32.00/6.0 wheel
Caterpillar 793F (OE supplied to Cat)	557--012--003	SVM	57x32.00/6.0 wheel
Caterpillar 795F (OE supplied to Cat)	563--002--002	OVM	63x41.00/5.0 wheel
Caterpillar 795F (OE supplied to Cat)	563--012--002	SVM	63x41.00/5.0 wheel
Caterpillar 797F (OE supplied to Cat)	563--990--001	OVM	63x44.00/5.0 wheel
Caterpillar 797F (OE supplied to Cat)	563-99--002	SVM	63x44.00/5.0 wheel
Komatsu 860E	TBA	OVM	57x34.00/6.0 wheel
Komatsu 860E	TBA	SVM	57x34.00/6.0 wheel
Komatsu 930E-4	563--002--001	OVM	63x36.00/5.0 wheel
Komatsu 930E-4	563--012--001	SVM	63x36.00/5.0 wheel
Komatsu 960E	TBA	OVM	63x41.00/6.0 wheel
Komatsu 960E	TBA	SVM	63x41.00/6.0 wheel
Liebherr T282	TBA	OVM	63x41.00/5.0 wheel
Liebherr T282	TBA	SVM	63x41.00/5.0 wheel

## Benefits

- Reduced downtime — machine downtime is reduced by greater than 50% on tire change-out times using the QCR System, when compared to the standard five-piece rims
- Reduced manual handling and fatigue on tire maintenance personnel — the need for tire service personnel to use impact guns is dramatically reduced, thus improving ergonomics of the tire change process
- Reduced tire maintenance costs
- Quicker tire change process will encourage more frequent and effective tire rotations and inspections resulting in improved tire life
- Increased crack test intervals to 15,000 hours, compared to 5,000 hours for standard five-piece rims
- Reduced potential damage to wheel retaining bolts, studs and hubs — minimize stud and wheel station damage due to improperly tightened wheel nuts
- Machines can have the rear tires (both inner and outer positions) vertically mounted in the same manner as the front tires without the need to return to the service bay to have the wheel nuts retightened (as long as rims have not been removed)
- Minimal level of rim base inventory is required



**The smaller overall rim base diameter of the OVM, compared to the inside wheel, allows for the easy removal of the inside tire and components over the OVM wheel base.**





# TITAN SVM/OVM 51, 57 & 63

Titan offers SVM and OVM rims for various applications and tire sizes in 51-inch , 57-inch and 63-inch diameters. Consult Titan for the proper selection for your application.

## HAUL TRUCK

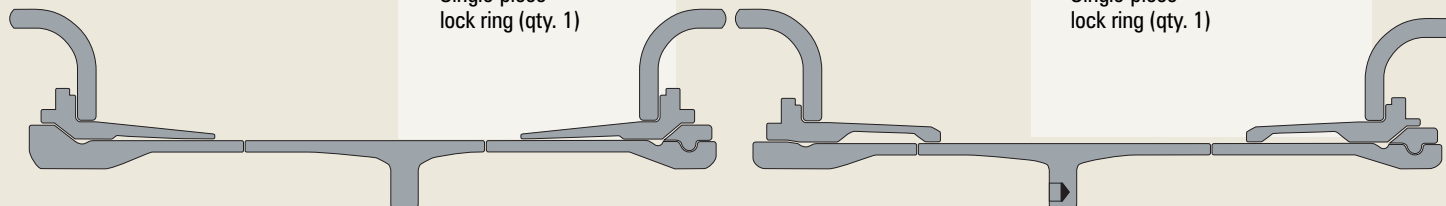


Each complete Titan SVM 51, 57 and 63 wheel assembly includes:

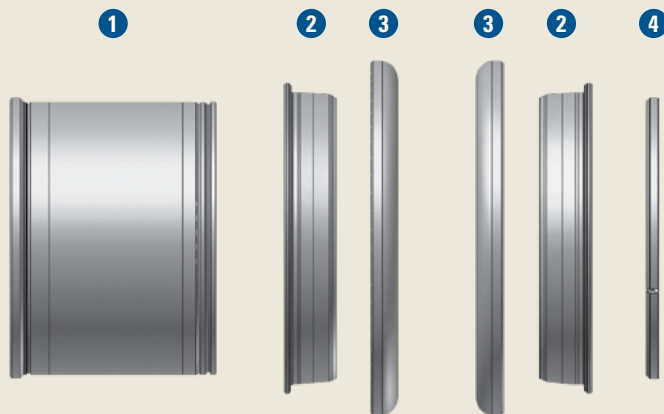
- Wheel (qty. 1)
- Side ring (qty. 2)
- Bead seat (qty. 2)
- Single-piece lock ring (qty. 1)

Each complete Titan OVM 51, 57 and 63 wheel assembly includes:

- Wheel (qty. 1)
- Side ring (qty. 2)
- Bead seat (qty. 2)
- Single-piece lock ring (qty. 1)



## SVM/OVM WHEEL ASSEMBLY



Six-piece design of a QCR

- 1 Wheel (qty. 1)
- 2 Bead seat (qty. 2)
- 3 Side ring (qty. 2)
- 4 Lock ring (qty. 1)



# TITAN SVM/OVM

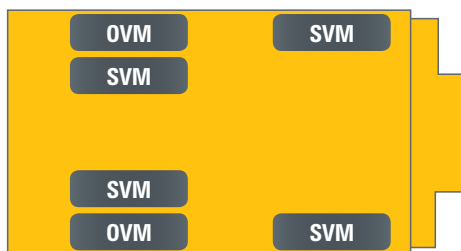
*Save on downtime, money and inventory*

**INNOVATIVE QUICK-CHANGE TECHNOLOGY LETS YOU CHANGE AN INNER DUAL TIRE WITHOUT REMOVING THE OUTER DUAL WHEEL.**

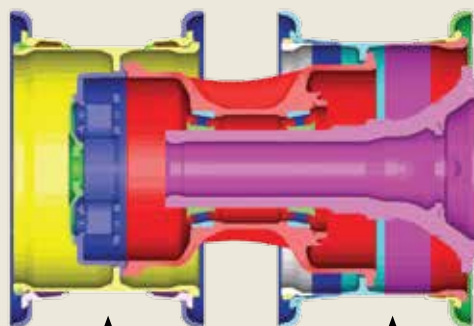
The assembly lets you:

- Maneuver the inner tire over both the outer and inner wheel before fitting it in place
- Eliminate the requirement to torque, re-torque and to use hand tools and extra hardware

## WHEEL POSITIONS



## INTEGRATED LOCK RING IN THE BACK SECTION OF WHEEL

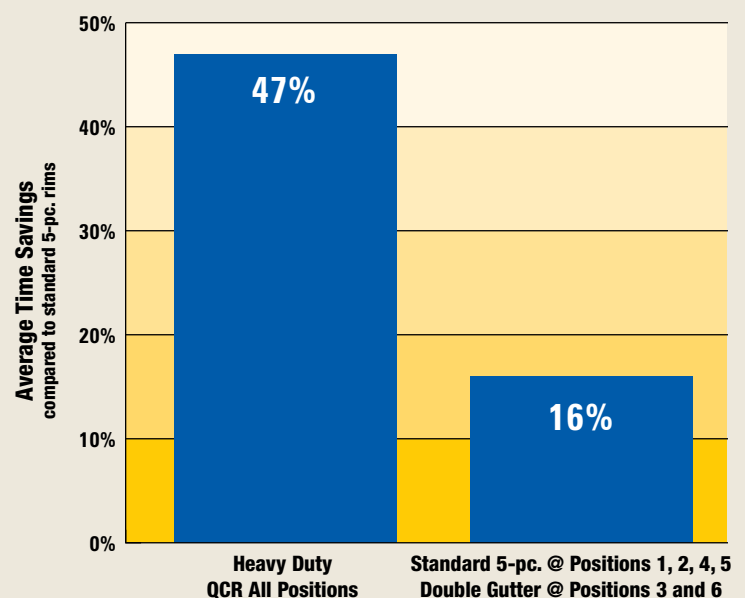


The OVM rim is smaller in diameter than the SVM, allowing the inner tire to pass over the outer rim without having to unbolt the outer rim from the wheel station.

The SVM rim is larger in diameter than the outer rim.

## FIELD REPORT

Field reports show a positive reaction by customers using the Titan Australia QCR System on off-highway trucks. Customers using the Titan Australia QCR System have reported significant improvements in productivity by decreasing haul truck downtime for tire servicing, while improving safety for the tire service personnel. The difference between the standard rims and the Titan Australia QCR System is significant on a mine site operation. In as little as 12 months, a customer can measure improvements in uptime of the haul truck fleet. Customer tests indicate that by using the Titan Australia QCR System, tire servicing times can improve by greater than 50 percent, combined with improved service personnel safety standards and reduced occurrence of fatigue and injuries associated with tire service job functions. The following graph summarizes the average time savings using the Titan Australia Heavy Duty QCR System compared to other double gutter solutions available in the market.



# UNDERCARRIAGE COMPONENTS

ITM is a world leader in the design, manufacture and distribution of integrated undercarriage solutions. ITM provides the widest range of undercarriage components for earthmoving, construction, mining and agricultural crawler machines as well as for specialized non-standard applications.

## TRACK CHAINS



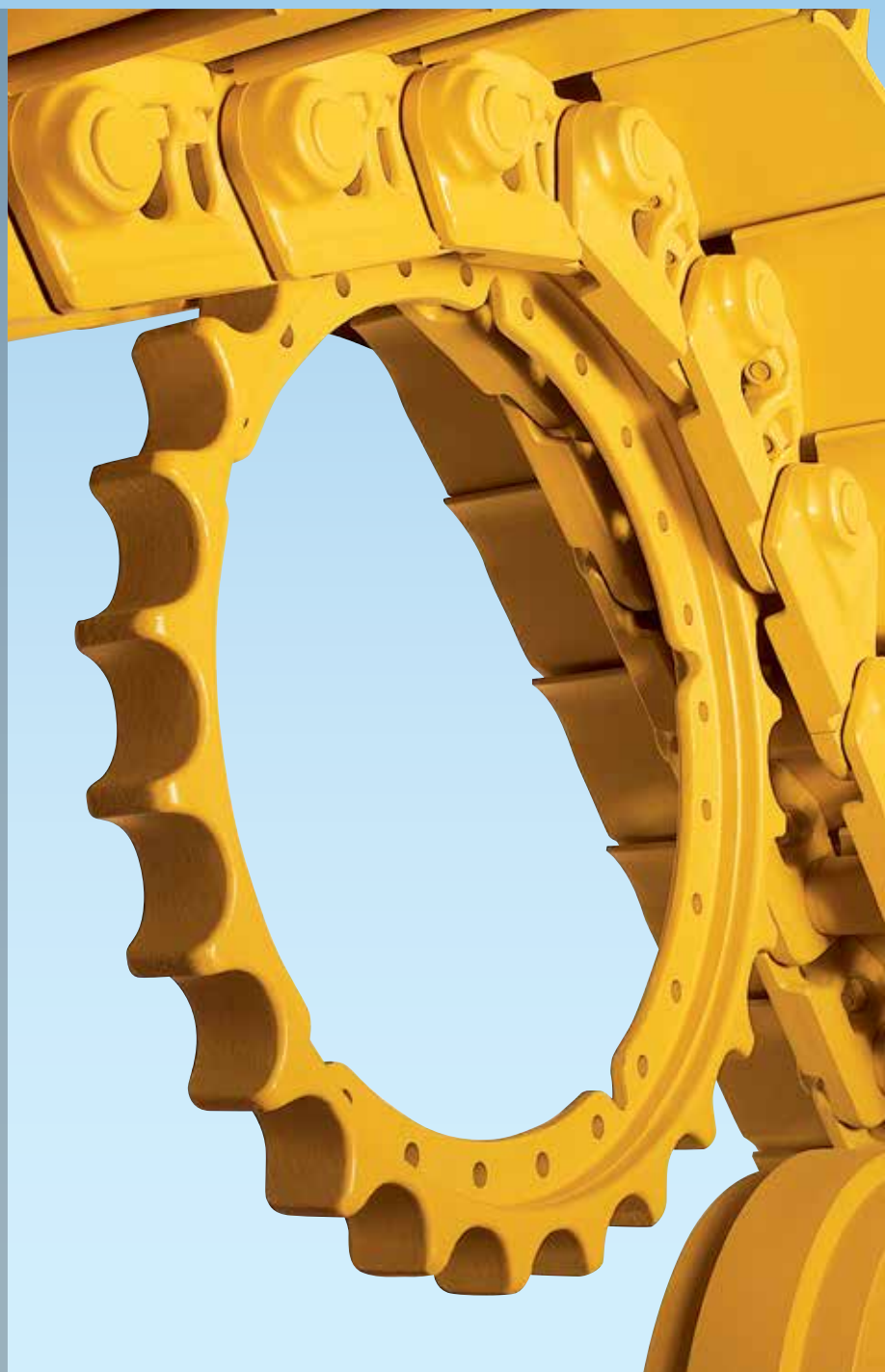
## ROLLERS



## TRACK SHOES



## SPROCKETS AND SEGMENTS



# TRACK CHAINS



- Track chains ranging from link pitch 90 mm to link pitch 350 mm; suitable for almost all types of crawler machine from standard to specialized applications, such as the big conveyors
- Complete range of track chains, from traditional dry track chains, sealed and greased excavator track chains, to lubricated chains for high-performance applications
- New range of “extreme service” chains for mining dozers:
  - New full synthetic oil, ITM Formula, specific for extreme pressures
  - New patented ITM Pin Retention, “IPR”: to avoid relative shifting between pin and link
  - New Plug Retention system “PR”: to protect the plug from aggressive environmental agents
  - New seal groups with special low-friction coatings
- Assembled from high-precision components designed and manufactured to ensure the highest quality, reliability and performance standards





# TRACK SHOES



- Wide range of shoes suitable for chains ranging from link pitch 90 mm to link pitch 350 mm; available in more than 5,000 configurations
- Wide choice of cast shoes with specific steels combined with optimal heat treatments to ensure high mechanical properties of the component; available in various widths up to 2,000 mm
- New steel composition for big shoes obtained from hot rolled profiles guarantee higher core hardness and better wear life
- Rubber or polyurethane vulcanized versions available for road and non-standard special applications
- New range of "super extreme service" shoes for mining dozers:
  - Cast steel, quenched and tempered plus special stress-relieving treatments guarantee high fatigue resistance
  - Special induction hardening ensures superior wear resistance
  - Milling of the contact surfaces with the chain ensures a high-precision shoe assembly and improves the component wear life





## ROLLERS



- Wide choice of single and double flange bottom rollers and carrier rollers suitable for crawler machines ranging from 0.8 to 800 tons; special version rollers for road milling machines, pavers and forestry
- New lubrication oils and bearing systems for rollers as well as innovative technological solutions to improve the running-in phase
- “Duo Cone Sealed” and Lifetime Lubricated for longer life and perfect operation under any working condition
- Development of new hydrodynamic bearings: Their geometry and the research of new materials ensure superior performance with respect to traditional components



## SPROCKETS AND SEGMENTS

- Wide choice of sprockets matching any type of crawler machine application and most common final drive types, from mini-excavators to mining dozers
- Wide range of three- to six-tooth segments suitable for dozer track-type machines ranging from 6 to 100 tons
- Monobloc cast sprockets with special formula steel and optimized casting dies for high quality products. Effective hardened depth resulting in excellent wear resistance and longer life
- Fabricated sprockets with “precision” hot forged segments for most applications and cast segments for large sizes
- Specially machined to guarantee both quality and efficient operation



# MINING SERVICES

Titan Mining Services wants to provide you with the service and tools to ensure you get the full value from the tire. Featuring some of the latest technology, these services can help keep costs down at your site.

## TIRE TRACKING

Titan Mining Services uses EM-Track III Tracking software, an excellent management tool that tracks:

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



# TYRESENSE

TyreSense is a tire pressure monitoring system that uses innovative technology to electronically monitor and display actual running tire pressures and temperatures. TyreSense allows you to determine the best air pressure to keep the tire running coolly and then helps you maintain that pressure. Designed with an understanding that each mine site is unique, TyreSense is fully customizable to each site — big or small. TyreSense provides accurate real-time pressure and temperature data by having a sensor inside the tire. The tire chamber temperature cannot be accurately measured any other way.

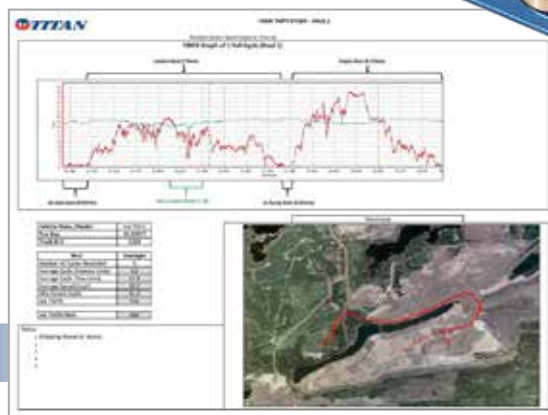
- The system delivers accurate data that you can trust beyond manual readings
- The data that the system provides allows you to efficiently manage your tire service personnel
- The server monitors all of your vehicles and automatically notifies the correct personnel when a condition occurs that requires attention
- The extensive development and engineering of TyreSense makes it easy to get connected and stay connected with your tires



# VBOX MICRO

## WHAT CAN YOU DO WITH THE VBOX MICRO?

- Measure vehicle speed, distance, cycle times and acceleration
- Analyze haul road grades and cornering
- Plot your route on Google Earth
- Obtain job ton mile per hour (TMPH) values to help choose the best tire for your application
- Analyze lateral acceleration to find problem spots on haul roads



VBOX REPORT  
EXAMPLE





## **NO TIRE WORKS WITHOUT THE WHEEL — THEY ARE A TOTAL SYSTEM**

Titan is the only company with the ability to design, test and produce both wheels and tires for mining, agriculture, construction and forestry markets.



### **Titan Tire Customer Care**

PHONE: 1.800.USA-BEAR FAX: 515.265.9379

WEB: [www.titan-intl.com](http://www.titan-intl.com)

Titan Tire Corporation • Des Moines, Iowa

TTMPS 03.13B

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