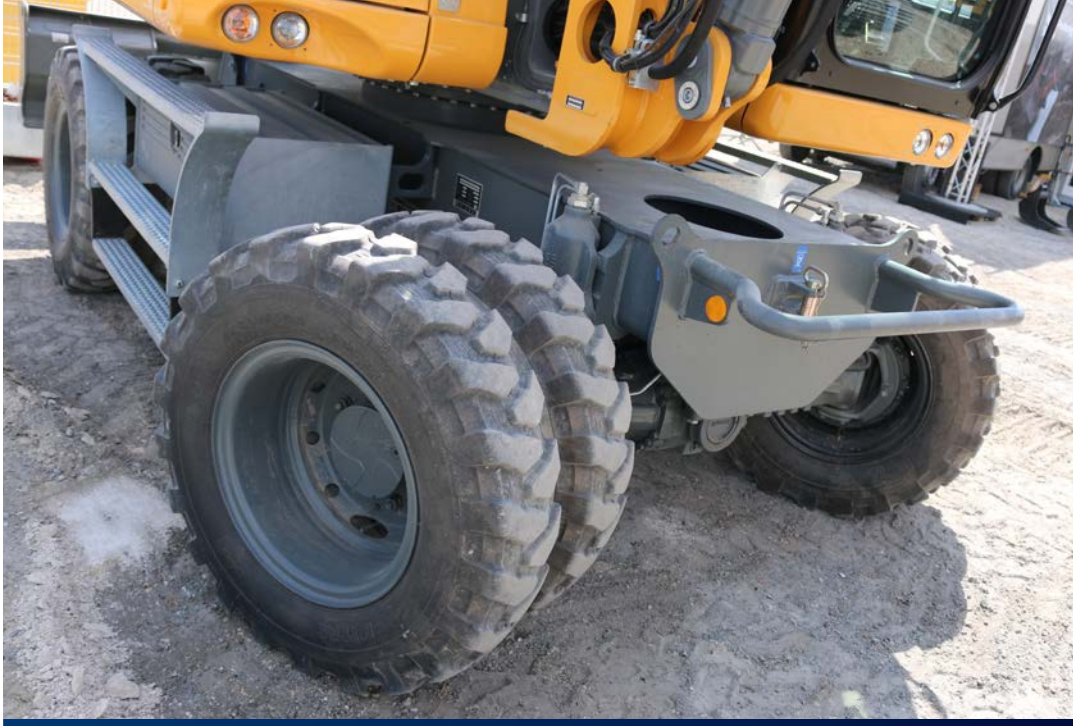
Construction & Material Handling Tyres

Technical Catalogue

Edition 2020/2021

mitas-tyres.com

Mitas



Mitas Technical Catalogue for Construction & Material Handling Tyres – Edition 2020 / 2021

The extensive technical data and other information relating to tyres and accessories on the following pages has been compiled to reflect as accurately and completely as possible the current state of development. Due to changes in our product range the tyre sizes given in this guide are not always identical to our available range.

Mitas, part of Trelleborg group, is one of Europe´s leading tyre brands for agricultural machines, construction vehicles, material handling equipment, motorcycles and other specialty segments. Mitas tyres are being produced in the Czech Republic, the United States, Serbia, Slovenia, Sri Lanca and promoted through a global sales and distribution network.

For further information please contact us:

Trelleborg Wheel Systems Czech Republic a.s.
Švehlova 1900/3, 106 00 Prague 10, Czech Republic

Contents

Legend:

Earthmover Tyres Page 12 | Crane Tyres Page 44 | Multipurpose Tyres Page 48

Tractor Industrial Tyres Page 58

Skid Steer Tyres Page 74

Material Handling Tyres Page 80

List of tyre sizes

Size (inch)	Tyre size (Alternative tyre size)	Tread pattern	Page
EM Radial Tyres			
18"	335/80 R 18 (12.5 R 18)	EM-02	14
	365/70 R 18	EM-01	14
	405/70 R 18 (16/70 R 18)	EM-01	14
20"	335/80 R 20 (12.5 R 20)	EM-01	14
	365/80 R 20 (14.5 R 20)	EM-01	14
	405/70 R 20 (16/70 R 20)	EM-01	14
24"	405/70 R 24 (16/70 R 24)	EM-01	16
	440/70 R 24 (17.5L R 24)	EM-02	16
	500/70 R 24	EM-01	16
EM Diagonal Tyres			
24"	20 - 24 (22/70 - 24)	EM-70	20
25"	15.5 - 25	EM-20	20
	15.5 - 25	EM-60	20
	15.5 - 25	EM-80	20
	17.5 - 25	EM-20	20
	17.5 - 25	EM-30	20
	17.5 - 25	EM-60	20
	18.00 - 25	NB 38	22
	20.5 - 25	EM-20	22
	20.5 - 25	EM-30	22
	20.5 - 25	EM-60	22
	23.5 - 25	EM-20	22
	23.5 - 25	EM-30	22
	23.5 - 25	EM-60	22
	26.5 - 25	EM-30	24
	26.5 - 25	EM-60	24
29"	26.5 - 29	NB-57	24
Light Equipment Diagonal Tyres			
18"	280/80 - 18 (10.5-18)	MPT-01	28
	10.5 - 18	MPT-02	28
	340/80 - 18 (12.5-18)	MPT-01	28
19.5"	18 - 19.5	MPT-02	28
	18 - 19.5	MPT-03	30
	18 - 19.5	MPT-06	30
	18 - 19.5	MPT-08	30
20"	10.5 - 20	MPT-04	30
	340/80 - 20 (12.5-20)	MPT-01	30
	16/70 - 20 (405/70-20)	MPT-02	30
	405/70 - 20 (16/70-20)	MPT-01	32
24"	405/70 - 24 (16/70-24)	MPT-01	32
	405/70 - 24	MPT-04	32
Excavator Tyres			
20"	8.25 - 20	NB 38	36
	8.25 - 20	NB 38 Extra ML	36
	9.00 - 20	NB 38	36
	9.00 - 20	NB 38 Extra ML	36
	9.00 - 20	EM-22	36
	10.00 - 20	NB 38	36

Size (inch)	Tyre size (Alternative tyre size)	Tread pattern	Page
	10.00 - 20	NB 38 Extra ML	36
	10.00 - 20	EM-22	36
	10.00 - 20	EM-23	36
	11.00 - 20	NB 38	36
	11.00 - 20	EM-22	36
	500/45 - 20	TI-12	36
22.5"	315/80 R 22.5	EX-01	36
	500/60 - 22.5	TI-12	36
	600/40 - 22.5	TI-12	36
Roller & Tractor Grader Tyres			
15"	9.5/65 - 15	COMPACTOR	40
16"	10.5/80 - 16	COMPACTOR	40
	11.00 - 20	COMPACTOR	40
	11.00 - 20	COMP. EXTRA	40
	11.00 - 20	COMP. SMOOTH	40
	11.00 R 20	COMPACTOR	40
	13/80 R 20	COMPACTOR	40
24"	13.00 - 24	TG-02	42
	14.00 - 24	TG-02	42
	14.9 - 24 IND	UK 5	42
	16.9 - 24 IND	UK 10	42
26"	23.1 - 26 IND	UK 5	42
	23.1 - 26 IND	UK 10	42
Crane Radial Tyres			
25"	335/95 R 25	CR-01	46
	445/95 R 25	CR-01	46
	445/95 R 25	CR-02	46
	525/80 R 25	CR-01	46
Multipurpose Radial Tyres			
18"	335/80 R 18 (12.5 R 18)	EM-02	50
20"	335/80 R 20 (12.5 R 20)	MPT-20	50
	335/80 R 20 (12.5 R 20)	MPT-21	50
	365/80 R 20 (14.5 R 20)	MPT-20	50
	365/80 R 20 (14.5 R 20)	MPT-21	50
	405/70 R 20 (16/70 R 20)	MPT-21	50
22.5"	275/90 R 22.5	SRT2	52
	375/75 R 22.5	MPT-23	52
24"	405/70 R 24 (16/70 R 24)	MPT-21	52
	445/70 R 24 (17.5L R 24)	MPT-22	52
Multipurpose Diagonal Tyres			
18"	12.5 - 18	MPT-03	56
20"	10.5 - 20	MPT-05	56
	10.5 - 20	MPT-07	56
	12.5 - 20	MPT-03	56
	12.5 - 20	MPT-05	56
	14.5 - 20	MPT-03	56
	14.5 - 20	MPT-05	56
	16/70 - 20 (405/70 - 20)	MPT-05	56
	405/70 - 20 (16/70 - 20)	MPT-03	56

Size (inch)	Tyre size (Alternative tyre size)	Tread pattern	Page
Tractor Industrial Radial Tyres			
18"	340/80 R 18 IND	TI-20	60
24"	460/70 R 24 IND (17.5L R 24)	TI-22	60
26"	480/80 R 26 IND	TI-20	60
28"	440/80 R 28 IND	TI-20	60
Construction Applications Diagonal Tyres			
18"	320/80 - 18 IND (12.5/80-18)	TR-09	64
	340/80 - 18 IND (12.5-18)	MPT-04	66
20"	280/80 - 20 IND (10.5-20)	MPT-04	66
	340/80 - 20 IND (12.5-20)	MPT-04	66
	360/85 - 20 IND (14.5-20)	MPT-04	66
	400/70 - 20 IND (16.0/70-20)	MPT-04	66
	400/75 - 20 IND (16.0/70-20)	TR-09	64
22.5"	480/65 - 22.5 IND (18-22.5)	MPT-06	66
24"	400/70 - 24 IND	MPT-04	66
	400/80 - 24 IND (15.5/80-24)	TI-05	68
	16.9 - 24 IND	TI-04	68
	16.9 - 24	TG-01	68
	17.5L - 24 IND	TI-02	68
	460/70 - 24 IND (17.5L-24)	TI-05	70
	19.5L - 24 IND	TI-05	70
	19.5L - 24 IND	GRIP-n-RIDE	70
	500/70 - 24 IND (19.5L-24)	TI-05	70
	21L - 24 IND	GRIP-n-RIDE	70
26"	18.4 - 26 IND	TI-06	70
28"	16.9 - 28 IND	TI-06	70
	16.9 - 28	TG-01	70
30"	440/80 - 30 IND (16.9-30)	TI-09	72
Skid Steer Diagonal Tyres			
12"	23×8.50 - 12	SK-02	76
15"	27×8.50 - 15	SK-02	76
	27×10.50 - 15	SK-02	76
	31×15.50 - 15	SK-02	76
15.3"	10.0/75 - 15.3	SK-01	76
16.5"	10 - 16.5	SK-02	78
	10 - 16.5	SK-05	78
	10 - 16.5	BIG BOY	78
	12 - 16.5	SK-02	78
	12 - 16.5	SK-05	78
	12 - 16.5	BIG BOY	78
17.5"	14 - 17.5 IND	TR-10	78
18"	10.5/80 - 18	BIG BOY	78
	12.5/80 - 18	BIG BOY	78

Size (inch)	Tyre size (Alternative tyre size)	Tread pattern	Page
Material Handling Diagonal Tyres			
8"	4.00 - 8	FL-03	86
	4.00 - 8	FL-08	82
	15×4.5 - 8	FL-08	82
	5.00 - 8	FL-03	86
	5.00 - 8	FL-08	82
	16×6 - 8 (150/75-8)	FL-08	82
	18×7 - 8 (180/70-8)	FL-08	82
9"	6.00 - 9	FL-08	82
	21×8 - 9 (200/75-9)	FL-08	82
10"	6.50 - 10	FL-08	82
	7.50 - 10	FL-08	82
	23×9 - 10 (225/75-10)	FL-08	82
12"	7.00 - 12	FL-08	82
	23×10 - 12	FL-08	82
	27×10 - 12 (250/75-12)	FL-08	82
13"	23 × 5	FL-07	86
15"	7.00 - 15	FL-08	82
	7.50 - 15	FL-08	82
	8.15 - 15 (28×9-15)	FL-08	82
	8.25 - 15	FL-08	82
	250 - 15 (250/70-15)	FL-08	82
	28×12.5 - 15	FL-08	82
	300 - 15 (315/70-15)	FL-08	82

Tyre size marking

440/70 R 24	
440	Nominal section width (in mm)
70	Aspect ratio H/SW (in %)
R	Radial construction
24	Nominal rim diameter (in inches)

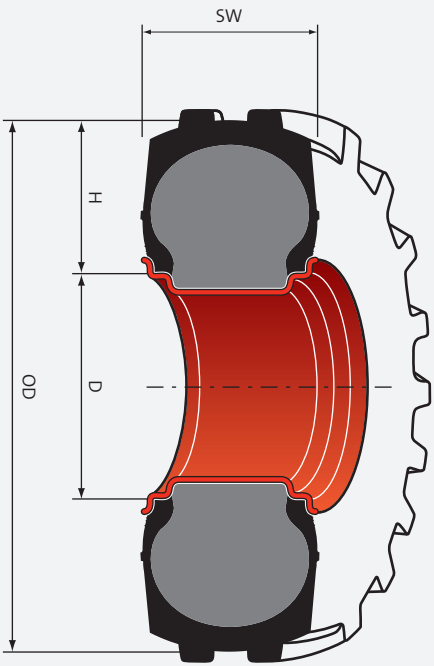
16/70-20	
16	Nominal section width (in inches)
70	Aspect ratio H/SW (in %)
–	Cross-ply construction
20	Nominal rim diameter (in inches)

27×8.50-12	
27	Overall diameter (in inches)
8.5	Nominal section width (in inches)
–	Cross-ply construction
12	Nominal rim diameter (in inches)

17.5 L–24	
17.5	Nominal section width (in inches)
L	Reduced aspect ratio
–	Cross-ply construction
24	Nominal rim diameter (in inches)

12.5-18	
12.5	Nominal section width (in inches)
–	Cross-ply construction
18	Nominal rim diameter (in inches)

23×5	
23	Overall diameter (in inches)
5	Nominal section width (in inches)



SW **Section width**
OD **Overall diameter**
H **Section height**
D **Rim diameter**

Speed symbols and conversion tables

Speed category

Speed symbol	A1	A2	A3	A4	A5	A6	A7	A8	B	D	F	G	J	K
Speed (km/h)	5	10	15	20	25	30	35	40	50	65	80	90	100	110

Pressure units conversion table

bar	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5
kPa	100	150	200	250	300	350	400	450	500	550
p.s.i.	15	22	29	36	44	51	58	65	73	80

bar	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5
kPa	600	650	700	750	800	850	900	950	1 000	1 050
p.s.i.	87	94	102	109	116	123	131	138	145	152

Units conversion table

Length
1 milimeter (mm) = 0.03937"
1 inch (") = 25.4 mm = 0.0254 m
1 meter (m) = 3.281 ft
1 foot (ft) = 0.3048 m
1 kilometer (km) = 0.6214 mile
1 mile = 1 609 m = 1.609 km

Mass
1 pound (lb) = 0.4536 kg
1 kilogram (kg) = 2.205 lb

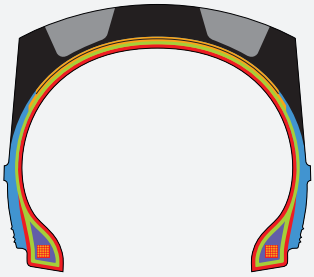
Volume
1 litre (l) = 0.21 gall
1 imperial gallon (imp.gal) = 4.55 l

Pressure
1 p.s.i. (lb/in^2) = 6.895 kPa
1 kg/cm^2 = 98.066 kPa
1 bar = 100 kPa

Tyre sidewall marking

Sign	Meaning
MITAS	Trademark of producer
440/70 R 24	Tyre size marking
17.5 L R 24	Alternative size marking
EM-02	Tread pattern code
147	Load index (LI 147 = 3 075 kg)
B	Speed symbol (B = 50 km/h)
164	Load index (LI 164 = 5 020 kg)
A2	Speed symbol (A2 = 10 km/h)
TUBELESS	Tubeless tyre
	Direction of rotation

Tyre structure



Tread Pattern
Breaker Cord
Inner Liner
Carcass Cord
Sidewall
Apex
Bead Wire

BIAS (DIAGONAL, CROSS-PLY) TYRE

A pneumatic tyre in which the ply cords extend to the beads and are laid substantially at alternate angles less than 90° to the centre-line of the tread.

RADIAL PLY TYRE

A pneumatic tyre in which the ply cords extend to the beads and are laid substantially at 90° to the centre-line of the tread, the carcass being stabilised by an essentially inextensible circumferential belt.

Load index

LI	kg
80	450
81	462
82	475
83	487
84	500
85	515
86	530
87	545
88	560
89	580
90	600
91	615
92	630
93	650
94	670
95	690
96	710
97	730
98	750
99	775
100	800
101	825
102	850
103	875
104	900
105	925
106	950

LI	kg
107	975
108	1 000
109	1 030
110	1 060
111	1 090
112	1 120
113	1 150
114	1 180
115	1 215
116	1 250
117	1 285
118	1 320
119	1 360
120	1 400
121	1 450
122	1 500
123	1 550
124	1 600
125	1 650
126	1 700
127	1 750
128	1 800
129	1 850
130	1 900
131	1 950
132	2 000
133	2 060

LI	kg
134	2 120
135	2 180
136	2 240
137	2 300
138	2 360
139	2 430
140	2 500
141	2 575
142	2 650
143	2 725
144	2 800
145	2 900
146	3 000
147	3 075
148	3 150
149	3 250
150	3 350
151	3 450
152	3 550
153	3 650
154	3 750
155	3 875
156	4 000
157	4 125
158	4 250
159	4 375
160	4 500

LI	kg
161	4 625
162	4 750
163	4 875
164	5 000
165	5 150
166	5 300
167	5 450
168	5 600
169	5 800
170	6 000
171	6 150
172	6 300
173	6 500
174	6 700
175	6 900
176	7 100
177	7 300
178	7 500
179	7 750
180	8 000
181	8 250
182	8 500
183	8 750
184	9 000
185	9 250
186	9 500
187	9 750

LI	kg
188	10 000
189	10 300
190	10 600
191	10 900
192	11 200
193	11 500
194	11 800
195	12 150
196	12 500
197	12 850
198	13 200
199	13 600
200	14 000
201	14 500
202	15 000
203	15 500
204	16 000
205	16 500
206	17 000
207	17 500
208	18 000
209	18 500
210	19 000

Universal application

EM-01

TRACTION	■■■■□
SERVICE LIFE	■■■■■
RESISTANCE	■■■■■
RIDING COMFORT	■■■■■
RETRETHREADING	■■■■□

Excellent traction

EM-02

TRACTION	■■■■■
SERVICE LIFE	■■■■□
RESISTANCE	■■■■□
RIDING COMFORT	■■■■■
RETRETHREADING	■■■■■

EM radial series
Ready to move the Earth

EM-01

Non-directional tread pattern for **all-round application**.

Suitable above all for front loaders, telescopic loaders, backhoe loaders, dumpers and similar vehicles **for light earthmoving work**.

All steel radial construction.

Tyre size	EM-01	EM-02
335/80 R 18 (12.5 R 18)		•
365/70 R 18	•	
405/70 R 18 (16/70 R 18)	•	
335/80 R 20 (12.5 R 20)	•	
365/80 R 20 (14.5 R 20)	•	
405/70 R 20 (16/70 R 20)	•	
405/70 R 24 (16/70 R 24)	•	
440/70 R 24 (17.5 L R 24)		•
500/70 R 24 IND	•	

EM-02

Tread pattern with **good traction** properties.

Excellent durability.

Suitable above all for backhoe loaders, wheeled loaders, telescopic handlers and similar vehicles for **light service**.

Also suitable for **agricultural application**.

EM radial series

Technical data and load capacities

Tyre size	Tread pattern Type	Rim (permitted)	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)	Tread depth (mm)	
			Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)				
335/80 R 18 (12.5 R 18)	EM-02 TL	11×18	993	339	1 025	354	448	2 990	25	
365/70 R 18	EM-01 TL	11×18 (12×18)	969	360	1 000	400	437	2 915	20	
405/70 R 18 (16/70 R 18)	EM-01 TL	13×18	1 025	407	1 070	452	462	3 085	20	
335/80 R 20 (12.5 R 20)	EM-01 TL	11×20 (12×20)	1 044	339	1 076	366	470	3 140	20	
365/80 R 20 (14.5 R 20)	EM-01 TL	11×20 (12×20)	1 092	360	1 127	400	489	3 285	20	
405/70 R 20 (16/70 R 20)	EM-01 TL	13×20 (11; 12×20)	1 076	407	1 121	452	487	3 240	20	


EM-01


EM-02

Service description LI / SS Transport / Loading	Tyre load capacity (kg) at speed (km/h)						Tyre pressure (bar)
	0	10	20	30	40	50	
	2 526	1 579	1 371	1 254	1 137	1 098	1.4
	3 347	2 092	1 817	1 661	1 505	1 451	2.0
	3 888	2 430	2 102	1 926	1 744	1 684	2.4
	4 659	2 912	2 544	2 319	2 110	2 025	3.0
139 B/151 A2	5 520	**3 450**	3 036	2 760	2 540	**2 430**	**3.8**
	2 395	1 515	1 221	1 177	1 140	1 110	1.5
	2 990	1 885	1 518	1 463	1 415	1 380	2.0
	3 440	2 135	1 689	1 627	1 570	1 535	2.5
	3 970	2 470	1 958	1 887	1 820	1 780	3.0
	4 505	2 795	2 222	2 141	2 070	2 020	3.5
135 B/146 A2	4 800	**3 000**	2 398	2 311	2 250	**2 180**	**3.8**
	2 745	1 705	1 315	1 267	1 240	1 195	1.5
	3 470	2 165	1 689	1 627	1 580	1 535	2.0
	4 170	2 590	2 019	1 945	1 890	1 835	2.5
	4 850	3 015	2 343	2 258	2 195	2 130	3.0
	5 520	3 430	2 651	2 555	2 490	2 410	3.5
141 B/153 A2	5 850	**3 650**	2 833	2 730	2 650	**2 575**	**3.8**
	5 935	3 710	2 893	2 788	2 715	2 630	4.0
	6 630	4 150	3 262	3 143	3 055	2 965	4.5
	7 265	4 550	3 575	3 445	3 355	3 250	5.0
	7 840	4 910	3 861	3 721	3 620	3 510	5.5
	8 355	5 225	4 081	3 933	3 830	3 710	6.0
156 B/168 A2	8 950	**5 600**	4 400	4 240	4 125	**4 000**	**6.5**
	2 370	1 485	1 188	1 145	1 110	1 080	1.5
	2 970	1 815	1 480	1 426	1 390	1 345	2.0
	3 540	2 210	1 766	1 701	1 650	1 605	2.5
	4 100	2 490	2 030	1 956	1 910	1 845	3.0
	4 650	2 880	2 321	2 237	2 170	2 110	3.5
136 B/147 A2	4 925	**3 075**	2 464	2 374	2 300	**2 240**	**3.8**
	2 750	1 710	1 309	1 261	1 225	1 190	1.5
	3 470	2 185	1 683	1 622	1 575	1 530	2.0
	4 150	2 610	2 002	1 929	1 865	1 820	2.5
	4 840	3 030	2 338	2 253	2 195	2 125	3.0
	5 505	3 440	2 662	2 565	2 480	2 420	3.5
141 B/153 A2	5 850	**3 650**	2 833	2 730	2 650	**2 575**	**3.8**
	2 905	1 800	1 370	1 320	1 280	1 245	1.5
	3 705	2 325	1 771	1 707	1 650	1 610	2.0
	4 455	2 790	2 129	2 051	1 995	1 935	2.5
	5 165	3 230	2 470	2 380	2 295	2 245	3.0
	5 880	3 670	2 822	2 719	2 635	2 565	3.5
143 B/155 A2	6 200	**3 875**	2 998	2 889	2 800	**2 725**	**3.8**

EM radial series (continued)

Technical data and load capacities

Tyre size	Tread pattern Type	Rim (permitted)	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)	Tread depth (mm)	
			Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)				
405/70 R 24 (16/70 R 24)	EM-01 TL	13×24	1 178	407	1 223	452	534	3 545	20	
440/70 R 24 (17.5 L R 24)	EM-02 TL	W 15 L×24	1 250	465	1 299	490	563	3 750	38	
500/70 R 24 IND	EM-01	DW16L×24 DW15L×24	1 310	503	1 338	528	585	3 945	28	


EM-01


EM-02

Service description LI / SS Transport/ Loading	Tyre load capacity (kg) at speed (km/h)						Tyre pressure (bar)
	0	10	20	30	40	50	
	3 155	1 945	1 513	1 458	1 410	1 375	1.5
	3 985	2 470	1 909	1 839	1 790	1 735	2.0
	4 835	2 995	2 310	2 226	2 165	2 100	2.5
	5 630	3 500	2 717	2 618	2 535	2 470	3.0
	6 440	3 985	3 102	2 989	2 930	2 820	3.5
146 B/158 A2	6 800	**4 250**	3 300	3 180	3 100	**3 000**	**3.8**
	4 240	2 650	2 488	2 398	2 330	2 262	1.4
	6 480	4 050	2 728	2 629	2 700	2 480	2.0
	7 072	4 420	2 981	2 873	2 950	2 710	2.4
	7 776	4 860	3 267	3 148	3 240	2 970	3.0
147 B/164 A2	8 032	**5 020**	3 383	3 260	3 350	**3 075**	**3.2**
	4 500	2 930	2 750	2 560	2 360	2 360	1.6
	5 500	3 585	3 250	3 025	2 800	2 800	2.0
	6 500	4 240	3 740	3 490	3 240	3 240	2.4
	8 000	5 220	4 500	4 190	3 905	3 905	3.0
	9 500	6 200	5 200	4 885	4 560	4 560	3.6
164 A8/164 B	10 500	6 850	5 700	5 350	5 000	**5 000**	**4.0**

Excellent traction

EM-20 (NB 38) (L-2)

Tread pattern with excellent traction and self-cleaning properties. Tubeless tyre for construction machinery.

Longer service life

EM-30 (NB 57) (L-3)

Tread pattern with excellent durability and puncture resistance. Suitable for loaders in hard operating conditions.

Universal application

EM-60 (L-3)

Tread pattern designed mainly for heavy construction site machines and other machinery operating in combined conditions. Very good self-cleaning properties.

Excellent traction

EM-70 (E-2/L-2)

Tread pattern with good traction and minimal wheel slip, excellent cushioning, dumping and self-cleaning properties.

Excellent traction

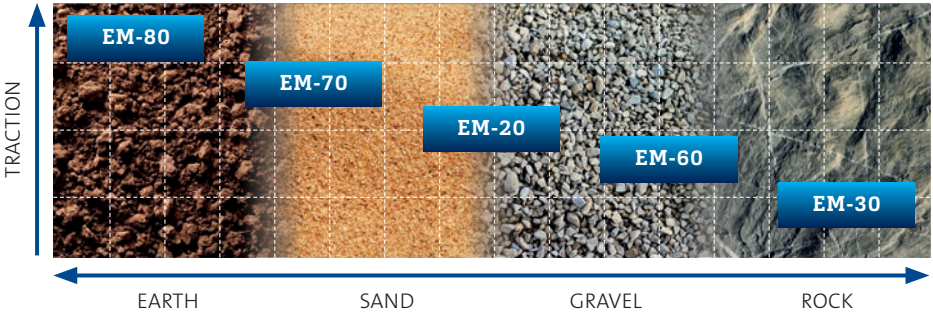
EM-80 (L-2/G-2)

Excellent traction and self-cleaning perfomances. Suitable for telescopic handlers, graders and loaders.

EM diagonal series
Reliable tyres for demanding earthmoving work

Tyre size	EM-20	EM-30	EM-60	EM-70	EM-80
20 - 24 (22/70 - 24)				•	
15.5 - 25	•		•		•
17.5 - 25	•	•	•		
20.5 - 25	•	•	•		
23.5 - 25	•	•	•		
26.5 - 25		•	•		
26.5 - 29		•			
18.00 - 25	•				

Surface suitability chart – EM series



EM diagonal series

Technical data and load capacities

Tyre size	Tread pattern Type	Rim (permitted)	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)	Tread width (mm)	Tread depth (mm)	
			Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)					
20 - 24 (22/70 - 24)	EM-70 TL	16.00 T - 24 SDC	1 390	545	1 452	585	633	4 170	460	28.5	
15.5 - 25	EM-20 TL	12.00/1.3 - 25 (13.00/1.4 - 25)	1 277	394	1 328	437	590	3 857	325	28	
	EM-60 TL	12.00/1.3 - 25 (13.00/1.4 - 25)	1 277	394	1 328	437	590	3 857	355	26	
15.5 - 25	EM-80 TL	12.00/1.3 - 25	1 277	394	1 328	437	550	3 777	352	25.4	
17.5 - 25	EM-20 TL	14.00/1.5 - 25	1 348	445	1 405	494	620	4 063	370	30	
	EM-30 TL	14.00/1.5 - 25	1 348	445	1 405	494	620	4 063	370	30	
	EM-60 TL	14.00/1.5 - 25	1 348	445	1 405	494	620	4 063	392	28	

Contact Mitas for information on other applications of L-2 and L-3 tyres than on wheel loaders, grades, telescopic handlers or dozers.


EM-20 (NB 38)


EM-30 (NB 57)


EM-60


EM-70


EM-80

Tread pattern	Service description LI/SS Loader	Ply rating	Loader service Tyre load capacity (kg) at speed (km/h)			Tyre pressure (bar)
			Static	5	10	
EM-70	173 A2/158 B	12 PR	6 880	4 859	4 300	1.50
			7 520	5 311	4 700	1.75
			8 160	5 763	5 100	2.00
			8 720	6 159	5 450	2.25
			9 280	6 554	5 800	2.50
			9 840	6 950	6 150	2.75
			10 400	7 345	**6 500**	**3.00**
EM-20 **EM-60**	168 A2/149 B	12 PR	6 800	4 803	4 250	2,50
			7 160	5 057	4 475	2,75
			7 480	5 283	4 675	3,00
			7 800	5 509	4 875	3,25
			8 160	5 763	5 100	3,50
			8 560	6 046	5 350	3,75
			8 960	6 328	**5 600**	**4,00**
EM-80	174 A2/151 A8	16 PR	6 800	4 803	4 250	2.50
			7 160	5 057	4 475	2.75
			7 480	5 283	4 675	3.00
			7 800	5 509	4 875	3.25
			8 160	5 763	5 100	3.50
			8 560	6 046	5 350	3.75
			8 960	6 328	5 600	4.00
			9 256	6 537	5 785	4.25
			9 544	6 740	5 965	4.50
			9 840	6 950	6 150	4.75
			10 136	7 159	6 335	5.00
			10 424	7 362	6 515	5.25
			10 720	7 571	**6 700**	**5.50**
EM-20 **EM-30** **EM-60**	177 A2/158 B	16 PR	10 240	7 232	6 400	3.75
			10 640	7 515	6 650	4.00
			11 040	7 797	6 900	4.25
			11 360	8 023	7 100	4.50
			11 680	8 249	**7 300**	**4.75**
EM-20 **EM-60**	188 A2/171 B	22 PR	14 520	10 255	9 075	6.50
			15 280	10 792	9 550	6.75
			16 000	11 300	**10 000**	**7.00**

EM diagonal series (continued)

Technical data and load capacities

Tyre size	Tread pattern Type	Rim (permitted)	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)	Tread width (mm)	Tread depth (mm)	
			Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)					
18.00 - 25	NB 38 TL	13.00/2.5 - 25 (15.00/2.5 - 25)	1 615	498	1 693	553	734	4 840	404	38	
20.5 - 25	EM-20 TL	17.00/2.0 - 25 (17.00/1.7 - 25)	1 492	520	1 561	577	682	4 484	450	38	
	EM-30 TL	17.00/2.0 - 25 (17.00/1.7 - 25)	1 492	520	1 561	577	682	4 484	450	38	
	EM-60 TL	17.00/2.0 - 25 (17.00/1.7 - 25)	1 492	520	1 561	577	682	4 484	470	32	
23.5 - 25	EM-20 TL	19.50/2.5 - 25	1 617	597	1 696	663	734	4 843	530	45	
	EM-30 TL	19.50/2.5 - 25	1 617	597	1 696	663	734	4 843	530	40	
	EM-60 TL	19.50/2.5 - 25	1 617	597	1 696	663	734	4 843	540	40	

Contact Mitas for information on other applications of L-2 and L-3 tyres than on wheel loaders, grades, telescopic handlers or dozers.


EM-20 (NB 38)


EM-30 (NB 57)


EM-60

Tread pattern	Service description LI/SS Loader	Ply rating	Loader service Tyre load capacity (kg) at speed (km/h)			Tyre pressure (bar)
			Static	5	10	
NB 38	199 A2/180 B	28 PR	17 280	12 204	10 800	4.25
			18 400	12 995	11 500	4.75
			18 880	13 334	11 800	5.00
			20 000	14 125	12 500	5.50
			20 480	14 464	12 800	5.75
			20 960	14 803	13 100	6.00
			21 760	15 368	**13 600**	**6.50**
EM-20 EM-30 EM-60	181 A2/167 B	16 PR	8 720	6 159	5 450	1.75
			9 440	6 667	5 900	2.00
			10 080	7 119	6 300	2.25
			10 720	7 571	6 700	2.50
			11 360	8 023	7 100	2.75
			12 000	8 475	7 500	3.00
			12 640	8 927	7 900	3.25
			13 200	9 323	**8 250**	**3.50**
EM-60	186 A2/170 B	20 PR	13 760	9 718	8 600	3.75
			14 240	10 057	8 900	4.00
			14 720	10 396	9 200	4.25
			15 200	10 735	**9 500**	**4.50**
	189 A2/174 B	24 PR	15 616	11 029	9 760	4.75
			16 032	11 323	10 020	5.00
			16 480	11 639	**10 300**	**5.25**
EM-20 EM-30 EM-60	191 A2/177 B	20 PR	12 800	9 040	8 000	2.25
			13 600	9 605	8 500	2.50
			14 400	10 170	9 000	2.75
			15 200	10 735	9 500	3.00
			16 000	11 300	10 000	3.25
			16 800	11 865	10 500	3.50
			17 440	12 317	**10 900**	**3.75**
	199 A2/183 B	28 PR	19 600	13 843	12 250	5.00
			20 640	14 577	12 900	5.25
			21 760	15 368	**13 600**	**5.50**

EM diagonal series (continued)
Technical data and load capacities

Tyre size	Tread pattern Type	Rim (permitted)	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)	Tread width (mm)	Tread depth (mm)	
			Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)					
26.5 - 25	EM-30 TL	22.00/3.0 - 25	1 750	673	1 839	747	791	5 231	605	45	
	EM-60 TL	22.00/3.0 - 25	1 750	673	1 839	747	791	5 231	605	45	
26.5 - 29	NB 57 TL	22.00/3.0 - 29 (24.00/3.0 - 29)	1 851	673	1 940	747	834	5 525	600	45	

Contact Mitas for information on other applications of L-2 and L-3 tyres than on wheel loaders, grades, telescopic handlers or dozers.

Variation in load capacity with speed dependence

Speed (km/h)	0	1	5	10	15	20	25
Load capacity	+60 %	+30 %	+13 %	(0)	−7 %	−12 %	−15 %


EM-30
(NB 57)


EM-60

	Tread pattern	Service description LI/SS Loader	Ply rating	Loader service Tyre load capacity (kg) at speed (km/h)			Tyre pressure (bar)
				Static	5	10	
	EM-30 EM-60	203 A2/188 B	28 PR	20 320	14 351	12 700	3.25
				21 120	14 916	13 200	3.50
				21 760	15 368	13 600	3.75
				22 400	15 820	14 000	4.00
				23 200	16 385	14 500	4.25
				24 000	16 950	15 000	4.50
				24 800	17 515	**15 500**	**4.75**
		206 A2/192 B	32 PR	25 600	18 080	16 000	5.00
				26 400	18 645	16 500	5.25
				27 200	19 210	**17 000**	**5.50**
	NB 57	204 A2/189 B	26 PR	23 200	16 385	14 500	3.75
				24 000	16 950	15 000	4.00
				24 800	17 515	15 500	4.25
				25 600	18 080	**16 000**	**4.50**

Dimensions of “O” rings (mm)

Tyre size	Inside diameter	Section diameter	Circumference
15.5 - 25 **17.5 - 25**	581 ± 2	6.6 ± 0.5	1 825 ± 6
18.0 - 25 **20.5 - 25** **23.5 - 25** **26.5 - 25**	568 ± 2	9.8 ± 0.5	1 784 ± 6
26.5 - 29	655 ± 2	9.8 ± 0.5	2 058 ± 6

Excellent traction

MPT-01

Tread pattern with very good traction and self-cleaning properties. Suitable above all for loader applications.

Universal application

MPT-02

Universal tread pattern for various application with good traction and self-cleaning properties.

Universal application

MPT-03

Universal tread pattern for on- and off-road application with good traction. Suitable for municipal, on road service, agricultural and other special service vehicles.

Effective self-cleaning

MPT-04

Tread pattern with excellent treadwear and durability. Maximum traction capabilities in soft soil.

Enhanced lateral stability

MPT-06

Tread pattern with excellent traction properties and enhanced stability. Especially suitable for telescopic handlers and excavators.

Excellent traction

MPT-08

Robust tread pattern with good traction and perfect stability. Designed especially for excavators and telescopic handlers in hard terrain.

Light equipment diagonal tyres
Proven tread patterns for lighter machinery

Tyre size	MPT-01	MPT-02	MPT-03	MPT-04	MPT-06	MPT-08
280/80-18 (10.5-18)	•					
10.5-18		•				
340/80-18 (12.5-18)	•					
18-19.5		•	•		•	•
10.5-20				•		
340/80-20 (12.5-20)	•					
16/70-20 (405/70-20)		•				
405/70-20 (16/70-20)	•					
405/70-24 (16/70-24)	•					
405/70-24				•		

Light equipment series
Technical data and load capacities

Tyre size	Tread pattern Type	Rim (permitted)	Tube Flap	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)	Tread depth (mm)	
				Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)				
280/80 - 18 (10.5 - 18)	MPT-01 TL	9×18	10 - 18	905	270	927	292	419	2 660	22	
10.5 - 18	MPT-02 TL	9×18	10 - 18	905	270	927	292	419	2 660	20	
340/80 - 18 (12.5 - 18)	MPT-01 TL	11×18 (9×18)	12.5 - 18 12 - 18HS	990	325	1 017	351	455	2 910	25	
18 - 19.5	MPT-02 TL	14.00×19.5 (13.00×19.5)	–	1 080	457	1 121	494	490	3 140	30	

Tread pattern	Service description LI/SS	Ply rating	Tyre load capacity (kg) at speed (km/h)								Tyre pressure (bar)
			Static	10	20	30	40	50	60	65	
MPT-01	130 B		3 271	2 368	1 835	1 687	1 628	1 480			2.25
			3 403	2 464	1 910	1 756	1 694	1 540			2.50
			3 558	2 576	1 996	1 835	1 771	1 610			2.75
			3 757	2 720	2 108	1 938	1 870	1 700			3.00
			3 934	2 848	2 207	2 029	1 958	1 780			3.25
			4 077	2 952	2 288	2 103	2 030	1 845			3.50
			4 199	3 040	2 356	2 166	2 090	**1 900**			**3.75**
	140 B		4 530	3 280	2 540	2 330	2 250	2 050			4.50
			4 860	3 520	2 720	2 500	2 420	2 200			5.00
			5 190	3 760	2 910	2 670	2 580	2 350			5.50
			5 525	4 000	3 100	2 850	2 750	**2 500**			**6.00**
MPT-02	129 D	10 PR	3 525	2 327	1 833	1 622	1 495	1 466	1 424	1 410	2.25
			3 700	2 442	1 924	1 702	1 569	1 539	1 495	1 480	2.50
			3 900	2 574	2 028	1 794	1 654	1 622	1 576	1 560	2.75
			4 125	2 723	2 145	1 898	1 749	1 716	1 667	1 650	3.00
			4 250	2 805	2 210	1 955	1 802	1 768	1 717	1 700	3.25
			4 450	2 937	2 314	2 047	1 887	1 851	1 798	1 780	3.50
			4 625	3 053	2 405	2 128	1 961	1 924	1 869	**1 850**	**3.75**
MPT-01	132 B		3 337	2 416	1 872	1 721	1 661	1 510			1.75
			3 602	2 608	2 021	1 858	1 793	1 630			2.00
			3 845	2 784	2 158	1 984	1 914	1 740			2.25
			4 111	2 976	2 306	2 120	2 046	1 860			2.50
			4 287	3 104	2 406	2 212	2 134	1 940			2.75
			4 486	3 248	2 517	2 314	2 233	**2 030**			**3.00**
	135 B		4 652	3 368	2 610	2 400	2 316	2 105			3.25
			4 818	3 488	2 703	2 485	2 398	**2 180**			**3.50**
	145 B		5 350	3 875	3 000	2 760	2 660	2 420			4.00
			5 875	4 255	3 300	3 030	2 925	2 660			4.50
			6 410	4 640	3 595	3 300	3 190	**2 900**			**5.00**
MPT-02	156 B	16 PR	6 133	4 440	3 441	3 164	3 053	2 775			2.75
			6 575	4 760	3 689	3 392	3 273	2 975			3.00
			6 962	5 040	3 906	3 591	3 465	3 150			3.25
			7 348	5 320	4 123	3 791	3 658	3 325			3.50
			7 735	5 600	4 340	3 990	3 850	3 500			3.75
			8 122	5 880	4 557	4 190	4 043	3 675			4.00
			8 509	6 160	4 774	4 389	4 235	3 850			4.25
			8 840	6 400	4 960	4 560	4 400	**4 000**			**4.50**

Light equipment series (continued)
Technical data and load capacities

Tyre size	Tread pattern Type	Rim (permitted)	Tube Flap	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)	Tread depth (mm)	
				Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)				
18 - 19.5	MPT-03 TL	14.00 × 19.5 (13.00 × 19.5)	–	1 080	457	1 121	494	490	3 140	24	
18 - 19.5	MPT-06 TL	14.00 × 19.5 (13.00 × 19.5)	–	1 100	470	1 129	505	508	3 280	30	
	MPT-08 TL	14.00 × 19.5 (13.00 × 19.5)	–	1 100	470	1 129	505	508	3 280	33	
10.5 - 20	MPT-04 TL	9 × 20 (9 - 20SDC)	10.5-20	955	270	977	292	440	2 810	21	
340/80 - 20 (12.5 - 20)	MPT-01 TL	11 × 20 (11;12 - 20SDC)	–	1 040	325	1 067	351	480	3 060	25	
16/70 - 20 (405/70 - 20)	MPT-02 TL	13 × 20 (13 - 20SDC)	–	1 076	407	1 116	440	495	3 165	28	

Tread pattern	Service description LI/SS	Ply rating	Tyre load capacity (kg) at speed (km/h)								Tyre pressure (bar)
			Static	10	20	30	40	50	60	65	
MPT-03			6 383	4 579	3 608	3 191	2 942	2 886	2 803	2 775	2.75
			6 843	4 909	3 868	3 421	3 154	3 094	3 005	2 975	3.00
			7 245	5 198	4 095	3 623	3 339	3 276	3 182	3 150	3.25
			7 648	5 486	4 323	3 824	3 525	3 458	3 358	3 325	3.50
			8 050	5 775	4 550	4 025	3 710	3 640	3 535	3 500	3.75
			8 453	6 064	4 778	4 226	3 896	3 822	3 712	3 675	4.00
			8 855	6 353	5 005	4 428	4 081	4 004	3 889	3 850	4.25
	156 D	16 PR	9 200	6 600	5 200	4 600	4 240	4 160	4 040	**4 000**	**4.50**
MPT-06 MPT-08			3 720	3 120	2 784	2 640	2 400				1.75
			4 108	3 445	3 074	2 915	2 650				2.00
			4 418	3 705	3 306	3 135	2 850				2.25
			4 728	3 965	3 538	3 355	3 050				2.50
			5 038	4 225	3 770	3 575	3 250				2.75
			5 348	4 485	4 002	3 795	3 450				3.00
			5 627	4 719	4 211	3 993	3 630				3.25
			5 890	4 940	4 408	4 180	3 800				3.50
			6 161	5 168	4 611	4 373	3 975				3.75
			6 433	5 395	4 814	4 565	4 150				4.00
			6 704	5 623	5 017	4 758	4 325				4.25
	160 A8	16 PR	6 975	5 850	5 220	4 950	**4 500**				**4.50**
MPT-06			7 363	6 175	5 510	5 225	4 750				4.75
			7 595	6 370	5 684	5 390	4 900				5.00
			7 905	6 630	5 916	5 610	5 100				5.25
	166 A8	–	8 215	6 890	6 148	5 830	**5 300**				**6.00**
MPT-04			3 312	2 376	1 872	1 656	1 526	1 498	1 454	1 440	2.25
			3 496	2 508	1 976	1 748	1 611	1 581	1 535	1 520	2.50
			3 680	2 640	2 080	1 840	1 696	1 664	1 616	1 600	2.75
			3 864	2 772	2 184	1 932	1 781	1 747	1 697	1 680	3.00
			4 071	2 921	2 301	2 036	1 876	1 841	1 788	1 770	3.25
			4 278	3 069	2 418	2 139	1 972	1 934	1 879	1 860	3.50
	131 D	10 PR	4 485	3 218	2 535	2 243	2 067	2 028	1 970	**1 950**	**3.75**
MPT-01			4 442	3 216	2 492	2 291	2 211	2 010			2.75
	133 B		4 619	3 344	2 592	2 383	2 299	**2 090**			**3.00**
			4 818	3 488	2 703	2 485	2 398	2 180			3.25
	136 B		4 995	3 616	2 802	2 576	2 486	**2 260**			**3.50**
MPT-02			5 359	3 845	3 029	2 680	2 470	2 423	2 353	2 330	2.25
			5 739	4 117	3 244	2 869	2 645	2 595	2 520	2 495	2.50
			6 486	4 653	3 666	3 243	2 989	2 933	2 848	2 820	3.00
			6 866	4 925	3 881	3 433	3 164	3 104	3 015	2 985	3.25
	148 D	14 PR	7 245	5 198	4 095	3 623	3 339	3 276	3 182	**3 150**	**3.50**

Light equipment series (continued)
Technical data and load capacities

Tyre size	Tread pattern Type	Rim (permitted)	Tube Flap	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)	Tread depth (mm)	
				Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)				
405/70-20 (16/70-20)	MPT-01 TL	13×20 (13-20SDC)	–	1 076	407	1 116	440	495	3 165	35	
405/70-24 (16/70-24)	MPT-01 TL	13×24 (13-24SDC)	16/70-24	1 178	407	1 218	440	545	3 465	35	
405/70-24	MPT-04 TL	13×24 (13-24SDC)	16/70-24	1 178	407	1 218	440	545	3 465	30	

Variation in load capacity with speed dependence

Speed (km/h)		0	10	20	30	40	50	60	65
Tyre speed category	A8	+55%	+30%	+16%	+10%	(0)	–	–	–
	B	+121%	+60%	+24%	+14%	+10%	(0)	–	–
	D	+130%	+65%	+30%	+15%	+6%	+4%	+1%	(0)


MPT-01


MPT-04

Tread pattern	Service description LI/SS	Ply rating	Tyre load capacity (kg) at speed (km/h)								Tyre pressure (bar)
			Static	10	20	30	40	50	60	65	
MPT-01	149 B	14 PR	5 304	3 840	2 976	2 736	2 640	2 400			2.25
			5 691	4 120	3 193	2 936	2 833	2 575			2.50
			6 431	4 656	3 608	3 317	3 201	2 910			3.00
			6 807	4 928	3 819	3 511	3 388	3 080			3.25
			7 183	5 200	4 030	3 705	3 575	**3 250**			**3.50**
	152 B	16 PR	7 514	5 440	4 216	3 876	3 740	3 400			3.75
			7 846	5 680	4 402	4 047	3 905	**3 550**			**4.00**
MPT-01	152 B	14 PR	7 404	5 360	4 154	3 819	3 685	3 350			3.75
			7 846	5 680	4 402	4 047	3 905	**3 550**			**4.00**
MPT-04	152 B	14 PR	6 115	4 425	3 430	3 155	3 045	2 765			2.00
			6 325	4 580	3 550	3 260	3 150	2 860			2.50
			6 510	4 715	3 655	3 360	3 240	2 945			3.00
			7 020	5 080	3 940	3 620	3 495	3 175			3.50
			7 935	5 680	4 405	4 050	3 905	**3 550**			**4.00**
	156 B	–	8 840	6 400	4 960	4 560	4 400	**4 000**			**4.50**

Excellent traction

EM-22

New generation of tyre for excavators. Modified tread pattern NB 38, giving excellent traction and self-cleaning properties. Wider by about 7% in comparison with NB 38. Suitable above all for high power modern excavators.

Designed for rocky terrain

EM-23

Higher resistance to puncture and tread wear due to higher filling of tread area. Special tread pattern for stony and hard terrain.

Classic design

NB 38

Classic tread pattern profile for universal application with good traction and self-cleaning properties.

Excellent traction

NB 38 Extra ML

Wider tread area in comparison with NB 38 by about 23–25%. Better stability due to wider tread area.

Universal application

EX-01

Non-directional tread pattern for excavators.

Reinforced sidewall especially designed for double mounting.

All steel radial construction.

Excellent traction

TI-12

Tread pattern with excellent traction for flotation tyres, designed above all for powered wheels of agricultural and industrial machines. Applicable for trailed wheels as well.

Excavator tyres – wide range of patterns for various conditions

Tyre size	EM-22	EM-23	NB 38	NB 38 Extra ML	TI-12	EX-01
8.25 - 20			•	•		
9.00 - 20	•		•	•		
10.00 - 20	•	•	•	•		
11.00 - 20	•		•			
500/45 - 20					•	
315/80 - 22.5						•
500/60 - 22.5					•	
600/40 - 22.5					•	

Surface suitability chart – excavator tyres

	Crushed Rock	Gravel	Road	Sand	Loam	Mud
EM-23						
EX-01						
EM-22						
NB 38						
NB 38 Extra ML						
TI-12						

Variation in load capacity with speed dependence – TI-12

500/45 – 20, 500/60 – 22.5, 600/40 – 22.5

Speed (km/h)	0	10	15	20	25	30	35	40	45	50
Load capacity	+65 %	+40 %	+33 %	+26 %	+19 %	+12 %	+5 %	(0)	–5 %	–10 %

Excavator

Technical data and load capacities

Tyre size	Tread pattern Type	Rim (permitted)	Tube Flap	New		Max. in service		Loaded static radius (mm)	Rolling circumference (mm)	Tread width (mm)	
				Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)				
8.25 - 20	NB 38 TT	6.5 - 20 (6.0;7.0 - 20)	8.25 - 20 20/1 eHD	970	234	993	253	462	2 940	185	
	NB 38 Extra ML TT	6.5 - 20 (6.0;7.0 - 20)	8.25 - 20 20/1 eHD	970	234	993	253	462	2 940	220	
9.00 - 20	NB 38 TT	7.0 - 20 (6.5;7.5 - 20)	9.00 - 20 20/1 eHD	1 012	256	1 037	276	481	3 070	190	
	NB 38 Extra ML TT	7.0 - 20 (6.5;7.5 - 20)	9.00 - 20 20/1 eHD	1 012	256	1 037	276	481	3 070	234	
	EM-22 TT	7.0 - 20 (6.5;7.5 - 20)	9.00 - 20 20/1 eHD	1 012	256	1 037	276	481	3 070	203	
10.00 - 20	NB 38 TT	7.5 - 20 (7.0;8.0 - 20)	10.00 - 20 20/2 eHD	1 050	275	1 077	297	498	3 180	215	
	NB 38 Extra ML TT	7.5 - 20 (7.0;8.0 - 20)	10.00 - 20 20/2 eHD	1 050	275	1 077	297	498	3 180	264	
	EM-22	7.5 - 20 (7.0;8.0 - 20)	10.00 - 20 20/2 eHD	1 050	275	1 077	297	498	3 180	230	
	EM-23	7.5 - 20 (7.0;8.0 - 20)	10.00 - 20 20/2 eHD	1 050	275	1 077	297	498	3 180	230	
11.00 - 20	NB 38 TT	8.0 - 20 (7.5 - 20)	11.00 - 20 20/2 eHD	1 080	291	1 109	314	511	3 275	240	
	EM-22 TT	8.0 - 20 (7.5 - 20)	11.00 - 20 20/2 eHD	1 080	291	1 109	314	511	3 275	254	
500/45 - 20	TI-12 TL	16.00 × 20DC	–	980	490	1 030	530	445	2 910	–	
315/80 R 22.5#	EX-01 TL	9.00 × 22.5	–	1 103	325	1 130	345	506	3 400	300	
500/60 - 22.5	TI-12 TL	16.00 × 22.5DC	–	1 192	503	1 234	543	519	3 504	–	
600/40 - 22.5	TI-12 TL	20.00 × 22.5DC	–	1 050	600	1 107	642	473	3 146	–	

In preparation, please contact Mitas for availability.


EM-22


EM-23


NB 38


NB 38 Extra ML


EX-01


TI-12

Tread depth (mm)	Minimal dual spacing (mm)	Tread pattern	Service description LI/SS	Ply rating	Tyre load capacity (kg) at speed (km/h)						Tyre pressure (bar)
					Static	10	20	30	40	50	
18	269	NB 38 NB 38 Extra ML	122 B	14 PR	2 825 2 910 3 000	2 260 2 330 2 400	1 885 1 940 2 000	1 542 1 586 1 635	1 457 1 499 1 545	1 415 1 455 **1 500**	6.00 6.50 **6.75**
18	269										
20	297	NB 38 NB 38 Extra ML EM-22	140 B	14 PR	4 710 4 850 5 000	3 770 3 880 4 000	3 200 3 300 3 400	2 572 2 649 2 725	2 431 2 503 2 575	2 360 2 430 **2 500**	6.50 6.75 **7.00**
20	297										
20	297										
20	316	NB 38 Extra ML	145 B	14 PR	6 380 6 575	4 595 4 735	3 830 3 945	3 117 3 210	2 946 3 033	2 860 **2 945**	6.00 **6.50**
22	316	NB 38 NB 38 Extra ML EM-22 EM-23	146 B	16 PR	6 790 7 000	4 850 5 000	3 880 4 000	3 172 3 270	2 997 3 090	2 910 **3 000**	7.25 **7.50**
20	316										
18	316										
25	335	NB 38 EM-22	148 B	16 PR	6 750 6 990 7 200	4 900 5 050 5 200	4 042 4 180 4 300	3 278 3 390 3 488	3 098 3 203 3 296	3 008 3 110 **3 200**	6.50 7.00 **7.25**
25	335										
32	–	TI-12	160 A8	–	6 831 7 128 7 425	5 795 6 050 6 300	5 215 5 440 5 670	4 640 4 840 5 040	4 140 4 320 **4 500**	3 725 3 890 4 050	5.20 5.60 **6.00**
23	–	EX-01	154 A8		7 770 8 290 8 810	4 630 4 940 5 250	4 170 4 440 4 730	3 700 3 950 4 200	3 310 3 530 3 750	2 980 3 170 3 380	7.50 8.00 **8.50**
35	–	TI-12	152 A8	–	5 264 5 478 5 693 5 858	4 466 4 648 4 830 4 970	4 019 4 183 4 347 4 473	3 573 3 718 3 864 3 976	3 190 3 320 3 450 **3 550**	2 871 2 988 3 105 3 195	2.80 3.00 3.20 **3.60**
35	–	TI-12	169 A8	–	3 201 3 597 3 993 4 373 4 496 4 868 5 198 8 085 8 399 8 696 8 993 9 290 9 570	2 715 3 050 3 390 3 710 3 815 4 130 4 410 6 860 7 125 7 380 7 630 7 880 8 120	2 445 2 745 3 050 3 340 3 435 3 715 3 970 6 175 6 415 6 640 6 865 7 095 7 310	2 175 2 440 2 710 2 970 3 050 3 305 3 530 5 490 5 700 5 900 6 105 6 305 6 495	1 940 2 180 2 420 2 650 2 725 2 950 3 150 4 900 5 090 5 270 5 450 5 630 **5 800**	1 745 1 960 2 180 2 385 2 455 2 655 2 835 4 410 4 580 4 745 4 905 5 065 5 220	1.20 1.50 1.80 2.10 2.20 2.50 2.80 4.50 4.80 5.10 5.40 5.70 **6.00**

COMPACTOR (C-1)

Special tyre for rollers. The same tread pattern for Compactor, Compactor Extra and Compactor Smooth.

Effective self-cleaning

TG-02 (R-4)

Tread pattern with good traction and self-cleaning properties.

Directional stability

UK 5 (R-3)

Tread pattern suitable for industrial and road construction equipment.

Directional stability

UK 10 (R-3)

Tread pattern suitable for industrial and road construction equipment.

Roller & Tractor Grader tyres
Road works specialists

Tyre size	COMP.	TG-02	UK 5	UK 10
9.5/65 - 15	•			
10.5/80 - 16	•			
11.00 - 20	•			
11.00 R 20	•			
13/80 R 20	•			
13.00 - 24		•		
14.00 - 24		•		
14.9 - 24 IND			•	
16.9 - 24 IND				•
23.1 - 26 IND			•	•

Roller & Tractor Grader

Technical data and load capacities

Tyre size	Tread pattern Type	Rim (permitted)	Tube Flap	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)	Mini-mal dual spacing (mm)	
				Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)				
9.5/65 - 15	COMPACTOR TL	15 × 7 JA	–	671	243	685	263	333	2 019	280	
10.5/80 - 16	COMPACTOR TL	16 × 8 LB	–	812	285	830	307	372	2 430	330	
11.00 - 20	COMPACTOR TT	8.0 - 20 (7.5 - 20)	11.00 - 20 20/2 eHD	1 040	290	1 062	314	493	3 150	335	
11.00 - 20	COMPACTOR EXTRA TT	8.0 - 20 (8.5 - 20)	11.00 - 20 20/2 eHD	1 064	294	1 086	314	504	3 225	340	
11.00 - 20	COMPACTOR SMOOTH TT	8.0 - 20 (8.5 - 20)	11.00 - 20 20/2 eHD	1 070	291	1 092	314	507	3 240	335	
11.00 R 20*	COMPACTOR TT	8.0 - 20	11.00 - 20 20/2 eHD	1 069	293	1 097	316	–	3 210	352	
13/80 R 20*	COMPACTOR TT	9.0 - 20	13/80 - 20	1 050	322	1 072	348	–	3 150	387	

* All steel radial construction

COMPACTOR

	Service description LI / SS	Ply rating	Tyre load capacity (kg) at speed (km/h)						Tyre pressure (bar)
			Static	5	8	10	15	25	
		6 PR	1 700	1 200		1 060			2.50
			1 970	1 400		1 230			3.00
			2 100	1 500		**1 315**			**3.25**
		6 PR	2 160	1 540		1 350			2.00
			2 600	1 850		1 620			2.50
			3 000	2 140		**1 875**			**3.00**
					1 400		1 350		2.00
					2 020		1 900		3.00
					2 640		2 480		4.00
					3 240		3 000		5.00
					3 800		3 500		6.00
					4 350		4 000		7.00
					4 900		4 500		8.00
	164 A3	16 PR			5 480		**5 000**		**9.00**
					6 000				10.00
			7 984			4 990			6.25
			8 272			5 170			6.55
			8 488			5 305			6.90
			8 712			5 445			7.25
			9 000			5 625			7.60
			9 216			5 760			8.00
	170 A2	18 PR	9 600			**6 000**			**8.30**
			6 109			3 818		3 320	7.25
			6 311			3 945		3 430	7.60
			6 468			4 042		3 515	8.00
			6 624			4 140		3 600	8.30
	156 A5	18 PR	7 360			4 600		**4 000**	**10.00**
						1 500	1 200		1.50
						1 900	1 525		2.00
						2 250	1 800		2.50
						2 625	2 100		3.00
						2 950	2 375		3.50
						3 300	2 625		4.00
						3 925	3 150		5.00
						4 550	3 650		6.00
	157 A3	–				5 150	**4 125**		**7.00**
						2 520	2 240		3.00
						3 100	2 760		4.00
						3 660	3 260		5.00
						4 260	3 790		6.00
						4 840	4 310		7.00
						5 420	4 820		8.00
	164 A3	–				5 710	**5 000**		**8.50**
						6 000			9.00

Roller & Tractor Grader (continued)

Technical data and load capacities

Tyre size	Tread pattern Type	Rim (permitted)	Tube Flap	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)	Tread depth (mm)	
				Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)				
13.00 - 24	TG-02 TT/TL	8.00TG SDC (9.00/1.5 (DC))	13.00 - 24	1 278	333	1 318	360	579	3 770	25	
14.00 - 24	TG-02 TT/TL	8.00TG SDC (10.00 VA SDC)	14.00 - 24	1 348	362	1 392	391	608	3 975	25	

Tyre size	Tread pattern Type	Rim (permitted)	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)	Tread depth (mm)	
			Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)				
14.9 - 24 IND	UK 5 TL	W 13 × 24	1 250	395	1 285	425	580	3 710	18	
16.9 - 24 IND	UK 10 TL	W 15 L × 24	1 308	442	1 335	464	579	3 729	22	
23.1 - 26 IND	UK 5 TL	DW 20 A × 26	1 580	587	1 635	634	750	4 660	20	
	UK 10 TL	DW 20 A × 26	1 580	587	1 635	634	750	4 660	30	


TG-02


UK 5


UK 10

	Service description LI / SS	Ply rating	Tyre load capacity (kg) at speed (km/h)					Tyre pressure (bar)
			5	10	15	25	40	
			3 502	3 090	2 760	2 287	2 060	2.00
			4 012	3 540	3 162	2 620	2 360	2.50
	143 A8	12 PR	4 633	4 088	3 652	3 025	**2 725**	**3.00**
			5 049	4 455	3 980	3 297	2 970	3.25
			5 653	4 988	4 456	3 691	3 325	3.50
	153 A8	16 PR	6 205	5 475	4 891	4 052	**3 650**	**3.75**

	Tread pattern	Service descrip-tion LI / SS	Ply rating	Tyre load capacity (kg) at speed (km/h)							Tyre pressure (bar)
				Static	10	10 cyclic	20	30	40	50	
	UK 5			3 265	1 775	2 130	1 935	1 477	1 420	1 292	1.20
				3 565	1 938	2 325	2 112	1 612	1 550	1 411	1.40
				3 865	2 100	2 520	2 289	1 747	1 680	1 529	1.60
		128 A8	8 PR	4 140	2 250	2 700	2 453	1 872	**1 800**	1 638	**1.80**
	UK 10			4 140	2 250	2 700	2 160	1 925	1 800	1 640	1.30
				4 395	2 390	2 865	2 350	2 045	1 910	1 738	1.50
		129 B	8 PR	4 635	2 520	3 024	2 480	2 155	2 016	**1 850**	**1.70**
	UK 5			7 865	4 275	5 130	3 730	3 555	3 420	3 110	1.20
				8 625	4 690	5 625	4 090	3 900	3 750	3 415	1.40
				9 405	5 115	6 135	4 460	4 255	4 090	3 720	1.60
		158 A8	10 PR	9 775	5 315	6 375	4 635	4 420	**4 250**	3 870	**1.70**
	UK 5 **UK 10**	162 A8	12 PR	10 925	5 940	7 125	5 180	4 940	**4 750**	4 325	**1.90**

CR-01

TRACTION	▬▬▬▬▬
SERVICE LIFE	▬▬▬▬▬
RESISTANCE	▬▬▬▬▬
SPEED	▬▬▬▬▬
COMFORT	▬▬▬▬▬

CR-02

TRACTION	▬▬▬▬▬
SERVICE LIFE	▬▬▬▬▬
RESISTANCE	▬▬▬▬▬
SPEED	▬▬▬▬▬
COMFORT	▬▬▬▬▬

CR-01 and CR-02 – new generation of crane tyre for improved productivity

CR-01 – Open tread block design for excellent traction and easy self-cleaning in off-road application. Deepest tread pattern in category.

CR-02 – High operating economy on the road thanks lower rolling resistance.

Better performance due to high maximum **speed up to 85 km/h**.

Reduced fuel consumption thanks to all-steel construction improving rolling resistance.

Improved operator comfort and **low noise emissions** in road high speed service.

Regroovable and suitable for retreading thanks to high durability of carcass.

Homologated as M+S and meets requirements for **winter conditions**.

Fully homologated according to EU Directives 92/93, 2001/43 and 2005/11 (noise homologation).

CR series

Technical data and load capacities

Tyre size	Tread pattern Type	Rim (permitted)	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)	Tread depth (mm)	
			Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)				
385/95 R 25	CR-01 TL	9.50/1.7 CR-25 (10.00/1.5-25)	1 369	379	1 415	409	633	4 295	23	
445/95 R 25	CR-01 TL	11.00/1.7CR-25 (11.25/2.0-25) (11.00/1.7CR×25)	1 480	440	1 570	483	688	4 504	26	
	CR-02 TL	11.00/1.7CR-25 (11.25/2.0-25) (11.00/1.7CR×25)	1 473	440	1 549	475	686	4 506	23	
525/80 R 25	CR-01 TL	17.00/1.7CR-25 (17.00/2.0-25)	1 475	530	1 542	588	679	4 450	28	

Dimensions of “O” rings (mm)

Tyre size	Inside diameter	Section diameter	Circumference
385/95 R 25	568 ± 2	9.8 ± 0.5	1 784 ± 6
445/95 R 25			
525/80 R 25			


CR-01


CR-02

	Service description LI / SS	Tyre load capacity (kg) at speed (km/h)												Tyre pressure (bar)
		Static	5	10	20	30	40	50	60	70	80	85	90	
		9 750	8 190	7 175	5 850	4 875	4 485	4 370	4 290	4 095	3 900			5.0
		11 250	9 450	8 280	6 750	5 625	5 175	5 040	4 950	4 725	4 500			6.0
		12 500	10 500	9 200	7 500	6 250	5 750	5 600	5 500	5 250	5 000			7.0
		13 750	11 550	10 120	8 250	6 875	6 325	6 160	6 050	5 775	5 500			8.0
	170 F	15 000	12 600	11 040	9 000	7 500	6 900	6 720	6 600	6 300	**6 000**			**9.0**
		10 395	8 780	7 575	6 360	5 320	4 900	4 775	4 685	4 475	4 260	4 135		5.0
		12 125	10 255	8 855	7 430	6 215	5 720	5 570	5 470	5 220	4 970	4 820		6.0
		13 590	11 465	9 885	8 280	6 915	6 365	6 195	6 075	5 805	5 525	5 360		7.0
		15 160	12 795	11 035	9 255	7 740	7 125	6 940	6 815	6 510	6 195	6 010		8.0
	174 F	16 750	14 070	12 060	10 050	8 375	7 705	7 505	7 370	7 035	**6 700**	6 500		**9.0**
		13 400	11 250	9 100	8 400	6 700	6 150	6 000	5 900	5 650	5 350		5 050	5.0
		15 400	12 950	10 500	9 250	7 700	7 100	6 900	6 800	6 500	6 150		5 800	6.0
	176 F	17 750	14 950	12 100	10 650	8 900	8 200	8 000	7 850	7 500	**7 100**		6 700	**7.0**

Longer service life

MPT-20

TRACTION
SERVICE LIFE
RESISTANCE

Universal perennial tread pattern.

On- and off- road application.

Municipal, military and other special vehicles.

Universal application

MPT-21

TRACTION
SERVICE LIFE
RESISTANCE

Non-directional tread pattern.

Good traction on- and off-the-road.

Effective self-cleaning properties.

Excellent traction

MPT-22 / EM-02

TRACTION
SERVICE LIFE
RESISTANCE

Good traction properties.

Excellent durability.

Also suitable for agricultural application.

Longer service life

MPT-23

TRACTION
SERVICE LIFE
RESISTANCE

Tread pattern for road application.

Low noise emission.

Excellent service life.

Rail and road application

SRT2

TRACTION
SERVICE LIFE
RESISTANCE

Rail & Road application.

Excellent durability.

Longer service life.

Multipurpose radial tyres
Universal tyres for on- and off-road use

Tyre size	MPT-20	MPT-21	MPT-22	MPT-23	EM-02	SRT2
335/80 R 18 (12.5 R 18)					•	
335/80 R 20 (12.5 R 20)	•	•				
365/80 R 20 (14.5 R 20)	•	•				
405/70 R 20 (16/70 R 20)		•				
275/90 R 22.5						•
375/75 R 22.5				•		
405/70 R 24 (16/70 R 24)		•				
445/70 R 24 (17.5 L R 24)			•			

MPT radial series

Technical data and load capacities

Tyre size	Tread pattern Type	Rim (permitted)	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)	Tread depth (mm)	
			Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)				
335/80 R 18 (12.5 R 18)	EM-02 TL	11×18 (12×18)	993	340	1 025	354	448	2 979	22	
335/80 R 20 (12.5 R 20)	MPT-20 TL	11×20 (12×20)	1 044	340	1 076	354	480	3 132	17.5	
335/80 R 20 (12.5 R 20)	MPT-21 TL	11×20 (12×20)	1 044	340	1 076	354	474	3 132	20	
365/80 R 20 (14.5 R 20)	MPT-20 TL	11×20 (12×20)	1 092	367	1 128	374	495	3 318	19	
365/80 R 20 (14.5 R 20)	MPT-21 TL	11×20 (12×20)	1 092	360	1 128	374	493	3 276	20	
405/70 R 20 (16/70 R 20)	MPT-21 TL	13×20 (12×20)	1 076	407	1 110	423	492	3 228	20	

Service description LI / SS	Tyre load capacity (kg) at speed (km/h)									Tyre pressure (bar)
	Static	10	40	50	70	80	90	100	110	
	1 913	1 185	890	850	800	795	765			1.00
	2 738	1 690	1 260	1 205	1 140	1 120	1 095			1.60
	3 250	2 045	1 490	1 440	1 375	1 340	1 300			2.00
	3 763	2 370	1 715	1 670	1 595	1 550	1 505			2.40
	4 463	2 840	2 040	2 000	1 905	1 840	1 785			3.00
132G	5 000	3 190	2 300	2 240	2 140	2 080	**2 000**			**3.50**
	3 300	2 376	1 518	1 478	1 412	1 373	1 346	1 320	1 320	2.00
	4 500	3 240	2 070	2 016	1 926	1 872	1 836	1 800	1 800	3.00
	5 600	4 032	2 576	2 509	2 397	2 330	2 285	2 240	2 240	4.00
	6 563	4 725	3 019	2 940	2 809	2 730	2 678	2 625	2 625	5.00
	7 438	5 355	3 421	3 332	3 183	3 094	3 035	2 975	2 975	6.00
147 K	7 688	5 535	3 536	3 444	3 290	3 198	3 137	3 075	**3 075**	**6.50**
	2 430	1 515	1 155	1 142	1 080	1 055	1 030	1 020		1.50
	3 060	1 845	1 445	1 417	1 345	1 313	1 280	1 265		2.00
	3 650	2 260	1 715	1 691	1 600	1 565	1 530	1 510		2.50
	4 215	2 555	1 985	1 943	1 845	1 800	1 755	1 735		3.00
	4 835	3 015	2 300	2 262	2 160	2 103	2 045	2 020		3.50
	5 340	3 330	2 545	2 503	2 380	2 325	2 270	2 235		4.00
139 J	5 850	3 650	2 790	2 722	2 600	2 540	2 480	**2 430**		**4.50**
	3 613	2 510	1 662	1 618	1 546	1 503	1 474	1 395	1 395	2.00
	5 000	3 485	2 300	2 240	2 140	2 080	2 040	2 000	2 000	3.00
	6 438	4 420	2 961	2 884	2 755	2 678	2 627	2 575	2 575	4.00
	7 500	5 375	3 450	3 360	3 210	3 120	3 060	2 970	2 970	5.00
	8 625	6 240	3 968	3 864	3 692	3 588	3 519	3 450	3 450	6.00
152 K	8 875	6 390	4 083	3 976	3 799	3 692	3 621	3 550	**3 550**	**6.25**
	2 800	1 745	1 260	1 238	1 185	1 158	1 130	1 105		1.50
	3 525	2 225	1 620	1 607	1 520	1 488	1 455	1 435		2.00
	4 875	3 090	2 255	2 223	2 100	2 058	2 015	1 985		3.00
	6 150	3 790	2 725	2 654	2 530	2 470	2 410	2 370		4.00
	7 450	4 595	3 325	3 265	3 095	3 023	2 950	2 915		5.00
	8 650	5 400	3 930	3 836	3 660	3 573	3 485	3 425		6.00
152 J	8 950	5 600	4 080	3 976	3 800	3 710	3 620	**3 550**		**6.25**
	2 780	1 765	1 270	1 249	1 175	1 153	1 130	1 115		1.50
	4 270	2 740	1 980	1 943	1 830	1 798	1 765	1 735		2.50
	5 635	3 600	2 620	2 559	2 430	2 385	2 340	2 285		3.50
	7 030	4 505	3 305	3 254	3 070	3 013	2 955	2 905		4.50
	8 210	5 240	3 815	3 730	3 530	3 465	3 400	3 330		5.50
152J	8 950	5 600	4 080	3 976	3 800	3 710	3 620	**3 550**		**6.00**

MPT radial series (continued)

Technical data and load capacities

Tyre size	Tread pattern Type	Rim (permitted)	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)	Tread depth (mm)	
			Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)				
275/90 R 22.5	SRT2 TL	8.25×22.5	1 076	270	1 100	286	491	3 261	17	
375/75 R 22.5	MPT-23 TL	11.75×22.5	1 140	380	1 163	394	521	3 582	25	
405/70 R 24 (16/70 R 24)	MPT-21 TL	13.0×24 (13×24)	1 178	407	1 212	423	538	3 534	20	
445/70 R 24 (17.5 L R 24)	MPT-22 TL	DW 15 L×24	1 255	465	1 292	471	573	3 765	38	

	Service description LI / SS	Tyre load capacity (kg) at speed (km/h)									Tyre pressure (bar)
		Static	10	40	50	70	80	90	100	110	
	153 G/163 A5	6 235	4 570	2 895	2 825	2 670	2 595	2 495			5.50
		6 710	4 905	3 100	3 040	2 875	2 790	2 685			6.00
		7 185	5 240	3 310	3 250	3 075	2 990	2 875			6.50
		7 625	5 590	4 165	3 460	3 200	3 170	3 050			7.00
		8 075	5 935	3 760	3 675	3 455	3 360	3 230			7.50
		8 600	6 250	3 980	3 880	3 680	3 580	3 440			8.00
		9 125	6 570	4 195	4 085	3 905	3 795	**3 650**			**8.50**
	165G	5 600	4 030	2 575	2 510	2 400	2 330	2 240			3.00
		7 635	5 495	3 510	3 420	3 270	3 175	3 055			4.00
		8 785	6 325	4 040	3 935	3 760	3 655	3 515			5.00
		10 425	7 505	4 795	4 670	4 460	4 335	4 170			6.00
		11 460	8 250	5 270	5 135	4 905	4 765	4 585			7.00
		12 875	9 270	5 920	5 765	5 510	5 355	**5 150**			**8.00**
	152 J	3 225	1 990	1 435	1 378	1 270	1 258	1 245	1 230		1.50
		4 085	2 525	1 820	1 753	1 670	1 628	1 585	1 565		2.00
		4 920	3 035	2 200	2 106	2 020	1 967	1 915	1 880		2.50
		5 750	3 535	2 575	2 486	2 370	2 313	2 255	2 220		3.00
		6 545	4 065	2 940	2 845	2 715	2 650	2 585	2 540		3.50
		7 390	4 555	3 315	3 209	3 055	2 980	2 905	2 865		4.00
		8 165	5 055	3 675	3 573	3 390	3 310	3 230	3 190		4.50
		8 950	5 600	4 080	3 976	3 800	3 710	3 620	**3 550**		**5.00**
	151G	3 000	2 150	1 380	1 344	1 284	1 248	1 200			1.00
		4 825	3 470	2 220	2 162	2 065	2 007	1 930			2.00
		6 625	4 770	3 050	2 968	2 836	2 756	2 650			3.00
		7 525	5 430	3 470	3 371	3 221	3 130	3 010			3.50
		8 450	6 080	3 880	3 786	3 617	3 515	3 380			4.00
		8 625	6 210	3 970	3 864	3 692	3 588	**3 450**			**4.10**

Universal application

MPT-03

Universal tread pattern for on- and off-road application with good traction. Suitable for municipal, on road service, agricultural and other special service vehicles.

Road application

MPT-05

Universal heavy-duty tread pattern for on- and off-road application. Suitable mainly for municipal, military, on road service and other special service vehicles.

Universal application

MPT-07

Non-directional tread pattern, suitable for various special service vehicles.

Multipurpose diagonal
Proven tread patterns for wide range of application

Tyre size	MPT-03	MPT-05	MPT-07
12.5 - 18	•		
18 - 19.5	•		
10.5 - 20		•	•
12.5 - 20	•	•	
14.5 - 20	•	•	
16/70 - 20		•	
405/70 - 20	•		

MPT diagonal series

Technical data and load capacities

Tyre size	Tread pattern Type	Rim (permitted)	Tube Flap	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)	Tread depth (mm)	
				Overall diam-eter (mm)	Section width (mm)	Overall diam-eter (mm)	Overall width (mm)				
12.5 - 18	MPT-03 TL	11×18 (9×18)	12.5 - 18 12 - 18 HS	990	325	1 017	351	455	2 910	20	
10.5 - 20	MPT-05 TL	9×20 (9 - 20 SDC)	10.5 - 20	955	270	977	292	440	2 810	16	
	MPT-07 TT	9×20 (9 - 20 SDC)	10.5 - 20	955	270	977	292	440	2 810	18	
12.5 - 20	MPT-03 TL	11×20 (11; 12 - 20 SDC)	–	1 040	325	1 067	351	480	3 060	20	
12.5 - 20	MPT-05 TL	11×20 (11; 12 - 20 SDC)	12.5 - 20 (11 - 20)	1 040	325	1 067	351	480	3 060	18	
14.5 - 20	MPT-03 TL	11×20 (11; 12 - 20 SDC)	14.5 - 20 (12.5 - 20)	1 095	355	1 124	383	503	3 220	24	
	MPT-05 TL	11×20 (11; 12 - 20 SDC)	14.5 - 20 (12.5 - 20)	1 095	355	1 124	383	503	3 220	20	
16/70 - 20 (405/70 - 20)	MPT-05 TL	13×20 (13 - 20 SDC)	16 - 20	1 076	407	1 116	440	495	3 165	22	
405/70 - 20 (16/70 - 20)	MPT-03 TL	13×20 (13 - 20 SDC)	–	1 076	407	1 116	440	495	3 165	30	

Variation in load capacity with speed dependence

Speed (km/h)	0	10	20	30	40	50	60	65	70	80	90
Load capacity	+150 %	+80 %	+50 %	+25 %	+15 %	+12 %	+10 %	+8.5 %	+7 %	+4 %	(0)


MPT-03


MPT-05


MPT-07

Tread pattern	Service description LI/SS	Ply rating	Tyre load capacity (kg) at speed (km/h)											Tyre pressure (bar)
			Static	10	20	30	40	50	60	65	70	80	90	
MPT-03	128 G	10 PR	3 387	2 439	2 032	1 694	1 558	1 517	1 490	1 470	1 450	1 409	1 355	1.75
			3 618	2 605	2 171	1 809	1 664	1 621	1 592	1 570	1 548	1 505	1 447	2.00
			3 871	2 787	2 323	1 935	1 781	1 734	1 703	1 680	1 657	1 610	1 548	2.25
			4 124	2 970	2 475	2 062	1 897	1 848	1 815	1 790	1 765	1 716	1 650	2.50
			4 332	3 119	2 599	2 166	1 993	1 941	1 906	1 880	1 854	1 802	1 733	2.75
			4 500	3 240	2 700	2 250	2 070	2 016	1 980	1 950	1 926	1 872	**1 800**	**3.00**
	131 G	12 PR	4 700	3 384	2 820	2 350	2 162	2 106	2 068	2 040	2 012	1 955	1 880	3.25
			4 875	3 510	2 925	2 438	2 243	2 184	2 145	2 120	2 087	2 028	**1 950**	**3.50**
	136 G	16 PR	5 055	3 640	3 033	2 528	2 325	2 265	2 224	2 194	2 164	2 103	2 022	3.75
			5 238	3 771	3 143	2 619	2 409	2 346	2 305	2 273	2 242	2 179	2 095	4.00
			5 420	3 902	3 252	2 710	2 493	2 428	2 385	2 352	2 320	2 255	2 168	4.25
			5 600	4 032	3 360	2 800	2 576	2 509	2 464	2 430	2 397	2 330	**2 240**	**4.50**
MPT-05 MPT-07	128 G	10 PR	3 325	2 394	1 995	1 663	1 530	1 490	1 463	1 443	1 423	1 383	1 330	2.25
			3 500	2 520	2 100	1 750	1 610	1 568	1 540	1 519	1 498	1 456	1 400	2.50
			3 688	2 655	2 213	1 844	1 696	1 652	1 623	1 600	1 578	1 534	1 475	2.75
			3 875	2 790	2 325	1 938	1 783	1 736	1 705	1 682	1 659	1 612	1 550	3.00
			4 088	2 943	2 453	2 044	1 880	1 831	1 799	1 774	1 749	1 700	1 635	3.25
			4 288	3 087	2 573	2 144	1 972	1 921	1 887	1 861	1 835	1 784	1 715	3.50
			4 500	3 240	2 700	2 250	2 070	2 016	1 980	1 953	1 926	1 872	**1 800**	**3.75**
MPT-03	129 G	10 PR	4 513	3 249	2 708	2 256	2 076	2 022	1 986	1 958	1 931	1 877	**1 805**	**3.00**
	132 G	12 PR	4 750	3 420	2 850	2 375	2 185	2 128	2 090	2 062	2 033	1 976	1 900	3.25
			5 000	3 600	3 000	2 500	2 300	2 240	2 200	2 170	2 140	2 080	**2 000**	**3.50**
MPT-05	132 G	12 PR	4 513	3 249	2 708	2 256	2 076	2 022	1 986	1 958	1 931	1 877	1 805	3.00
			4 750	3 420	2 850	2 375	2 185	2 128	2 090	2 062	2 033	1 976	1 900	3.25
			5 000	3 600	3 000	2 500	2 300	2 240	2 200	2 170	2 140	2 080	**2 000**	**3.50**
MPT-03 MPT-05	136 G	12 PR	4 088	2 943	2 453	2 044	1 880	1 831	1 799	1 774	1 749	1 700	1 635	1.75
			4 375	3 150	2 625	2 188	2 013	1 960	1 925	1 899	1 873	1 820	1 750	2.00
			4 700	3 384	2 820	2 350	2 162	2 106	2 068	2 040	2 012	1 955	1 880	2.25
			5 000	3 600	3 000	2 500	2 300	2 240	2 200	2 170	2 140	2 080	2 000	2.50
			5 300	3 816	3 180	2 650	2 438	2 374	2 332	2 300	2 268	2 205	2 120	2.75
			5 600	4 032	3 360	2 800	2 576	2 509	2 464	2 430	2 397	2 330	**2 240**	**3.00**
MPT-05	145 G	14 PR	6 550	4 716	3 930	3 275	3 013	2 934	2 882	2 843	2 803	2 725	2 620	3.00
			6 888	4 959	4 133	3 444	3 168	3 086	3 031	2 989	2 948	2 865	2 755	3.25
			7 250	5 220	4 350	3 625	3 335	3 248	3 190	3 147	3 103	3 016	**2 900**	**3.50**
MPT-03	145 G	14 PR	6 550	4 716	3 930	3 275	3 013	2 934	2 882	2 843	2 803	2 725	2 620	3.00
			6 888	4 959	4 133	3 444	3 168	3 086	3 031	2 989	2 948	2 865	2 755	3.25
			7 250	5 220	4 350	3 625	3 335	3 248	3 190	3 147	3 103	3 016	**2 900**	**3.50**

Longer service life

TI-20

TRACTION	■■■■■
SERVICE LIFE	■■■■□
RESISTANCE	■■■■□
SELF CLEANING	■■■■■

Excellent traction

TI-22

TRACTION	■■■■□
SERVICE LIFE	■■■■■
RESISTANCE	■■■■□
SELF CLEANING	■■■■■

TI series – universal radial tyres for industrial and agricultural application

TI-20

New generation of tread pattern.

Suitable for **construction, road and agricultural work**.

Priority to traction.

Designed for **muddy conditions**.

Very good resistance to damage.

TI-22

Good traction and effective self-cleaning properties.

Excellent durability.

Suitable for backhoe loaders, wheeled loaders, telescopic handlers and similar vehicles for light service.

Also suitable for agricultural application.

Tyre size	TI-20	TI-22
340/80 R 18	•	
460/70 R 24 IND (17.5L R 24)		•
480/80 R 26 IND	•	
440/80 R 28 IND	•	

TI radial series

Technical data and load capacities

Tyre size	Tread pattern Type	Rim (permitted)	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)	Tread depth (mm)	
			Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)				
340/80 R 18 IND	TI-20 TL	11×18 (12×18, W 10×18, W 11×18)	1 001	343	1 023	360	449	2 993	30	
460/70 R 24 IND (17.5L R 24)	TI-22 TL	DW 14 L×24 (DW 15 L, DW 16 L, 14, 16, W 14 L)	1 254	455	1 280	478	559	3 700	38	
480/80 R 26 IND	TI-20 TL	DW 15 L×26 (DW 16 L×26)	1 428	500	1 458	525	640	4 250	34	
440/80 R 28 IND	TI-20 TL	DW 14 L×28 (DW 15 L×28)	1 415	441	1 445	466	640	4 235	34	

Variation in load capacity with speed dependence

Speed (km/h)	0	5	10	15	20	25	30	35	40	45	50
Constant load	+ 130%	+ 45%	+ 25%	+ 13%	+ 9%	+ 6%	+ 4%	+ 2%	(0)	- 4%	- 9%
Cyclic application	+ 130%	+ 67%*	+ 50%**	+ 34%	+ 23%	+ 11%	+ 7%	+ 3%	(0)	- 4%	- 9%

* One way distance 150 m.
** One way distance 600 m.


TI-20


TI-22

	Service description LI / SS	Tyre load capacity (kg) at speed (km/h)							Tyre pressure (bar)
		0	10	10 cyclic	20	30	40	50	
		3 760	2 045	2 450	1 780	1 700	1 635	1 570	2.0
		4 390	2 390	2 865	2 080	1 985	1 910	1 740	2.5
		5 015	2 725	3 270	2 375	2 270	2 180	1 985	3.0
		5 635	3 060	3 675	2 670	2 550	2 450	2 230	3.5
	143 A8	6 265	3 405	4 090	2 970	2 835	**2 725**	2 480	**4.0**
		6 010	3 265	3 920	2 845	2 715	2 610	2 375	2.0
		7 020	3 815	4 580	3 330	3 175	3 055	2 780	2.5
		8 035	4 365	5 240	3 805	3 635	3 495	3 180	3.0
		9 050	4 920	5 900	4 290	4 090	3 935	3 580	3.5
	159 A8	10 065	5 470	6 565	4 770	4 550	**4 375**	3 980	**4.0**
		7 073	3 844	4 613	3 352	3 198	3 075	2 798	2.0
		7 705	4 188	5 025	3 652	3 484	3 350	3 049	2.2
		8 165	4 438	5 325	3 870	3 692	3 550	3 231	2.4
		8 625	4 688	5 625	4 088	3 900	3 750	3 413	2.6
		9 200	5 000	6 000	4 360	4 160	4 000	3 640	2.8
		9 775	5 313	6 375	4 633	4 420	4 250	3 868	3.0
	160 A8	10 350	5 625	6 750	4 905	4 680	**4 500**	4 095	**3.2**
		6 440	3 500	4 200	3 052	2 912	2 800	2 548	2.0
		6 900	3 750	4 500	3 270	3 120	3 000	2 730	2.2
		7 245	3 938	4 725	3 434	3 276	3 150	2 867	2.4
		7 935	4 313	5 175	3 761	3 588	3 450	3 140	2.6
		8 395	4 563	5 475	3 979	3 796	3 650	3 322	2.8
		8 913	4 844	5 813	4 224	4 030	3 875	3 526	3.0
	156 A8	9 200	5 000	6 000	4 360	4 160	**4 000**	3 640	**3.2**

TI-02 (R-4)

Classic version of tread pattern for industrial use.

Designed for 4×4

TI-04 (R-4)

Industrial tread pattern for use on backhoe loaders with 4×4 axles.

Excellent traction

TI-05 (R-4)

Robust industrial tread pattern with excellent traction properties.

Longer service life

TI-06 (R-4)

Robust industrial pattern with higher resistance to puncture and tread wear.

Excellent traction

TI-09 (R-4)

Tread pattern with very good traction and self-cleaning properties.

Excellent traction

GRIP 'N' RIDE (R-4)

Tread pattern suitable for backhoe loaders and other types of loaders with excellent self-cleaning properties and reinforced sidewall.

TG-01 (R-4)

Robust industrial pattern with higher resistance to puncture and tread wear.

Effective self-cleaning

MPT-04

Tread pattern with excellent treadwear and durability. Maximum traction capabilities in soft soil.

Construction applications diagonal
Robust and durable tyres for construction and road works

Enhanced lateral stability

MPT-06

Tread pattern with excellent traction properties and enhanced stability. Especially suitable for telescopic handlers and excavators.

TR-09 (R-4)

Tread pattern with good traction.

Tyre size	TI-02	TI-04	TI-05	TI-06	TI-09	G'n'R	TG-01	MPT-04	MPT-06	TR-09
320/80 - 18 (12.5/80 - 18)										•
340/80 - 18 (12.5 - 18)								•		
280/80 - 20 (10.5 - 20)								•		
340/80 - 20 (12.5 - 20)								•		
360/85 - 20 (14.5 - 20)								•		
400/70 - 20 (16.0/70 - 20)								•		
400/75 - 20 (16.0/70 - 20)										•
480/65 - 22.5 (18 - 22.5)									•	
400/70 - 24								•		
400/80 - 24 (15.5/80 - 24)			•							
16.9 - 24		•					•			
17.5L - 24	•									
460/70 - 24 (17.5L - 24)			•							
19.5L - 24			•			•				
500/70 - 24 (19.5L - 24)			•							
21L - 24						•				
18.4 - 26				•						
16.9 - 28				•			•			
440/80 - 30 (16.9 - 30)					•					

Construction Applications Diagonal Tyres

Technical data and load capacities

Tyre size	Tread pattern Type	Rim (permitted)	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)	Tread depth (mm)	
			Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)				
320/80 - 18 IND (12.5/80 - 18)	TR-09 TL	11 × 18 (9 × 18)	987	308	1 014	323	465	2 900	25	
400/75 - 20 IND (16.0/70 - 20)	TR-09 TL	13 SDC - 20	1 095	408	1 125	450	504	3 220	27	

Variation in load capacity with speed dependence – front tyres

Speed (km/h)			0	10	15	20	25	30	35	40	45	50
Free rolling	A8 (40 km/h)	LLV	+ 65%	+ 40%	+ 33%	+ 26%	+ 19%	+ 12%	+ 5%	(0)	- 5%	- 10%
		HLV	+ 98%	+ 68%	+ 60%	+ 51%	+ 43%	+ 34%	+ 26%	+ 20%	+ 14%	+ 8%
Drive wheels	A8 (40 km/h)	LLV	+ 135%	+ 40%	+ 33%	+ 26%	+ 19%	+ 12%	+ 5%	(0)	- 5%	- 10%
		HLV	+ 193%	+ 100%	+ 90%	+ 80%	+ 70%	+ 60%	+ 50%	+ 43%	+ 36%	+ 29%

LLV = Low Load Variation
HLV = High Load Variation, is where the tyre load varies by a factor of 2 or more between loaded and unloaded conditions. The inflation pressure for HLV application must be increased, consult tyre manufacturer. In the case of HLV, the maximum distance should not exceed 1 km. For a longer distance, consult tyre manufacturer.

TR-09

	Service description LI / SS	Ply rating	Tyre load capacity (kg) – free rolling / drive wheels – at speed (km/h)					Tyre pressure (bar)
			10	20	30	40	50	
			2 675 / 1 890	2 405 / 1 700	2 140 / 1 510	1 910 / 1 350	1 720 / 1 215	2.50
			2 865 / 2 015	2 575 / 1 815	2 290 / 1 615	2 045 / 1 440	1 840 / 1 295	2.80
			3 050 / 2 170	2 745 / 1 955	2 440 / 1 735	2 180 / 1 550	1 960 / 1 395	3.10
			3 200 / 2 235	2 880 / 2 010	2 560 / 1 790	2 285 / 1 595	2 055 / 1 435	3.40
	138/125 A8	12 PR	3 305 / 2 310	2 975 / 2 080	2 650 / 1 850	**2 360 / 1 650**	2 125 / 1 485	**3.70**
			3 430 / 2 460	3 090 / 2 210	2 745 / 1 965	2 450 / 1 755	2 205 / 1 580	2.00
			3 815 / 2 730	3 435 / 2 455	3 050 / 2 185	2 725 / 1 950	2 450 / 1 755	2.50
			4 100 / 3 005	3 690 / 2 700	3 280 / 2 400	2 930 / 2 145	2 640 / 1 930	3.00
	150/138 A8	14 PR	4 690 / 3 305	4 220 / 2 975	3 750 / 2 645	**3 350 / 2 360**	3 015 / 2 125	**3.50**

Construction Applications Diagonal Tyres (continued)

Technical data and load capacities

Tyre size	Tread pattern Type	Rim (permitted)	Tube Flap	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)	Tread depth (mm)	
				Overall diam-eter (mm)	Section width (mm)	Overall diam-eter (mm)	Overall width (mm)				
340/80-18 IND (12.5-18)	MPT-04 TL	11×18 (9×18)	12.5-18 12-18 HS	990	325	1 017	351	455	2 910	25	
280/80-20 IND (10.5-20)	MPT-04 TL	9×20 (9-20SDC)	10.5-20	955	270	977	292	440	2 940	21	
340/80-20 IND (12.5-20)	MPT-04 TL	11×20 (11;12-20SDC)	12.5-20 (11-20)	1 040	325	1 067	351	480	3 060	22	
360/85-20 IND (14.5-20)	MPT-04 TL	11×20 (11;12-20SDC)	14.5-20 (12.5-20)	1 095	355	1 124	383	503	3 220	25	
400/70-20 IND (16.0/70-20)	MPT-04 TL	13×20 (13-20SDC)	–	1 076	407	1 116	440	495	3 165	26	
480/65-22.5 IND (18-22.5)	MPT-06 TL	14.00×22.5	–	1 166	460	1 197	494	542	3 480	26	

Tread pattern	Service description LI/SS	Ply rating	Tyre load capacity (kg) at speed (km/h)								Tyre pressure (bar)
			Static	10	20	30	40	50	60	65	
			3 381	2 426	1 911	1 691	1 558	1 529	1 485	1 470	1.75
			3 611	2 591	2 041	1 806	1 664	1 633	1 586	1 570	2.00
			3 864	2 772	2 184	1 932	1 781	1 747	1 697	1 680	2.25
			4 117	2 954	2 327	2 059	1 897	1 862	1 808	1 790	2.50
			4 324	3 102	2 444	2 162	1 993	1 955	1 899	1 880	2.75
MPT-04	131 D	10 PR	4 485	3 218	2 535	2 243	2 067	2 028	1 970	**1 950**	**3.00**
			4 692	3 366	2 652	2 346	2 162	2 122	2 060	2 040	3.25
	134 D	12 PR	4 876	3 498	2 756	2 438	2 247	2 205	2 141	**2 120**	**3.50**
			6 072	4 356	3 432	3 036	2 798	2 746	2 666	2 640	4.50
			6 325	4 538	3 575	3 163	2 915	2 860	2 778	2 750	4.75
	144 D	16 PR	6 440	4 620	3 640	3 220	2 968	2 912	2 828	**2 800**	**5.00**
			3 310	2 375	1 870	1 655	1 525	1 500	1 455	1 440	2.25
			3 495	2 510	1 975	1 750	1 610	1 580	1 535	1 520	2.50
			3 680	2 640	2 080	1 840	1 695	1 665	1 615	1 600	2.75
MPT-04			3 865	2 770	2 185	1 930	1 780	1 750	1 695	1 680	3.00
			4 070	2 920	2 300	2 035	1 875	1 840	1 790	1 770	3.25
	133 A8/		4 280	3 070	2 420	2 140	1 970	1 935	1 880	1 860	3.50
	131 D	10 PR	4 485	3 220	2 535	2 245	2 065	2 030	1 970	**1 950**	**3.75**
			4 439	3 185	2 509	2 220	2 046	2 007	1 949	1 930	2.75
MPT-04	132 D	10 PR	4 600	3 300	2 600	2 300	2 120	2 080	2 020	**2 000**	**3.00**
			4 807	3 449	2 717	2 404	2 215	2 174	2 111	2 090	3.25
	135 D	12 PR	5 014	3 597	2 834	2 507	2 311	2 267	2 202	**2 180**	**3.50**
			4 669	3 350	2 639	2 335	2 152	2 111	2 050	2 030	2.25
			4 991	3 581	2 821	2 496	2 300	2 257	2 192	2 170	2.50
MPT-04			5 290	3 795	2 990	2 645	2 438	2 392	2 323	2 300	2.75
	139 D	12 PR	5 589	4 010	3 159	2 795	2 576	2 527	2 454	**2 430**	**3.00**
			5 842	4 191	3 302	2 921	2 692	2 642	2 565	2 540	3.25
	142 D	14 PR	6 095	4 373	3 445	3 048	2 809	2 756	2 677	**2 650**	**3.50**
			5 359	3 845	3 029	2 680	2 470	2 423	2 353	2 330	2.25
			5 739	4 117	3 244	2 869	2 645	2 595	2 520	2 495	2.50
MPT-04			6 486	4 653	3 666	3 243	2 989	2 933	2 848	2 820	3.00
			6 866	4 925	3 881	3 433	3 164	3 104	3 015	2 985	3.25
	148 D	14 PR	7 245	5 198	4 095	3 623	3 339	3 276	3 182	**3 150**	**3.50**
			4 108	3 445	3 074	2 915	2 650				1.75
			4 495	3 770	3 364	3 190	2 900				2.00
			4 844	4 063	3 625	3 438	3 125				2.25
			5 193	4 355	3 886	3 685	3 350				2.50
			5 503	4 615	4 118	3 905	3 550				2.75
MPT-06			5 813	4 875	4 350	4 125	3 750				3.00
			6 123	5 135	4 582	4 345	3 950				3.25
			6 433	5 395	4 814	4 565	4 150				3.50
			6 704	5 623	5 017	4 758	4 325				3.75
			6 975	5 850	5 220	4 950	4 500				4.00
			7 246	6 078	5 423	5 143	4 675				4.25
	163 A8	16 PR	7 518	6 305	5 626	5 335	**4 850**				**4.50**

Construction Applications Diagonal Tyres (continued)

Technical data and load capacities

Tyre size	Tread pattern Type	Rim (permitted)	Tube Flap	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)	Tread depth (mm)	
				Overall diam-eter (mm)	Section width (mm)	Overall diam-eter (mm)	Overall width (mm)				
400/70-24 IND	MPT-04 TL	13×24 (13-24SDC)	16/70-24	1 178	407	1 218	440	545	3 465	30	

Tyre size	Tread pattern Type	Rim (permitted)	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)	Tread depth (mm)	
			Overall diam-eter (mm)	Section width (mm)	Overall diam-eter (mm)	Overall width (mm)				
400/80-24 IND (15.5/80-24)	TI-05 TL	DW13×24 (DW14L×24) (13×24, 14×24) (TW14L×24)	1 250	404	1 294	436	573	3 688	35	
16.9-24 IND	TI-04 TL	W15L×24 (W14L×24)	1 310	429	1 355	463	610	3 865	27	
16.9-24	TG-01 TL	W15L×24 (W14L×24)	1 310	429	1 355	463	579	3 798	25	
17.5L-24 IND	TI-02 TL	W15L×24 (W14L×24)	1 241	445	1 278	481	580	3 660	28	

Tread pattern	Service description LI/SS	Ply rating	Tyre load capacity (kg) at speed (km/h)								Tyre pressure (bar)
			Static	10	20	30	40	50	60	65	
MPT-04	151 D	14 PR	6 118	4 389	3 458	3 059	2 820	2 766	2 687	2 660	2.00
			6 325	4 538	3 575	3 163	2 915	2 860	2 778	2 750	2.50
			6 509	4 670	3 679	3 255	3 000	2 943	2 858	2 830	3.00
			7 015	5 033	3 965	3 508	3 233	3 172	3 081	3 050	3.50
			7 935	5 693	4 485	3 968	3 657	3 588	3 485	**3 450**	**4.00**
	156 B	–	6 325	4 580	3 550	3 260	3 150	2 860			2.50
			6 510	4 715	3 655	3 360	3 240	2 945			3.00
			7 020	5 080	3 940	3 620	3 495	3 175			3.50
			7 935	5 745	4 455	4 095	3 950	3 590			4.00
			8 840	6 400	4 960	4 560	4 400	**4 000**			**4.50**

Tread pattern	Service description LI/SS	Ply rating	Tyre load capacity (kg) at speed (km/h)							Tyre pressure (bar)
			Static	10	10 cyclic	20	30	40	50	
TI-05	162 A8	–	5 975	3 245	3 895	2 830	2 700	2 595	2 365	2.00
			6 800	3 695	4 435	3 220	3 075	2 956	2 690	2.50
			7 625	4 145	4 975	3 615	3 450	3 315	3 020	3.00
			8 450	4 590	5 510	4 005	3 820	3 675	3 340	3.50
			9 275	5 040	6 050	4 395	4 195	4 030	3 670	4.00
			10 100	5 490	6 585	4 785	4 565	4 390	3 995	4.50
			10 925	5 940	7 125	5 180	4 940	**4 750**	4 325	**5.00**
TI-04	149 A8	12 PR	3 795	2 065	2 475	1 800	1 715	1 650	1 500	1.00
			4 335	2 355	2 830	2 055	1 960	1 885	1 715	1.20
			4 875	2 650	3 180	2 310	2 205	2 120	1 930	1.40
			5 395	2 930	3 520	2 555	2 440	2 345	2 135	1.60
			5 865	3 190	3 825	2 780	2 650	2 550	2 320	1.80
			6 360	3 455	4 150	3 015	2 875	2 765	2 515	2.00
			6 900	3 750	4 500	3 270	3 120	3 000	2 730	2.20
			7 190	3 905	4 690	3 405	3 250	3 125	2 845	2.40
			7 475	4 065	4 875	3 545	3 380	**3 250**	2 960	**2.60**
TG-01	149 A6	12 PR	6 590	3 580	4 295	3 120	2 980	2 865	2 605	2.30
			6 785	3 685	4 425	3 215	3 070	2 950	2 685	2.40
			6 980	3 795	4 555	3 310	3 160	3 035	2 760	2.50
			7 185	3 905	4 685	3 405	**3 250**	3 125	2 840	**2.60**
TI-02	144 A8	10 PR	4 195	2 500	3 000	2 250	2 000	1 785	1 605	1.10
			4 700	2 800	3 360	2 520	2 240	2 000	1 800	1.30
			5 205	3 100	3 720	2 790	2 480	2 215	1 995	1.50
			5 711	3 400	4 080	3 060	2 720	2 430	2 185	1.70
			6 216	3 705	4 446	3 335	2 960	2 645	2 380	2.00
			6 580	3 920	4 704	3 530	3 135	**2 800**	2 520	**2.20**

Construction Applications Diagonal Tyres (continued)

Technical data and load capacities

Tyre size	Tread pattern Type	Rim (permitted)	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)	Tread depth (mm)	
			Overall diam-eter (mm)	Section width (mm)	Overall diam-eter (mm)	Overall width (mm)				
460/70-24 IND (17.5L-24)	TI-05 TL	DW14L×24 (DW15L, DW16L, 14, 16, TW14L)	1 250	455	1 300	494	580	3 660	35	
19.5L-24 IND	TI-05 TL	DW16L×24	1 314	495	1 356	535	610	3 865	32	
	GRIP-n-RIDE TL	W16L×24 (DW16L×24)	1 314	495	1 356	535	610	3 865	27	
500/70-24 IND (19.5L-24)	TI-05 TL	DW16L×24 (DW15L×24) (W15L×24) (W16L×24) (16×24)	1 310	503	1 360	528	589	3 865	32	
21L-24 IND	GRIP-n-RIDE TL	DW18L×24	1 390	523	1 424	576	613	4 128	30	
18.4-26 IND	TI-06 TL	W16L×26 (W15L×26)	1 425	467	1 470	504	665	4 190	29	
16.9-28 IND	TI-06 TL	W15L×28 (W14L×28)	1 410	429	1 455	463	660	4 160	28	
16.9-28	TG-01 TL	W15L×28 (W14L×28)	1 410	429	1 455	463	640	4 190	25	

Tread pattern	Service description LI/SS	Ply rating	Tyre load capacity (kg) at speed (km/h)							Tyre pressure (bar)
			Static	10	10 cyclic	20	30	40	50	
			6 555	3 565	4 275	3 105	2 965	2 850	2 595	2.00
			7 430	4 040	4 845	3 520	3 360	3 230	2 940	2.50
TI-05			8 305	4 515	5 415	3 935	3 755	3 610	3 285	3.00
			9 175	4 990	5 985	4 350	4 150	3 990	3 630	3.50
	159 A8	–	10 065	5 470	6 565	4 770	4 550	**4 375**	3 980	**4.00**
			4 510	2 450	2 940	2 140	2 040	1 960	1 785	1.10
			5 095	2 770	3 325	2 415	2 305	2 215	2 015	1.30
TI-05 GRIP-n-RIDE			5 680	3 090	3 705	2 690	2 570	2 470	2 250	1.50
			6 270	3 405	4 090	2 970	2 835	2 725	2 480	1.70
			7 075	3 845	4 615	3 350	3 200	3 075	2 800	1.90
			7 510	4 080	4 900	3 560	3 395	3 265	2 970	2.10
	151 A8	12 PR	7 935	4 315	5 175	3 760	3 590	**3 450**	3 140	**2.30**
			7 705	4 185	5 022	3 650	3 485	3 350	3 050	2.00
			8 650	4 700	5 640	4 100	3 910	3 760	3 425	2.50
TI-05			9 600	5 220	6 260	4 550	4 340	4 175	3 800	3.00
			10 550	5 735	6 880	5 000	4 770	4 585	4 175	3.50
	164 A8	–	11 500	6 250	7 500	5 450	5 200	**5 000**	4 550	**4.00**
			6 440	3 500	4 200	3 050	2 910	2 800	2 550	1,40
			7 075	3 845	4 615	3 350	3 200	3 075	2 800	1,60
GRIP-n-RIDE			7 705	4 190	5 025	3 650	3 485	3 350	3 050	1,80
			8 340	4 530	5 440	3 950	3 770	3 625	3 300	2,00
	155 A8	12 PR	8 915	4 845	5 815	4 225	4 030	**3 875**	3 525	**2,20**
			5 200	2 825	3 390	2 465	2 350	2 260	2 055	1.10
			5 795	3 150	3 780	2 745	2 620	2 520	2 295	1.30
			6 360	3 455	4 150	3 015	2 875	2 765	2 515	1.50
TI-06			6 900	3 750	4 500	3 270	3 120	3 000	2 730	1.70
			7 420	4 030	4 840	3 515	3 355	3 225	2 935	1.90
			7 935	4 315	5 175	3 760	3 590	3 450	3 140	2.10
			8 570	4 655	5 590	4 060	3 875	3 725	3 390	2.30
	156 A8	12 PR	9 200	5 000	6 000	4 360	4 160	**4 000**	3 640	**2.50**
			4 360	2 370	2 845	2 065	1 970	1 895	1 725	1.10
			4 970	2 700	3 240	2 355	2 245	2 160	1 965	1.30
			5 590	3 040	3 645	2 650	2 525	2 430	2 210	1.50
TI-06			6 130	3 330	4 000	2 905	2 770	2 665	2 425	1.70
			6 670	3 625	4 350	3 160	3 015	2 900	2 640	1.90
			7 050	3 830	4 600	3 340	3 190	3 065	2 790	2.10
			7 245	3 940	4 725	3 435	3 275	3 150	2 865	2.20
			7 705	4 190	5 025	3 650	3 485	3 350	3 050	2.40
	152 A8	12 PR	8 165	4 440	5 325	3 870	3 690	**3 550**	3 230	**2.60**
			7 055	3 834	4 601	3 345	3 195	3 067	2 791	2.30
			7 253	3 942	4 730	3 440	3 285	3 154	2 870	2.40
TG-01			7 452	4 050	4 860	3 535	3 375	3 240	2 948	2.50
	151 A6	12 PR	7 651	4 158	4 990	3 630	**3 465**	3 326	3 027	**2.60**

Construction Applications Diagonal Tyres (continued)

Technical data and load capacities

Tyre size	Tread pattern Type	Rim (permitted)	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)	Tread depth (mm)	
			Overall diam-eter (mm)	Section width (mm)	Overall diam-eter (mm)	Overall width (mm)				
440/80-30 IND (16.9-30)	TI-09 TL	W15L×30 (W14L×30)	1 460	429	1 500	463	685	4 300	34	

Variation in load capacity with speed dependence

Speed (km/h)	0	5	10	15	20	25	30	35	40	45	50
Constant load	+ 130%	+ 45%	+ 25%	+ 13%	+ 9%	+ 6%	+ 4%	+ 2%	(0)	- 4%	- 9%
Cyclic application	+ 130%	+ 67%*	+ 50%**	+ 34%	+ 23%	+ 11%	+ 7%	+ 3%	(0)	- 4%	- 9%

* One way distance 150 m.
** One way distance 600 m.


TI-09

	Tread pattern	Service description LI/SS	Ply rating	Tyre load capacity (kg) at speed (km/h)							Tyre pressure (bar)
				Static	10	10 cyclic	20	30	40	50	
	TI-09	154 A8	14 PR	4 740	2 575	3 090	2 245	2 140	2 060	1 870	1.10
				5 245	2 850	3 420	2 485	2 370	2 280	2 070	1.30
				5 750	3 125	3 750	2 725	2 600	2 500	2 275	1.50
				6 325	3 435	4 125	2 995	2 860	2 750	2 500	1.70
				7 095	3 855	4 625	3 360	3 205	3 085	2 805	2.00
				7 475	4 060	4 875	3 540	3 380	3 250	2 955	2.20
				7 995	4 340	5 210	3 785	3 610	3 475	3 160	2.50
				8 315	4 515	5 420	3 940	3 755	3 615	3 285	2.70
				8 625	4 685	5 625	4 085	3 900	**3 750**	3 410	**2.90**

Excellent traction

SK-01

Standard tread pattern with good traction properties and sidewall protection.

Reinforced construction

SK-02

Heavy duty tread pattern, robust reinforced tread lug in the central part, higher resistance to puncture and tread wear. Reinforced sidewall.

Longer service life

SK-05

Robust tyre for extreme conditions. Low void ratio and improved depth increases service life. Excellent self-cleaning properties.

Longer service life

BIG BOY

Robust industrial pattern with higher resistance to puncture and tread wear.

Excellent traction

TR-10 (R-4)

Tread pattern suitable above all for bigger skid steer loaders and front axles of backhoe loaders or telescopic platforms.

Skid steer diagonal tyres
For small machines with great performance

Tyre size	SK-01	SK-02	SK-05	BIG BOY	TR-10
23×8.50-12		•			
27×8.50-15		•			
27×10.50-15		•			
31×15.5-15		•			
10.0/75-15.3 IND	•				
10-16.5		•	•	•	
12-16.5		•	•	•	
14-17.5 IND					•
10.5/80-18				•	
12.5/80-18				•	

SK series

Technical data and load capacities

Tyre size	Tread pattern Type	Rim (permitted)	Tube Flap	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)	Tread depth (mm)	
				Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)				
23×8.50-12	SK-02 TL	7.00×12	–	575	214	589	231	258	1 690	13	
27×8.50-15	SK-02 TL	7.00×15	–	680	214	695	231	317	2 000	14.5	
27×10.50-15	SK-02 TL	8.50×15	–	683	264	693	268	320	2 140	14.5	
31×15.5-15	SK-02 TL	13LB×15	–	766	384	800	405	360	2 371	23	
10.0/75-15.3 IND	SK-01 TT/TL	9.00×15.3	10-15 HS 10/75-15	780	264	800	277	360	2 295	17	


BIG BOY

SK-01

SK-02

SK-05

TR-10

Tread pattern	Service description LI / SS	Ply rating	Tyre load capacity (kg) at speed (km/h)						Tyre pressure (bar)
			10	15	20	30	40	50	
SK-02	99 A4	6 PR	505	470	420	400			1.25
			550	515	460	435			1.50
			650	605	540	515			1.75
			745	695	620	590			2.00
			840	785	700	665			2.25
			930	870	**775**	735			**2.50**
	115 A4	10 PR	1 050	980	875	831			2.80
			1 134	1 058	945	898			3.00
			1 212	1 131	1 010	960			3.20
			1 338	1 249	1 115	1 059			3.50
			1 458	1 361	**1 215**	1 154			**3.80**
SK-02	99 A4	6 PR	610	570	510	485			1.50
			700	655	585	555			1.75
			790	740	660	625			2.00
			865	805	720	685			2.25
			930	870	**775**	735			**2.50**
	111 A4	8 PR	990	925	825	780			2.75
			1 050	985	880	835			3.00
			1 110	1 040	925	875			3.25
			1 170	1 095	975	925			3.50
			1 230	1 150	1 025	970			3.75
			1 290	1 200	1 070	1 015			4.00
			1 320	1 235	**1 100**	1 045			**4.20**
SK-02	120 A2	8 PR	1 100	850	740	700			3.00
			1 170	900	790	750			3.25
			1 240	950	820	800			3.50
			1 300	1 000	860	850			3.75
			1 350	1 050	920	900			4.00
			1 400	1 110	990	940			**4.20**
SK-02	119 A4	8 PR	1 420	1 190	1 135	1 010			2.50
			1 535	1 285	1 225	1 090			2.75
			1 690	1 410	**1 350**	1 200			**3.10**
SK-01	127 A6	10 PR	1 430	1 355	1 300	1 180			3.00
			1 505	1 430	1 370	1 245			3.25
			1 585	1 505	1 440	1 310			3.50
			1 665	1 580	1 515	1 375			3.75
			1 745	1 655	1 585	1 440			4.00
			1 815	1 725	1 650	1 500			4.25
			1 890	1 800	1 720	1 565			4.50
			1 970	1 870	1 790	1 625			4.75
			2 045	1 945	1 860	1 690			5.00
			2 120	2 015	1 925	**1 750**			**5.25**

SK series (continued)

Technical data and load capacities

Tyre size	Tread pattern Type	Rim (permitted)	Tube Flap	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)	Tread depth (mm)	
				Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)				
10-16.5	SK-02 TL	8.25×16.5	–	773	264	792	285	345	2 340	22	
	SK-05 TL	8.25×16.5	–	805	259	840	280	366	2 355	35	
	BIG BOY TL	8.25×16.5	–	798	259	832	280	366	2 355	19	
12-16.5	SK-02 TL	9.75×16.5	–	831	307	851	331	370	2 515	22	
	SK-05 TL	9.75×16.5	–	836	305	873	329	384	2 475	35	
	BIG BOY TL	9.75×16.5	–	841	315	879	340	384	2 475	20.6	
14-17.5 IND	TR-10 TL	10.50×17.5	–	910	355	932	383	430	2 858	22	
10.5/80-18	BIG BOY TL	9×18	–	907	274	927	292	411	2 645	26	
12.5/80-18	BIG BOY TL	9×18	–	991	307	1 014	323	445	2 865	28	


BIG BOY

SK-01

SK-02

SK-05

TR-10

Tread pattern	Service description LI / SS	Ply rating	Tyre load capacity (kg) at speed (km/h)						Tyre pressure (bar)
			10	15	20	30	40	50	
SK-02 BIG BOY	131 A3	8 PR	1 640 1 730 1 825 1 915 2 005 2 090	1 530 1 615 1 700 1 785 1 870 **1 950**	1 365 1 440 1 520 1 595 1 670 1 740	1 195 1 265 1 335 1 400 1 465 1 525			2.50 2.75 3.00 3.25 3.50 **3.75**
SK-02 SK-05	135 A3	10 PR	2 100 2 215 2 330	1 960 2 070 **2 180**	1 750 1 845 1 945	1 540 1 645 1 710			4.50 4.75 **5.00**
SK-02 BIG BOY	140 A3	10 PR	2 075 2 210 2 330 2 440 2 525 2 575 2 635 2 690	1 935 2 060 2 170 2 280 2 360 2 400 2 450 **2 500**	1 730 1 840 1 940 2 035 2 105 2 145 2 195 2 240	1 520 1 615 1 700 1 785 1 845 1 880 1 925 1 965			2.50 2.75 3.00 3.25 3.50 4.00 4.25 **4.50**
SK-02 SK-05 BIG BOY	144 A3	12 PR	2 775 2 860 2 960 3 025	2 570 2 650 2 740 **2 800**	2 310 2 385 2 460 2 520	2 035 2 100 2 165 2 220			4.75 5.00 5.25 **5.50**
BIG BOY	147 A3	14 PR	3 120 3 220 3 320	2 890 2 980 **3 075**	2 600 2 680 3 010	2 290 2 360 2 650			5.75 6.00 **6.20**
TR-10	139 B	14 PR	2 760 2 890 3 030 3 165 3 345 3 565 3 780	2 575 2 700 2 830 2 950 3 150 3 320 3 550	2 480 2 600 2 730 2 850 3 010 3 205 3 400	2 205 2 315 2 425 2 530 2 675 2 850 3 025	1 970 2 065 2 165 2 260 2 390 2 545 2 700	1 775 1 860 1 950 2 035 2 150 2 290 **2 430**	3.20 3.50 3.80 4.10 4.50 5.00 **5.50**
BIG BOY	115 A8	10 PR	1 290 1 430 1 560 1 700		1 160 1 285 1 405 1 530	1 030 1 145 1 250 1 360	920 1 020 1 115 **1 215**	875 970 1 060 1 155	2.80 3.10 3.40 **3.70**
BIG BOY	128 A8	14 PR	1 750 1 960 2 170 2 270 2 350 2 435 2 520		1 575 1 765 1 955 2 040 2 120 2 190 2 270	1 400 1 570 1 735 1 815 1 880 1 950 2 015	1 250 1 400 1 550 1 620 1 680 1 740 **1 800**	1 190 1 330 1 475 1 540 1 595 1 655 1 710	2.50 2.80 3.10 3.40 3.70 4.00 **4.30**

Good stability

FL-08

HANDLING

RESISTANCE

SERVICE LIFE

Bias pneumatic – medium intensity applications
Strives to deliver optimum performances in various service conditions

Block tread design – improve traction performance.

Enhanced stability – tread pattern specifically designed to improve directional stability.

Shock absorbance – heavy duty service.


STABILITY


TYRE LIFE


COOL RUNNING

FL-08

Technical data and load capacities

Tyre size (Alternative size)	Type	Rim (permitted)	Section width (mm)	Overall diameter (mm)	Minimal dual spacing (mm)	
4.00-8	TT	3 1/4I-8	112	414	138	
15×4.5-8	TT	3.00D-8	117	381	140	
5.00-8	TT	3.00D-8	132	467	158	
16×6-8 (150/75-8)	TT	4.33R-8	152	425	175	
18×7-8 (180/70-8)	TT	4.33R-8	173	462	199	
6.00-9	TT	4.00E-9	160	540	192	
21×8-9 (200/75-9)	TT	6.00E-9	200	535	230	
6.50-10	TT	5.00F-10 (5.50F-10)	177	588	212 (218)	
7.50-10	TT	5.00F-10	205	643	242	
23×9-10 (225/75-10)	TT	6.50F-10	225	595	259	
7.00-12	TT	5.00S-12	192	672	230	
23×10-12	TT	8.00G-12	243	594	293	
27×10-12 (250/75-12)	TT	8.00G-12	261	681	293	
7.00-15	TT	5.50-15	198	748	236	
7.50-15	TT	6.0-15 (6.5-15)	212	772	254 (260)	
8.15-15 (28×9-15)	TT	7.0-15	216	707	248	
8.25-15	TT	6.5-15	234	836	281	
250-15 (250/70-15)	TT	7.50-15	250	735	288	
28×12.5-15	TT	9.75-15	274	727	326	
300-15 (315/70-15)	TT	8.00-15	300	840	345	

For dual application the loads are 88% of single tyre.

FL-08

	Tread depth (mm)	Service description LI/SS	Ply Rating	Tyre load capacity (kg)		Tyre pressure (bar)
				Load wheel	Steering wheel	
	6	94 A5 97 A5	8 PR 10 PR	870 950	670 730	9.00 10.00
	8	100 A5	12 PR	1 040	800	10.00
	11	106 A5 111 A5	8 PR 10 PR	1 235 1 415	950 1 090	8.25 10.00
	12	113 A5	16 PR	1 495	1 150	10.00
	14	121 A5 125 A5	14 PR 16 PR	1 885 2 145	1 450 1 650	9.00 10.00
	13	118 A5 121 A5	10 PR 12 PR	1 715 1 885	1 320 1 450	8.50 10.00
	15	131 A5 134 A5	14 PR 16 PR	2 535 2 755	1 950 2 120	9.00 10.00
	14	122 A5 125 A5 128 A5	10 PR 12 PR 14 PR	1 950 2 145 2 340	1 500 1 650 1 800	7.75 9.00 10.00
	15	133 A5	12 PR	2 680	2 060	8.00
	16	142 A5	20 PR	3 340	2 650	10.00
	15	133 A5 134 A5 136 A5	12 PR 14 PR 16 PR	2 680 2 755 2 910	2 060 2 120 2 240	8.50 9.00 10.00
	20	139 A5	16 PR	3 160	2 430	8.00
	18	143 A5 146 A5 152 A5	14 PR 16 PR 20 PR	3 545 3 900 4 615	2 725 3 000 3 550	7.00 8.00 10.00
	17	140 A5	14 PR	3 250	2 500	9.25
	21	144 A5 146 A5	14 PR 16 PR	3 640 3 900	2 800 3 000	9.25 10.00
	18	146 A5	14 PR	3 900	3 000	10.00
	23	149 A5 153 A5	14 PR 18 PR	4 225 4 745	3 250 3 650	8.00 10.00
	20	153 A5 155 A5	18 PR 20 PR	4 745 5 040	3 650 3 875	9.50 10.00
	17	151 A5	20 PR	4 535	3 490	9.00
	23	164 A5 165 A5	20 PR 22 PR	6 500 6 695	5 000 5 150	9.00 10.00

Good stability

FL-03

HANDLING	■■■■□
RESISTANCE	■■■■□
SERVICE LIFE	■■■□□

FL-07

HANDLING	■■■■□
RESISTANCE	■■■□□
SERVICE LIFE	■■■□□

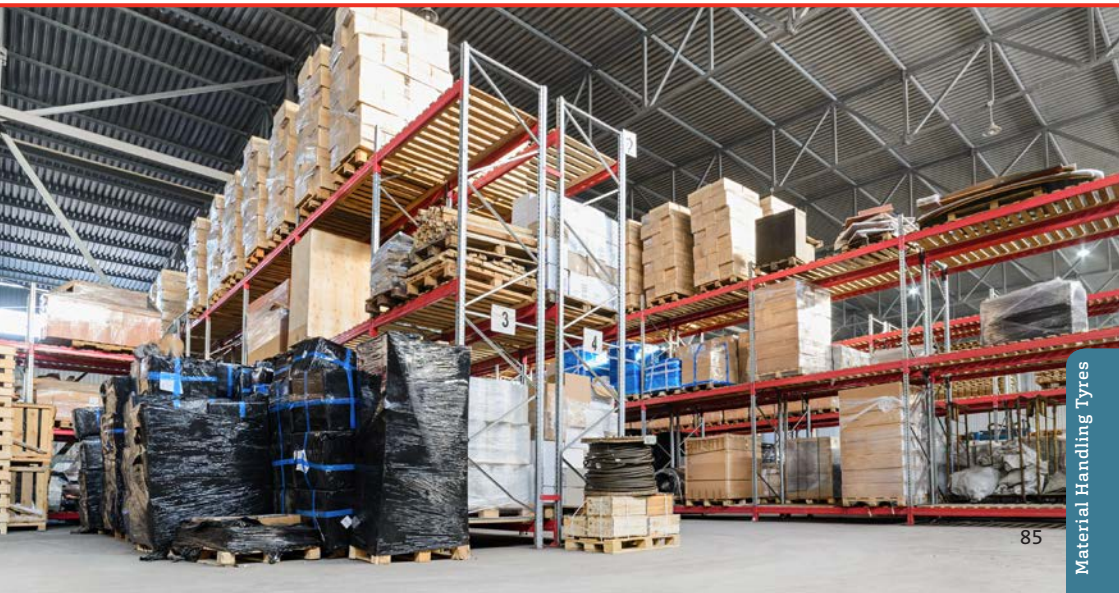
Material Handling diagonal tyres
Good handling in various service conditions

Tyre size	FL-03	FL-07	FL-08
4.00-8	•		•
15×4.5-8			•
5.00-8	•		•
16×6-8 (150/75-8)			•
18×7-8 (180/70-8)			•
6.00-9			•
21×8-9 (200/75-9)			•
6.50-10			•
7.50-10			•
23×9-10 (225/75-10)			•
7.00-12			•
23×10-12			•
27×10-12 (250/75-12)			•
23×5		•	
7.00-15			•
7.50-15			•
8.15-15 (28×9-15)			•
8.25-15			•
250-15 (250/70-15)			•
28×12.5-15			•
300-15 (315/70-15)			•

Counterbalanced lift trucks application		Maximum tyre load capacity (% of reference load)
25 km/h	Load wheel	130
	Steering wheel	100
35 km/h	Load wheel	125
	Steering wheel	92.5

Side-loaders application	Maximum tyre load capacity (% of reference load)
Static	151
25 km/h	100
35 km/h	92.5

Other vehicles application	Maximum tyre load capacity (% of reference load)
10 km/h	130
25 km/h	100
40 km/h	89
50 km/h	84



FL series

Technical data and load capacities

Tyre size	Tread pattern	Type	Rim (permitted)	Tube Flap	New		Max. in service		Loaded static radius (mm)	Minimal dual spacing (mm)	
					Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)			
4.00 - 8	FL-03	TT	3.00D - 8 3 1/4I - 8 *	4.00 - 8	414	112	422	121	188	134 138	
5.00 - 8	FL-03	TT	3.00D - 8	5.00 - 8	467	132	476	143	208	158	
23 × 5	FL-07	TT	3.75P - 13	23 × 5	635	155	654	167	290	186	

* obligatory for 8 PR and 10 PR


FL-03


FL-07

	Tread depth (mm)	Tread pattern	Service description LI / SS	Ply rating	Tyre load capacity (kg)		Tyre pressure (bar)
					Load wheel	Steering wheel	
	6	**FL-03**	90 A5	6 PR	780	600	8.00
			94 A5	8 PR	870	670	9.00
			97 A5	10 PR	950	730	10.00
	6	**FL-03**	106 A5	8 PR	1 235	950	8.25
	9.5	**FL-07**	113 A5	6 PR	1 495	1 150	5.25
			121 A5	10 PR	1 885	1 450	8.00

Use & Maintenance

Storage

- Keep the tyres clean and away from heat, light, ozone or hydrocarbon sources.
- Avoid prolonged exposure of the tyres to direct sunlight.
- Avoid any contact with grease, petrol, volatile solvents or other substances that may deteriorate the rubber.
- Avoid horizontal storage for tubeless tyres, only small size tyres may be stacked or stored flat (maximum 6 months).
- When tyres are stored flat (horizontal), the position must be lug against lug.
- Reduce inflation pressure when tyres are stored fitted on rims.
- Ensure there is no water or moisture inside the tyre.
- Never store tyres directly in contact with the ground for long periods.

Tyre repairs

- For safety reasons, repairs should only be carried out by specialists using the correct tools.

Proper use of tyres

- When loading tyres you have to consider the correlation between speed, inflation pressure and load capacity.
- Overloading results in premature tyre failure. Use the technical documentation and inflation tables which show the load and pressure figures for different operating speeds.
- Underinflation results not only in incorrect tread wear but also in ply separation and eventually further damage to the ply.
- Overinflation makes the tyre stiff and decreases its resistance against hits, leading to ply tear.

Check inflation pressure regularly

Avoid contact with grease, oil and other chemicals

Inspect tyres for damage and irregularities

Observe tyre and vehicle load limits

Read safety and maintenance recommendations

Use only authorised repair

Fitting and removal instructions

Demounting and mounting procedures can be dangerous, and should be performed only by trained and qualified staff, using proper tools and procedures. Failure to comply with these procedures may result in faulty positioning of the tyre on the rim, and cause the tyre to burst with explosive force leading to serious physical injury or death.

Fitting

1. Make sure that the rim, the tyre and the tube are compatible.
2. Check that the tyre is suitable for the machine. Use only rims recommended or permitted by the tyre manufacturer.
3. Always use the proper specialised equipment and tools.
4. The rim must be clean and in perfect condition (no damage, etc.). If necessary, clean the rim thoroughly with a wire brush. Never fit a tyre onto a rim that shows cracks, significant distortion, evidence of welded repair, etc.
5. Thoroughly inspect the inside as well as the outside of the tyre in order to identify any damage which may be present. If the damage is considered to be beyond repair, the tyre should be scrapped.
6. If fitting with a tube, always use the correct new tube and flap for the tyre size. For fitting tubeless tyres without tubes, on tubeless rims, always use a new tubeless valve.
7. Before fitting, lubricate the rim and the beads. Use only a suitable lubricant that will not damage the tyre (never use silicone or petroleum-based products).
8. We recommend vertical fitting. In case of horizontal fitting it is impossible to see if the lower bead is correctly seated.
9. Fit the tyre on the rim diametrically opposite to the valve hole (respect, if present, the rotation direction indicated by the arrows). With the help of a suitable lever and closely repeated applications, get the first bead over the rim flange. Then pose the lightly inflated talc coated tube (if fitted) inside the tyre. Locate the valve, fitting the ferrule loosely. Fit the second bead, lever it progressively over the rim flange, finish at the valve.
10. For seating the beads and centring of the tyre, remove the valve core. Slowly inflate to ensure correct seating of the beads. Ensure that the beads do not pinch the tube.
11. During tyre inflation keep at a safe distance and always use a safety cage. If possible, fasten the tyre to the wall or use retaining chains. During pressure readings ensure that no part of the body is within the possible trajectory of the valve mechanism or of the caps. It is recommended to use suitable pressure limitation gauges. Use a filter and dehumidifier on the compressed air line to avoid introducing humidity or dirt. Never use a hammer to make a tyre bead seat by hitting it.
12. Continue inflation. Make sure that you do not inflate beyond 2.5 bar if the beads are not well seated and centred on the wheel.
13. If the beads are not correctly seated, deflate, lubricate and inflate again. Repeat these operations until the beads are correctly seated.
14. When all the previous operations have been correctly done refit the valve core. Set the pressure according to the load – see tables in technical databook.
15. Make sure the valves do not touch the rims, the brake drums or other fixed mechanical parts.

Removing

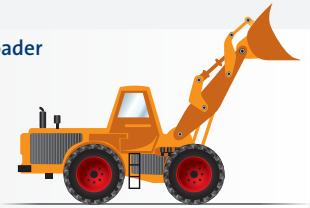
- Never try to unseat the beads of an inflated tyre.
- Always remove the valve core.
- Let the tyre deflate, check before unseating that the tyre is completely deflated. Never use tools that could damage the rims or the beads of the tyre.

Earthmover tyres

"L" series type tyres

"L" series type tyres are used on all size loaders and dozers in off-road applications. Most loader type tyres, because of their extremely heavy construction, are limited to very low speeds and very short haul distances, 10 km/h and 250 m maximum.

Wheeled Loader



Wheeled Dozer

Loader Service: Closed working cycle
Low speed – up to 10 km/h
Short distance – up to 250 m

Dozer Service: Pushes or grades material
Low speed – up to 10 km/h
Travel distance varies

Load and Carry Service: Picks up and transports material
Low speed – up to 25 km/h
Short distance – cycle length up to 600 m

"L" series tyres are categorized by **number code**, type and tread **depth**.

Number code	Type	Tread depth
L-2	Traction Design	Regular Tread Depth
L-3	Rock Design	Regular Tread Depth

Below are examples of Mitas "L" Series tyres

L-2

L-3

The letter designation and number code is found on the sidewalls of tyres.
The **L-2** traction design tyre gives maximum traction in sand and soft soil conditions.
The **L-3** rock design offers good traction and rock resistance in general purpose loader operations.

These illustrations show different lug to void ratios.

TRACTION TYPE
L-2 DESIGN

ROCK TYPE
L-3 DESIGN

MITAS has also developed comparison ratings for "L" series type tyres.
Note: The numbers are relative ratings with the L-3 tyre rated at 100. For example, the L-2 tyre has 20 % better traction than the L-3. Certain tyre construction features and applications can affect these ratings.

The data below could vary from operation and / or from size to size of tyre.

"L" series tyres				
	Traction	Rock resistance	Tread wear	Lug to Void ratio
L-2	120	90	90	1 : 1
L-3	100	100	100	1 : 2

Determining Inflation Pressures for Loaders

1 – By weighing the machine axle

- Determine the maximum load on each tyre by weighing, this is the only way of setting tyre pressures accurately for optimum performance
- Use the table "Variation in load capacity with speed" for LOADERS to determine the pressure
  Front axle: for laden front axle (bucket full)
  Rear axle: for unladen rear axle (bucket empty)

2 – By calculation, using the machine manufacturer's data

When the machine is loading with the bucket penetrating into the material, the loader is often on the point of tipping.

It is in this state that the front tyres are most heavily laden.

- Determine the maximum load / tyre on the front and rear axles

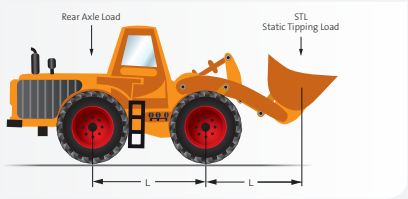
FRONT axle

The load on the front axle is equal to the total unladen weight of the machine + the tipping load (tipping load is shown in machine manufacturer's data).

REAR axle (bucket empty)

- Use either the unladen rear axle load given by the machine manufacturer, or
- Take 60 % of the unladen weight of the machine (to have a margin of safety)

Earthmover tyres (continued)



Example calculation (for a loader with the following characteristics):

Tyre equipment:	23.5 - 25 16 PR EM-30 TL	
Unladen weights:	Front:	8 000 kg (1)
	Rear:	8 500 kg (2)
	Total:	16 500 kg (3)
Straight line tipping load:		13 900 kg (4)

Maximum axle load – Front (static*)
(3) + (4) = 30 400 kg or 15 200 kg per tyre

Maximum axle load – Rear
(2) = 8 500 kg or 4 250 kg per tyre

Base pressures as per table "Variation in load capacity with speed"
Front = 300 kPa (* increase for static load from 10 km/h is 60 %, 15 200 / 1.6 = 9 500 kg)
Rear = 250 kPa (calcuated with a margin of safety for speed 25 km/h)

Important

The rule to determine pressures by calculation applies to loaders of standard specifications, which have not been modified for special use. The calculated pressures are the minimum for the loads and may be increased to obtain a desired level of handling, or for particular applications, (but must remain within the published load / pressure schedule for the tyre size and type). In the case of long travel distances (e.g. delivery of new machine, transfer from one site to another, etc.), specific precautions need to be taken:

Vehicles in Transit

- Vehicles must be empty during transit
- Set inflation pressure on cold tyres to the maximum value permitted by the table "Variation in load capacity with speed" for loaders
- Maximum vehicle speed 35 km/h
- Cooling stop 30 minutes after each 50 km transit
- Transit to a distance longer than 100 km is not recommended and the vehicle must be transported on a trailer

The inflation pressure will increase during roading of the vehicles. The pressure must not be lowered when tyres are warm.

Determining Inflation Pressures for Dozers:

Depending on the type of work, tyres on a dozer are subjected to different types of loading.

- The load on the Front Axle is maximum when loading (pushing) a scraper
- The load on the Rear Axle is maximum when dozing or whilst stockpiling

From a practical viewpoint, the maximum load on either of the two axles is approximately equal to 2 / 3 of the machine weight.

- Using this method determine the load on each tyre
- Use the table "Variation in load capacity with speed"

Determining Inflation Pressures for Telescopic Handlers

In the case of telescopic handlers the pressures recommended by the machine manufacturer should be used. These pressures are determined by the machine manufacturer after conducting a "Tilt Test" for stability. In the absence of the machine manufacturer's recommendation, use the pressure corresponding to the maximum normalised load as shown in the table "Variation in load capacity with speed" for LOADERS for both front and rear tyres.

List of homologations

Inch	Tyre size	Alternative tyre size	Tread pattern	DOT 119	ECE R.54	M + S	ECE R.106	ECE R.117	EC 2001/43
EM Diagonal Tyres									
20"	500/45-20		TI-12				•		
22.5"	500/60-22.5		TI-12				•		
	600/40-22.5		TI-12				•		
Light Equipment Diagonal Tyres									
18"	280/80-18	(10.5-18)	MPT-01				•		
	10.5-18		MPT-02			•			
	340/80-18	(12.5-18)	MPT-01				•		
19.5"	18-19.5		MPT-03						•
20"	340/80-20	(12.5-20)	MPT-01				•		
	16/70-20	(405/70-20)	MPT-02			•			
	405/70-20	(16/70-20)	MPT-01				•		
24"	405/70-24	(16/70-24)	MPT-01				•		
Crane Radial Tyres									
25"	385/95 R 25		CR-01	•	•	•			
	445/95 R 25		CR-01	•	•	•			
	445/95 R 25		CR-02		•	•			
	525/80 R 25		CR-01	•	•	•			
MPT Radial Tyres									
18"	335/80 R 18	(12.5 R 18)	EM-02	•	•				•
20"	335/80 R 20	(12.5 R 20)	MPT-20	•	•	•			•
	335/80 R 20	(12.5 R 20)	MPT-21	•	•	•			•
	365/80 R 20	(14.5 R 20)	MPT-20	•	•	•			•
	365/80 R 20	(14.5 R 20)	MPT-21	•	•	•			•
	405/70 R 20	(16/70 R 20)	MPT-21	•	•	•			•
22.5"	275/90 R 22.5		SRT2	•	•	•		•	•
	375/75 R 22.5		MPT-23		•	•			•
24"	405/70 R 24	(16/70 R 24)	MPT-21	•	•	•			•
	445/70 R 24	(17.5L R 24)	MPT-22		•				•
MPT Diagonal Tyres									
18"	12.5-18		MPT-03		•	•			•
20"	10.5-20		MPT-05		•	•			•
	10.5-20		MPT-07	•	•	•			•
	12.5-20		MPT-03		•	•			•
	12.5-20		MPT-05		•	•			•
	14.5-20		MPT-03		•	•			•
	14.5-20		MPT-05		•	•			•
	16/70-20	(405/70-20)	MPT-05		•	•			•
	405/70-20	(16/70-20)	MPT-03		•	•			•
Tractor Industrial Radial Tyres									
18"	340/80 R 18 IND		TI-20				•		
24"	460/70 R 24 IND	(17.5L R 24)	TI-22				•		
26"	480/80 R 26 IND		TI-20				•		
28"	440/80 R 28 IND		TI-20				•		
Construction Applications Diagonal Tyres									
18"	320/80-18 IND	(12.5/80-18)	TR-09				•		
	340/80-18 IND	(12.5-18)	MPT-04				•		
20"	280/80-20 IND	(10.5-20)	MPT-04				•		
	340/80-20 IND	(12.5-20)	MPT-04				•		
	360/85-20 IND	(14.5-20)	MPT-04				•		
	400/70-20 IND	(16.0/70-20)	MPT-04				•		
	400/75-20 IND	(16.0/70-20)	TR-09				•		
22.5"	480/65-22.5 IND	(18-22.5)	MPT-06				•		
24"	400/70-24 IND		MPT-04				•		
	400/80-24 IND	(15.5/80-24)	TI-05				•		
	16.9-24 IND		TI-04				•		
	16.9-24		TG-01				•		
	17.5L-24 IND		TI-02				•		
	460/70-24 IND	(17.5L-24)	TI-05				•		
	19.5L-24 IND		TI-05				•		
	19.5L-24 IND		GRIP-n-RIDE				•		
	500/70-24 IND	(19.5L-24)	TI-05				•		
	21L-24 IND		GRIP-n-RIDE				•		
26"	18.4-26 IND		TI-06				•		
28"	16.9-28 IND		TI-06				•		
	16.9-28		TG-01				•		
30"	440/80-30 IND	(16.9-30)	TI-09				•		

DOT 119 Nat'l Highway Traffic Safety Admin., DOT § 571.119 Standard No. 119; New pneumatic tyres for motor vehicles with a GVWR of more than 4 536 kilograms (10 000 pounds) and motorcycles.

ECE R.54 European Regulation No. 54; Uniform provisions concerning the approval of pneumatictyres for commercial vehicles and their trailers.

M + S Mud & Snow Pattern

ECE R.106 European Regulation No. 106; Uniform provisions concerning the approval of pneumatictyres for agricultural vehicles and their trailers.

ECE R.117 European Regulation No. 117; Uniform provisions concerning the approval of tyres with regard to rolling sound emissions and to adhesion on wet surfaces and/or to rolling resistance.

EC 2001/43 European Directive 2001/43/EC relating to tyres for motor vehicles and their trailers and to their fitting: noise from tyres.

Rim specification

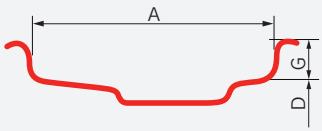
Sample of rim marking

DW18L×38	Meaning
DW	Rim Contour
18	Nominal Rim Width in inches
L	Flange Height code
x	One-piece rim
38	Nominal Rim Diameter in inches

Further samples of marking

	Meaning
W	Wide Drop Centre – Single Well shape rim
DW	Wide Drop Centre – Double Well shape rim
SDC	Semi-drop Centre rim
–	Multi-piece rim
x	One-piece rim
H2	Double Hump
DC	Drop Centre rim

5° Drop Centre rims

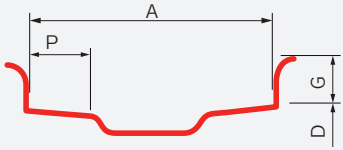


RIM	A	G	D
9.00×15.3	228.6	19.0	388.8
9×18	228.6	25.4	462.0
11×18	279.4	25.4	462.0
12×18	304.8	25.4	462.0
13×18	330.2	25.4	462.0
9×20	228.6	25.4	512.8
11×20	279.4	25.4	512.8
12×20	304.8	25.4	512.8
13×20	330.2	25.4	512.8
16.0×20	406.5	25.5	512.8
13×24	330.2	25.4	614.4
13.0×24	330.2	25.4	614.4

15° Drop Centre rims

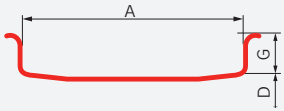
RIM	A	G	D
8.25×16.5	209.6	12.7	419.1
9.75×16.5	247.6	12.7	419.1
10.50×17.5	266.5	12.7	444.5
13.00×19.5	330.2	12.7	495.3
8.25×22.5	209.5	12.7	571.5
11.75×22.5	298.5	12.7	571.5
14.00×19.5	355.6	12.7	495.3
16.00×22.5	406.4	12.7	571.5
20.00×22.5	508.0	12.7	571.5

5° Full Tapered rims



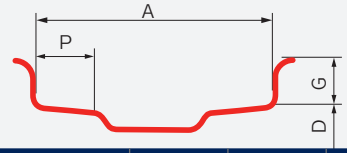
RIM	A	G	D
11.25/2.0 - 25	286.0	51.0	635.0
13.00/2.5 - 25	330.2	63.5	635.0
15.00/2.5 - 25	381.0	63.5	635.0
17.00/2.0 - 25	431.8	50.8	635.0
19.50/2.5 - 25	495.3	63.5	635.0
22.00/3.0 - 25	558.8	76.2	635.0
24.00/3.0 - 25	609.6	76.2	635.0
25.00/3.5 - 25	635.0	89.0	635.0
22.00/3.0 - 29	558.8	76.2	736.6
24.00/3.0 - 29	609.6	76.2	736.6
13.00/2.5 - 33	330.2	63.5	838.2

5° Tapered rims



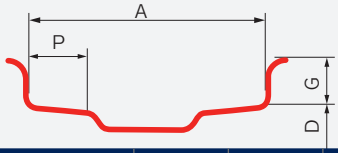
RIM	A	G	D
6.0 - 15	152.4	33.0	387.4
6.5 -15	165.1	35.6	387.4
7.0 - 15	177.8	38.1	387.4
6.0 - 20	152.4	33.0	514.4
6.5 - 20	165.1	35.6	514.4
7.0 - 20	177.8	38.1	514.4
7.5 - 20	190.5	40.6	514.4
8.0 - 20	203.2	43.2	514.4
8.5 - 20	215.9	45.7	514.4
9.0 - 20	228.5	48.5	514.4

5° Full Tapered rims



RIM	A	G	D
9.50/1.7 CR - 25	241.5	43.0	635.0
10.00/1.5 - 25	254.0	38.1	635.0
11.00/1.7 CR - 25	279.5	43.0	635.0
12.00/1.3 - 25	304.8	33.0	635.0
14.00/1.5 - 25	355.6	38.1	635.0
17.00/1.7 - 25	431.8	43.2	635.0

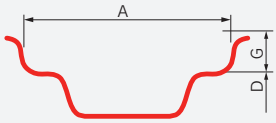
5° Semi-Drop Centre rims



RIM	A	G	D
9×20 SDC	228.6	25.4	512.8
11×20 SDC	279.4	25.4	512.8
12×20 SDC	304.8	25.4	512.8
13×20 SDC	330.2	25.4	512.8
13×24 SDC	330.2	25.4	614.4
8.00 TG×24 SDC	203.2	35.7	614.4
16.00 T - 24 SDC	406.4	35.7	614.4
10.00 VA×24 SDC	254.0	43.2	614.4

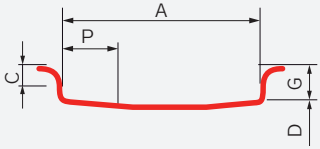
Rim specification (continued)

5° Drop Centre rims



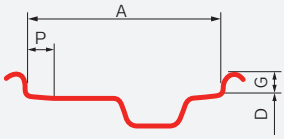
RIM	A	G	D
7.00×12	177.8	20.5	304.0
7.00×15	177.8	20.5	380.2
7 JA×15	177.8	16.0	380.2
8 J×15	203.0	17.3	380.2
8.50×15	216.0	17.3	380.2
13 LB×15	330.0	22.0	380.2
8 LB×16	203.0	22.0	405.6

5° Tapered rims



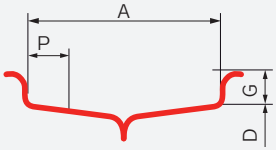
RIM	A	G	D
3.00 D-8	76.2	17.5	202.4
4.00 E-9	101.6	19.8	227.8
6.00 E-9	152.4	19.8	227.8
5.00 F-10	127.0	22.2	253.2
5.50 F-10	139.7	22.2	253.2
6.50 F-10	165.1	22.2	253.2
5.00 S-12	127.0	31.3	308.8
8.00 G-12	203.2	27.9	304.0

5° Drop Centre rims



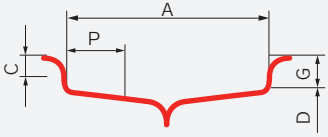
RIM	A	G	D
9.00/1.5-24	228.6	38.0	614.4
13.00/1.4-25	330.2	35.8	635.0
14.00/1.3-25	355.6	33.0	635.0

5° Tapered rims – Divided Type



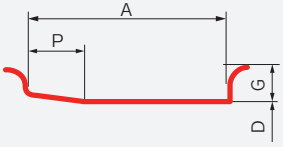
RIM	A	G	D
3 1/4 I-8	82.5	15.8	202.4
5.00 S-12	127.0	31.3	308.8

Flat Base rims – Divided Type



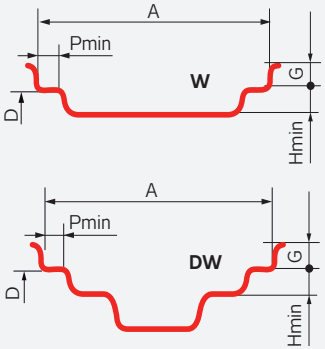
RIM	A	G	D
4.33 R-8	110.0	27.8	205.1

Flat Base rims



RIM	A	G	D
3.75 P-13	95.2	25.4	330.2
4.33 R-8	110.0	28.6	202.4

W and DW rims



RIM	A	G	P min.	H min.
W 12	305.0	25.4	27.0	20.6
W 13	330.2	25.4	27.0	20.6
W 14 L	355.6	25.4	27.0	20.6
W 15 L	381.0	25.4	33.0	20.6
W 16 L	406.4	25.4	33.0	20.6
DW 13	330.2	25.4	27.0	20.6
DW 20 A	508.0	28.6	50.8	27.0
DW 14 L	355.6	25.4	36.5	27.0
DW 15 L	381.0	25.4	36.5	27.0
DW 16 L	406.4	25.4	50.5	27.0
DW 18	457.2	25.4	50.8	27.0
DW 20	508.0	28.6	41.3	27.0

Nominal	24"	26"	28"	30"
D	614.4	665.2	716.0	766.8

Terms and shortcuts used in this catalogue

Acronyms	Meaning	Definition
PR	Ply Rating	Identifies different versions (load capacity/inflation pressure) of tyres having the same size designation.
TYPE	Tubeless or Tube Type	Tubeless (TL) – Tyres specifically designed for fitment without an inner tube on appropriate rims. Tubeless tyres may be used with a tube.
LI	Load Index	Is a numerical code associated with the maximum load a tyre can carry at the speed indicated by its Speed Symbol under service conditions specified by the tyre manufacturer.
SS	Speed Symbol	Indicated the maximum speed at which the tyre can carry a load corresponding to its Load Index under service conditions specified the tyre manufacturer.
	Free Rolling Wheels	Free rolling wheels, that not transmit motion, e.g. trailer.
	Drive Wheels	Drive wheels, that transmit motion, e.g. drive wheel axle on tractors.
RIM	Recommended Rim	The rim which gives the best fitment of the tyre for all conditions and types of service.
RIM (PERMITTED)	Permitted Rim	Any rim which can be permitted in addition to the recommended rim.
	New Tyre Dimensions	The dimensions of an unloaded new tyre mounted on its Measuring Rim at the recommended inflation pressure and allowed to stand for a minimum of 24 hours at normal room temperature before readjustment of the pressure back to its original level.
	Section Width (design)	The linear distance between the outsides of the sidewalls of an inflated new tyre excluding elevations due to labelling (marking), decorations, or protective bands or ribs.
	Overall Diameter (design)	The diameter of an inflated tyre at the outermost surface of the tread.
	Static Radius (theoretical nominal)	The radius of the new tyre loaded at the maximum load capacity and with the corresponding tyre pressure.
	Rolling Circumference (theoretical nominal)	The circumference of the tyre loaded at the maximum load capacity and with the corresponding tyre pressure.

Acronyms	Meaning	Definition
LOAD CAPACITY	Tyre Load Carrying Capacity	The maximum load (kg) a tyre is permitted to carry under specified operating conditions. In the case of twin-fitted driven wheels, a factor of 1.76 is applied to the load capacity of a single fitment tyre.
	Inflation Pressure	The “cold” pressure (kPa) of the fluid with which the tyre is inflated.
HLV	High Load Variation	Is where the tyre load varies by a factor of “2” or more between loaded and unloaded conditions. The inflation pressure for HLV application must be increased, consult tyre manufacturer. In the case of HLV, the maximum distance should not exceed 1 km and maximum speed 10 km/h. For a longer distance or higher speed, consult tyre manufacturer. Example of purpose: without HLV - normal use with constant load in transport service, on tractor in field service, e.g. trailer, tractor; with HLV – use with various load conditions, factor > 2 between loaded and unloaded, e.g. loaders.
LLV	Low Load Variation	Standard application with low load difference between loaded and unloaded conditions.
ETRTO	The European Tyre and Rim Technical Organisation	Data in this Technical Databook are relevant with ETRTO standards, the further data you can find there.
	Nominal Section Width	The section width of an inflated tyre mounted on its theoretical rim and indicated in the tyre size designation.
IND		Agricultural tyres for traction wheels for construction applications with load capacities and inflation pressures which differ from those for tyres which the same size designation for use on agricultural tractors.
REINFORCED		Tyres with better protection against tyre damage (puncture). The load capacity and tyre dimensions stay like standard execution.

Trelleborg Wheel Systems Czech Republic a.s.
Švehlova 1900/3, 106 00 Prague 10, Czech Republic

Trelleborg Wheel Systems Czech Republic a.s. is fully compliant with the limits on Polycyclic AromaticHydrocarbons (PAHs) determined by the European Directive EC/2005/69 and REACH Regulation EC/1907/2006, since December 1st 2009.

Your Distributor/Dealer:

Mitas

mitas-tyres.com