EM, MPT & Industrial Tyres

TECHNICAL DATABOOK 12TH EDITION

Mitas

Introduction

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.

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For more information, including addresses of our sales organisations, please visit **www.mitas-tyres.com**.

Edition 2012–2013

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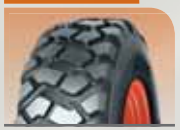
ERL-20 12 
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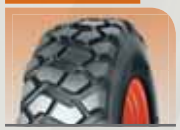
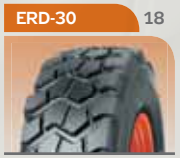
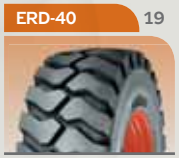
ERD-20 18 
ERD-30 18 
ERD-40 19 
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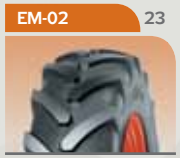
EM-02 23 
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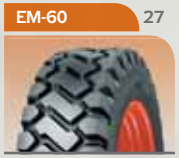
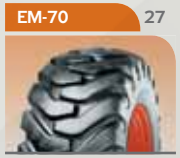
EM-60 27 
EM-70 27 
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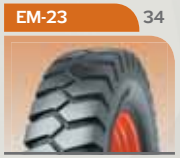
EM-23 34 
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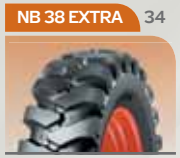
NB 38 EXTRA 34 
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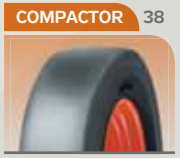
COMPACTOR 38 
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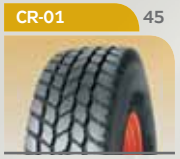
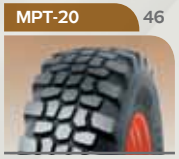
CR-01 45 
MPT-20 46 
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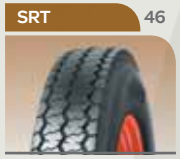
SRT 46 
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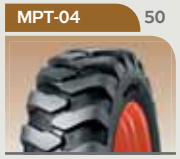
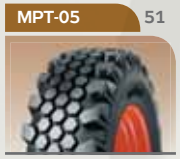
MPT-04 50 
MPT-05 51 
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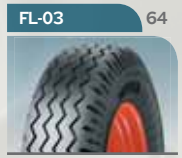
FL-03 64 
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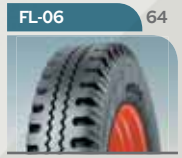
FL-06 64 
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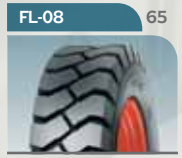
FL-08 65 
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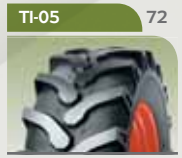
TI-05 72 
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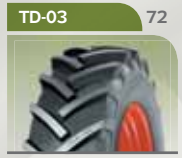
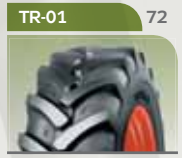
TD-03 72 
TR-01 72 
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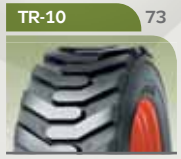
TR-10 73 
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List of tyre sizes

Size (inch)	Tyre size	Alternative tyre size	Tread pattern	Page
EARTHMOVER RADIAL TYRES				
18″	335/80 R 18	(12.5 R 18)	EM-02	24
	365/70 R 18		EM-01	24
	405/70 R 18	(16/70 R 18)	EM-01	24
20″	335/80 R 20	(12.5 R 20)	EM-01	24
	365/80 R 20	(14.5 R 20)	EM-01	24
	405/70 R 20	(16/70 R 20)	EM-01	24
24″	405/70 R 24	(16/70 R 24)	EM-01	24
	440/70 R 24	(17.5 L R 24)	EM-02	24
25″	17.5 R 25		ERL-20	14–20
	17.5 R 25		ERL-30	14–20
	20.5 R 25		ERL-20	14, 16
	20.5 R 25		ERL-30	14, 16
	20.5 R 25		ERL-50	14, 16
	20.5 R 25		ERD-20	20
	20.5 R 25		ERD-30	20
	23.5 R 25		ERL-20	14, 16
	23.5 R 25		ERL-30	14, 16
	23.5 R 25		ERL-40	14, 16
	23.5 R 25		ERL-50	14, 16
	23.5 R 25		ERD-20	20
	23.5 R 25		ERD-30	20
	23.5 R 25		ERD-40	20
	26.5 R 25		ERL-30	14, 16
	26.5 R 25		ERL-40	14, 16
	26.5 R 25		ERD-30	20
	26.5 R 25		ERD-40	20
	750/65 R 25		ERL-30	14, 16
	750/65 R 25		ERD-30	20
EARTHMOVER DIAGONAL TYRES				
20″	8.25–20		NB 38	36
	8.25–20		NB 38 Extra	36
	9.00–20		NB 38	36
	9.00–20		NB 38 Extra	36
	9.00–20		EM-22	36
	10.00–20		NB 38	36
	10.00–20		NB 38 Extra	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
	11.00–20		NB 57	36
	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

Size (inch)	Tyre size	Alternative tyre size	Tread pattern	Page
20″	500/45–20		TR-12	36
22.5″	500/60–22.5		TR-12	36
	600/40–22.5		TR-12	36
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
	20–24	(22/70–24)	EM-70	28
25″	15.5–25		EM-20	28
	15.5–25		EM-30	28
	15.5–25		EM-60	28
	15.5–25		EM-80	28
	17.5–25		EM-20	28
	17.5–25		EM-30	28
	17.5–25		EM-60	28
	17.5–25		EM-80	30
	18.00–25		EM-20	30
	18.00–25		EM-30	30
	20.5–25		EM-20	30
	20.5–25		EM-30	30
	20.5–25		EM-60	30
	23.5–25		EM-30	30, 32
	23.5–25		EM-60	30, 32
26″	23.1–26 IND		UK 5	42
	23.1–26 IND		UK 10	42
	23.1–26		TD-01	42
29″	26.5–29		EM-30	32
CRANE RADIAL TYRES				
25″	385/95 R 25		CR-01	44
	445/95 R 25		CR-01	44
MULTIPURPOSE RADIAL TYRES				
18″	335/80 R 18	(12.5 R 18)	EM-02	48
20″	335/80 R 20	(12.5 R 20)	MPT-20	48
	335/80 R 20	(12.5 R 20)	MPT-21	48
	365/80 R 20	(14.5 R 20)	MPT-20	48
	365/80 R 20	(14.5 R 20)	MPT-21	48
	405/70 R 20	(16/70 R 20)	MPT-21	48
22.5″	275/90 R 22.5		SRT	48
24″	405/70 R 24	(16/70 R 24)	MPT-21	48
	445/70 R 24	(17.5 L R 24)	MPT-22	48
MULTIPURPOSE DIAGONAL TYRES				
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	10.5–18		MPT-02	52
	12.5–18		MPT-01	52
	12.5–18		MPT-03	52
18″	12.5–18		MPT-04	52
19.5″	18–19.5		MPT-02	54

Size (inch)	Tyre size	Alternative tyre size	Tread pattern	Page
19.5″	18–19.5		MPT-03	54
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	18–19.5		MPT-08	54
20″	10.5–20		MPT-04	54
	10.5–20		MPT-05	54
	10.5–20		MPT-07	54
	12.5–20		MPT-01	56
	12.5–20		MPT-03	56
	12.5–20		MPT-04	56
	12.5–20		MPT-05	56
	14.5–20		MPT-03	56
	14.5–20		MPT-04	56
	14.5–20		MPT-05	56
	16/70–20	(405/70–20)	MPT-02	56
	16/70–20	(405/70–20)	MPT-04	56
	16/70–20	(405/70–20)	MPT-05	56
	405/70–20	(16/70–20)	MPT-01	56
	405/70–20	(16/70– 20)	MPT-03	56
22.5″	18–22.5		MPT-06	58
24″	405/70–24	(16/70–24)	MPT-01	58
	405/70–24	(16/70–24)	MPT-04	58
INDUSTRIAL RADIAL TYRES				
20″	12.00 R 20		FLR-01	62
	16.00 R 25		SC-01	62
	18.00 R 25		CH-01	62
INDUSTRIAL DIAGONAL TYRES				
8″	4.00–8		FL-03	66
	4.00–8		FL-08	66
	5.00–8		FL-01	66
	5.00–8		FL-03	66
	5.00–8		FL-08	66
	16×6–8		FL-08	66
	18×7–8		FL-08	66
9″	6.00–9		FL-01	66
	6.00–9		FL-02	66
	6.00–9		FL-08	66
	21×8–9		FL-08	66
10″	6.50–10		FL-01	66
	6.50–10		FL-02	66
	6.50–10		FL-08	66
	23×9–10		FL-08	66
12″	7.00–12		FL-01	66
	7.00–12		FL-02	66
	7.00–12		FL-08	66
	250/75–12	(27×10–12)	FL-08	66
13″	23×5		FL-05	66
	23×5		FL-07	66

Size (inch)	Tyre size	Alternative tyre size	Tread pattern	Page
15″	7.50–15		FL-08	66
	8.15–15		FL-04	66
	8.15–15		FL-08	66
	8.25–15		FL-06	66
	8.25–15		FL-08	66
	250–15		FL-08	66
	300–15		FL-08	66
TRACTOR INDUSTRIAL RADIAL TYRES				
18″	340/80 R 18		TI-20	70
24″	460/70 R 24 IND		TI-22	70
26″	480/80 R 26 IND		TI-20	70
28″	440/80 R 28 IND		TI-20	70
TRACTOR INDUSTRIAL DIAGONAL TYRES				
17.5″	14–17.5		TR-10	74
18″	12.5/80–18		TR-09	74
	14.5/80–18		TR-05	74
20″	16.0/70–20		TR-09	74
	400/70–20		TR-01	76
24″	15.5/80–24		TR-01	76
	400/80–24 IND		TI-05	76
	16.9–24 IND		TI-04	76
	17.5 L–24		TI-02	76
	17.5 L–24		TR-01	76
	19.5 L–24 IND		TI-05	76
	19.5 L–24 IND		GRIP-n-RIDE	76
	460/70–24 IND		TR-01	78
	460/70–24 IND		TI-05	78
	500/70–24 IND		TI-05	78
26″	18.4–26 IND		TI-06	78
28″	16.9–28 IND		TI-06	78
	16.9–28		TG-01	78
30″	16.9–30 IND		TI-09	78
	16.9–30 IND		TD-03	78
SKID STEER DIAGONAL TYRES				
12″	23×8.50–12		SK-02	82
15″	27×8.50–15		SK-02	82
	27×10.50–15		SK-02	82
15.3″	10.0/75–15.3 IND		SK-01	82
16.5″	10–16.5		SK-02	84
	10–16.5		SK-05	84
	10–16.5		BIG BOY	84
	12–16.5		SK-02	84
	12–16.5		SK-05	84
	12–16.5		BIG BOY	84
17.5″	14–17.5		TR-10	84
18″	10.5/80–18		BIG BOY	84
	12.5/80–18		BIG BOY	84

Tyre size marking

750/65 R 25	
750	Nominal section width (in mm)
65	Aspect ratio H/SW (in %)
R	Radial construction
25	Nominal rim diameter (in inches)

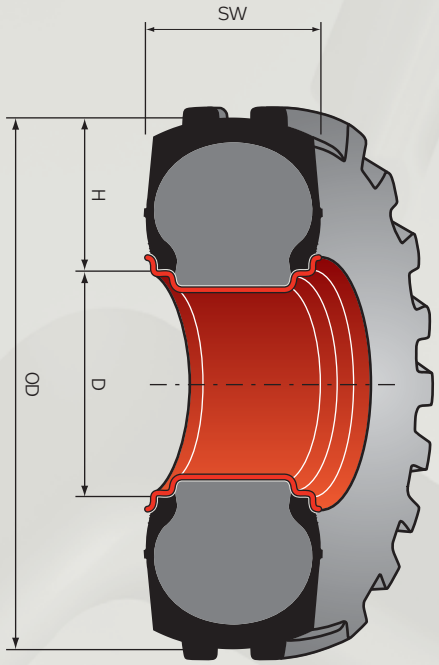
16/70–20	
16	Nominal section width (in inches)
70	Aspect ratio H/SW (in %)
–	Cross-ply construction
20	Nominal rim diameter (in inches)

27×8.50–12	
27	Overall diameter (in inches)
8.50	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	A2	A3	A4	A5	A6	A7	A8	B	D	E	F	G	J	K
Speed (km/h)	10	15	20	25	30	35	40	50	65	70	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) = 0.3937″
1 inch (″) = 25.4 mm = 0.0254 m
1 metre (m) = 3.281 ft
1 foot (ft) = 0.3048 m
1 kilometre (km) = 0.6214 mile
1 mile = 1609 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 tyres size marking
EM-02	Tread Pattern code
147	Load index (LI 147=3075 kg)
B	Speed symbol (B=50 km/h)
164	Load index (LI 164=5 000 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 90º 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 90º to the centre-line of the tread, the carcass being stabilised by an essentially inextensible circumferential belt.

Load index

LI	kg	LI	kg	LI	kg	LI	kg
80	450	113	1 150	146	3 000	179	7 750
81	462	114	1 180	147	3 075	180	8 000
82	475	115	1 215	148	3 150	181	8 250
83	487	116	1 250	149	3 250	182	8 500
84	500	117	1 285	150	3 350	183	8 750
85	515	118	1 320	151	3 450	184	9 000
86	530	119	1 360	152	3 550	185	9 250
87	545	120	1 400	153	3 650	186	9 500
88	560	121	1 450	154	3 750	187	9 750
89	580	122	1 500	155	3 875	188	10 000
90	600	123	1 550	156	4 000	189	10 300
91	615	124	1 600	157	4 125	190	10 600
92	630	125	1 650	158	4 250	191	10 900
93	650	126	1 700	159	4 375	192	11 200
94	670	127	1 750	160	4 500	193	11 500
95	690	128	1 800	161	4 625	194	11 800
96	710	129	1 850	162	4 750	195	12 150
97	730	130	1 900	163	4 875	196	12 500
98	750	131	1 950	164	5 000	197	12 850
99	775	132	2 000	165	5 150	198	13 200
100	800	133	2 060	166	5 300	199	13 600
101	825	134	2 120	167	5 450	200	14 000
102	850	135	2 180	168	5 600	201	14 500
103	875	136	2 240	169	5 800	202	15 000
104	900	137	2 300	170	6 000	203	15 500
105	925	138	2 360	171	6 150	204	16 000
106	950	139	2 430	172	6 300	205	16 500
107	975	140	2 500	173	6 500	206	17 000
108	1 000	141	2 575	174	6 700	207	17 500
109	1 030	142	2 650	175	6 900	208	18 000
110	1 060	143	2 725	176	7 100	209	18 500
111	1 090	144	2 800	177	7 300	210	19 000
112	1 120	145	2 900	178	7 500	211	19 500

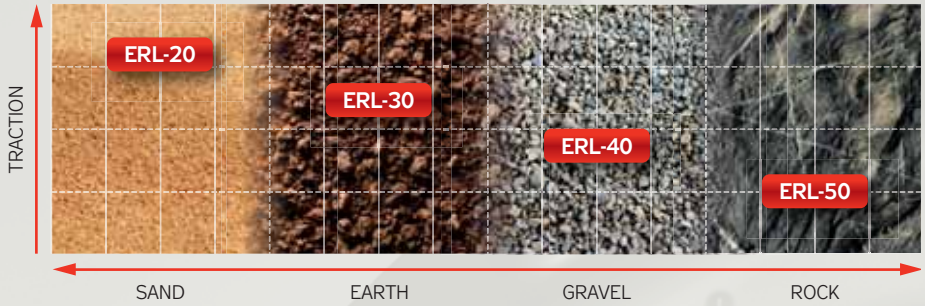
Tyre size	ERL-20	ERL-30	ERL-40	ERL-50
17.5 R 25	●	●		
20.5 R 25	●	●		●
23.5 R 25	●	●	●	●
26.5 R 25		●	●	
750/65 R 25		●		

ERL series – earthmover radial tyres
ready to move the Earth

Loader / grader service

> **All steel radial** construction
> **Reduced fuel consumption** due to lower rolling resistance
> **Higher resistance** against tyre puncture
> **Suitable for retreading** thanks to high durability of carcass
> **Excellent driving comfort** guaranteed by advanced construction

Surface suitability chart – ERL series / ERD series



ERL-20

Sand | Earth | Gravel | Rock

> Designed for **soft and muddy terrain**
> **Excellent traction**
> **Good self-cleaning properties**

Excellent traction

ERL-20 (L-2/G-2)

TRACTION	●●●●●
SERVICE LIFE	●●●
RESISTANCE	●●●
RIDING COMFORT	●●●●●
RETREADING	●●●●●

ERL-30

Sand | Earth | Gravel | Rock

> Designed for **mixed conditions** of soft and hard terrain
> **Deepest tread pattern** in category
> **High resistance** to wear

Universal application

ERL-30 (L-3/G-3)

TRACTION	●●●●●
SERVICE LIFE	●●●●●
RESISTANCE	●●●●●
RIDING COMFORT	●●●●●
RETREADING	●●●●●

ERL-40 NEW

Sand | Earth | Gravel | Rock

> Designed for **hard, demanding conditions**
> **Excellent tyre life** thanks to deep tread and positive share of tread pattern
> **Good traction**

Designed for rocky terrain

ERL-40 (L-4)

TRACTION	●●●●●
SERVICE LIFE	●●●●●
RESISTANCE	●●●●●
RIDING COMFORT	●●●●●
RETREADING	●●●●●

ERL-50 NEW

Sand | Earth | Gravel | Rock

> Designed for **very hard, rocky conditions**
> **Excellent tyre life**
> **Good traction and stability**
> **High resistance to cutting** due to positive share of tread pattern

Designed for rocky terrain

ERL-50 (L-5)

TRACTION	●●●●●
SERVICE LIFE	●●●●●
RESISTANCE	●●●●●
RIDING COMFORT	●●●●●
RETREADING	●●●●●

ERL technical data and load capacities – loader service

Tyre size	Tread pattern Type	Rim (permitted)	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)	Tread depth (mm)		Tread pattern	Service description LI/SS Loader	Loader service Tyre load capacity (kg) at speed (km/h)				Tyre pressure (bar)
			Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)							Static	5	10	25	
17.5 R 25	ERL-20 TL	14.00/1.5 – 25 (14.00/1.5 × 25 DC, 14.00/1.3 × 25 DC)	1 348	445	1 405	494	588	4 231	28		**ERL-20 ERL-30**	* 176 A2	6 005 7 075 8 145 9 220 10 290 11 360	4 240 4 995 5 755 6 510 7 265 8 025	3 755 4 420 5 090 5 760 6 430 **7 100**	3 190 3 755 4 325 4 895 5 465 6 035	2.0 2.5 3.0 3.5 4.0 **4.5**
	ERL-30 TL	14.00/1.5 – 25 (14.00/1.5 × 25 DC, 14.00/1.3 × 25 DC)	1 348	445	1 405	494	588	4 226	28								
20.5 R 25	ERL-20 TL	17.00/2.0 – 25 (17.00/1.7 – 25)	1 493	521	1 561	578	647	4 680	31		**ERL-20 ERL-30**	* 186 A2	8 085 9 505 10 930 12 355 13 775 15 200	5 710 6 715 7 720 8 725 9 730 10 735	5 050 5 940 6 830 7 720 8 610 **9 500**	4 295 5 050 5 805 6 560 7 320 8 075	2.0 2.5 3.0 3.5 4.0 **4.5**
	ERL-30 TL	17.00/2.0 – 25 (17.00/1.7 – 25)	1 493	521	1 561	578	647	4 674	36								
	ERL-50 TL	17.00/2.0 – 25 (17.00/1.7 – 25)	1 548	520	1 621	577		4 845	85		**ERL-50**	** 193 A2	16 432 17 664 18 400	11 605 12 475 12 995	10 270 11 040 **11 500**	8 216 8 832 9 200	5.0 5.5 **5.8**
23.5 R 25	ERL-20 TL	19.50/2.5 – 25	1 617	597	1 695	663	697	5 064	34		**ERL-20 ERL-30**	* 195 A2	10 300 12 130 13 955 15 785 17 615 19 440	7 275 8 565 9 855 11 145 12 440 13 730	6 440 7 580 8 725 9 865 11 010 **12 150**	5 470 6 445 7 415 8 385 9 355 10 330	2.0 2.5 3.0 3.5 4.0 **4.5**
	ERL-30 TL	19.50/2.5 – 25	1 617	597	1 695	663	697	5 070	38								
	ERL-40 TL	19.50/2.5 – 25	1 673	597	1 756	663	768	5 244	60								
	ERL-50 TL	19.50/2.5 – 25	1 673	597	1 756	663		5 244	90		**ERL-40 ERL-50**	** 201 A2	20 560 21 760 23 200	14 521 15 368 16 385	12 850 13 600 **14 500**	10 605 10 880 11 600	5.0 5.5 **5.8**
26.5 R 25	ERL-30 TL	22.00/3.0 – 25	1 747	672	1 841	746	759	5 488	41		**ERL-30 ERL-40**	** 209 A2	14 880 16 425 19 440 21 760 24 000 25 840 27 760 29 600	10 510 11 600 13 730 15 370 16 950 18 250 19 605 20 905	9 300 10 265 12 150 13 600 15 000 16 150 17 350 **18 500**	7 905 8 725 10 330 11 560 12 750 13 730 14 750 15 725	2.0 2.5 3.0 3.5 4.0 4.5 5.0 **5.8**
	ERL-40 TL	22.00/3.0 – 25	1 798	673	1 891	747	816	5 641	60								
750/65 R 25	ERL-30 TL	24.00/3.0 – 25	1 607	744	1 646	781	686	5 051	44		**ERL-30**	* 202 A2	12 160 14 000 18 160 20 800 22 000 24 000	8 590 9 890 12 825 14 690 15 540 16 950	7 600 8 750 11 350 13 000 13 750 **15 000**	6 460 7 440 9 650 11 050 11 690 12 750	2.0 2.5 3.5 4.3 4.5 **4.8**

*/** Index of tyre strength

ERL technical data and load capacities – grader service

Tyre size	Tread pattern Type	Rim (permitted)	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)	Tread depth (mm)	Tread pattern	Service description LI/SS Grader	Grader service Tyre load capacity (kg) at speed (km/h)					Tyre pressure (bar)
			Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)						15	20	30	40	50	
17.5 R 25	ERL-20 TL	14.00/1.5 – 25 (14.00/1.5 × 25 DC, 14.00/1.3 × 25 DC)	1 348	445	1 405	494	588	4 231	28	**ERL-20 ERL-30**	* 153 A8	2 825 3 400 3 970	2 775 3 340 3 900	2 675 3 215 3 755	2 600 3 125 **3 650**	2 525 3 035 3 545	2.00 2.50 **3.00**
	ERL-30 TL	14.00/1.5 – 25 (14.00/1.5 × 25 DC, 14.00/1.3 × 25 DC)	1 348	445	1 405	494	588	4 226	28								
20.5 R 25	ERL-20 TL	17.00/2.0 – 25 (17.00/1.7 – 25)	1 493	521	1 561	578	647	4 680	31	**ERL-20 ERL-30 ERL-50**	* 161 A8	3 790 4 410 5 030	3 720 4 330 4 940	3 585 4 170 4 760	3 485 4 055 **4 625**	3 385 3 935 4 490	2.00 2.50 **3.00**
	ERL-30 TL	17.00/2.0 – 25 (17.00/1.7 – 25)	1 493	521	1 561	578	647	4 674	36								
	ERL-50 TL	17.00/2.0 – 25 (17.00/1.7 – 25)	1 548	520	1 621	577		4 845	85								
23.5 R 25	ERL-20 TL	19.50/2.5 – 25	1 617	597	1 695	663	697	5 064	34	**ERL-20 ERL-30 ERL-40 ERL-50**	* 170 A8	4 860 5 690 6 525	4 770 5 590 6 410	4 600 5 385 6 175	4 470 5 235 **6 000**	4 340 5 080 5 825	2.00 2.50 **3.00**
	ERL-30 TL	19.50/2.5 – 25	1 617	597	1 695	663	697	5 070	38								
	ERL-40 TL	19.50/2.5 – 25	1 673	597	1 756	663	729	5 244	60								
	ERL-50 TL	19.50/2.5 – 25	1 673	597	1 756	663		5 244	90								
26.5 R 25	ERL-30 TL	22.00/3.0 – 25	1 747	672	1 841	746	759	5 488	41	**ERL-30 ERL-40**	* 178 A8	5 830 6 910 8 100	5 775 6 850 8 025	5 562 6 590 7 725	5 400 6 400 **7 500**	5 240 6 210 7 275	2.00 2.50 **3.00**
	ERL-40 TL	22.00/3.0 – 25	1 798	673	1 891	747	770	5 641	60								
750/65 R 25	ERL-30 TL	24.00/3.0 – 25	1 607	744	1 646	781	686	5 051	44	**ERL-30**	* 178 A8	4 750 5 830 8 100	4 700 5 775 8 025	4 530 5 560 7 725	4 400 5 400 **7 500**	4 270 5 240 7 275	2.00 2.50 **3.25**

*/** Index of tyre strength

Tyre size	ERL-20	ERL-30	ERD-20	ERD-30	ERD-40
17.5 R 25	●	●			
20.5 R 25			●	●	
23.5 R 25			●	●	●
26.5 R 25				●	●
750/65 R 25				●	

ERD series – innovative and durable radial tyres for dumpers

Transport service

> **Suitable for retreading** thanks to high durability of carcass
> **Reduced fuel consumption** due to lower rolling resistance
> **Excellent driving comfort** guaranteed by advanced construction
> **Higher resistance** against tyre puncture

ERD-20

Sand | Earth | Gravel | Rock

> Designed for **soft and muddy terrain**
> **Excellent traction**
> **High durability**
> **Good self-cleaning properties**

Excellent traction

ERD-20 (E-2)

TRACTION	●●●●●
SERVICE LIFE	●●●○○
RESISTANCE	●●●○○
RIDING COMFORT	●●●●●
RETREADING	●●●●●

ERD-30

Sand | Earth | Gravel | Rock

> Designed for **mixed conditions** of soft and hard terrain
> **Deepest tread pattern** in category
> **High resistance** to wear

Universal application

ERD-30 (E-3)

TRACTION	●●●●○
SERVICE LIFE	●●●●●
RESISTANCE	●●●●●
RIDING COMFORT	●●●●●●
RETREADING	●●●●●●

ERD-40 NEW

Sand | Earth | Gravel | Rock

> Designed for **hard, demanding conditions**
> **Excellent tyre life** thanks to deep tread and positive share of tread pattern
> **Good traction**

ERD-40 (E-4)

TRACTION	●●●○○
SERVICE LIFE	●●●●●
RESISTANCE	●●●●●
RIDING COMFORT	●●●●●
RETREADING	●●●●●

Designed for rocky terrain

ERD technical data and load capacities – transport service

Tyre size	Tread pattern Type	Rim (permitted)	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)	Tread depth (mm)		Service description LI/SS Transport	Transport service Tyre load capacity (kg) at speed (km/h)					Tyre pressure (bar)
			Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)						20	30	40	50	55	
17.5 R 25	ERL-20 TL	14.00/1.5 – 25 (14.00/1.5 × 25 DC, 14.00/1.3×25 DC)	1 348	445	1 405	494	588	4 231	28		* 157 B	3 445 3 995 4 540	3 320 3 850 4 375	3 225 3 740 4 250	3 130 3 630 **4 125**	3 070 3 550 4 045	2.5 3.0 **3.5**
	ERL-30 TL	14.00/1.5 – 25 (14.00/1.5 × 25 DC, 14.00/1.3 × 25 DC)	1 348	445	1 405	494	588	4 226	28								
20.5 R 25	ERD-20 TL	17.00/2.0 – 25 (17.00/1.7 – 25)	1 493	521	1 561	578	670	4 686	31		** 177 B	6 545 7 290 8 030	6 310 7 025 7 740	6 130 6 825 7 520	5 950 6 625 **7 300**	5 830 6 495 7 155	3.5 4.0 **4.5**
	ERD-30 TL	17.00/2.0 – 25 (17.00/1.7 – 25)	1 493	521	1 561	578	670	4 683	36								
23.5 R 25	ERD-20 TL	19.50/2.5 – 25	1 617	597	1 695	663	727	5 065	34		** 185 B	8 295 9 235 10 175	7 990 8 900 9 805	7 765 8 645 9 530	7 540 8 395 **9 250**	7 390 8 225 9 065	3.5 4.0 **4.5**
	ERD-30 TL	19.50/2.5 – 25	1 617	597	1 695	663	727	5 072	38								
	ERD-40 TL	19.50/2.5 – 25	1 673	597	1 756	663	768	5 244	60								
26.5 R 25	ERD-30 TL	22.00/3.0 – 25	1 747	672	1 841	746	783	5 488	41		** 193 B	10 450 11 550 12 650	10 070 11 130 12 190	9 785 10 815 11 845	9 500 10 500 **11 500**	9 310 10 290 11 270	3.5 4.0 **4.5**
	ERD-40 TL	22.00/3.0 – 25	1 798	673	1 891	747	816	5 641	60								
750/65 R 25	ERD-30 TL	24.00/3.0 – 25	1 607	744	1 646	781	752	5 051	44		** 190 B	9 900 10 780 11 660	9 540 10 700 11 235	9 270 10 095 10 920	9 000 9 800 **10 600**	8 820 9 600 10 390	3.5 4.0 **4.3**

*/** Index of tyre strength

Dimensions of "O" rings (mm)

Tyre size	Inside diameter	Section diameter	Circumference
17.5 R 25	581 ± 2	6.6 ± 0.5	1 825 ± 6
20.5 R 25 23.5 R 25 26.5 R 25 750/65 R 25	568 ± 2	9.8 ± 0.5	1 784 ± 6

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)		●

EM radial series – tyres
for lighter earthmoving machinery

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

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**

Universal application

EM-01

TRACTION	●●●●○
SERVICE LIFE	●●●●●●
RESISTANCE	●●●●●●
RIDING COMFORT	●●●●●●
SELF CLEANING	●●●●○

Excellent traction

EM-02

TRACTION	●●●●●●
SERVICE LIFE	●●●●○
RESISTANCE	●●●●○
RIDING COMFORT	●●●●●●
SELF CLEANING	●●●●●●

EM technical data and load capacities

Tyre size	Tread pattern Type	Rim (permitted)	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)		Service description LI/SS Transport/ Loading	Tyre load capacity (kg) at speed (km/h)						Tyre pressure (bar)
			Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)					0	10	20	30	40	50	
335/80 R 18 (12.5 R 18)	EM-02 TL	11 × 18	993	339	1 025	354	448	2 990		139 B/151 A2	2 526 3 347 3 888 4 659 5 520	1 579 2 092 2 430 2 912 **3 450**	1 371 1 817 2 102 2 544 3 036	1 254 1 661 1 926 2 319 2 760	1 137 1 505 1 744 2 110 2 540	1 098 1 451 1 684 2 025 **2 430**	1.4 2.0 2.4 3.0 **3.8**
365/70 R 18	EM-01 TL	11 × 18 (12 × 18)	969	360	1 000	400	437	2 915		135 B/146 A2	2 395 2 990 3 440 3 970 4 505 4 800	1 515 1 885 2 135 2 470 2 795 **3 000**	1 221 1 518 1 689 1 958 2 222 2 398	1 177 1 463 1 627 1 887 2 141 2 311	1 140 1 415 1 570 1 820 2 070 2 250	1 110 1 380 1 535 1 780 2 020 **2 180**	1.5 2.0 2.5 3.0 3.5 **3.8**
405/70 R 18 (16/70 R 18)	EM-01 TL	13 × 18	1 025	407	1 070	452	462	3 085		141 B/153 A2	2 745 3 470 4 170 4 850 5 520 5 850	1 705 2 165 2 590 3 015 3 430 **3 650**	1 315 1 689 2 019 2 343 2 651 2 833	1 267 1 627 1 945 2 258 2 555 2 730	1 240 1 580 1 890 2 195 2 490 2 650	1 195 1 535 1 835 2 130 2 410 **2 575**	1.5 2.0 2.5 3.0 3.5 **3.8**
										156 B/168 A2	5 935 6 630 7 265 7 840 8 355 8 950	3 710 4 150 4 550 4 910 5 225 **5 600**	2 893 3 262 3 575 3 861 4 081 4 400	2 788 3 143 3 445 3 721 3 933 4 240	2 715 3 055 3 355 3 620 3 830 4 125	2 630 2 965 3 250 3 510 3 710 **4 000**	4.0 4.5 5.0 5.5 6.0 **6.5**
335/80 R 20 (12.5 R 20)	EM-01 TL	11 × 20 (12 × 20)	1 044	339	1 076	366	470	3 140		136 B/147 A2	2 370 2 970 3 540 4 100 4 650 4 925	1 485 1 815 2 210 2 490 2 880 **3 075**	1 188 1 480 1 766 2 030 2 321 2 464	1 145 1 426 1 701 1 956 2 237 2 374	1 110 1 390 1 650 1 910 2 170 2 300	1 080 1 345 1 605 1 845 2 110 **2 240**	1.5 2.0 2.5 3.0 3.5 **3.8**
365/80 R 20 (14.5 R 20)	EM-01 TL	11 × 20 (12 × 20)	1 092	360	1 127	400	489	3 285		141 B/153 A2	2 750 3 470 4 150 4 840 5 505 5 850	1 710 2 185 2 610 3 030 3 440 **3 650**	1 309 1 683 2 002 2 338 2 662 2 833	1 261 1 622 1 929 2 253 2 565 2 730	1 225 1 575 1 865 2 195 2 480 2 650	1 190 1 530 1 820 2 125 2 420 **2 575**	1.5 2.0 2.5 3.0 3.5 **3.8**
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		143 B/155 A2	2 905 3 705 4 455 5 165 5 880 6 200	1 800 2 325 2 790 3 230 3 670 **3 875**	1 370 1 771 2 129 2 470 2 822 2 998	1 320 1 707 2 051 2 380 2 719 2 889	1 280 1 650 1 995 2 295 2 635 2 800	1 245 1 610 1 935 2 245 2 565 **2 725**	1.5 2.0 2.5 3.0 3.5 **3.8**
405/70 R 24 (16/70 R 24)	EM-01 TL	13 × 24	1 178	407	1 223	452	534	3 545		146 B/158 A2	3 155 3 985 4 835 5 630 6 440 6 800	1 945 2 470 2 995 3 500 3 985 **4 250**	1 513 1 909 2 310 2 717 3 102 3 300	1 458 1 839 2 226 2 618 2 989 3 180	1 410 1 790 2 165 2 535 2 930 3 100	1 375 1 735 2 100 2 470 2 820 **3 000**	1.5 2.0 2.5 3.0 3.5 **3.8**
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		147 B/164 A2	4 240 6 480 7 072 7 776 8 032	2 650 4 050 4 420 4 860 **5 020**	2 488 2 728 2 981 3 267 3 383	2 398 2 629 2 873 3 148 3 260	2 330 2 700 2 950 3 240 3 350	2 262 2 480 2 710 2 970 **3 075**	1.4 2.0 2.4 3.0 **3.2**

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	●	●			

EM diagonal series –
reliable tyres for demanding earthmoving work

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-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.

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 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 pattern	Service description LI/SS Loader	Ply rating	Loader service Tyre load capacity (kg) at speed (km/h)			Tyre pressure (bar)
			Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)								Static	5	10	
20–24 (22/70–24)	EM-70 TL	16.00 T–24 SDC	1 390	545	1 452	585	633	4 170	460		**EM-70**	173 A2/158 B	12 PR	6 880 7 520 8 160 8 720 9 280 9 840 10 400	4 859 5 311 5 763 6 159 6 554 6 950 7 345	4 300 4 700 5 100 5 450 5 800 6 150 **6 500**	1.50 1.75 2.00 2.25 2.50 2.75 **3.00**
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		**EM-20 EM-30 EM-60**	168 A2/149 B	12 PR	6 800 7 160 7 480 7 800 8 160 8 560 8 960	4 803 5 057 5 283 5 509 5 763 6 046 6 328	4 250 4 475 4 675 4 875 5 100 5 350 **5 600**	2.50 2.75 3.00 3.25 3.50 3.75 **4.00**
	EM-30 TL	12.00/1.3–25 (13.00/1.4–25)	1 277	394	1 328	437	590	3 857	325								
	EM-60 TL	12.00/1.3–25 (13.00/1.4–25)	1 277	394	1 328	437	590	3 857	355								
15.5–25	EM-80 TL	12.00/1.3–25	1 277	394	1 328	437	550	3 777			**EM-80**	168 A2/142 A8	12 PR	6 800 7 160 7 480 7 800 8 160 8 560 8 960	4 803 5 057 5 283 5 509 5 763 6 046 6 328	4 250 4 475 4 675 4 875 5 100 5 350 **5 600**	2.50 2.75 3.00 3.25 3.50 3.75 **4.00**
												174 A2/151 A8	16 PR	9 256 9 544 9 840 10 136 10 424 10 720	6 537 6 740 6 950 7 159 7 362 7 571	5 785 5 965 6 150 6 335 6 515 **6 700**	4.25 4.50 4.75 5.00 5.25 **5.50**
17.5–25	EM-20 TL	14.00/1.5–25	1 348	445	1 405	494	620	4 063	370		**EM-20 EM-30 EM-60**	177 A2/158 B	16 PR	10 240 10 640 11 040 11 360 11 680	7 232 7 515 7 797 8 023 8 249	6 400 6 650 6 900 7 100 **7 300**	3.75 4.00 4.25 4.50 **4.75**
	EM-30 TL	14.00/1.5–25	1 348	445	1 405	494	620	4 063	370								
	EM-60 TL	14.00/1.5–25	1 348	445	1 405	494	620	4 063	392		**EM-20 EM-60**	188 A2/171 B	22 PR	14 520 15 280 16 000	10 255 10 792 11 300	9 075 9 550 **10 000**	6.50 6.75 **7.00**

Consult the tyre manufacturer for information on other applications of L-2 and L-3 tyres than on wheel loaders, grades, telescopic handlers or dozers.

EM 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 pattern	Service description LI/SS Loader	Ply rating	Loader service Tyre load capacity (kg) at speed (km/h)			Tyre pressure (bar)
			Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)								Static	5	10	
17.5 – 25	EM-80 TL	14.00/1.5 – 25	1 348	445	1 405	494	597	4 016			**EM-80**	171 A2/145 A8	12 PR	7 600 8 080 8 560 8 960 9 440 9 840	5 368 5 707 6 046 6 328 6 667 6 950	4 750 5 050 5 350 5 600 5 900 **6 150**	2.25 2.50 2.75 3.00 3.25 **3.50**
												177 A2/150 A8	16 PR	10 240 10 640 11 040 11 360 11 680	7 232 7 515 7 797 8 023 8 249	6 400 6 650 6 900 7 100 **7 300**	3.75 4.00 4.25 4.50 **4.75**
18.00 – 25	EM-20 TL	13.00/2.5 – 25 (15.00/2.5 – 25)	1 615	498	1 693	553	734	4 840	404		**EM-20** **EM-30**	199 A2/180 B	28 PR	17 280 18 400 18 880 20 000 20 480 20 960 21 760	12 204 12 995 13 334 14 125 14 464 14 803 15 368	10 800 11 500 11 800 12 500 12 800 13 100 **13 600**	4.25 4.75 5.00 5.50 5.75 6.00 **6.50**
	EM-30 TL	13.00/2.5 – 25 (15.00/2.5 – 25)	1 615	498	1 693	553	734	4 840	404								
											EM-30	202 A2/183 B	32 PR	22 880 24 000	16 159 16 950	14 300 **15 000**	7.00 **7.50**
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		**EM-20** **EM-30** **EM-60**	181 A2/167 B	16 PR	8 720 9 440 10 080 10 720 11 360 12 000 12 640 13 200	6 159 6 667 7 119 7 571 8 023 8 475 8 927 9 323	5 450 5 900 6 300 6 700 7 100 7 500 7 900 **8 250**	1.75 2.00 2.25 2.50 2.75 3.00 3.25 **3.50**
	EM-30 TL	17.00/2.0 – 25 (17.00/1.7 – 25)	1 492	520	1 561	577	682	4 484	450								
	EM-60 TL	17.00/2.0 – 25 (17.00/1.7 – 25)	1 492	520	1 561	577	682	4 484	470		**EM-60**	186 A2/170 B	20 PR	13 760 14 240 14 720 15 200	9 718 10 057 10 396 10 735	8 600 8 900 9 200 **9 500**	3.75 4.00 4.25 **4.50**
												189 A2/174 B	24 PR	15 616 16 032 16 480	11 029 11 323 11 639	9 760 10 020 **10 300**	4.75 5.00 **5.25**
23.5 – 25	EM-30 TL	19.50/2.5 – 25	1 617	597	1 696	663	734	4 843	530		**EM-30** **EM-60**	186 A2/171 B	16 PR	12 800 13 600 14 400 15 200	9 040 9 605 10 170 10 735	8 000 8 500 9 000 **9 500**	2.25 2.50 2.75 **3.00**
	EM-60 TL	19.50/2.5 – 25	1 617	597	1 696	663	734	4 843	540			191 A2/177 B	20 PR	16 000 16 800 17 440	11 300 11 865 12 317	10 000 10 500 **10 900**	3.25 3.50 **3.75**
												199 A2/183 B	28 PR	19 600 20 640 21 760	13 843 14 577 15 368	12 250 12 900 **13 600**	5.00 5.25 **5.50**

Consult the tyre manufacturer for information on other applications of L-2 and L-3 tyres than on wheel loaders, grades, telescopic handlers or dozers.

EM 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 pattern	Service description LI/SS Loader	Ply rating	Loader service Tyre load capacity (kg) at speed (km/h)			Tyre pressure (bar)
			Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)								Static	5	10	
26.5–25	EM-30 TL	22.00/3.0–25	1 750	673	1 839	747	791	5 231	605		**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
	EM-60 TL	22.00/3.0–25	1 750	673	1 839	747	791	5 231	605					24 800	17 515	**15 500**	**4.75**
											EM-30 EM-60	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**
26.5–29	EM-30 TL	22.00/3.0–29 (24.00/3.0–29)	1 851	673	1 940	747	834	5 525	600		**EM-30**	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**

Consult the tyre manufacturer 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%

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

Excavator diagonal – wide range of patterns for various conditions

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 hard 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

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

Tyre size	EM-22	EM-23	NB 38	NB 38 EX	NB 57	TR-12
8.25 – 20			●	●		
9.00 – 20	●		●	●		
10.00 – 20	●	●	●	●		
11.00 – 20	●		●		●	
500/45 – 20						●
500/60 – 22.5						●
600/40 – 22.5						●

Longer service life

NB 57

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

Excellent traction

TR-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.

Surface suitability chart – excavator tyres

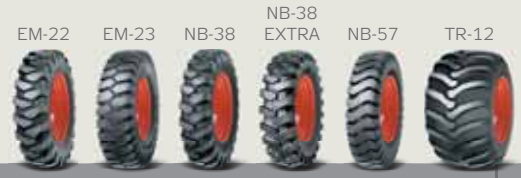
	Crushed Rock	Gravel	Road	Sand	Loam	Mud
EM-23	●	●	●			
NB 57	●	●	●			
EM-22		●	●	●	●	
NB 38		●	●	●	●	
NB 38 Extra		●	●	●	●	
TR-12			●	●	●	●

Variation in load capacity with speed dependence – TR-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 circum-ference (mm)	Tread width (mm)	Minimal dual spacing (mm)	Tread pattern	Service descrip-tion LI/SS	Ply rating	Tyre load capacity (kg) at speed (km/h)							Tyre pressure (bar)
				Overall diame-ter (mm)	Section width (mm)	Overall diame-ter (mm)	Overall width (mm)								Static	10	20	30	40	50	70	
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	269	**NB 38 NB 38 Extra**	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**
	NB 38 Extra TT	6.5–20 (6.0; 7.0–20)	8.25–20 20/1 eHD	970	234	993	253	462	2 940	220	269											
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	297	**NB 38 NB 38 Extra 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**
	NB 38 Extra 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	297											
	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	297											
10.00–20	NB 38 Extra 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	316	**NB38 Extra**	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**
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	316	**NB 38 NB38 Extra 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**
	NB 38 Extra 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	316											
	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	316											
	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	316											
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	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**
	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	335											
11.00–20	NB 57 TT	8.0–20 (7.5–20)	11.00–20 20/2 eHD	1 080	291	1 109	314	511	3 275	–	335	**NB 57**	140 E	16 PR	4 900 6 350 6 550	4 100 4 650 4 790	2 550 2 750 2 950	2 562 2 747 2 943	2 421 2 596 2 781	2 350 2 520 2 700	2 180 2 340 **2 500**	4.00 4.50 **5.00**
500/45–20	TR-12 TL	16.00×20 DC	–	980	490	1 030	530	445	2 910	–	–	**TR-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**
500/60–22.5	TR-12 TL	16.00×22.5 DC	–	1 192	503	1 234	543	519	3 504	–	–	**TR-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**
600/40–22.5	TR-12 TL	20.00×22.5 DC	–	1 050	600	1 107	642	473	3 146	–	–	**TR-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**

Roller & tractor grader tyres – road works specialists

COMPACTOR (C-1)

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

Agricultural + industrial use

TD-01 (R-1)

Traction pattern with good durability suitable for industrial and agricultural application.

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.

Tyre size	COMP.	TG-02	UK 5	UK 10	TD-01
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)	Minimal dual spacing (mm)		Service description LI/SS	Ply rating	Tyre load capacity (kg) at speed (km/h)					Tyre pressure (bar)
				Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)							Static	8	10	15	25	
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		164 A3	16 PR		1 400 2 020 2 640 3 240 3 800 4 350 4 900 5 480 6 000		1 350 1 900 2 480 3 000 3 500 4 000 4 500 **5 000**		2.00 3.00 4.00 5.00 6.00 7.00 8.00 **9.00** 10.00
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		170 A2	18 PR	7 984 8 272 8 488 8 712 9 000 9 216 9 600		4 990 5 170 5 305 5 445 5 625 5 760 **6 000**			6.25 6.55 6.90 7.25 7.60 8.00 **8.30**
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		156 A5	18 PR	6 109 6 311 6 468 6 624 7 360		3 818 3 945 4 042 4 140 4 600		3 320 3 430 3 515 3 600 **4 000**	7.25 7.60 8.00 8.30 **10.00**
11.00 R 20	COMPACTOR TT	8.0–20	11.00–20 20/2 eHD	1 069	293	1 097	316	–	3 210	352		157 A3	–			1 500 1 900 2 250 2 625 2 950 3 300 3 925 4 550 5 150	1 200 1 525 1 800 2 100 2 375 2 625 3 150 3 650 **4 125**		1.50 2.00 2.50 3.00 3.50 4.00 5.00 6.00 **7.00**
13/80 R 20	COMPACTOR TT	9.0–20	13/80–20	1 050	322	1 072	348	–	3 150	387		164 A3	–			2 520 3 100 3 660 4 260 4 840 5 420 5 710 6 000	2 240 2 760 3 260 3 790 4 310 4 820 **5 000**		3.00 4.00 5.00 6.00 7.00 8.00 **8.50** 9.00

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

Tyre size	Tread pattern Type	Rim (permitted)	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)		Tread pattern	Service descrip-tion LI/SS	Ply rating	Tyre load capacity (kg) at speed (km/h)							Tyre pressure (bar)
			Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)							0	10	10 cyclic	20	30	40	50	
14.9–24 IND	UK 5 TL	W 13×24	1 250	395	1 285	425	580	3 710		**UK 5**	128 A8	8 PR	3 265 3 565 3 865 4 140	1 775 1 938 2 100 2 250	2 130 2 325 2 520 2 700	1 935 2 112 2 289 2 453	1 477 1 612 1 747 1 872	1 420 1 550 1 680 **1 800**	1 292 1 411 1 529 1 638	1.20 1.40 1.60 **1.80**
16.9–24 IND	UK 10 TL	W 15 L×24	1 308	442	1 335	464	579	3 729		**UK 10**	129 B	8 PR	4 140 4 395 4 635	2 250 2 390 2 520	2 700 2 865 3 024	2 160 2 350 2 480	1 925 2 045 2 155	1 800 1 910 2 016	1 640 1 738 **1 850**	1.30 1.50 **1.70**
23.1–26 IND	UK 5 TL	DW 20 A×26	1 580	587	1 635	634	750	4 660		**UK 5**	158 A8	10 PR	7 865 8 625 9 405 9 775	4 275 4 690 5 115 5 315	5 130 5 625 6 135 6 375	3 730 4 090 4 460 4 635	3 555 3 900 4 255 4 420	3 420 3 750 4 090 **4 250**	3 110 3 415 3 720 3 870	1.20 1.40 1.60 **1.70**
	UK 10 TL	DW 20 A×26	1 580	587	1 635	634	750	4 660		**UK 5 UK 10**	162 A8	12 PR	10 925	5 940	7 125	5 180	4 940	**4 750**	4 325	**1.90**
23.1–26	TD-01 TL	DW 20 A×26	1 605	587	1 660	634	760	4 720		**TD-01**	156 A8	14 PR	5 934 6 670 7 475 8 395 9 200	3 870 4 350 4 875 5 475 6 000	4 644 5 220 5 850 6 570 7 200	3 175 3 565 4 000 4 490 4 920	2 760 3 100 3 480 3 905 4 280	2 580 2 900 3 250 3 650 **4 000**	2 348 2 639 2 958 3 322 3 640	0.90 1.10 1.40 1.70 **2.00**

23.1–26 TD-01 variation in load capacity with speed dependence

Speed (km/h)	0	5	10	15	20	25	30	35	40	45	50
Load capacity	+130%	+70%	+50%	+34%	+23%	+11%	+7%	+3%	(0)	–4%	–9%

All field applications:
A8 tyres – loads as in the table plus 7%

The inflation pressure must be increased for:
– road transport and long transport with semi-trailer + 30 kPa
– harvesting machines and front-end loader tractor application + 40 kPa

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

- **Better performance** due to high maximum **speed up to 85 km/h**
- **Mitas-Link,** unique connection between tread blocks ensuring **extended tyre life**
- **Deepest tread pattern in category**
- **Reduced fuel consumption** thanks to all-steel construction improving rolling resistance
- **Improved operator comfort** and **low noise emissions** in road high speed service
- Open tread block design for **excellent traction and easy self-cleaning** in off-road application
- **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)

Mitas Link
Unique tread design

Dimensions of "O" rings (mm)

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

CR technical data and load capacities

Tyre size	Tread pattern Type	Rim (permitted)	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)	Service description LI / SS	Tyre load capacity (kg) at speed (km/h)												Tyre pressure (bar)
			Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)				Static	5	10	20	30	40	50	65	70	80	85	
385/95 R 25	CR-01 TL	10.00/1.5-25	1 369	379	1 415	409	633	4 295	170F	15 000	-	11 040	9 000	7 500	6 900	6 720	6 600	6 300	**6 000**	-	**9.0**
445/95 R 25	CR-01 TL	11.00/1.7 CR – 25 (11.25/2.0 – 25)	1 483	440	1 570	483	688	4 471		10 395	8 780	7 575	6 360	5 320	4 900	4 775	4 585	4 475	4 260	4 135	5.0
										12 125	10 255	8 855	7 430	6 215	5 720	5 570	5 350	5 220	4 970	4 820	6.0
										13 590	11 465	9 885	8 280	6 915	6 365	6 195	5 950	5 805	5 525	5 360	7.0
										15 160	12 795	11 035	9 255	7 740	7 125	6 940	6 665	6 510	6 195	6 010	8.0
									174 F	16 750	14 070	12 060	10 050	8 375	7 705	7 505	7 205	7 035	**6 700**	6 500	**9.0**

Multipurpose radial tyres – universal tyres
for on- and off-road use

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

Rail and road application

SRT

TRACTION
SERVICE LIFE
RESISTANCE

> Rail & Road application
> Excellent durability
> Longer service life

Tyre size	MPT-20	MPT-21	MPT-22	EM-02	SRT
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					•
405/70 R 24 (16/70 R 24)		•			
445/70 R 24 (17.5 L R 24)			•		

Multipurpose radial technical data and load capacities

Tyre size	Tread pattern Type	Rim (permitted)	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)		Service description LI/SS	Tyre load capacity (kg) at speed (km/h)									Tyre pressure (bar)
			Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)					0	10	40	50	70	80	90	100	110	
335/80 R 18 (12.5 R 18)	EM-02 TL	11 × 18 (12 × 18)	993	340	1 025	354	448	2 979		132 G	1 913 2 738 3 250 3 763 4 463 5 000	1 185 1 690 2 045 2 370 2 840 3 190	890 1 260 1 490 1 715 2 040 2 300	850 1 205 1 440 1 670 2 000 2 240	800 1 140 1 375 1 595 1 905 2 140	795 1 120 1 340 1 550 1 840 2 080	765 1 095 1 300 1 505 1 785 **2 000**			1.00 1.60 2.00 2.40 3.00 **3.50**
335/80 R 20 (12.5 R 20)	MPT-20 TL	11 × 20 (12 × 20)	1 044	340	1 076	354	480	3 132		147 K	3 300 4 500 5 600 6 563 7 438 7 688	2 376 3 240 4 032 4 725 5 355 5 535	1 518 2 070 2 576 3 019 3 421 3 536	1 478 2 016 2 509 2 940 3 332 3 444	1 412 1 926 2 397 2 809 3 183 3 290	1 373 1 872 2 330 2 730 3 094 3 198	1 346 1 836 2 285 2 678 3 035 3 137	1 320 1 800 2 240 2 625 2 975 **3 075**	1 320 1 800 2 240 2 625 2 975 **3 075**	2.00 3.00 4.00 5.00 6.00 **6.50**
335/80 R 20 (12.5 R 20)	MPT-21 TL	11 × 20 (12 × 20)	1 044	340	1 076	354	474	3 132		139 J	2 430 3 060 3 650 4 215 4 835 5 340 5 850	1 515 1 845 2 260 2 555 3 015 3 330 3 650	1 155 1 445 1 715 1 985 2 300 2 545 2 790	1 142 1 417 1 691 1 943 2 262 2 503 2 722	1 080 1 345 1 600 1 845 2 160 2 380 2 600	1 055 1 313 1 565 1 800 2 103 2 325 2 540	1 030 1 280 1 530 1 755 2 045 2 270 2 480	1 020 1 265 1 510 1 735 2 020 2 235 **2 430**		1.50 2.00 2.50 3.00 3.50 4.00 **4.50**
365/80 R 20 (14.5 R 20)	MPT-20 TL	11 × 20 (12 × 20)	1 092	367	1 128	374	495	3 318		152 K	3 613 5 000 6 438 7 500 8 625 8 875	2 510 3 485 4 420 5 375 6 240 6 390	1 662 2 300 2 961 3 450 3 968 4 083	1 618 2 240 2 884 3 360 3 864 3 976	1 546 2 140 2 755 3 210 3 692 3 799	1 503 2 080 2 678 3 120 3 588 3 692	1 474 2 040 2 627 3 060 3 519 3 621	1 395 2 000 2 575 3 060 3 450 3 550	1 395 2 000 2 575 2 970 3 450 **3 550**	2.00 3.00 4.00 5.00 6.00 **6.25**
365/80 R 20 (14.5 R 20)	MPT-21 TL	11 × 20 (12 × 20)	1 092	360	1 128	374	493	3 276		152 J	2 800 3 525 4 875 6 150 7 450 8 650 8 950	1 745 2 225 3 090 3 790 4 595 5 400 5 600	1 260 1 620 2 255 2 725 3 325 3 930 4 080	1 238 1 607 2 223 2 654 3 265 3 836 3 976	1 185 1 520 2 100 2 530 3 095 3 660 3 800	1 158 1 488 2 058 2 470 3 023 3 573 3 710	1 130 1 455 2 015 2 410 2 950 3 485 3 620	1 105 1 435 1 985 2 370 2 915 3 425 **3 550**		1.50 2.00 3.00 4.00 5.00 6.00 **6.25**
405/70 R 20 (16/70 R 20)	MPT-21 TL	13 × 20 (12 × 20)	1 076	407	1 110	423	492	3 228		152 J	2 780 4 270 5 635 7 030 8 210 8 950	1 765 2 740 3 600 4 505 5 240 5 600	1 270 1 980 2 620 3 305 3 815 4 080	1 249 1 943 2 559 3 254 3 730 3 976	1 175 1 830 2 430 3 070 3 530 3 800	1 153 1 798 2 385 3 013 3 465 3 710	1 130 1 765 2 340 2 955 3 400 3 620	1 115 1 735 2 285 2 905 3 330 **3 550**		1.50 2.50 3.50 4.50 5.50 **6.00**
275/90 R 22.5	SRT TL	8.25 × 22.5	1 076	270	1 100	286	491	3 261		153 J	6 235 6 710 7 185 7 625 8 075 8 600 9 125	4 570 4 905 5 240 5 590 5 935 6 250 6 570	2 895 3 100 3 310 4 165 3 760 3 980 4 195	2 825 3 040 3 250 3 460 3 675 3 880 4 085	2 670 2 875 3 075 3 200 3 455 3 680 3 905	2 595 2 790 2 990 3 170 3 360 3 580 3 795	2 555 2 575 2 955 3 140 3 330 3 525 3 720	2 495 2 685 2 875 3 050 3 230 3 440 **3 650**		5.50 6.00 6.50 7.00 7.50 8.00 **8.50**
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		152 J	3 225 4 085 4 920 5 750 6 545 7 390 8 165 8 950	1 990 2 525 3 035 3 535 4 065 4 555 5 055 5 600	1 435 1 820 2 200 2 575 2 940 3 315 3 675 4 080	1 378 1 753 2 106 2 486 2 845 3 209 3 573 3 976	1 270 1 670 2 020 2 370 2 715 3 055 3 390 3 800	1 258 1 628 1 967 2 313 2 650 2 980 3 310 3 710	1 245 1 585 1 915 2 255 2 585 2 905 3 230 3 620	1 230 1 565 1 880 2 220 2 540 2 865 3 190 **3 550**		1.50 2.00 2.50 3.00 3.50 4.00 4.50 **5.00**
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		151 G	3 000 4 825 6 625 7 525 8 450 8 625	2 150 3 470 4 770 5 430 6 080 6 210	1 380 2 220 3 050 3 470 3 880 3 970	1 344 2 162 2 968 3 371 3 786 3 864	1 284 2 065 2 836 3 221 3 617 3 692	1 248 2 007 2 756 3 130 3 515 3 588	1 200 1 930 2 650 3 010 3 380 **3 450**			1.00 2.00 3.00 3.50 4.00 **4.10**

Multipurpose diagonal – proven tread patterns
for wide range of application

Tyre size	MPT-01	MPT-02	MPT-03	MPT-04	MPT-05	MPT-06	MPT-07	MPT-08
10.5 – 18	●	●						
12.5 – 18	●		●	●				
18 – 19.5		●	●			●		●
10.5 – 20				●	●		●	
12.5 – 20	●		●	●	●			
14.5 – 20			●	●	●			
16/70 – 20		●		●	●			
405/70 – 20	●		●					
18 – 22.5						●		
405/70 – 24	●			●				

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

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.

Enhanced lateral stability

MPT-06

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

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.

Universal application

MPT-07

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

Excellent traction

MPT-08

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

MPT 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 pattern	Service descrip-tion LI/SS	Ply rating	Tyre load capacity (kg) at speed (km/h)											Tyre pressure (bar)
				Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)						Static	10	20	30	40	50	60	65	70	80	90	
10.5–18	MPT-01 TL	9×18	10–18	905	270	927	292	419	2 660	**MPT-01**			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
											130 B	10 PR	4 199	3 040	2 356	2 166	2 090	**1 900**						**3.75**
10.5–18	MPT-02 TL	9×18	10–18	905	270	927	292	419	2 660	**MPT-02**			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
											129 D	10 PR	4 625	3 053	2 405	2 128	1 961	1 924	1 869	**1 850**				**3.75**
12.5–18	MPT-01 TL	11×18 (9×18)	12.5–18 12–18 HS	990	325	1 017	351	455	2 910	**MPT-01**			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
													4 652	3 368	2 610	2 400	2 316	2 105						3.25
											135 B	12 PR	4 818	3 488	2 703	2 485	2 398	**2 180**						**3.50**
12.5–18	MPT-03 TL	11×18 (9×18)	12.5–18 12–18 HS	990	325	1 017	351	455	2 910	**MPT-03**			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
											128 G	10 PR	4 500	3 240	2 700	2 250	2 070	2 016	1 980	1 950	1 926	1 872	**1 800**	**3.00**
													4 700	3 384	2 820	2 350	2 162	2 106	2 068	2 040	2 012	1 955	1 880	3.25
											131 G	12 PR	4 875	3 510	2 925	2 438	2 243	2 184	2 145	2 120	2 087	2 028	**1 950**	**3.50**
													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
											136 G	16 PR	5 600	4 032	3 360	2 800	2 576	2 509	2 464	2 430	2 397	2 330	**2 240**	**4.50**
12.5–18	MPT-04 TL	11×18 (9×18)	12.5–18 12–18 HS	990	325	1 017	351	455	2 910	**MPT-04**			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
											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**

MPT 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 pattern	Service descrip-tion LI/SS	Ply rating	Tyre load capacity (kg) at speed (km/h)											Tyre pressure (bar)
				Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)						Static	10	20	30	40	50	60	65	70	80	90	
18–19.5	MPT-02 TL	14.00×19.5 (13.00×19.5)	–	1 080	457	1 121	494	490	3 140	**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**
18–19.5	MPT-03 TL	14.00×19.5 (13.00×19.5)	–	1 080	457	1 121	494	490	3 140	**MPT-03**	156 D	16 PR	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
													9 200	6 600	5 200	4 600	4 240	4 160	4 040	**4 000**				**4.50**
18–19.5	MPT-06 TL	14.00×19.5 (13.00×19.5)	–	1 100	470	1 129	505	508	3 280	**MPT-06 MPT-08**	160 A8	16 PR	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
													6 975	5 850	5 220	4 950	**4 500**							**4.50**
	MPT-08 TL	14.00×19.5 (13.00×19.5)	–	1 100	470	1 129	505	508	3 280	**MPT-06**	166 A8	–	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
													8 215	6 890	6 148	5 830	**5 300**							**6.00**
10.5–20	MPT-04 TL	9×20 (9–20 SDC)	10.5–20	955	270	977	292	440	2 810	**MPT-04**	131 D	10 PR	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
													4 485	3 218	2 535	2 243	2 067	2 028	1 970	**1 950**				**3.75**
10.5–20	MPT-05 TL	9×20 (9–20 SDC)	10.5–20	955	270	977	292	440	2 810	**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
	MPT-07 TT	9×20 (9–20 SDC)	10.5–20	955	270	977	292	440	2 810				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 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 pattern	Service descrip-tion LI/SS	Ply rating	Tyre load capacity (kg) at speed (km/h)											Tyre pressure (bar)
				Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)						Static	10	20	30	40	50	60	65	70	80	90	
12.5–20	MPT-01 TL	11×20 (11; 12–20 SDC)	–	1 040	325	1 067	351	480	3 060	**MPT-01**	133 B	10 PR	4 442	3 216	2 492	2 291	2 211	2 010						2.75
													4 619	3 344	2 592	2 383	2 299	**2 090**						**3.00**
											136 B	12 PR	4 818	3 488	2 703	2 485	2 398	2 180						3.25
													4 995	3 616	2 802	2 576	2 486	**2 260**						**3.50**
12.5–20	MPT-03 TL	11×20 (11; 12–20 SDC)	–	1 040	325	1 067	351	480	3 060	**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**
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	**MPT-05**			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**
12.5–20	MPT-04 TL	11×20 (11; 12–20 SDC)	12.5–20 (11–20)	1 040	325	1 067	351	480	3 060	**MPT-04**	132 D	10 PR	4 439	3 185	2 509	2 220	2 046	2 007	1 949	1 930				2.75
													4 600	3 300	2 600	2 300	2 120	2 080	2 020	**2 000**				**3.00**
											135 D	12 PR	4 807	3 449	2 717	2 404	2 215	2 174	2 111	2 090				3.25
													5 014	3 597	2 834	2 507	2 311	2 267	2 202	**2 180**				**3.50**
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	**MPT-03 MPT-05**			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
	MPT-05 TL	11×20 (11; 12–20 SDC)	14.5–20 (12.5–20)	1 095	355	1 124	383	503	3 220				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
											136 G	12 PR	5 600	4 032	3 360	2 800	2 576	2 509	2 464	2 430	2 397	2 330	**2 240**	**3.00**
14.5–20	MPT-04 TL	11×20 (11; 12–20 SDC)	14.5–20 (12.5–20)	1 095	355	1 124	383	503	3 220	**MPT-04**			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
													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**
16/70–20 (405/70–20)	MPT-02 TL	13×20 (13–20 SDC)	–	1 076	407	1 116	440	495	3 165	**MPT-02 MPT-04**			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 TL	13×20 (13–20 SDC)	–	1 076	407	1 116	440	495	3 165				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**
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	**MPT-05**			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
											145 G	14 PR	7 250	5 220	4 350	3 625	3 335	3 248	3 190	3 147	3 103	3 016	**2 900**	**3.50**
405/70–20 (16/70–20)	MPT-01 TL	13×20 (13–20 SDC)	–	1 076	407	1 116	440	495	3 165	**MPT-01**			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
											149 B	14 PR	7 183	5 200	4 030	3 705	3 575	**3 250**						**3.50**
													7 514	5 440	4 216	3 876	3 740	3 400						3.75
											152 B	16 PR	7 846	5 680	4 402	4 047	3 905	**3 550**						**4.00**
405/70–20 (16/70–20)	MPT-03 TL	13×20 (13–20 SDC)	–	1 076	407	1 116	440	495	3 165	**MPT-03**			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
											145 G	14 PR	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 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 pattern	Service descrip-tion LI/SS	Ply rating	Tyre load capacity (kg) at speed (km/h)										Tyre pressure (bar)
				Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)							Static	10	20	30	40	50	60	65	70	80	90	
18–22.5	MPT-06 TL	14.00×22.5	–	1 166	460	1 197	494	542	3 480		**MPT-06**			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
														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**
405/70–24 (16/70–24)	MPT-01 TL	13×24 (13–24 SDC)	16/70–24	1 178	407	1 218	440	545	3 465		**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**
405/70–24 (16/70–24)	MPT-04 TL	13×24 (13–24 SDC)	16/70–24	1 178	407	1 218	440	545	3 465		**MPT-04**			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
												151 D	14 PR	7 935	5 693	4 485	3 968	3 657	3 588	3 485	**3 450**				**4.00**

Variation in load capacity with speed dependence

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

Industrial radial tyres – all-steel heavy-duty tyres for material handling machinery

Reinforced sidewall

SC-01

HANDLING
RESISTANCE
SERVICE LIFE

- Designed for straddle carriers
- Developed for excellent machine stability
- Long tyre life and high puncture resistance

Excelent resistance

FLR-01

HANDLING
RESISTANCE
SERVICE LIFE

- Designed for fork lifts, container handers and terminal tractors
- Increased tyre life guaranteed by advanced tread design
- Excellent operator comfort thanks to all-steel construction
- Improved rolling resistance for lower fuel consumption

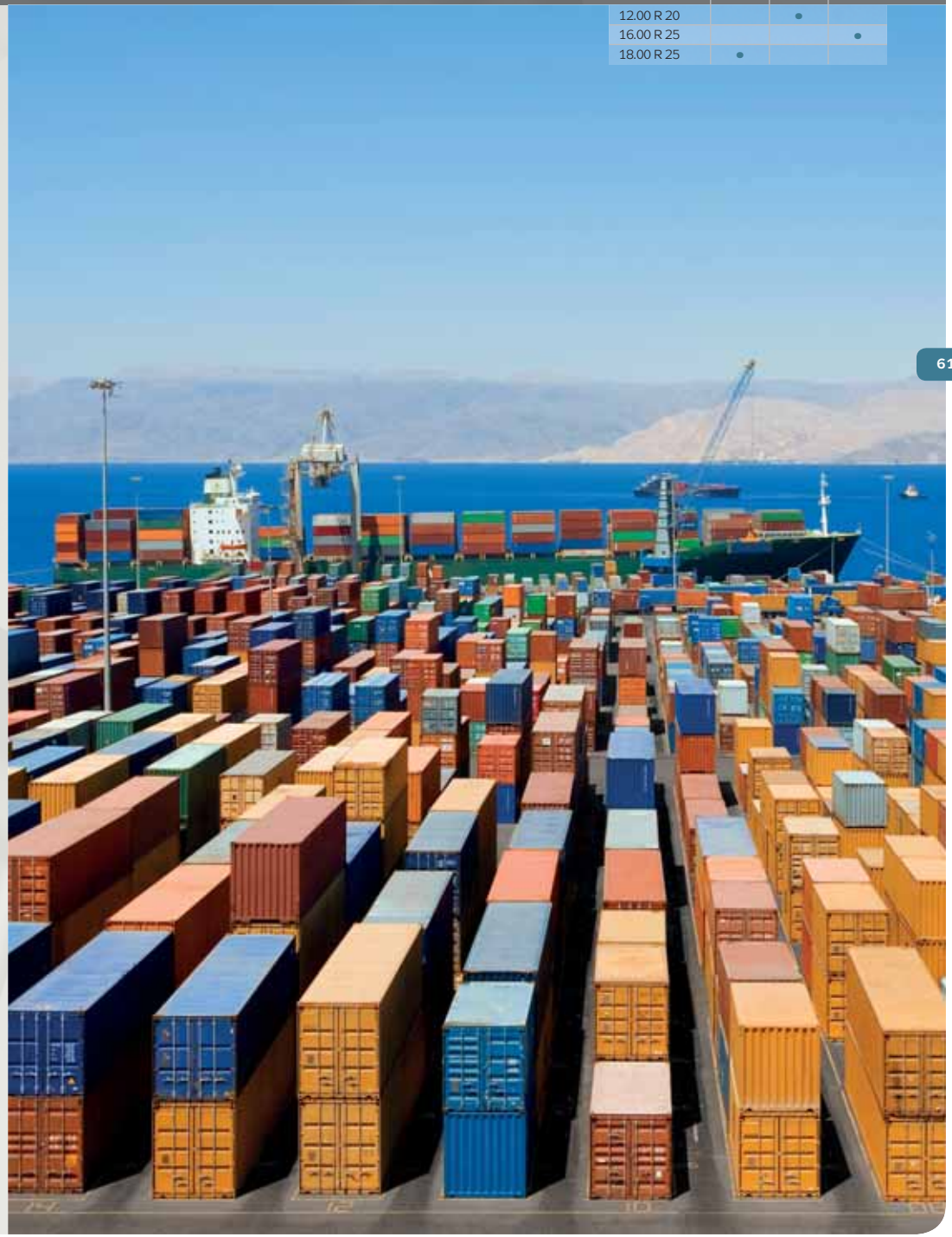
Longer service life

CH-01

HANDLING
RESISTANCE
SERVICE LIFE

- Designed especially for container handlers
- High puncture resistance
- Excellent stability due to reinforced sidewall
- Tread pattern developed for long tyre life

Tyre size	CH-01	FLR-01	SC-01
12.00 R 20		•	
16.00 R 25			•
18.00 R 25	•		



Industrial radial 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 pattern depth (mm)		Service description LI/SS	Tyre load capacity (kg) at speed (km/h)								Tyre pressure (bar)
			Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)						Steering wheel		Load wheel		Side-loaders			Terminal tractor	
												25	35	25	35	Static	25	35	40	
12.00 R 20	FLR-01	8.00–20 (8.50 V–20)	1 121	318	1 146	334	505	3 180	36		176 A5	5 100	4 700	6 600	6 400	7 700	5 100	4 700	4 550	6.0
												5 350	4 950	6 900	6 650	8 080	5 350	4 950	4 750	6.5
												5 550	5 150	7 200	6 950	8 390	5 550	5 150	4 950	7.0
												5 800	5 400	7 570	7 300	8 760	5 800	5 400	5 200	7.5
												6 050	5 650	7 950	7 650	9 150	6 050	5 650	5 450	8.0
												6 250	5 880	8 250	7 950	9 450	6 250	5 880	5 650	8.5
												6 500	6 100	8 600	8 250	9 820	6 500	6 100	5 900	9.0
												6 800	6 350	8 900	8 560	10 270	6 800	6 350	6 100	9.5
												7 100	6 570	9 230	8 880	10 730	7 100	6 570	6 320	10.0

Tyre size	Tread pattern Type	Rim (permitted)	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)	Tread pattern depth (mm)		Service description LI/SS	Loader service Tyre load capacity (kg) at speed (km/h)							Tyre pressure (bar)
			Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)						Static	1	5	10	15	20	25	
16.00 R 25	SC-01	11.25/2.0–25	1 510	432	1 540	454	–	–	55		**	21 870	19 440	17 620	16 400	15 800	15 430	15 200	10.0
18.00 R 25	CH-01	13.00/2.5–25	1 660	515	1 690	541	–	–	65		***	30 600	27 200	24 650	22 950	22 100	21 600	21 250	10.0

/* Index of tyre strength

Fork lift diagonal tyres – good handling
in various service conditions

Longer service life

FL-01

Tread pattern designed for heavy duty service. Good directional stability.

FL-02

Rib/block tread pattern combination providing good traction. Good directional control in various service conditions.

Good stability

FL-03

Rib pattern used in 8″ tyres. Good vehicle stability and skid resistance.

FL-07

Combination of rib/block tread pattern.

Longer service life

FL-04

Block type tread pattern for heavy duty service in demanding operating conditions. Good traction characteristics and puncture resistance.

FL-05

Rib tread pattern designed for normal service conditions. Good vehicle stability and skid resistance.

FL-06

Combination of rib/block tread pattern.

Good stability

FL-08

Higher filling of tread pattern. Tread pattern designed for heavy duty service. Good directional stability

Tyre size	FL-01	FL-02	FL-03	FL-04	FL-05	FL-06	FL-07	FL-08
4.00 – 8			•					•
5.00 – 8	•		•					•
16 × 6 – 8								•
18 × 7 – 8								•
6.00 – 9	•	•						•
21 × 8 – 9								•
6.50 – 10	•	•						•
23 × 9 – 10								•
7.00 – 12	•	•						•
250/75 – 12								•
23 × 5					•		•	
7.50 – 15								•
8.15 – 15				•				•
250 – 15								•
8.25 – 15						•		•
300 – 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 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 FL-08	TT	3.00 D–8 3 1/4 I–8[1]	4.00–8	414	112	422	121	188	134 138
5.00–8	FL-01 FL-03 FL-08	TT	3.00 D–8	5.00–8	467	132	476	143	208	158
16×6–8	FL-08	TT	4.33 R–8	16×6–8	425	152	434	164	192	175
18×7–8	FL-08	TT	4.33 R–8	18×7–8	462	173	471	187	206	199
6.00–9	FL-01 FL-02 FL-08	TT	4.00 E–9	6.00–9	540	160	551	173	240	192
21×8–9	FL-08	TT	6.00 E–9	21×8–9	535	200	546	216	234	230
6.50–10	FL-01 FL-02	TT	5.00 F–10 (5.50 F–10)	6.50–10	588	177	600	191	262	212 (218)
6.50–10	FL-08	TT	5.00 F–10 (5.50 F–10)	6.50–10	588	177	600	191	262	212 (218)
23×9–10	FL-08	TT	6.50 F–10	23×9–10	595	225	607	243	260	259
7.00–12	FL-01 FL-02	TT	5.00 S–12	7.00–12	672	192	685	207	303	230
7.00–12	FL-08	TT	5.00 S–12	7.00–12	672	192	685	207	303	230
250/75–12 (27×10–12)	FL-08	TT	8.00 G–12	250/75–12 27×10–12 (27×10–12)	681	261	697	274	314	293
23×5	FL-05	TT	3.75 P–13	23×5	635	155	654	167	295	186
23×5	FL-07	TT	3.75 P–13	23×5	635	155	654	167	290	186
7.50–15	FL-08	TT	6.0–15 (6.5–15)	7.50–15	772	212	787	229	350	254 (260)
8.15–15	FL-04 FL-08	TT	7.0–15	28×9–15	707	216	721	233	322	248
8.25–15	FL-06	TT	6.5-15	8.25-15	836	234	853	253	376	281
8.25–15	FL-08	TT	6.5-15	8.25-15	836	234	853	253	376	281
250–15	FL-08	TT	7.50–15	250–15	735	250	750	270	340	288
300–15	FL-08	TT	8.00–15	300–15	840	300	857	324	366	345

Tread pattern	Service description LI/SS	Ply rating	Tyre load capacity (kg)		Tyre pressure (bar)
			Load wheel	Steering wheel	
FL-03 **FL-08**	90 A5 94 A5 97 A5	6 PR 8 PR 10 PR	780 870 950	600 670 730	8.00 9.00 10.00
FL-01 **FL-03** **FL-08**	106 A5	8 PR	1 235	950	8.25
FL-08	113 A5	16 PR	1 495	1 150	10.00
FL-08	121 A5 125 A5	14 PR 16 PR	1 885 2 145	1 450 1 650	9.00 10.00
FL-01 **FL-02** **FL-08**	118 A5 121 A5	10 PR 12 PR	1 715 1 885	1 320 1 450	8.50 10.00
FL-08	134 A5	16 PR	2 755	2 120	10.00
FL-01 **FL-02**	122 A5 125 A5	10 PR 12 PR	1 950 2 145	1 500 1 650	7.75 9.00
FL-08	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
FL-08	142 A5	20 PR	3 440	2 650	10.00
FL-01 **FL-02**	133 A5 134 A5	12 PR 14 PR	2 680 2 755	2 060 2 120	8.50 9.00
FL-08	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
FL-08	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
FL-05	106 B 118 B	6 PR 10 PR	– –	950 1 320	6.00 8.00
FL-07	113 A5 121 A5	6 PR 10 PR	1 495 1 885	1 150 1 450	5.25 8.00
FL-08	144 A5 146 A5	14 PR 16 PR	3 640 3 900	2 800 3 000	9.25 10.00
FL-04 **FL-08**	146 A5	14 PR	3 900	3 000	10.00
FL-06	149 A5	14 PR	4 225	3 250	8.00
FL-08	153 A5	18 PR	4 745	3 650	10.00
FL-08	153 A5	18 PR	4 745	3 650	9.50
FL-08	165 A5	22 PR	6 695	5 150	10.00

[1] obligatory for 8 PR and 10 PR

Tyre size	TI-20	TI-22
340/80 R 18	●	
460/70 R 24 IND		●
480/80 R 26 IND	●	
440/80 R 28 IND	●	

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**

TI-20 TI-22

Tractor industrial radial technical data and load capacities

Tyre size	Tread pattern Type	Rim (permitted)	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)		Service description LI/SS	Tyre load capacity (kg) at speed (km/h)							Tyre pressure (bar)
			Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)					0	10	10 cyclic	20	30	40	50	
340/80 R 18	TI-20 TL	11 × 18 (12 × 18, W 10 × 18, W 11 × 18)	1 001	343	1 023	360	449	2 011			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**
460/70 R 24 IND	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			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**
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			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**
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			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**

Tractor industrial diagonal – robust and durable tyres for construction and road works

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

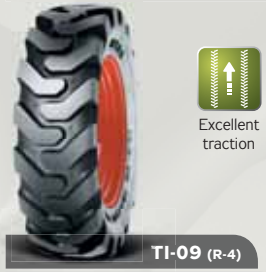
TI-05 (R-4)

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

TD-03 (R-1)

Pattern suitable above all for harder conditions due to optimised number of lugs.

Excellent traction

TR-01 (R-4)

Excellent traction pattern, suitable for industrial and agricultural application.

TR-05 (R-4)

Time proven pattern for industrial and agricultural application with very good traction.

TR-09 (R-4)

Tread pattern with good traction.

Tyre size	TI-02	TI-04	TI-05	TI-06	TI-09	TD-03	TR-01	TR-05	TR-09	TR-10	G'N'R	TG-01
14 – 17.5										•		
12.5/80 – 18									•			
14.5/80 – 18								•				
16.0/70 – 20									•			
400/70 – 20							•					
15.5/80 – 24							•					
400/80 – 24 IND			•									
16.9 – 24 IND		•										
17.5 L – 24	•						•					
19.5 L – 24 IND			•								•	
460/70 – 24 IND			•				•					
500/70 – 24 IND			•									
18.4 – 26 IND				•								
16.9 – 28 IND				•								•
16.9 – 30 IND					•	•						

High durability

TR-10 (R-4)

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

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.

Tractor industrial – 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.

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

Tractor industrial diagonal technical data and load capacities

Tyre size	Tread pattern Type	Rim (permitted)	New		Max. in service		Loaded static radius (mm)	Rolling circum-ference (mm)		Service description LI/SS	Ply rating	Tyre load capacity (kg) – free rolling / drive wheels – at speed (km/h)					Tyre pressure (bar)
			Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)						10	20	30	40	50	
14 – 17.5	TR-10 TL	10.50 × 17.5	910	355	932	383	430	2 858		150/139 B	14 PR	3 890 / 2 760 4 060 / 2 890 4 240 / 3 030 4 410 / 3 165 4 640 / 3 345 4 930 / 3 565 5 210 / 3 780	3 505 / 2 480 3 655 / 2 600 3 820 / 2 730 3 970 / 2 850 4 175 / 3 010 4 435 / 3 205 4 685 / 3 400	3 115 / 2 205 3 250 / 2 315 3 395 / 2 425 3 530 / 2 530 3 715 / 2 675 3 940 / 2 850 4 166 / 3 025	2 780 / 1 970 2 900 / 2 065 3 030 / 2 165 3 150 / 2 260 3 315 / 2 390 3 520 / 2 545 3 720 / 2 700	2 500 / 1 775 2 610 / 1 860 2 725 / 1 950 2 835 / 2 035 2 985 / 2 150 3 170 / 2 290 **3 350 / 2 430**	3.20 3.50 3.80 4.10 4.50 5.00 **5.50**
12.5/80 – 18	TR-09 TL	11 × 18 (9 × 18)	987	308	1 014	323	465	2 900		138/125 A8	12 PR	2 675 / 1 890 2 865 / 2 015 3 050 / 2 170 3 200 / 2 235 3 305 / 2 310	2 405 / 1 700 2 575 / 1 815 2 745 / 1 955 2 880 / 2 010 2 975 / 2 080	2 140 / 1 510 2 290 / 1 615 2 440 / 1 735 2 560 / 1 790 2 650 / 1 850	1 910 / 1 350 2 045 / 1 440 2 180 / 1 550 2 285 / 1 595 **2 360 / 1 650**	1 720 / 1 215 1 840 / 1 295 1 960 / 1 395 2 055 / 1 435 2 125 / 1 485	2.50 2.80 3.10 3.40 **3.70**
14.5/80 – 18	TR-05 TT	11 × 18 (12 × 18)	1 045	372	1 073	390	475	3 075		155/143 A8	12 PR	3 765 / 2 660 4 445 / 3 155 4 895 / 3 485 5 425 / 3 815	3 390 / 2 395 4 000 / 2 840 4 405 / 3 135 4 885 / 3 435	3 015 / 2 130 3 555 / 2 525 3 915 / 2 790 4 340 / 3 050	2 690 / 1 900 3 175 / 2 255 3 495 / 2 490 **3 875 / 2 725**	2 420 / 1 710 2 860 / 2 030 3 145 / 2 240 3 490 / 2 455	2.50 3.25 3.75 **4.25**
16.0/70 – 20	TR-09 TL	13 SDC – 20	1 095	408	1 125	450	504	3 220		150/138 A8	14 PR	3 430 / 2 460 3 815 / 2 730 4 100 / 3 005 4 690 / 3 305	3 090 / 2 210 3 435 / 2 455 3 690 / 2 700 4 220 / 2 975	2 745 / 1 965 3 050 / 2 185 3 280 / 2 400 3 750 / 2 645	2 450 / 1 755 2 725 / 1 950 2 930 / 2 145 **3 350 / 2 360**	2 205 / 1 580 2 450 / 1 755 2 640 / 1 930 3 015 / 2 125	2.00 2.50 3.00 **3.50**

Tractor industrial diagonal 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 pattern	Service description LI/SS	Ply rating	Tyre load capacity (kg) at speed (km/h)							Tyre pressure (bar)
			Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)						Static	10	10 cyclic	20	30	40	50	
400/70 – 20	TR-01 TL	13 SDC × 20	1 090	404	1 120	424	490	3 210	**TR-01**	150 B	14 PR	5 111	3 040	3 648	3 735	2 420	2 175	1 975	2.00
												6 016	3 580	4 296	3 225	2 850	2 560	2 325	2.50
												6 921	4 120	4 944	3 710	3 280	2 945	2 675	3.00
												7 826	4 660	5 592	4 195	3 710	3 330	3 025	3.50
												8 660	5 160	6 192	4 645	4 100	3 685	**3 350**	**4.00**
15.5/80 – 24	TR-01 TL	W 12 × 24 (W 13 × 24) (W 14 L × 24)	1 269	394	1 293	414	585	3 730	**TR-01**	142 A8	12 PR	5 076	3 025	3 630	2 720	2 400	2 160	1 945	2.00
												5 346	3 185	3 822	2 865	2 525	2 275	2 050	2.25
												5 546	3 305	3 966	2 975	2 650	2 360	2 125	2.50
												5 875	3 500	4 200	3 150	2 775	2 500	2 250	2.75
												6 228	3 710	4 452	3 340	2 900	**2 650**	2 385	**3.00**
										144 A8	14 PR	6 404	3 815	4 578	3 435	3 025	2 725	2 455	3.25
												6 580	3 920	4 704	3 530	3 150	**2 800**	2 520	**3.50**
										147 A8	16 PR	6 903	4 115	4 938	3 700	3 290	2 938	2 645	3.75
												7 226	4 305	5 166	3 875	3 445	**3 075**	2 770	**4.10**
										151 A8	–	7 520	4 480	5 376	4 030	3 585	3 200	2 880	4.25
												7 814	4 655	5 586	4 190	3 725	3 325	2 995	4.50
												8 108	4 830	5 796	4 345	3 865	**3 450**	3 105	**4.75**
400/80 – 24 IND	TI-05 TL	DW 13 × 24 (DW 14 L × 24) (13 × 24, 14 × 24) (TW 14 L × 24)	1 250	404	1 294	436	573	3 688	**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**
16.9 – 24 IND	TI-04 TL	W 15 L × 24 (W 14 L × 24)	1 310	429	1 355	463	610	3 865	**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**
17.5 L – 24	TI-02 TL	W 15 L × 24 (W 14 L × 24)	1 241	445	1 278	481	580	3 660	**TR-01**	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**
	TR-01 TL	W 15 L × 24	1 241	445	1 278	481	580	3 650											
19.5 L – 24 IND	TI-05 TL	DW 16 L × 24	1 314	495	1 356	535	610	3 865	**TI-05 GRIP-n--RIDE**	151 A8	12 PR	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
												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
												7 935	4 315	5 175	3 760	3 590	**3 450**	3 140	**2.30**
	GRIP-n-RIDE TL	W 16 L × 24 (DW 16 L × 24)	1 314	495	1 356	535	610	3 865											

Tractor industrial diagonal 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 pattern	Service description LI/SS	Ply rating	Tyre load capacity (kg) at speed (km/h)							Tyre pressure (bar)
			Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)						Static	10	10 cyclic	20	30	40	50	
460/70 – 24 IND	TR-01 TL	DW 14 L × 24 (DW 15 L, DW 16 L, 14, 16, TW 14 L)	1 254	455	1 300	494	565	3 700	**TR-01 TI-05**	159 A8	–	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
												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
	TI-05 TL	DW 14 L × 24 (DW 15 L, DW 16 L, 14, 16, TW 14 L)	1 250	455	1 300	494	580	3 660				10 065	5 470	6 565	4 770	4 550	**4 375**	3 980	**4.00**
500/70 – 24 IND	TI-05 TL	DW 16 L × 24 (DW 15 L × 24) (W 15 L × 24) (W 16 L × 24) (16 × 24)	1 310	503	1 360	528	589	3 865	**TI-05**	164 A8	–	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
												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
												11 500	6 250	7 500	5 450	5 200	**5 000**	4 550	**4.00**
18.4 – 26 IND	TI-06 TL	W 16 L × 26 (W 15 L × 26)	1 425	467	1 470	504	665	4 190	**TI-06**	156 A8	12 PR	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
												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
												9 200	5 000	6 000	4 360	4 160	**4 000**	3 640	**2.50**
16.9 – 28 IND	TI-06 TL	W 15 L × 28 (W 14 L × 28)	1 410	429	1 455	463	660	4 160	**TI-06**	152 A8	12 PR	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
												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
												8 165	4 440	5 325	3 870	3 690	**3 550**	3 230	**2.60**
16.9 – 28	TG-01 TL	W 15 L × 28 (W 14 L × 28)	1 410	429	1 455	463	640	4 190	**TG-01**	151 A6	12 PR	7 055	3 834	4 601	2 791	3 195	3 067	2 791	2.30
												7 253	3 942	4 730	2 870	3 285	3 154	2 870	2.40
												7 452	4 050	4 860	2 948	3 375	3 240	2 948	2.50
												7 651	4 158	4 990	3 027	**3 465**	3 326	3 027	**2.60**
16.9 – 30 IND	TI-09 TL	W 15 L × 30 (W 14 L × 30)	1 460	429	1 500	463	685	4 300	**TI-09 TD-03**	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
	TD-03 TL	W 15 L × 30 (W 14 L × 30)	1 485	429	1 530	463	695	4 380				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**

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		●			
10.0/75–15.3 IND	●				
10–16.5		●	●	●	
12–16.5		●	●	●	
14–17.5					●
10.5/80–18				●	
12.5/80–18				●	

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.

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.

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.

Skid steer 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 pattern	Service description LI / SS	Ply rating	Tyre load capacity (kg) at speed (km/h)						Tyre pressure (bar)
				Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)							10	15	20	30	40	50	
23×8.50–12	SK-02 TL	7.00×12	–	575	214	589	231	258	1 690		**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**
27×8.50–15	SK-02 TL	7.00×15	–	680	214	695	231	317	2 000		**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**
27×10.50–15	SK-02 TL	8.50×15	–	683	264	693	268	320	2 140		**SK-02**	106 A6	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**
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		**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**

Skid steer 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 pattern	Service description LI / SS	Ply rating	Tyre load capacity (kg) at speed (km/h)						Tyre pressure (bar)
				Overall diameter (mm)	Section width (mm)	Overall diameter (mm)	Overall width (mm)						10	15	20	30	40	50	
10–16.5	SK-02 TL	8.25×16.5	–	773	264	792	285	345	2 340	**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-05 TL	8.25×16.5	–	805	259	840	280	366	2 355										
	BIG BOY TL	8.25×16.5	–	798	259	832	280	366	2 355	**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**
12–16.5	SK-02 TL	9.75×16.5	–	831	307	851	331	370	2 515	**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-05 TL	9.75×16.5	–	836	305	873	329	384	2 475										
	BIG BOY TL	9.75×16.5	–	841	315	879	340	384	2 475	**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**
14–17.5	TR-10 TL	10.50×17.5	–	910	355	932	383	430	2 858	**TR-10**	139 B	14 PR	2 760 2 890 3 030 3 165 3 345 3 565 3 780		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**
10.5/80–18	BIG BOY TL	9×18	–	907	274	927	292	411	2 645	**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**
12.5/80–18	BIG BOY TL	9×18	–	991	307	1 014	323	445	2 865	**BIG BOY**	123 A8	10 PR	1 750 1 960 2 170		1 575 1 765 1 955	1 400 1 570 1 735	1 250 1 400 **1 550**	1 190 1 330 1 475	2.50 2.80 **3.10**
											128 A8	14 PR	2 270 2 350 2 435 2 520		2 040 2 120 2 190 2 270	1 815 1 880 1 950 2 015	1 620 1 680 1 740 **1 800**	1 540 1 595 1 655 1 710	3.40 3.70 4.00 **4.30**

Use and 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.

REPAIRS TO TYRES

- 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.

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
L-4	Rock Deep Design	Tread Depth 150%
L-5	Extra Rock Deep Design	Tread Depth 250%

BELOW ARE EXAMPLES OF MITAS "L" SERIES TYRES

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.
The **L-4** rock deep tread offers excellent tyre life.
The **L-5** extra Rock deep tread offer high resistance to cutting.

These illustrations show different lug to void ratios.

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
L-4	90	110	110	1:3
L-5	80	120	110	1:4

"E" SERIES TYPE TYRES

The "E" series type tyres are referred to as haulage tyres in off-road earthmoving applications. These tyres transport material over uneven surfaces at speeds under 50 km/h and short distances, up to 4 km one way. The machine returns unloaded to the loading point.

Transport service: Transport of material
Speed up to 50 km/h
Distance up to 4 km (length of working cycle)

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

Number code	Type	Tread depth
E-2	Traction Design	Regular Tread Depth
E-3	Rock Design	Regular Tread Depth
E-4	Rock Deep Design	Tread Depth 150%

BELOW ARE EXAMPLES OF MITAS "E" SERIES TYRES

E-2

E-3

E-4

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.

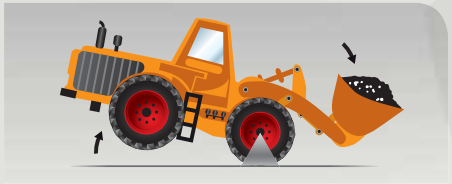
- Determine the maximum load / tyre on the front and rear axles

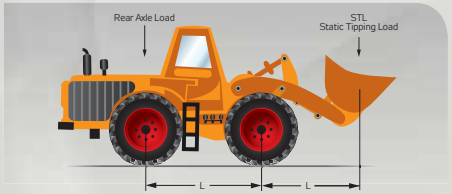
FRONT axle

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)





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.

Ton – Kilometer – Per Hour (TKPH) values

Tyre dimension	Tread pattern	to 5 km	5 to 10 km	10 km and more	Load capacity at 50 km/h (tons)	TKPH value
17.5 R 25	**ERL-20**	35	32	29	4.13	116
17.5 R 25	**ERL-30**	32	29	26	4.13	106
20.5 R 25	**ERD-20**	35	32	29	7.30	204
20.5 R 25	**ERD-30**	32	29	26	7.30	187
23.5 R 25	**ERD-20**	35	32	29	9.25	259
23.5 R 25	**ERD-30**	32	29	26	9.25	237
23.5 R 25	**ERD-40**	29	26	24	9.25	215
26.5 R 25	**ERD-30**	31	27	24	11.50	285
26.5 R 25	**ERD-40**	29	26	24	11.50	267
750/65 R 25	**ERD-30**	29	26	24	10.60	246

TKPH value is an indicator of the tyre's transport capacity and provides a means of achieving optimum performance from MITAS Earthmover Radial tyres. As tyres have a limited resistance to heat, it is necessary to restrict the amount of hours worked to avoid over heating when the vehicle is operating under given conditions.The TKPH value specifies the numbers of working hours that should be followed.

In order to choose the optimum tyre for the job the TKPH value for the tyre and TKPH value for the operation should be compared.

1. Finding the tyre's TKPH value

The tyre's TKPH value is determined by the following formula:

$TKPH_{tyre} = 0.8 \times Q_L \times V_{Alloved}$

Q_L = Tyre Loading in tons at speed 50 km/h

$V_{alloved}$ = Allowed average speed in km/h

To determine the average speed of an EM Radial tyre the value from table should be used. The calculation is based on outside temperature about 38 ºC and a round trip distance of max. 5 kilometers (one way loaded and return empty)

2. Finding of TKPH value for the operation

The TKPH in operation shows the specific operational requirements and is calculated by the following formula:

$TKPH_{in\ operation} = (Q_{loaded} + Q_{empty})/2 \times (n \times L)/h$

Q_{loaded} = tyre loading when the vehicle is loaded

Q_{empty} = tyre loading when the vehicle is empty

n = number of cycles per working day

L = distance of cycle in kilometers (back and forth)

h = number of working hours per day

3. TKPH-comparison

The values for $TKPH_{tyre}$ and $TKPH_{in\ operation}$ should be compared to determine the most suitable tyre fitment for the operating conditions.

Tyre is suitable if:

$TKPH_{tyre} \geq TKPH_{in\ operation}$

Tyre is unsuitable if:

$TKPH_{tyre} \leq TKPH_{in\ operation}$

4. Limitation in operation

4.1. If the cycle is longer than 5 kilometers (back and forth), the following formula should be used:

$TKPH = TKPH_{tyre} \times 0.88$

4.2. To find TMPH (tonnes-mile per hour), the value TKPH should be multipled by factor 0.685:

$TMPH = TKPH \times 0.685.$

Rim specification

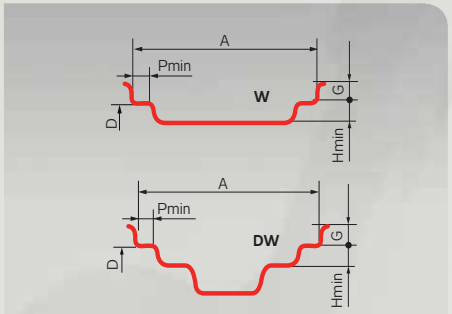
SAMPLE OF RIM MARKING

DW 18 L×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

W	Wide drop centre – single well shape rim
DW	Wide drop centre – double well shape rim
SDC	Semi-drop centre rim
–	Multi-piece rim
×	One-piece rim
H2	Double Hump
DC	Drop Centre rim

W AND DW RIMS



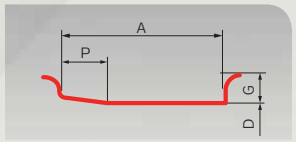
Type	A	G	P min.	H min.
W 14 L	355.6	25.4	27.0	20.6
W 15 L	381.0	25.4	33.0	20.6
W 16 L	406.4	25.4	33.0	20.6
DW 20 A	508.0	28.6	50.8	27.0
DW 15 L	381.0	25.4	36.5	27.0
DW 18	457.2	25.4	50.8	27.0
DW 20	508.0	28.6	41.3	27.0

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

15º DROP-CENTRE RIMS

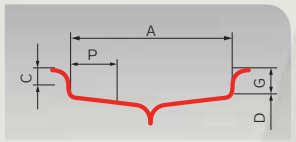
Rim	A	G	D
8.25×16.5	209.6	12.7	419.1
9.75×16.5	247.6	12.7	419.1
10.50×17.5	266.5	12.7	444.5
13.00×19.5	330.2	12.7	495.3
14.00×19.5	355.6	12.7	495.3
16.00×22.5	406.4	12.7	571.5
20.00×22.5	508.0	12.7	571.5

FLAT BASE RIMS



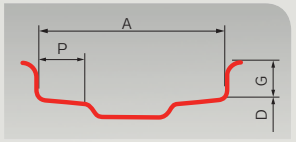
Rim	A	G	D
3.75 P–13	95.2	25.4	330.2
4.33 R–8	110.0	28.6	381.0

FLAT BASE RIM – DIVIDED TYPE



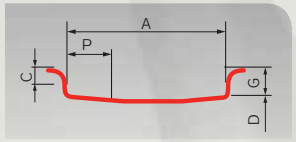
Rim	A	G	D
4.33 R–8	110.0	27.8	205.1

5º SEMI-DROP CENTRE RIMS



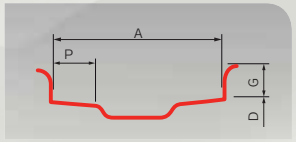
Rim	A	G	D
9×20 SDC	228.6	25.4	512.8
11×20 SDC	279.4	25.4	512.8
12×20 SDC	304.8	25.4	512.8
13×20 SDC	330.2	25.4	512.8
13×24 SDC	330.2	25.4	614.4
8.00 TG×24 SDC	203.2	35.7	614.4
16.00 T–24 SDC	406.4	35.7	614.4
10.00 VA×24 SDC	254.0	43.2	614.4

5º TAPERED RIMS



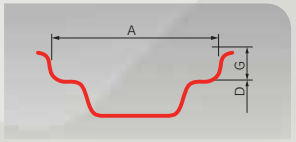
Rim	A	G	D
3.00 D–8	76.2	17.5	202.4
4.00 E–9	101.6	19.8	227.8
6.00 E–9	152.4	19.8	227.8
5.00 F–10	127.0	22.2	253.2
5.50 F–10	139.7	22.2	253.2
6.50 F–10	165.1	22.2	253.2
5.00 S–12	127.0	31.3	308.8
8.00 G–12	203.2	27.9	304.0

5º FULL TAPERED RIMS

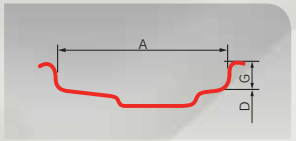


Rim	A	G	D
11.25/2.0–25	286.0	51.0	635.0
13.00/2.5–25	330.2	63.5	635.0
15.00/2.5–25	381.0	63.5	635.0
17.00/2.0–25	431.8	50.8	635.0
19.50/2.5–25	495.3	50.8	635.0
22.00/3.0–25	558.8	76.2	635.0
24.00/3.0–25	609.6	76.2	635.0
22.00/3.0–29	558.8	76.2	736.6
24.00/3.0–29	609.6	76.2	736.6

5º DROP-CENTRE RIMS

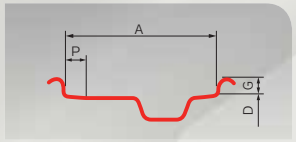


Rim	A	G	D
7.00×12	177.8	20.5	304.0
7.00×15	177.8	20.5	380.2

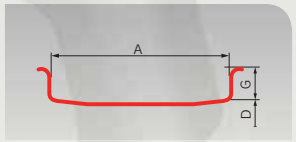


Rim	A	G	D
9.00×15.3	228.6	19.0	388.8
9×18	228.6	25.4	462.0
11×18	279.4	25.4	462.0
12×18	304.8	25.4	462.0
9×20	228.6	25.4	512.8
11×20	279.4	25.4	512.8
12×20	304.8	25.4	512.8
13×20	330.2	25.4	512.8
16.0×20	406.5	25.5	512.8
13×24	330.2	25.4	614.4
13.0×24	330.2	25.4	614.4

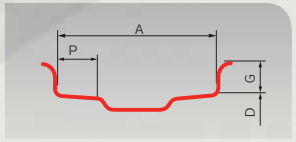
5º DROP-CENTRE RIMS



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

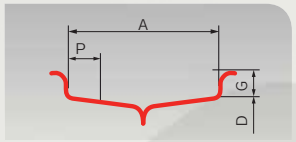


Rim	A	G	D
6.0–15	152.4	33.0	387.4
6.5–15	165.1	35.6	387.4
7.0–15	177.8	38.1	387.4
6.0–20	152.4	33.0	514.4
6.5–20	165.1	35.6	514.4
7.0–20	177.8	38.1	514.4
7.5–20	190.5	40.6	514.4
8.0–20	203.2	43.2	514.4
8.5–20	215.9	45.7	514.4



Rim	A	G	D
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

5º 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

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	Indicates the maximum speed at which the tyre can carry a load corresponding to its load index under service conditions specified by the tyre manufacturer.
	Free rolling wheels	Free rolling wheels, which do not transmit motion, e.g. trailer.
	Drive wheels	Drive wheels, which 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.

Acronyms	Meaning	Definition
	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.
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 must be increased for HLV application, consult the tyre manufacturer for details. 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 the 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 consistent with ETRTO standards.
	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 with the same size designation for use on agricultural tractors.
REINFORCED		Tyres with better protection against tyre damage (puncture). The load capacity and tyre dimensions remain standard.

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MITAS a. s. belongs to CGS a. s., a holding company with the most comprehensive portfolio of rubber production in the Czech Republic. CGS a. s. manufactures and globally distributes products for the automotive industry and other industries.

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Rubena	Rubena Sico Rubena	– Rubber compounds – Rubber moulded parts – Antivibrating systems – Sealing elements – Rubber roller coatings – Silicon rubber products – Rubber-textile fabric products – V-belts – Bicycle tyres and tubes
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