Trelleborg

Construction

Technical manual

Technical Manual Index

Product range overview

	Tire Size	Alternative Size	Rim Size	
	5.70-12		4.50-12	
12”	23x8½-12	215/65-12	7.0-12	
	27x10-12	255/75-12	8.00G-12	
	27x10½-15	265/55-15	9.75-15	
15”	29x12½-15	320/55-15	10.0-15	
	31x15½-15	395/50-15	13.0-15	
	27x8½-15	220/70-15	7.00-15	
16”	30x10-16	10-16.5 *	6.0-16	
	10-16.5		8.25-16.5	
16.5”	31½x13-16.5	330/60-16.5	9.75-16.5	
	12-16.5		9.75-16.5	
17.5”	14-17.5		10.50-17.5	
19.5”	15-19.5		11.75-19.5	
	8.25-20		6.5-20	
	9.00-20		6.5-20; 7.0-20	
	10.00-20		7.0-20; 7.5-20; 8.0-20	
	12.00-20		8.0-20; 8.5-20	
20”	31x10-20	10-16.5 *	7.5-20	
	33x12-20	12-16.5 *	7.5-20	
	36x14-20	14-17.5 *	7.5-20	
	40x14-20	15-19.5 *	10.0-20	
	400/70-20	405/70-20; 16/70-20	13x20	
	650/45-22.5		AG22.00; AG24.00	
22.5”	600/50-22.5		AG20.00	
	710/40-22.5		AG24.00	
	13.00-24		8.5-24	
	14.00-24	385/95-24	8.5-24	
	14.00R24	385/95-24	10.00VA-24 (SDC); 8.00TG-24 (SDC)	
	43x15-24	405/70-20	10.0-24	
24”	47x17-24	405/70-24	10.0-24	
	400/70-24	405/70-24; 16/70-24	13x24	
	400/80-24	15.5/80-24	DW13x24	
	460/70-24	17.5L-24	DW15Lx24	
	500/70-24	19.5L-24	DW16Lx24	
	17.5-25*	445/80-25	14.00-25/1.5	
	20.5-25*	525/80-25	17.00-25/2.0	
25”	23.5-25*	595/80-25	19.50-25/2.5	
	26.5-25*	675/80-25	22.00-25/3.0	
	29.5-25*	750/80-25	25.00-25/3.5	
33”	18.00-33*	505/95-33	13.0-33	

* Equivalent Pneumatic Size

	PREMIUM								MID-RANGE
	EMR	MPX TB	SK-900	T440/T480 EXC	Brawler HPS	Brawler HD	Excavator	SKS-900	SK-800
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Product range overview

	Tire Size	Alternative Size	Rim Size	
MOLD ON	55x10x18	17.5-25 *		
	59x12x20.5	20.5-25 *		
	62x13x21	20.5-25 *		
	66x16x24	23.5-25 *		
	69x17x28	26.5-25 *		
	73x18x31	29.5-25 *		
	80x18x35	35/65-33 *		
	31x5x7	7.50-16 *		
	31x5x9	10-16.5 *		
	31x6x10	10-16.5 *		
	33x6x8	8.00-16 *		
	33x6x10	12-16.5 *		
	33x6x11	12-16.5 *		
	36x7x11	14-17.5 *		
	39x6x15	39x15-22.5		
	43x6x14.5	385/65D22.5 *		
	46x6x18	445/65D22.5 *		
	42x10x22	10.00-20 dual		
	45x10x24	12.00-20 dual		
	48x10x27	12.00-24 dual		
	52x10x31	14.00-24 dual		

* Equivalent Pneumatic Size

	PREMIUM								MID-RANGE
	EMR	MPX TB	SK-900	T440/T480 EXC	Brawler HPS	Brawler HD	Excavator	SKS-900	SK-800
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EMR Wheel loader service

Wheel loader

Tire Size	Tread Pattern Type	Rim (Permitted)	New		Loaded Static Radius (inch)	Rolling Circum-ference (inch)	Tread Depth (32nd)	Com-pound
			Overall Diameter (inch)	Section Width (inch)				
17.5 R 25	EMR1020 L2 *	14.00/1.5-25 (14.00/1.5x25 DC, 14.00/1.3x25 DC)	53.2	17.1	23.2	161.5	33	CR
	EMR1025 L2 *	14.00/1.5-25 (14.00/1.5x25 DC, 14.00/1.3x25 DC)	53.2	17.3	23.5	158.7	35	CR
	EMR1030 L3 *	14.00/1.5-25 (14.00/1.5x25 DC, 14.00/1.3x25 DC)	53.1	17.4	24.0	160.3	34	CR
	EMR1031 L3 *	14.00/1.5-25 (14.00/1.5x25 DC, 14.00/1.3x25 DC)	53.0	17.5	23.5	158.5	39	CR
20.5 R 25	EMR1020 L2 **	17.00/2.0-25 (17.00/1.7-25)	58.7	21.3	25.3	178.4	35	CR
	EMR1025 L2 * 186 A2	17.00/2.0-25 (17.00/1.7-25)	58.7	20.9	25.5	174.4	39	STD
	EMR1030 L3**	17.00/2.0-25 (17.00/1.7-25)	58.7	21.1	25.5	177.9	43	CR
	EMR1031 L3**	17.00/2.0-25 (17.00/1.7-25)	58.7	21.2	25.6	175.8	45	CR
	EMR1030V L3**	17.00/2.0-25 (17.00/1.7-25)	58.9	20.6	25.4	177.7	45	STD
	EMR1050 L5**	17.00/2.0-25 (17.00/1.7-25)	60.8	20.7	27.0	186.4	103	CR
	EMR1051 L5**	17.00/2.0-25 (17.00/1.7-25)	60.9	20.6	26.8	182.7	88	CR

STD= STANDARD
CR= CUT RESISTANT
HT= HIGH TKPH

EMR 1020 EMR 1025 EMR 1030 EMR 1030V EMR 1031 EMR 1040 EMR 1042 EMR 1050 EMR 1051

Service Description LI/SS Loader	Loader Service - Tire Load Capacity (lbs) at Speed (mph)					Tire Pressure (psi)
	Static	3	6	12	19	
176 A2	13,230	9,426	8,269	6,946	6,395	29
	14,443	10,308	9,041	7,607	6,946	33
	15,656	11,135	9,812	8,269	7,552	36
	16,758	11,907	10,474	8,820	8,048	40
	17,971	12,789	11,246	9,426	8,655	44
	19,184	13,671	12,017	10,088	9,261	47
	20,286	14,443	12,679	10,639	9,757	51
	21,499	15,325	13,451	11,246	10,364	54
	22,712	16,207	14,222	11,907	10,970	58
	23,814	16,979	14,884	12,458	11,466	62
	25,137	17,861	**15,656**	13,120	12,017	**65**
186 A2	17,861	12,679	11,135	9,371	8,600	29
	19,404	13,781	12,128	10,198	9,316	33
	20,948	14,994	13,120	11,025	10,088	36
	22,491	16,097	14,112	11,907	10,860	40
	24,255	17,199	15,104	12,679	11,576	44
	25,578	18,191	15,986	13,451	12,348	47
	27,122	19,404	16,979	14,222	13,120	51
	28,665	20,507	17,971	15,104	13,892	54
	30,429	21,609	18,963	15,876	14,553	58
	31,973	22,712	19,955	16,758	15,325	62
	33,516	23,814	**20,948**	17,640	16,097	**65**
193 A2	34,839	24,917	21,830	18,302	16,758	69
	36,383	25,799	22,712	19,073	17,530	73
	37,706	26,901	23,594	19,845	18,191	76
	39,249	28,004	24,476	20,507	18,853	80
	40,572	28,886	**25,358**	21,278	19,514	**83**

*/** - Index of tire strength

EMR Wheel loader service

Wheel loader

Tire Size	Tread Pattern Type	Rim (Permitted)	New		Loaded Static Radius (inch)	Rolling Circum-ference (inch)	Tread Depth (32nd)	Com-pound
			Overall Diameter (inch)	Section Width (inch)				
23.5 R 25	EMR1020 L2 **	19.50/2.5-25	63.6	24.2	27.2	192.2	40	CR
	EMR1025 L2 * 195 A2	19.50/2.5-25	63.4	24.0	27.5	188.0	43	STD
	EMR1030 L3 **	19.50/2.5-25	63.6	24.2	27.3	192.6	45	CR
	EMR1031 L3 **	19.50/2.5-25	63.5	24.2	27.7	192	47	CR
	EMR1040 L4 **	19.50/2.5-25	65.8	24.3	28.7	197.9	72	CR
	EMR1042 L4 **	19.50/2.5-25	63.6	23.9	27.7	191.1	64	CR
	EMR1050 L5 **	19.50/2.5-25	65.7	24.0	29.0	201.3	111	CR
	EMR1051 L5 **	19.50/2.5-25	65.8	23.6	28.9	197.5	96	CR
26.5 R 25	EMR1030 L3 **	22.00/3.0-25	68.8	26.6	29.5	208.8	53	CR
	EMR1040 L4 **	22.00/3.0-25	70.7	26.9	29.3	212.2	77	CR
	EMR1042 L4 **	22.00/3.0-25	68.9	27.0	29.6	206.3	68	CR
	EMR1050 L5 **	22.00/3.0-25	70.6	26.6	30.7	215.8	121	CR
	EMR1051 L5 **	22.00/3.0-25	70.6	26.7	30.6	209.8	107	CR

STD= STANDARD
CR= CUT RESISTANT
HT= HIGH TKPH

EMR 1020 EMR 1025 EMR 1030 EMR 1030V EMR 1031 EMR 1040 EMR 1042 EMR 1050 EMR 1051

Service Description LI/SS Loader	Loader Service - Tire Load Capacity (lbs) at Speed (mph)					Tire Pressure (psi)
	Static	3	6	12	19	
* 195 A2	22,491	16,097	14,112	11,907	10,860	29
	24,476	17,420	15,325	12,899	11,797	33
	26,460	18,853	16,538	13,892	12,679	36
	28,445	20,286	17,750	14,884	13,671	40
	30,429	21,609	18,963	15,876	14,553	44
	32,193	22,932	20,176	16,979	15,545	47
	34,178	24,476	21,389	17,971	16,427	51
	36,162	25,799	22,601	18,963	17,420	54
	38,147	27,122	23,814	19,955	18,302	58
	40,131	28,445	25,027	21,058	19,294	62
	42,777	30,650	**26,791**	22,491	20,617	**65**
** 201 A2	41,895	29,988	26,240	22,050	20,176	65
	43,659	31,091	27,342	22,932	21,058	69
	45,423	32,414	28,445	23,814	21,940	73
	47,187	33,737	29,547	24,917	22,712	76
	48,951	34,839	30,650	25,799	23,594	80
	51,156	36,383	**31,973**	26,901	24,696	**83**
** 209 A2	32,855	23,373	20,507	17,199	15,766	29
	35,060	24,917	21,940	18,412	16,868	33
	37,485	26,681	23,373	19,625	17,971	36
	39,470	28,224	24,696	20,727	18,963	40
	41,895	29,988	26,240	22,050	20,176	44
	44,100	31,311	27,563	23,153	21,168	47
	46,305	32,855	28,886	24,255	22,271	51
	48,290	34,398	30,209	25,358	23,153	54
	50,495	35,942	31,532	26,460	24,255	58
	52,479	37,485	32,855	27,563	25,358	62
	54,684	39,029	34,178	28,665	26,240	65
	56,889	40,572	35,501	29,768	27,342	69
	58,874	41,895	36,824	30,870	28,445	73
	61,079	43,439	38,147	31,973	29,327	76
	63,063	44,982	39,470	33,075	30,429	80
	65,268	46,526	**40,793**	34,178	31,311	**83**

*/** - Index of tire strength

EMR Wheel loader service

Wheel loader

Tire Size	Tread Pattern Type	Rim (Permitted)	New		Loaded Static Radius (inch)	Rolling Circum-ference (inch)	Tread Depth (32nd)	Com-pound
			Overall Diameter (inch)	Section Width (inch)				
750/65 R 25	EMR1030 L3	24.00/3.0-25 (22.00/3.0-25)	63.4	28.5	27.0	193.7	52	CR
29.5 R 25	EMR1030 L3	25.00/3.5-25	73.8	30.1	31.3	221.7	55	CR
	EMR1040 L4	25.00/3.5-25	75.6	30.1	32.5	228.0	77	CR
	EMR1042 L4	25.00/3.5-25	73.7	29.2	31.8	221.7	73	CR
	EMR1050 L5	25.00/3.5-25	75.5	29.2	32.8	228.5	132	CR
	EMR1051 L5	25.00/3.5-25	75.6	29.6	32.4	225.1	116	CR

STD= STANDARD
CR= CUT RESISTANT
HT= HIGH TKPH

EMR 1020 EMR 1025 EMR 1030 EMR 1030V EMR 1031 EMR 1040 EMR 1042 EMR 1050 EMR 1051

Service Description LI/SS Loader	Loader Service - Tire Load Capacity (lbs) at Speed (mph)					Tire Pressure (psi)
	Static	3	6	12	19	
	26,901	19,073	16,758	14,112	12,899	29
	28,886	20,617	18,081	15,215	13,892	33
	31,091	22,050	19,404	16,317	14,994	36
	33,075	23,594	20,727	17,420	15,986	40
	35,721	25,358	22,271	18,743	17,199	44
	38,147	27,122	23,814	19,955	18,302	47
	40,131	28,665	25,137	21,168	19,404	51
	42,777	30,429	26,681	22,491	20,507	54
**	44,762	31,973	28,004	23,594	21,609	58
209 A2	47,187	33,737	29,547	24,917	22,712	62
	49,392	35,280	30,870	26,019	23,814	65
	51,862	37,044	32,414	27,122	24,917	69
	54,023	38,588	33,737	28,445	26,019	73
	56,448	40,131	35,280	29,547	27,122	76
	58,874	41,895	36,824	30,870	28,224	80
	61,079	43,439	38,147	31,973	29,327	83
	63,063	44,982	39,470	33,075	30,429	87
	65,268	46,526	**40,793**	34,178	31,311	**91**
	35,942	25,578	22,491	18,853	17,309	29
	38,808	27,563	24,255	20,396	18,632	33
	41,675	29,768	26,019	21,830	20,066	36
	44,541	31,752	27,783	23,373	21,389	40
	46,967	33,516	29,327	24,696	22,491	44
	49,833	35,501	31,091	26,019	24,035	47
	52,479	37,485	32,855	27,563	25,358	51
**	55,346	39,470	34,619	29,106	26,681	54
216 A2	57,771	41,234	36,162	30,429	27,783	58
	60,417	42,998	37,706	31,752	29,106	62
	63,504	45,203	39,690	33,296	30,650	65
	66,591	47,408	41,675	35,060	32,193	69
	69,899	49,833	43,659	36,603	33,516	73
	72,986	52,038	45,644	38,367	35,060	76
	76,293	54,243	47,628	39,911	36,603	80
	79,160	56,228	**49,392**	41,454	37,926	**83**

*/** - Index of tire strength

EMR Grader service

Motor Grader

Tire Size	Tread Pattern Type	Rim (Permitted)	New		Loaded Static Radius (inch)	Rolling Circum-ference (inch)	Tread Depth (32nd)	Com-pound
			Overall Diameter (inch)	Section Width (inch)				
14.00 R 24	EMR1020 G2	8.00TG-24 (SDC) 10.00VA-24 (SDC)	54.0	14.8	24.2	161.8	28	CR
	EMR1025 G2	8.00TG-24 (SDC) 10.00VA-24 (SDC)	54.1	14.9	24.3	161.1	30	STD
17.5 R 25	EMR1020+ G2	14.00/1.5-25 (14.00/1.5x25 DC, 14.00/1.3x25 DC)	53.1	17.1	24.0	161.4	33	CR
	EMR1025 G2	14.00/1.5-25 (14.00/1.5x25 DC, 14.00/1.3x25 DC)	53.2	17.6	24.2	158.0	35	STD
	EMR1030+ G3	14.00/1.5-25 (14.00/1.5x25 DC, 14.00/1.3x25 DC)	53.0	17.4	24.0	159.9	34	CR
	EMR1031 G2	14.00/1.5-25 (14.00/1.5x25 DC, 14.00/1.3x25 DC)	53.0	17.4	24.2	158.3	39	CR
20.5 R 25	EMR1020+ G2	17.00/2.0-25 (17.00/1.7-25)	58.7	21.3	25.3	178.4	35	CR
	EMR1025 G2	17.00/2.0-25 (17.00/1.7-25)	58.7	20.9	25.5	174.3	39	STD
	EMR1030+ G3	17.00/2.0-25 (17.00/1.7-25)	58.7	21.1	25.5	177.9	43	CR
	EMR1031 G2	17.00/2.0-25 (17.00/1.7-25)	58.7	21.1	26.6	174.9	45	CR
	EMR1051+ L5	17.00/2.0-25 (17.00/1.7-25)	60.9	20.6	26.8	182.7	88	CR

+NOT MARKED AS GRADER ON THE MOLD
STD= STANDARD
CR= CUT RESISTANT
HT= HIGH TKPH

EMR 1020 EMR 1025 EMR 1030 EMR 1031 EMR 1040 EMR 1051

Service Description LI/SS Grader	Grader Service - Tire Load Capacity (lbs) at Speed (mph)					Tire Pressure (psi)
	6	12	19	25	31	
* 153 A8	5,733	5,733	5,733	5,733	5,237	40
	6,284	6,284	6,284	6,284	5,733	44
	6,891	6,891	6,891	6,891	6,284	47
	7,442	7,442	7,442	7,442	6,780	51
	8,048	8,048	8,048	**8,048**	7,332	**54**
* 153 A8	5,733	5,733	5,733	5,733	5,237	29
	6,339	6,339	6,339	6,339	5,788	33
	6,891	6,891	6,891	6,891	6,284	36
	7,497	7,497	7,497	7,497	6,836	40
	8,048	8,048	8,048	**8,048**	7,332	**44**
* 161 A8	7,662	7,662	7,662	7,662	6,946	29
	8,324	8,324	8,324	8,324	7,552	33
	8,930	8,930	8,930	8,930	8,103	36
	9,592	9,592	9,592	9,592	8,710	40
	10,198	10,198	10,198	**10,198**	9,261	**44**

*/** - Index of tire strength

EMR Grader service

Motor Grader

Tire Size	Tread Pattern Type	Rim (Permitted)	New		Loaded Static Radius (inch)	Rolling Circum-ference (inch)	Tread Depth (32nd)	Com-pound
			Overall Diameter (inch)	Section Width (inch)				
23.5 R 25	EMR1020+ G2	19.50/2.5-25	63.6	24.2	27.2	192.2	40	CR
	EMR1025 G2	19.50/2.5-25	63.4	24.0	28.6	188.2	43	STD
	EMR1030+ G3	19.50/2.5-25	63.6	24.2	27.3	192.6	45	CR
	EMR1031 G3	19.50/2.5-25	63.4	24.2	28.7	190.7	47	CR
	EMR1040+ L4	19.50/2.5-25	65.8	24.2	28.7	197.9	72	CR
	EMR1051+ L5	19.50/2.5-25	65.8	23.6	28.9	197.5	96	CR
750/65 R 25	EMR1030+ G3	24.00/3.0-25 (22.00/3.0-25)	63.4	28.5	27.0	193.7	52	CR

+NOT MARKED AS GRADER ON THE MOLD
STD= STANDARD
CR= CUT RESISTANT
HT= HIGH TKPH

EMR 1020 EMR 1025 EMR 1030 EMR 1031 EMR 1040 EMR 1051

Service Description LI/SS Grader	Grader Service - Tire Load Capacity (lbs) at Speed (mph)					Tire Pressure (psi)
	6	12	19	25	31	
* 170 A8	9,867	9,867	9,867	9,867	8,985	29
	10,749	10,749	10,749	10,749	9,757	33
	11,576	11,576	11,576	11,576	10,529	36
	12,403	12,403	12,403	12,403	11,301	40
	13,230	13,230	13,230	**13,230**	12,017	**44**
* 178 B	9,702	9,702	9,702	9,702	8,820	29
	11,025	11,025	11,025	11,025	10,033	33
	12,348	12,348	12,348	12,348	11,246	36
	13,671	13,671	13,671	13,671	12,458	40
	14,994	14,994	14,994	14,994	13,671	44
	16,538	16,538	16,538	**16,538**	14,994	**47**

*/** - Index of tire strength

EMR Transport service

Articulated & Rigid Dump Truck

Tire Size	Tread Pattern Type	Rim (Permitted)	New		Loaded Static Radius (inch)	Rolling Circum-ference (inch)	Tread Depth (32nd)	Com-pound
			Overall Diameter (inch)	Section Width (inch)				
17.5 R 25	EMR1020 E2	14.00/1.5-25 (14.00/1.5x25 DC, 14.00/1.3x25 DC)	53.2	17.1	24.0	162.0	33	CR
	EMR1030 E3	14.00/1.5-25 (14.00/1.5x25 DC, 14.00/1.3x25 DC)	53.0	17.4	24.0	160.0	34	CR
20.5 R 25	EMR1020 E2	17.00/2.0-25 (17.00/1.7-25)	58.7	21.2	26.0	177.4	35	CR
	EMR1030 E3	17.00/2.0-25 (17.00/1.7-25)	58.7	21.1	26.2	176.8	43	CR
	EMR1031+ E3	17.00/2.0-25 (17.00/1.7-25)	58.7	21.2	26.2	175.8	29	CR
23.5 R 25	EMR1020 E2	19.50/2.5-25	63.5	24.2	28.0	192.0	40	CR
	EMR1030 E3	19.50/2.5-25	63.6	24.2	28.2	191.6	45	CR (162) HT (205)
	EMR1031+ E3	19.50/2.5-25	63.5	24.2	28.2	191.7	47	CR
	EMR1040# E4	19.50/2.5-25	65.8	24.2	29.5	197.2	72	CR
	EMR1042 E4	19.50/2.5-25	63.5	23.9	28.4	191.4	64	CR

\+ NOT MARKED AS TRANSPORT ON THE MOLD
# Not compatible with all Articulated Dumpers, please check with your local Trelleborg representative
STD= STANDARD
CR= CUT RESISTANT
HT= HIGH TKPH

EMR 1020 EMR 1030 EMR 1031 EMR 1040 EMR 1042 EMR 1045

Service Description LI/SS Transport	Transport Service - Tire Load Capacity (lbs) at Speed (mph)					Tire Pressure (psi)
	12	19	25	31	34	
* 157 B	7,607	7,332	7,111	6,891	6,780	36
	8,214	7,883	7,662	7,442	7,277	40
	8,820	8,489	8,214	7,993	7,828	44
	9,426	9,041	8,820	8,544	8,379	47
	10,033	9,647	9,371	**9,096**	8,930	**51**
** 177 B	13,561	13,120	12,679	12,348	12,128	47
	14,443	13,892	13,561	13,120	12,899	51
	15,325	14,774	14,333	13,892	13,561	54
	16,097	15,545	15,103	14,663	14,333	58
	16,979	16,317	15,876	15,435	15,104	62
	17,750	17,089	16,538	**16,097**	15,766	**65**
** 185 B	17,309	16,758	16,207	15,766	15,435	47
	18,302	17,640	17,199	16,648	16,317	51
	19,404	18,743	18,191	17,640	17,309	54
	20,396	19,625	19,073	18,522	18,191	58
	21,499	20,727	20,066	19,514	19,073	62
	22,491	21,609	21,058	**20,396**	19,955	**65**

*/** - Index of tire strength

EMR Transport service

Articulated & Rigid Dump Truck

Tire Size	Tread Pattern Type	Rim (Permitted)	New		Loaded Static Radius (inch)	Rolling Circum-ference (inch)	Tread Depth (32nd)	Com-pound
			Overall Diameter (inch)	Section Width (inch)				
26.5 R 25	EMR1030 E3	22.00/3.0-25	68.8	26.6	30.5	206.9	53	CR (170) HT (215)
	EMR1040# E4	22.00/3.0-25	70.6	26.9	31.5	212.5	77	CR
	EMR1042 E4	22.00/3.0-25	68.8	26.9	30.7	206.4	68	CR
750/65 R 25	EMR1030 E3	24.00/3.0-25 (22.00/3.0-25)	63.4	28.6	27.9	192.2	52	CR (190) HT (240)
29.5 R 25	EMR1030 E3	25.00/3.5-25	73.7	30.1	32.5	221.2	55	CR (260) HT (325)
	EMR1040# E4	25.00/3.5-25	75.6	30.2	33.6	227.1	77	CR
	EMR1042 E4	25.00/3.5-25	73.6	29.2	32.9	221.9	73	CR (170) HT (215)
18.00 R 33	EMR1045 E4	13.00/2.5-33	73.8	19.3	33.8	221.2	66	CR (140) HT (175)

# Not compatible with all Articulated Dumpers, please check with your local Trelleborg representative
STD= STANDARD
CR= CUT RESISTANT
HT= HIGH TKPH

EMR 1020 EMR 1030 EMR 1031 EMR 1040 EMR 1042 EMR 1045

Service Description LI/SS Transport	Transport Service - Tire Load Capacity (lbs) at Speed (mph)					Tire Pressure (psi)
	12	19	25	31	34	
** 193 B	21,830	21,058	20,396	19,845	19,404	47
	23,153	22,271	21,609	20,948	20,507	51
	24,255	23,373	22,712	22,050	21,609	54
	25,578	24,476	23,814	23,153	22,712	58
	26,681	25,799	24,917	24,255	23,814	62
	28,004	26,901	26,019	**25,358**	24,917	**65**
** 190 B	19,404	18,743	18,191	17,640	17,309	44
	20,617	19,845	19,294	18,743	18,412	47
	21,830	21,058	20,396	19,845	19,404	51
	23,042	22,271	21,609	20,948	20,507	54
	24,255	23,373	22,712	22,050	21,609	58
	25,799	24,696	24,035	**23,373**	22,932	**62**
** 200 B	26,681	25,799	24,917	24,255	23,814	47
	28,224	27,122	26,240	25,578	25,137	51
	29,547	28,445	27,783	26,901	26,460	54
	31,091	29,988	29,106	28,224	27,563	58
	32,414	31,311	30,429	29,547	28,886	62
	33,957	32,634	31,752	**30,870**	30,209	**65**
** 191 B	21,830	21,058	20,396	19,845	19,404	73
	22,712	21,830	21,278	20,617	20,176	76
	23,594	22,712	22,050	21,389	20,948	80
	24,255	23,373	22,712	22,050	21,609	83
	24,917	24,035	23,373	22,712	22,271	87
	25,799	24,696	24,035	23,373	22,932	91
	26,460	25,578	24,696	**24,035**	23,594	**94**

*/** - Index of tire strength

MPX TB Telehandler / Compact wheel loader

Telehandler/Compact Wheel Loader

Tire Size	Tread Pattern Type	Rim (Permitted)	New		Loaded Static Radius (inch)	Rolling Circum-ference (inch)	Tread Depth (32nd)
			Overall Diameter (inch)	Section Width (inch)			
400/70-20 IND (REPLACES 405/70-20 16/70-20)	MPX TB TL	3 x 20 (13 x 20SDC)	42.6	16.1	19.4	129.8	37
400/70-24 IND (REPLACES 405/70-24 16/70-24)	MPX TB TL	13 x 24 (13 x 24SDC)	46.3	16.2	21.2	139.9	37
400/80-24 IND (15.5/80-24)	MPX TB TL	DW13 x 24 (DW14L x 24) (DW13L x 24)	49.4	16.2	22.5	150.7	38
460/70-24 IND (17.5L-24)	MPX TB TL	DW15L x 24 (DW14L x 24) (DW16L x 24)	49.5	17.9	22.2	150.2	38
500/70-24 IND (19.5L-24)	MPX TB TL	DW16L x 24 (DW15Lx24) (W15Lx24) (W16Lx24)	51.7	19.8	23.0	155.1	38

MPX TB

Service Description LI/SS	Tire Load Capacity (lbs) at Speed (mph)							Tire Pressure (psi)
	Static	6	6 Cyclic	12	19	25	31	
155 A8/155 B	13,373	7,265	8,721	6,339	6,043	5,810	5,810	46
	14,355	7,795	9,360	6,802	6,483	6,240	6,240	51
	16,119	8,765	10,518	7,639	7,287	7,012	7,012	58
	17,894	9,724	11,664	8,478	8,081	7,773	7,773	65
	19,658	10,683	12,822	9,316	8,886	**8,544**	**8,544**	**73**
158 A8/158 B	14,652	7,971	9,559	6,946	6,626	6,372	6,372	46
	15,733	8,555	10,264	7,464	7,111	6,847	6,847	51
	17,673	9,614	11,532	8,379	7,993	7,684	7,684	58
	19,614	10,661	12,789	9,305	8,864	8,533	8,533	65
	21,554	11,720	14,057	10,220	9,746	**9,371**	**9,371**	**73**
162 A8	16,383	8,908	10,683	7,762	7,409	7,122	6,483	46
	17,585	9,559	11,466	8,335	7,949	7,651	6,957	51
	19,757	10,738	12,888	9,371	8,930	8,588	7,817	58
	21,918	11,919	14,299	10,397	9,912	9,537	8,677	65
	24,090	13,098	15,711	11,422	10,893	**10,474**	9,537	**73**
159 A8	14,421	7,839	9,404	6,836	6,527	6,273	5,700	35
	16,427	8,930	10,716	7,783	7,420	7,144	6,494	41
	18,423	10,011	12,017	8,732	8,324	8,004	7,288	46
	19,757	10,738	12,888	9,361	8,929	8,588	7,806	51
	22,193	12,061	14,476	10,518	10,033	**9,647**	8,776	**58**
164 A8	16,482	8,963	10,749	7,817	7,453	7,166	6,527	35
	18,765	10,198	12,238	8,897	8,489	8,159	7,420	41
	21,047	11,444	13,726	9,978	9,515	9,151	8,324	46
	22,568	12,271	14,718	10,694	10,209	9,812	8,929	51
	25,358	13,781	16,538	12,017	11,466	**11,025**	10,033	**58**

T440 T480 Wheel excavator

Wheel Excavator

Tire Size	Tread Pattern Type	Rim (Permitted)	New		Loaded Static Radius (inch)	Rolling Circum-ference (inch)	Tread Depth (32nd)
			Overall Diameter (inch)	Section Width (inch)			
650/45-22.5	T440 EXC TL	AG22.00 AG24.00	45.7	25.6			58
600/50-22.5	T480 EXC TL	AG20.00	46.5	24.4			44
710/40-22.5	T480 EXC TL	AG24.00	46.1	28.0			44

T440 T480

Service Description LI/SS Loader	Loader Service - Tire Load Capacity (lbs) at Speed (mph)				Tire Pressure (psi)
	Static	6	25	31	
175 A8	11,973	6,670	5,204	4,675	23
	13,836	7,629	6,009	5,435	29
	15,600	8,544	6,780	6,174	35
	17,122	9,338	7,442	6,791	39
	18,643	10,132	8,103	7,409	44
	19,647	10,661	8,544	7,828	46
	21,300	11,521	9,261	8,412	51
	22,976	12,392	9,989	8,985	55
	24,090	12,976	10,474	9,371	58
	25,148	13,539	10,937	9,823	61
	26,747	14,366	11,631	10,518	65
	27,816	14,917	12,094	10,981	68
	29,415	15,755	12,789	11,687	73
	30,517	16,339	13,274	12,061	75
	31,631	16,912	13,759	12,447	78
	32,755	17,497	14,244	12,822	81
	33,869	18,081	14,729	13,186	84
	34,993	18,676	15,215	13,561	**87**
173 A8	11,356	6,328	4,939	4,542	23
	13,307	7,343	5,788	5,292	29
	15,215	8,335	6,615	6,009	35
	16,659	9,085	7,243	6,604	39
	18,081	9,823	7,861	7,210	44
	19,018	10,319	8,269	7,607	46
	20,661	11,179	8,985	8,170	51
	22,337	12,050	9,713	8,732	55
	23,461	12,635	10,198	9,096	58
	24,453	13,153	10,628	9,537	61
	25,931	13,925	11,279	10,209	65
	26,923	14,443	11,709	10,672	68
	28,400	15,215	12,348	11,356	73
	29,327	15,700	12,756	11,731	75
	30,242	16,174	13,153	12,105	78
	31,157	16,648	13,550	12,480	81
	32,061	17,122	13,936	12,855	84
	32,965	17,585	14,333	13,230	**87**
176 A8	12,326	6,869	5,358	4,807	23
	14,200	7,839	6,174	5,612	29
	15,975	8,754	6,946	6,395	35
	17,585	9,592	7,651	7,012	39
	19,206	10,441	8,346	7,640	44
	20,286	11,003	8,820	8,048	46
	21,940	11,874	9,537	8,743	51
	23,616	12,734	10,264	9,448	55
	24,729	13,318	10,749	9,923	58
	25,854	13,914	11,246	10,341	61
	27,563	14,807	11,984	10,970	65
	28,709	15,402	12,480	11,389	68
	30,429	16,306	13,230	12,017	73
	31,543	16,879	13,715	12,480	75
	32,656	17,464	14,200	12,932	78
	33,770	18,048	14,685	13,395	81
	34,894	18,632	15,170	13,869	84
	36,008	19,217	15,656	14,333	**87**

Brawler HPS loader

Wheel Loader

HPS Solidflex Traction | HPS Solidflex Smooth | HPS Smooth

HPS SOLIDFLEX TRACTION

Tire Size	Alternative Size	Rim Size	Overall Diameter [inch]	Section Width [inch]	Tread Depth [32nd]	Load Capacity 6 mph [lbs]
17.5-25 *	445/80-25	14.0-25	52.8	17.6	195	19,410
20.5-25 *	525/80-25	17.0-25	58.9	20.7	237	26,795
23.5-25 *	605/80-25	19.5-25	64.2	23.9	272	33,775
26.5-25 *	685/80-25	22.0-25	67.5	28.3	298	40,335
29.5-25 *		25.0-25	72.6	30.0	333	49,690

HPS SOLIDFLEX SMOOTH

Tire Size	Alternative Size	Rim Size	Overall Diameter [inch]	Section Width [inch]	Tread Depth [32nd]	Load Capacity 6 mph [lbs]
17.5-25 *	445/80-25	14.0-25	52.8	17.6	195	19,410
20.5-25 *	525/80-25	17.0-25	58.9	20.7	237	26,795
23.5-25 *	605/80-25	19.5-25	64.2	23.9	272	33,775
26.5-25 *	685/80-25	22.0-25	67.5	28.3	298	40,335
29.5-25 *		25.0-25	72.7	30.0	333	49,690
18.00-33		13.0-33	72.0	18.0	216	26,455

HPS SMOOTH

Tire Size	Alternative Size	Rim Size	Overall Diameter [inch]	Section Width [inch]	Tread Depth [32nd]	Load Capacity 6 mph [lbs]
20.5-25	525/80-25	17.0-25	58.9	20.8	237	35,545
23.5-25	605/80-25	19.5-25	64.2	23.9	272	45,037
26.5-25	685/80-25	22.0-25	67.6	28.3	298	53,780
29.5-25		25.0-25	72.7	30.0	333	66,260

Brawler HD loader

Wheel Loader

HD Solidflex Smooth

HD Smooth

HD SOLIDFLEX SMOOTH

Tire Size	Pneumatic Equivalent Size	Overall Diameter [inch]	Section Width [inch]	Rubber Thickness [inch]	Tread Depth [32nd]	Load Capacity 6 mph [lbs]
55x10x18	17.5-25	55.0	18.0	10.0	160	22,072
59x12x20.5	20.5-25	59.1	20.5	11.5	208	26,096
62x13x21	20.5-25	62.1	21.0	13.0	241	27,728
66x16x24	23.5-25	66.0	24.0	16.0	320	32,336
69x17x28	26.5-25	69.1	28.0	17.0	352	39,183
73x18x31	29.5-25	73.1	31.0	17.7	385	44,894
80x18x35	35/65-33	80.0	35.0	18.0	385	58,543

HD SMOOTH

Tire Size	Pneumatic Equivalent Size	Overall Diameter [inch]	Section Width [inch]	Rubber Thickness [inch]	Tread Depth [32nd]	Load Capacity 6 mph [lbs]
55x10x18	17.5-25	55.0	18.0	10.0	160	29,426
59x12x20.5	20.5-25	59.1	20.5	11.5	208	34,795
62x13x21	20.5-25	62.1	21.0	13.0	241	36,967
66x16x24	23.5-25	66.0	24.0	16.0	320	43,119
69x17x28	26.5-25	69.1	28.0	17.0	352	52,247
73x18x31	29.5-25	73.1	31.0	17.7	385	59,866
80x18x35	35/65-33	80.0	35.0	18.0	385	78,057

Brawler HPS Skid Steer

Press On Skid Steer

HPS Solidflex Traction | HPS Solidflex Smooth | HPS Smooth

HPS SOLIDFLEX TRACTION

Tire Size	Pneumatic Equivalent Size	Rim Size	Overall Diameter [inch]	Section Width [inch]	Tread Depth [32nd]	Load Capacity 6 mph [lbs]
30x10-16	10-16.5	6.00-16	29.9	9.3	55	6,615
31x10-20	10-16.5	7.5-20	30.9	10.0	52	6,207
33x12-20	12-16.5	7.5-20	33.1	11.2	71	6,549
36x14-20	14-17.5	7.5-20	36.1	14.0	90	7,299
40x14-20	15-19.5	10.0-20	40.0	14.0	119	10,926

HPS SOLIDFLEX SMOOTH

Tire Size	Pneumatic Equivalent Size	Rim Size	Overall Diameter [inch]	Section Width [inch]	Tread Depth [32nd]	Load Capacity 6 mph [lbs]
31x10-20	10-16.5	7.5-20	30.9	10.0	52	6,207
33x12-20	12-16.5	7.5-20	33.1	11.2	71	6,549
36x14-20	14-17.5	7.5-20	36.1	14.0	90	7,299
40x14-20	15-19.5	10.0-20	40.0	14.0	119	10,926

HPS SMOOTH

Tire Size	Pneumatic Equivalent Size	Rim Size	Overall Diameter [inch]	Section Width [inch]	Tread Depth [32nd]	Load Capacity 6 mph [lbs]
31x10-20	10-16.5	7.5-20	30.9	10.0	52	8,280
33x12-20	12-16.5	7.5-20	33.1	11.2	71	8,732
36x14-20	14-17.5	7.5-20	36.1	14.0	90	9,735
40x14-20	15-19.5	10.0-20	40.0	14.0	119	14,564

Brawler HD Skid Steer

Mold On Skid Steer

HD Solidflex Traction | HD Solidflex Smooth | HD Traction | HD Smooth

HD SOLIDFLEX TRACTION

Tire Size	Pneumatic Equivalent Size	Overall Diameter [inch]	Section Width [inch]	Rubber Thickness [inch]	Tread Depth [32nd]	Load Capacity 6 mph [lbs]
31x6x10	10-16.5	30.9	10.0	6.2	61	6,615
33x6x11	12-16.5	33.1	11.0	6.1	77	7,938
36x7x11	14-17.5	36.1	11.0	6.6	90	8,566

HD SOLIDFLEX SMOOTH

Tire Size	Pneumatic Equivalent Size	Overall Diameter [inch]	Section Width [inch]	Rubber Thickness [inch]	Tread Depth [32nd]	Load Capacity 6 mph [lbs]
31x5x9	10-16.5	30.9	9.0	5.2	61	5,931
33x6x8	8.00-16	33.1	8.0	6.1	77	5,513
33x6x10	12-16.5	33.1	10.0	6.1	77	7,365

HD TRACTION

Tire Size	Pneumatic Equivalent Size	Overall Diameter [inch]	Section Width [inch]	Rubber Thickness [inch]	Tread Depth [32nd]	Load Capacity 6 mph [lbs]
31x5x7	7.50-16	30.9	7.0	5.2	48	5,424
31x5x9	10-16.5	30.9	9.0	5.2	48	7,254
33x6x8	8.00-16	33.1	8.0	6.1	58	6,339
33x6x10	12-16.5	33.1	10.0	6.1	58	8,170

HD SMOOTH

Tire Size	Pneumatic Equivalent Size	Overall Diameter [inch]	Section Width [inch]	Rubber Thickness [inch]	Tread Depth [32nd]	Load Capacity 6 mph [lbs]
31x5x7	7.50-16	30.9	7.0	5.2	61	5,424
31x5x9	10-16.5	30.9	9.0	5.2	61	7,254
33x6x8	8.00-16	33.1	8.0	6.1	77	6,339
33x6x10	12-16.5	33.1	10.0	6.1	77	8,170
36x7x11	14-17.5	36.1	11.0	6.7	148	9,380

SOLID TIRES

SKS-900 Skid Steer

Skid Steer

SKS-900 (R4) SKS-900 Smooth

Tire Size	Pneumatic Equivalent Size	Rim Size	Pattern	Overall Diameter [inch]	Section Width [inch]	Load Capacity 6 mph [lbs]
31x10-20	10-16.5	7.5-20	R4	30.5	9.3	8,280
31x10-20	10-16.5	7.5-20	Smooth	30.5	9.3	8,732
33x12-20	12-16.5	7.5-20	R4	32.6	11.3	9,735
33x12-20	12-16.5	7.5-20	Smooth	32.6	11.3	14,564

SOLID TIRES

Brawler HPS Telehandler

Telehandler

HPS Solidflex Traction

Tire Size	Pneumatic Equivalent Size	Rim Size	Overall Diameter [inch]	Section Width [inch]	Tread Depth [32nd]	Load Capacity 6 mph [lbs]
43x15-24*	405/70-20	10.0-24	42.9	15.0	103	12,348
47x17-24*	405/70-24	10.0-24	46.9	16.9	126	13,892
13.00-24*		8.5-24	51.0	13.0	129	13,087
14.00-24*	385/95-24 †	8.5-24	53.0	14.0	141	14,785

† Alternative metric size
* Also available as standard version

SOLID TIRES

Brawler HD Boom lift

Boom Lift

HD Solidflex Traction

Tire Size	Pneumatic Equivalent Size	Overall Diameter [inch]	Section Width [inch]	Rubber Thickness [inch]	Tread Depth [32nd]	Load Capacity 6 mph [lbs]
43x6x14.5	385/65D22.5	43.0	14.5	5.8	66	14,696
46x6x18	445/65D22.5	46.5	17.8	6.0	66	20,032
39x6x15	39x15-22.5	39.0	15.0	5.8	57	13,759

SOLID TIRES

Excavator

Wheel Excavator

Excavator Excavator XL

EXCAVATOR

Tire Size	Rim Size	Overall Diameter [inch]	Section Width [inch]	Static Load (lbs)	Load Capacity 6 mph [lbs]
10.00-20	7.0/7.5/8.0-20	39.6	9.5	16,648	12,017
12.00-20	8.0/8.5-20	43.0	10.1	20,981	15,137

* Available as duals

SOLID TIRES

Brawler HD Excavator super single

Wheel Excavator

Smooth

Tire Size	Equivalent dual	Overall Diameter [inch]	Section Width [inch]	Static Load (lbs)	Load Capacity 6 mph [lbs]
42x10x22*	10.00-20 dual	42.0	22.0	31,079	23,602
45x10x24*	12.00-20 dua	45.0	24.0	60,638	37,816
48x10x27*	12.00-24 dual	48.0	27.1	71,155	44,453
52x10x31*	14.00-24 dual	52.0	31.0	89,291	55,809

* Also available in traction

CRT-800 Mini excavator

Mini excavator

Track Size	Guide Type			Track Width [mm]	Number of Links	Pitch Length [mm]	Weight [lbs]
	Narrow	Standard	Wide				
180x30x60		•		180	30	60	33.73
180x31x72		•		180	31	72	40.34
180x32x72		•		180	32	72	41.67
180x34x60		•		180	34	60	38.14
180x34x72		•		180	34	72	44.31
180x35x72		•		180	35	72	45.64
180x36x60		•		180	36	60	38.14
180x36x72		•		180	36	72	46.74
180x37x60		•		180	37	60	39.24
180x37x72		•		180	37	72	48.06
180x39x72		•		180	39	72	50.71
180x40x60		•		180	40	60	42.33
180x41x72		•		180	41	72	78.04
180x42x72		•		180	42	72	60.19
200x37x72		•		200	37	72	69.45
200x39x72		•		200	39	72	80.03
200x40x72		•		200	40	72	82.01
200x41x72		•		200	41	72	84.00
200x42x72		•		200	42	72	86.20
230x36x72		•		230	36	72	88.18
230x39x72		•		230	39	72	95.46
230x41x72		•		230	41	72	100.31
230x42x72		•		230	42	72	102.74
230x43x72		•		230	43	72	105.16
230x44x72		•		230	44	72	107.59
230x45x72		•		230	45	72	110.23
230x47x72		•		230	47	72	115.08
230x48x72		•		230	48	72	117.51
230x50x72		•		230	50	72	122.36
230x52x72		•		230	52	72	127.21
230x54x72		•		230	54	72	132.06
230x56x72		•		230	56	72	137.13
230x60x48		•		230	60	48	121.70
230x62x48		•		230	62	48	125.66
230x64x48		•		230	64	48	129.85
230x66x48		•		230	66	48	133.82
230x68x48		•		230	68	48	138.01
230x70x48		•		230	70	48	141.98
230x72x48		•		230	72	48	145.95
230x76x48		•		230	76	48	154.10

CRT-800 Mini excavator

Track Size	Guide Type			Track Width [mm]	Number of Links	Pitch Length [mm]	Weight [lbs]
	Narrow	Standard	Wide				
230x80x48		•		230	80	48	162.26
230x82x48		•		230	82	48	166.23
250x39x72		•		250	39	72	111.77
250x43x72		•		250	43	72	119.49
250x45x72		•		250	45	72	128.97
250x47x72		•		250	47	72	130.51
250x48x72		•		250	48	72	137.57
250x52x72		•		250	52	72	184.09
250x54x72		•		250	54	72	154.76
250x56x72		•		250	56	72	160.50
280x56x72		•		280	56	72	181.44
300x70x52.5	•			300	70	52.5	248.46
300x72x52.5	•		•	300	72	52.5	255.52
300x74x52.5	•		•	300	74	52.5	262.57
300x76x52.5	•		•	300	76	52.5	269.85
300x76x55.5		•		300	76	55.5	301.59
300x78x52.5	•		•	300	78	52.5	276.90
300x78x55.5		•		300	78	55.5	309.53
300x80x52.5	•		•	300	80	52.5	283.96
300x82x52.5	•		•	300	82	52.5	291.01
300x82x55.5		•		300	82	55.5	325.40
300x84x52.5	•		•	300	84	52.5	298.06
300x86x52.5	•		•	300	86	52.5	305.34
300x88x52.5	•		•	300	88	52.5	312.39
300x90x52.5	•		•	300	90	52.5	319.45
300x92x52.5	•		•	300	92	52.5	326.50
300x98x52.5	•			300	98	52.5	347.89
320x38x100		•		320	38	100	226.19
320x40x100		•		320	40	100	238.10
350x53x100		•		350	53	100	459.22
350x84x56		•		350	84	56	442.69
350x86x52.5		•		350	86	52.5	369.71
350x86x54.5		•		350	86	54.5	460.77
400x70x72.5	•		•	400	70	72.5	561.74
400x72x72.5	•		•	400	72	72.5	577.83
400x74x72.5	•		•	400	74	72.5	593.92
400x74x75.5		•		400	74	75.5	690.05
400x76x72.5	•		•	400	76	72.5	614.87
400x82x72.5		•		400	82	72.5	712.31
420x54x100		•		420	54	100	639.34

CRT-800 Compact track loader

Compact track loader

CRT-800 Compact track loader

Tire Size	Guide Type		Track Width [mm]	Number of Links	Pitch Length [mm]	Weight [lbs]
	Standard	Wide				
450x72Kx83.5	•		450	72	83,5	385
450x72x71	•		450	72	71	335
450x72x81		•	450	72	81	353
450x74Kx83.5 *			450	74	83,5	385
450x74x81		•	450	74	81	363
450x74x81.5	•		450	74	81,5	369
450x74Yx83.5	•		450	74	83,5	406
450x76x81		•	450	76	81	372
450x76x81.5	•		450	76	81,5	379
450x78x81		•	450	78	81	382
450x80x71	•		450	80	71	372
450x82x71	•		450	82	71	381
450x84x71	•		450	84	71	391
450x86x71	•		450	86	71	400
450x88x71	•		450	88	71	409
500x78Nx92	•		500	78	92	454
500x78x90	•		500	78	90	454
500x82x90	•		500	82	90	477
500x82x92	•		500	82	92	699
500x84x92	•		500	84	92	716
600x76x100	•		600	76	100	676
600x80x100	•		600	80	100	712
600x82x100	•		600	82	100	730
700x80x100	•		700	80	100	914
700x98x100	•		700	98	100	1120
750x66x150	•		750	66	150	1350
800x80x125	•		800	80	125	1584

CRT-800 Compact track loader

Compact track loader

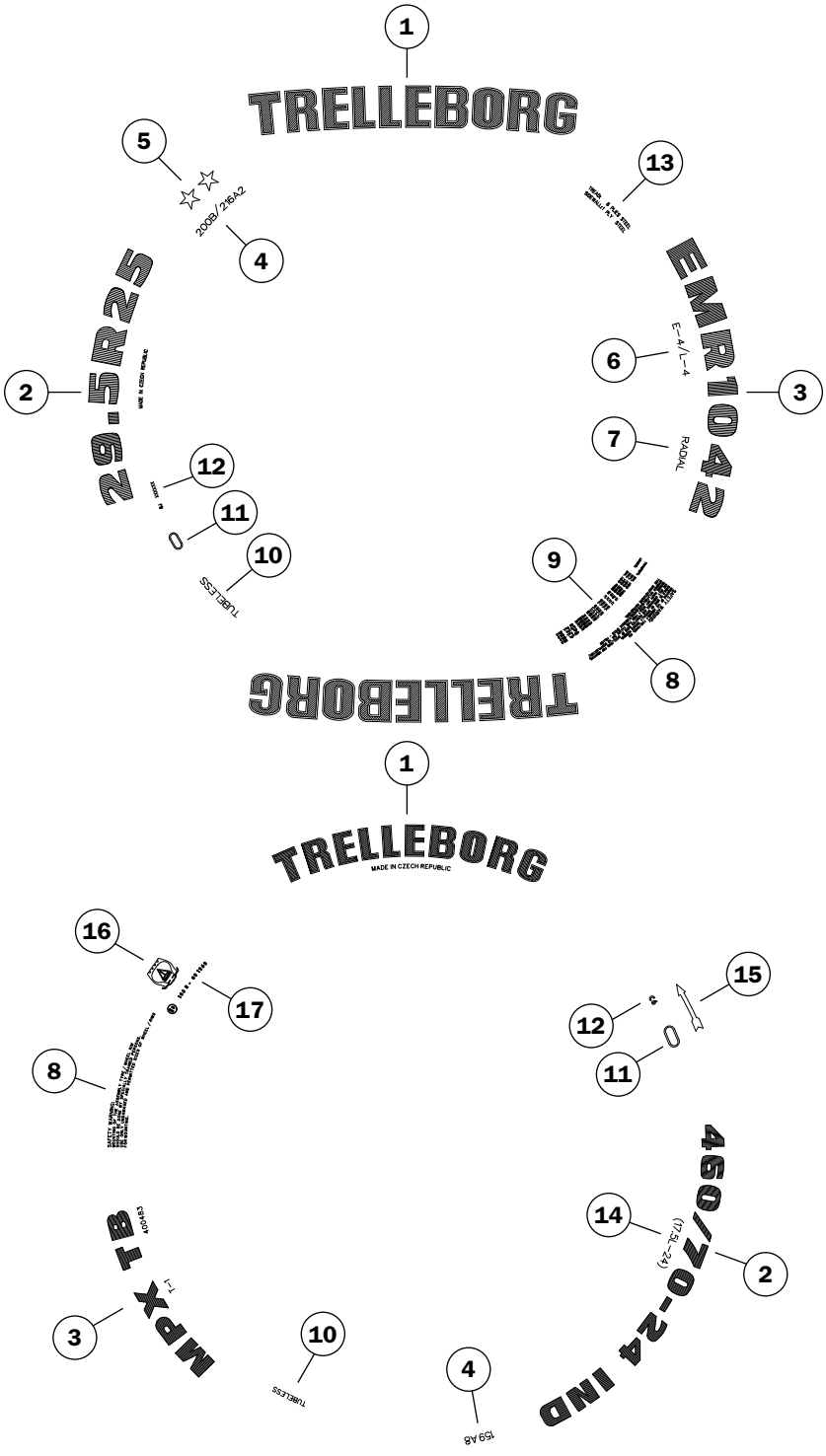
CRT-800 C-Lug CRT-800 All-Season

Track Size	Guide Type		Track Width [mm]	Number of Links	Pitch Length [mm]	Weight [lbs]
	C-Lug	All-Season				
320x45x86 BC	•	•	320	45	86	144
320x46x86 TK	•	•	320	46	86	146
320x47x86 BC	•	•	320	47	86	158
320x48x86 TK	•	•	320	48	86	152
320x49x86 BC	•	•	320	49	86	164
320x50x86 BC	•	•	320	50	86	168
320x52x86 BC	•	•	320	52	86	174
320x52x86 TK	•	•	320	52	86	174
320x53x86 BC	•	•	320	53	86	170
320x54x86 BC	•	•	320	54	86	181
320x56x86 BC	•	•	320	56	86	178
400x49x86 BC	•		400	49	86	182
400x50x86 BC	•		400	50	86	186
400x52x86 BC	•	•	400	52	86	193
400x53x86 BC	•		400	53	86	197
400x54x86 BC	•		400	54	86	225
400x55x86 BC	•	•	400	55	86	205
400x56x86 BC	•	•	400	56	86	208
400x58x86 BC	•	•	400	58	86	216
450x48x100 TK	•		450	48	100	244
450x50x100 TK	•		450	50	100	254
450x52x86 BC	•	•	450	52	86	235
450x55x86 BC	•	•	450	55	86	248
450x56x86 BC	•	•	450	56	86	253
450x57x86 BC	•	•	450	57	86	257
450x58x86 BC	•	•	450	58	86	262
450x59x86 BC	•	•	450	59	86	266
450x60x86 BC	•	•	450	60	86	271

N.B. Additional sizes available on request

Sidewall Marking Definition

1. Brand name
2. Tire size marking
3. Tread pattern code
4. Service description (Load Index + Speed Symbol)
5. Index of tire strength
6. Codes for service and tread types
7. Construction code (Radial)
8. Safety warning text
9. Load and inflation pressure description
10. Tubeless tire
11. DOT: date code
12. DOT: plant code
13. Number and type of plies on tread and sidewall
14. 2nd tire size marking
15. Direction of rotation
16. Safety warning pictogram
17. ECE approval mark and number


1
TRELLEBORG
5
200B/216A2
4
13
2
29.5R25
6
E-4/L-4
3
EMR 1042
7
RADIAL
12
11
10
TUBELESS
9
8
TRELLEBORG
1
TRELLEBORG
MADE IN CZECH REPUBLIC
16
17
8
12
15
11
460/70-24 IND
14
(17.5L-24)
2
MPX TB
3
10
TUBELESS
4
159 A8

Speed Symbols and Conversion Tables

Speed Category

Speed Symbol	A1	A2	A3	A4	A5	A6	A7	A8	B	D	E	F	G	J	K
Speed (mph)	3	6	9	12	16	19	22	25	31	40	44	50	56	62	68

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 millimeter (mm) = 0,03937"
1 inch (") = 25.4 mm = 0,0254 m
1 meter (m) = 3,281 ft
1 foot (ft) = 0,3048 m
1 kilometer (km) = 0,6214 mile
1 mile = 1,609 m = 1,609 km

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

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

Pressure
1 p.s.i. (lb/in2) = 6.895 kPa
1 kg/cm2 = 98.066 kPa
1 bar = 100 kPa

Load Index

LI	lbs	LI	lbs	LI	lbs	LI	lbs
80	992	117	2,833	154	8,269	191	24,035
81	1,019	118	2,911	155	8,544	192	24,696
82	1,047	119	2,999	156	8,820	193	25,358
83	1,074	120	3,087	157	9,096	194	26,019
84	1,103	121	3,197	158	9,371	195	26,791
85	1,136	122	3,308	159	9,647	196	27,563
86	1,169	123	3,418	160	9,923	197	28,334
87	1,202	124	3,528	161	10,198	198	29,106
88	1,235	125	3,638	162	10,474	199	29,988
89	1,279	126	3,749	163	10,749	200	30,870
90	1,323	127	3,859	164	11,025	201	31,973
91	1,356	128	3,969	165	11,356	202	33,075
92	1,389	129	4,079	166	11,687	203	34,178
93	1,433	130	4,190	167	12,017	204	35,280
94	1,477	131	4,300	168	12,348	205	36,383
95	1,521	132	4,410	169	12,789	206	37,485
96	1,566	133	4,542	170	13,230	207	38,588
97	1,610	134	4,675	171	13,561	208	39,690
98	1,654	135	4,807	172	13,892	209	40,793
99	1,709	136	4,939	173	14,333	210	41,895
100	1,764	137	5,072	174	14,774	211	42,998
101	1,819	138	5,204	175	15,215	212	44,100
102	1,874	139	5,358	176	15,656	213	45,423
103	1,929	140	5,513	177	16,097	214	46,746
104	1,985	141	5,678	178	16,538	215	48,069
105	2,040	142	5,843	179	17,089	216	49,392
106	2,095	143	6,009	180	17,640	217	50,715
107	2,150	144	6,174	181	18,191	218	52,038
108	2,205	145	6,395	182	18,743	219	53,582
109	2,271	146	6,615	183	19,294	220	55,125
110	2,337	147	6,780	184	19,845	221	56,779
111	2,403	148	6,946	185	20,396	222	58,433
112	2,470	149	7,166	186	20,948	223	60,086
113	2,536	150	7,387	187	21,499	224	61,740
114	2,602	151	7,607	188	22,050	225	63,945
115	2,679	152	7,828	189	22,712	226	66,150
116	2,756	153	8,048	190	23,373	227	67,804

Storage

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

Tire Repairs

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

Proper Use of Tires

- When loading tires you have to consider the correlation between speed, inflation pressure and load capacity.
- Overloading results in premature tire 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 tire stiff and decreases its resistance against hits, leading to ply tear.

Check inflation pressure regularly

Avoid contact with grease, oil and other chemicals

Inspect tires for damage and irregularities

Observe tire and vehicle load limits

Read safety and maintenance recommendations

Use only authorized 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 tire on the rim, and cause the tire to burst with explosive force leading to serious physical injury or death.

Fitting

1. Make sure that the rim, the tire and the tube are compatible.
2. Check that the tire is suitable for the machine. Use only rims recommended or permitted by the tire manufacturer.
3. Always use the proper specialized 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 tire 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 tire in order to identify any damage that may be present. If the damage is considered to be beyond repair, the tire should be scrapped.
6. If fitting with a tube, always use the correct new tube and flap for the tire size. For fitting tubeless tires 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 tire (never use silicone or petroleum-based products). Lubricants must be approved for use in OTR applications. Always follow the guidelines of the manufacturer.
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 tire 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 tire. 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 centering of the tire, remove the valve core. Slowly inflate to ensure correct seating of the beads. Ensure that the beads do not pinch the tube.
11. During tire inflation keep at a safe distance and always use a safety cage. If possible, fasten the tire 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 tire bead seat by hitting it.
12. Continue inflation. Make sure that you do not inflate beyond 36.25 psi if the beads are not well seated and centered 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.

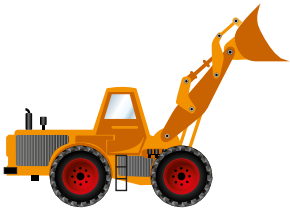
Removing

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

Earthmover Tires

“L” Series Type Tires

“L“ series type tires are used on all size loaders and dozers in off-road applications. Most loader type tires, because of their extremely heavy construction, are limited to very low speeds and very short haul distances, 6 mph and 820 ft maximum.



Wheeled Loader

Loader Service:

Closed working cycle
Low speed – up to 6 mph
Short distance – up to 820 ft

Load and Carry Service:

Picks up and transports material
Low speed – up to 16 mph
Short distance – cycle length up to 2,000 ft

Wheeled Digger

Dozer Service:

Pushes or grades material
Low speed – up to 6 mph
Travel distance varies

“L” series tires 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 Trelleborg “L” Series Tires

EMR 1020

EMR 1030

EMR 1040

EMR 1050

The letter designation and number code is found on the sidewalls of tires.
The L-2 traction design tire 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 tire life.
The L-5 extra Rock deep tread offers high resistance to cutting.

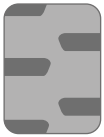
These illustrations show different lug to void ratios.

Traction
Type L-2 Design

Rock Type
L-3 Design

Rock Deep
Type L-4 Design

Extra Rock Deep
Type L-5 Design



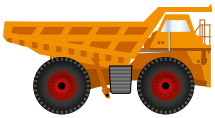
Trelleborg has also developed comparison ratings for “L” series type tires.
Note: The numbers are relative ratings with the L-3 tire rated at 100.
For example, the L-2 tire has 20% better traction than the L-3.
Certain tire construction features and applications can affect these ratings.

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

“L” Series Tires				
	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 Tires

The “E” series type tires are referred to as haulage tires in off-road earthmoving applications. These tires transport material over uneven surfaces at speeds under 40 mph and short distances, up to 25 miles one way. The machine returns unloaded to the loading point.



Rigid Dump Truck

Articulated Dump Truck

Scraper

Transport service:

Transport of material
Speed up to 40 mph
Distance up to 25 miles (length of working cycle)

Earthmover Tires (continued)

"E" series tires 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 Trelleborg "E" Series Tires

EMR 1020

EMR 1030

EMR 1042

Determining Inflation Pressures for Loaders

1. By weighing the machine axle

- Determine the maximum load on each tire by weighing the machine axle, this is the only way of setting tire 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 tires are most heavily laden.

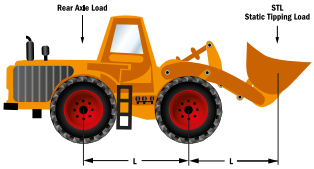
- Determine the maximum load/tire on the front and rear axles

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):

Tire equipment: 23.5R25 201A2 EMR1030 TL

Unladen weights: Front: 22,050 lbs (1)
Rear: 23,590 lbs (2)
Total: 45,640 lbs (3)

Straight line tipping load: 30,420 lbs (4)

Maximum axle load – Front (static*)
(3) + (4) = 76,060 lbs or 38,030 lbs per tire

Maximum axle load – Rear
(2) = 23,590 lbs or 11,795 lbs per tire

Base pressures as per table “Variation in load capacity with speed”
Front = 58 psi (* increase for static load from 6 mph is 60%, 38,030 / 1.6=23,770 lbs)
Rear = 36 psi (calculated with a margin of safety for speed 16 mph)

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 tire 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 tires to the maximum value permitted by the table “Variation in load capacity with speed” for loaders
- Maximum vehicle speed 22 mph
- Cooling stop 30 minutes after each 30 miles transit
- Transit to a distance longer than 60 miles 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 tires are warm.

Determining Inflation Pressures for Dozers

Depending on the type of work, tires 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 while 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 to determine the load on each tire
- 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 tires.

Ton–Kilometer–Per Hour (TKPH) Values

TKPH value is an indicator of the tire's transport capacity and provides a means of achieving optimum performance from Earthmover Radial tires. To choose the optimum tire for the job the TKPH value for the tire and TKPH value for the operation should be compared, for Trelleborg tire TKPH please contact Yokohama TWS offices.

1. Finding the tire's TKPH value

Tire TKPH is determined by using the procedure described in SAE J1015 July2 012.

2. Finding the TKPH value of the application

TKPH Formula: $\mathbf{Q_{avg}}$ x $\mathbf{V_{avg}}$

Multiply the average tire load times the average speed per hour to determine

Average Load = $\mathbf{Q_{avg}} = (\mathbf{Q_{Loaded}}+\mathbf{Q_{empty}})/\mathbf{2}$

Average Speed = $\mathbf{V_{avg}} = (\mathbf{n} \times \mathbf{L})/\mathbf{h}$

n = number of cycles per working day

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

h = number of working hours per day

TKPH **Basic** Application = $\mathbf{Q_{avg}}$ x $\mathbf{V_{avg}}$

$\mathbf{Q_{Loaded}}$ = tire loading when the vehicle is loaded
$\mathbf{Q_{empty}}$ = tire loading when the vehicle is empty

To obtain the **Real Application TKPH**, two more factors must be taken into account:

- the length of cycles exceeding 5 kilometres
- the ambient temperature

If the cycle is longer than 5 km/m TKPH Basic Application has to be correct with **K2=0.88**

If MAX environmental temperature is different from 38°C.

TKPH Basic Application must be adjusted with following parameter

Te<38°C **K1 = 1+[(38-Te)/100]**

Te>38°C **K1 = 1-[(Te-38)/100]**

TKPH **Real application** = $(\mathbf{Q_{avg}}*\mathbf{V_{avg}})/(\mathbf{K1}*\mathbf{K2})$

3. TKPH-comparison

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

$\mathbf{TKPH_{tire}} \geq \mathbf{TKPH_{in\ operation}}$
tire is suitable for Real Application

$\mathbf{TKPH_{tire}} \leq \mathbf{TKPH_{in\ operation}}$
speed or load of machine during operation has to be reduced so to reach a TKPH of application lower than TKPH of tire

4. Convert TKPH in TMPH

To find TMPH (tons-mile per hour), the value TKPH should be multiplied by factor 0.685:

TMPH = TKPH × 0.685

Sample of rim marking

DW 18L x 38 19.50/2.5-25	**Meaning**
DW	Rim contour
18 or 19.50	Nominal rim width in inches
L or /2.5	Flange height code
x	One-piece rim
38 or 25	Nominal rim diameter in inches

Further samples of marking

W	Wide Drop Center – Single well shape rim
DW	Wide Drop Center – Double well shape rim
SDC	Semi-drop Center rim
-	Multipiece rim
x	One-piece rim
H2	Double hump
DC	Drop center rim

Terms and shortcuts used in this Manual

Acronyms	Meaning	Definition
PR	Ply Rating	Identifies different versions (load capacity/inflation pressure) of tires having the same size designation.
TYPE	Tubeless or Tube Type	Tubeless (TL) - Tires specifically designed for fitment without an inner tube on appropriate rims. Tubeless tires may be used with a tube.
LI	Load Index	Is a numerical code associated with the maximum load a tire can carry at the speed indicated by its Speed Symbol under service conditions specified by the tire manufacturer.
SS	Speed Symbol	Indicates the maximum speed at which the tire can carry a load corresponding to its Load Index under service conditions specified by the tire manufacturer.
/*	Index of Tire Strength	Symbols used to identify different versions (load capacity/inflation pressure) of earthmoving equipment tires in radial construction.
RIM	Recommended Rim	The rim that gives the best fitment of the tire for all conditions and types of service.
RIM (PERMITTED)	Permitted Rim	Any rim that can be permitted in addition to the recommended rim.
	New Tire Dimensions	The dimensions of an unloaded new tire 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	The linear distance between the outsides of the sidewalls of an inflated new tire excluding elevations due to labelling (marking), decorations, or protective bands or ribs.
	Overall Diameter	The diameter of an inflated tire at the outermost surface of the tread.

Acronyms	Meaning	Definition
	Loaded Static Radius	The radius of the new tire loaded at the maximum load capacity and with the corresponding tire pressure.
	Rolling Circumference	The circumference of the tire loaded at the maximum load capacity and with the corresponding tire pressure.
LOAD CAPACITY	Tire Load Carrying Capacity	The maximum load (lbs) a tire 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 tire.
	Inflation Pressure	The “cold“ pressure (kPa) of the fluid with which the tire is inflated.
ETRTO	The European Tire and Rim Technical Organisation	Data in this Technical Databook are relevant with ETRTO standards, the further data you can find there.
	Nominal Section Width	The section width of an inflated tire mounted on its theoretical rim and indicated in the tire size designation.
IND		A tire for traction wheels of vehicles for construction applications with load capacities and inflation pressures that differ from those of tires with the same size designation for use on agricultural tractors.
REINFORCED		Tires with better protection against tire damage (puncture). The load capacity and tire dimensions stay like standard execution.

Notes

Notes

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