Trelleborg

Construction

Technical manual

Technical Manual Index

Product range overview

	Tire Size	Alternative Size	Rim Size	
12”	5.70-12		4.50-12	
	23x8½-12	215/65-12	7.0-12	
	27x10-12	255/75-12	8.00G-12	
15”	27x10½-15	265/55-15	9.75-15	
	29x12½-15	320/55-15	10.0-15	
	31x15½-15	395/50-15	13.0-15	
	27x8½-15	220/70-15	7.00-15	
16.5”	10-16.5		8.25-16.5	
	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	
20”	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	
	30x10-16	10-16.5 *	6.0-16	
	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	
22.5”	650/45-22.5		AG22.00; AG24.00	
	600/50-22.5		AG20.00	
	710/40-22.5		AG24.00	
24”	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	
	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	
25”	17.5-25*	445/80-25	14.00-25/1.5	
	20.5-25*	525/80-25	17.00-25/2.0	
	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 (mm)	Rolling Circum-ference (mm)	Tread Depth (mm)	Com-pound
			Overall Diameter (mm)	Section Width (mm)				
17.5 R 25	EMR1020 L2	14.00/1.5-25 (14.00/1.5x25 DC, 14.00/1.3x25 DC)	1.349	434	588	4.100	26	CR
	EMR1025 L2	14.00/1.5-25 (14.00/1.5x25 DC, 14.00/1.3x25 DC)	1.349	440	596	4.029	28	CR
	EMR1030 L3	14.00/1.5-25 (14.00/1.5x25 DC, 14.00/1.3x25 DC)	1.347	442	610	4.068	27	CR
	EMR1031 L3	14.00/1.5-25 (14.00/1.5x25 DC, 14.00/1.3x25 DC)	1.346	444	598	4.027	31	CR
20.5 R 25	EMR1020 L2 **	17.00/2.0-25 (17.00/1.7-25)	1.489	540	643	4.527	28	CR
	EMR1025 L2 * 186 A2	17.00/2.0-25 (17.00/1.7-25)	1.489	530	648	4.427	31	STD
	EMR1030 L3**	17.00/2.0-25 (17.00/1.7-25)	1.490	536	647	4.514	34	CR
	EMR1031 L3**	17.00/2.0-25 (17.00/1.7-25)	1.491	540	651	4.467	36	CR
	EMR1030V L3**	17.00/2.0-25 (17.00/1.7-25)	1.494	523	644	4.511	36	STD
	EMR1050 L5**	17.00/2.0-25 (17.00/1.7-25)	1.542	525	685	4.732	82	CR
	EMR1051 L5**	17.00/2.0-25 (17.00/1.7-25)	1.545	522	679	4.637	70	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 (kg) at Speed (km/h)					Tire Pressure (bar)
	Static	5	10	20	30	
* 176 A2	6.000	4.275	3.750	3.150	2.900	2,00
	6.550	4.675	4.100	3.450	3.150	2,25
	7.100	5.050	4.450	3.750	3.425	2,50
	7.600	5.400	4.750	4.000	3.650	2,75
	8.150	5.800	5.100	4.275	3.925	3,00
	8.700	6.200	5.450	4.575	4.200	3,25
	9.200	6.550	5.750	4.825	4.425	3,50
	9.750	6.950	6.100	5.100	4.700	3,75
	10.300	7.350	6.450	5.400	4.975	4,00
	10.800	7.700	6.750	5.650	5.200	4,25
	11.400	8.100	**7.100**	5.950	5.450	**4,50**
* 186 A2	8.100	5.750	5.050	4.250	3.900	2,00
	8.800	6.250	5.500	4.625	4.225	2,25
	9.500	6.800	5.950	5.000	4.575	2,50
	10.200	7.300	6.400	5.400	4.925	2,75
	11.000	7.800	6.850	5.750	5.250	3,00
	11.600	8.250	7.250	6.100	5.600	3,25
	12.300	8.800	7.700	6.450	5.950	3,50
	13.000	9.300	8.150	6.850	6.300	3,75
	13.800	9.800	8.600	7.200	6.600	4,00
	14.500	10.300	9.050	7.600	6.950	4,25
	15.200	10.800	**9.500**	8.000	7.300	**4,50**
** 193 A2	15.800	11.300	9.900	8.300	7.600	4,75
	16.500	11.700	10.300	8.650	7.950	5,00
	17.100	12.200	10.700	9.000	8.250	5,25
	17.800	12.700	11.100	9.300	8.550	5,50
	18.400	13.100	**11.500**	9.650	8.850	**5,75**

EMR Wheel loader service

Wheel loader

Tire Size	Tread Pattern Type	Rim (Permitted)	New		Loaded Static Radius (mm)	Rolling Circum-ference (mm)	Tread Depth (mm)	Com-pound
			Overall Diameter (mm)	Section Width (mm)				
23.5 R 25	EMR1020 L2 **	19.50/2.5-25	1.613	614	691	4.879	32	CR
	EMR1025 L2 * 195 A2	19.50/2.5-25	1.610	610	698	4.772	34	STD
	EMR1030 L3 **	19.50/2.5-25	1.613	614	694	4.888	36	CR
	EMR1031 L3 **	19.50/2.5-25	1.614	616	704	4.870	37	CR
	EMR1040 L4 **	19.50/2.5-25	1.670	616	729	5.023	57	CR
	EMR1042 L4 **	19.50/2.5-25	1.613	607	702	4.851	51	CR
	EMR1050 L5 **	19.50/2.5-25	1.668	609	737	5.109	88	CR
	EMR1051 L5 **	19.50/2.5-25	1.669	599	734	5.012	76	CR
26.5 R 25	EMR1030 L3	22.00/3.0-25	1.747	676	749	5.300	42	CR
	EMR1040 L4	22.00/3.0-25	1.794	684	744	5.387	61	CR
	EMR1042 L4	22.00/3.0-25	1.748	686	752	5.236	54	CR
	EMR1050 L5	22.00/3.0-25	1.792	676	780	5.477	96	CR
	EMR1051 L5	22.00/3.0-25	1.793	677	776	5.326	85	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 (kg) at Speed (km/h)					Tire Pressure (bar)
	Static	5	10	20	30	
* 195 A2	10.200	7.300	6.400	5.400	4.925	2,00
	11.100	7.900	6.950	5.850	5.350	2,25
	12.000	8.550	7.500	6.300	5.750	2,50
	12.900	9.200	8.050	6.750	6.200	2,75
	13.800	9.800	8.600	7.200	6.600	3,00
	14.600	10.400	9.150	7.700	7.050	3,25
	15.500	11.100	9.700	8.150	7.450	3,50
	16.400	11.700	10.250	8.600	7.900	3,75
	17.300	12.300	10.800	9.050	8.300	4,00
	18.200	12.900	11.350	9.550	8.750	4,25
	19.400	13.900	**12.150**	10.200	9.350	**4,50**
** 201 A2	19.000	13.600	11.900	10.000	9.150	4,50
	19.800	14.100	12.400	10.400	9.550	4,75
	20.600	14.700	12.900	10.800	9.950	5,00
	21.400	15.300	13.400	11.300	10.300	5,25
	22.200	15.800	13.900	11.700	10.700	5,50
	23.200	16.500	**14.500**	12.200	11.200	**5,75**
** 209 A2	14.900	10.600	9.300	7.800	7.150	2,00
	15.900	11.300	9.950	8.350	7.650	2,25
	17.000	12.100	10.600	8.900	8.150	2,50
	17.900	12.800	11.200	9.400	8.600	2,75
	19.000	13.600	11.900	10.000	9.150	3,00
	20.000	14.200	12.500	10.500	9.600	3,25
	21.000	14.900	13.100	11.000	10.100	3,50
	21.900	15.600	13.700	11.500	10.500	3,75
	22.900	16.300	14.300	12.000	11.000	4,00
	23.800	17.000	14.900	12.500	11.500	4,25
	24.800	17.700	15.500	13.000	11.900	4,50
	25.800	18.400	16.100	13.500	12.400	4,75
	26.700	19.000	16.700	14.000	12.900	5,00
	27.700	19.700	17.300	14.500	13.300	5,25
	28.600	20.400	17.900	15.000	13.800	5,50
	29.600	21.100	**18.500**	15.500	14.200	**5,75**

*/** - Index of tire strength

EMR Wheel loader service

Wheel loader

Tire Size	Tread Pattern Type	Rim (Permitted)	New		Loaded Static Radius (mm)	Rolling Circum-ference (mm)	Tread Depth (mm)	Com-pound
			Overall Diameter (mm)	Section Width (mm)				
750/65 R 25	EMR1030 L3	24.00/3.0-25 (22.00/3.0-25)	1.609	724	685	4.917	41	CR
29.5 R 25	EMR1030 L3	25.00/3.5-25	1.872	764	794	5.628	44	CR
	EMR1040 L4	25.00/3.5-25	1.919	765	824	5.787	61	CR
	EMR1042 L4	25.00/3.5-25	1.870	740	806	5.626	58	CR
	EMR1050 L5	25.00/3.5-25	1.916	742	832	5.799	105	CR
	EMR1051 L5	25.00/3.5-25	1.920	752	823	5.713	92	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 (kg) at Speed (km/h)					Tire Pressure (bar)
	Static	5	10	20	30	
	12.200	8.650	7.600	6.400	5.850	2,00
	13.100	9.350	8.200	6.900	6.300	2,25
	14.100	10.000	8.800	7.400	6.800	2,50
	15.000	10.700	9.400	7.900	7.250	2,75
	16.200	11.500	10.100	8.500	7.800	3,00
	17.300	12.300	10.800	9.050	8.300	3,25
	18.200	13.000	11.400	9.600	8.800	3,50
	19.400	13.800	12.100	10.200	9.300	3,75
**	20.300	14.500	12.700	10.700	9.800	4,00
209 A2	21.400	15.300	13.400	11.300	10.300	4,25
	22.400	16.000	14.000	11.800	10.800	4,50
	23.520	16.800	14.700	12.300	11.300	4,75
	24.500	17.500	15.300	12.900	11.800	5,00
	25.600	18.200	16.000	13.400	12.300	5,25
	26.700	19.000	16.700	14.000	12.800	5,50
	27.700	19.700	17.300	14.500	13.300	5,75
	28.600	20.400	17.900	15.000	13.800	6,00
	29.600	21.100	**18.500**	15.500	14.200	**6,25**
	16.300	11.600	10.200	8.550	7.850	2,00
	17.600	12.500	11.000	9.250	8.450	2,25
	18.900	13.500	11.800	9.900	9.100	2,50
	20.200	14.400	12.600	10.600	9.700	2,75
	21.300	15.200	13.300	11.200	10.200	3,00
	22.600	16.100	14.100	11.800	10.900	3,25
	23.800	17.000	14.900	12.500	11.500	3,50
**	25.100	17.900	15.700	13.200	12.100	3,75
216 A2	26.200	18.700	16.400	13.800	12.600	4,00
	27.400	19.500	17.100	14.400	13.200	4,25
	28.800	20.500	18.000	15.100	13.900	4,50
	30.200	21.500	18.900	15.900	14.600	4,75
	31.700	22.600	19.800	16.600	15.200	5,00
	33.100	23.600	20.700	17.400	15.900	5,25
	34.600	24.600	21.600	18.100	16.600	5,50
	35.900	25.500	**22.400**	18.800	17.200	**5,75**

*/** - Index of tire strength

EMR Grader service

Motor Grader

Tire Size	Tread Pattern Type	Rim (Permitted)	New		Loaded Static Radius (mm)	Rolling Circum-ference (mm)	Tread Depth (mm)	Com-pound
			Overall Diameter (mm)	Section Width (mm)				
14.00R24	EMR1020 G2	8.00TG-24 (SDC) 10.00VA-24 (SDC)	1.371	376	615	4.107	22	CR
	EMR1025 G2	8.00TG-24 (SDC) 10.00VA-24 (SDC)	1.373	378	616	4.090	24	STD
17.5 R 25	EMR1020+ G2	14.00/1.5-25 (14.00/1.5x25 DC, 14.00/1.3x25 DC)	1.348	434	609	4.096	26	CR
	EMR1025 G2	14.00/1.5-25 (14.00/1.5x25 DC, 14.00/1.3x25 DC)	1.350	446	613	4.009	28	STD
	EMR1030+ G3	14.00/1.5-25 (14.00/1.5x25 DC, 14.00/1.3x25 DC)	1.346	441	610	4.058	27	CR
	EMR1031 G2	14.00/1.5-25 (14.00/1.5x25 DC, 14.00/1.3x25 DC)	1.347	443	615	4.023	31	CR
20.5 R 25	EMR1020+ G2	17.00/2.0-25 (17.00/1.7-25)	1.489	540	643	4.527	28	CR
	EMR1025 G2	17.00/2.0-25 (17.00/1.7-25)	1.489	530	647	4.423	31	STD
	EMR1030+ G3	17.00/2.0-25 (17.00/1.7-25)	1.490	536	647	4.514	34	CR
	EMR1031 G2	17.00/2.0-25 (17.00/1.7-25)	1.491	537	677	4.443	36	CR
	EMR1051+ L5	17.00/2.0-25 (17.00/1.7-25)	1.545	522	679	4.637	70	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 (kg) at Speed (km/h)					Tire Pressure (bar)
	10	20	30	40	50	
* 153 A8	2.600	2.600	2.600	2.600	2.375	2,75
	2.850	2.850	2.850	2.850	2.600	3,00
	3.125	3.125	3.125	3.125	2.850	3,25
	3.375	3.375	3.375	3.375	3.075	3,50
	3.650	3.650	3.650	**3.650**	3.325	**3,75**
* 153 A8	2.600	2.600	2.600	2.600	2.375	2,00
	2.875	2.875	2.875	2.875	2.625	2,25
	3.125	3.125	3.125	3.125	2.850	2,50
	3.400	3.400	3.400	3.400	3.100	2,75
	3.650	3.650	3.650	**3.650**	3.325	**3,00**
* 161 A8	3.475	3.475	3.475	3.475	3.150	2,00
	3.775	3.775	3.775	3.775	3.425	2,25
	4.050	4.050	4.050	4.050	3.675	2,50
	4.350	4.350	4.350	4.350	3.950	2,75
	4.625	4.625	4.625	**4.625**	4.200	**3,00**

*/** - Index of tire strength

EMR Grader service

Motor Grader

Tire Size	Tread Pattern Type	Rim (Permitted)	New		Loaded Static Radius (mm)	Rolling Circum-ference (mm)	Tread Depth (mm)	Com-pound
			Overall Diameter (mm)	Section Width (mm)				
23.5 R 25	EMR1020+ G2	19.50/2.5-25	1.613	614	691	4.879	32	CR
	EMR1025 G2	19.50/2.5-25	1.608	609	727	4.776	34	STD
	EMR1030+ G3	19.50/2.5-25	1.613	614	694	4.888	36	CR
	EMR1031 G3	19.50/2.5-25	1.611	615	730	4.844	37	CR
	EMR1040+ L4	19.50/2.5-25	1.669	615	729	5.023	57	CR
	EMR1051+ L5	19.50/2.5-25	1.669	599	734	5.012	76	CR
750/65 R 25	EMR1030+ G3	24.00/3.0-25 (22.00/3.0-25)	1.608	724	685	4.917	41	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 (kg) at Speed (km/h)					Tire Pressure (bar)
	10	20	30	40	50	
* 170 A8	4.475	4.475	4.475	4.475	4.075	2,00
	4.875	4.875	4.875	4.875	4.425	2,25
	5.250	5.250	5.250	5.250	4.775	2,50
	5.625	5.625	5.625	5.625	5.125	2,75
	6.000	6.000	6.000	**6.000**	5.450	**3,00**
* 178 B	4.400	4.400	4.400	4.400	4.000	2,00
	5.000	5.000	5.000	5.000	4.550	2,25
	5.600	5.600	5.600	5.600	5.100	2,50
	6.200	6.200	6.200	6.200	5.650	2,75
	6.800	6.800	6.800	6.800	6.200	3,00
	7.500	7.500	7.500	**7.500**	6.800	**3,25**

*/** - Index of tire strength

EMR Transport service

Articulated & Rigid Dump Truck

Tire Size	Tread Pattern Type	Rim (Permitted)	New		Loaded Static Radius (mm)	Rolling Circum-ference (mm)	Tread Depth (mm)	Com-pound
			Overall Diameter (mm)	Section Width (mm)				
17.5 R 25	EMR1020 E2	14.00/1.5-25 (14.00/1.5x25 DC, 14.00/1.3x25 DC)	1.349	434	609	4.112	26	CR
	EMR1030 E3	14.00/1.5-25 (14.00/1.5x25 DC, 14.00/1.3x25 DC)	1.346	441	610	4.061	27	CR
20.5 R 25	EMR1020 E2	17.00/2.0-25 (17.00/1.7-25)	1.489	539	661	4.503	28	CR
	EMR1030 E3	17.00/2.0-25 (17.00/1.7-25)	1.490	536	665	4.487	34	
	EMR1031# E3	17.00/2.0-25 (17.00/1.7-25)	1.491	540	667	4.467	36	
23.5 R 25	EMR1020 E2	19.50/2.5-25	1.612	614	711	4.873	32	CR
	EMR1030 E3	19.50/2.5-25	1.613	614	716	4.863	36	CR (162) HT (205)
	EMR1031# E3	19.50/2.5-25	1.614	616	718	4.870	37	CR
	EMR1040+ E4	19.50/2.5-25	1.669	615	749	5.004	57	CR
	EMR1042 E4	19.50/2.5-25	1.611	607	722	4.859	51	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 (kg) at Speed (km/h)					Tire Pressure (bar)
	20	30	40	50	55	
* 157 B	3.450	3.325	3.225	3.125	3.075	2,50
	3.725	3.575	3.475	3.375	3.300	2,75
	4.000	3.850	3.725	3.625	3.550	3,00
	4.275	4.100	4.000	3.875	3.800	3,25
	4.550	4.375	4.250	**4.125**	4.050	**3,50**
** 177 B	6.150	5.950	5.750	5.600	5.500	3,25
	6.550	6.300	6.150	5.950	5.850	3,50
	6.950	6.700	6.500	6.300	6.150	3,75
	7.300	7.050	6.850	6.650	6.500	4,00
	7.700	7.400	7.200	7.000	6.850	4,25
	8.050	7.750	7.500	**7.300**	7.150	**4,50**
** 185 B	7.850	7.600	7.350	7.150	7.000	3,25
	8.300	8.000	7.800	7.550	7.400	3,50
	8.800	8.500	8.250	8.000	7.850	3,75
	9.250	8.900	8.650	8.400	8.250	4,00
	9.750	9.400	9.100	8.850	8.650	4,25
	10.200	9.800	9.550	**9.250**	9.050	**4,50**

*/** - Index of tire strength

EMR Transport service

Articulated & Rigid Dump Truck

Tire Size	Tread Pattern Type	Rim (Permitted)	New		Loaded Static Radius (mm)	Rolling Circum-ference (mm)	Tread Depth (mm)	Com-pound
			Overall Diameter (mm)	Section Width (mm)				
26.5 R 25	EMR1030 E3	22.00/3.0-25	1.746	675	775	5.250	42	CR (170) HT (215)
	EMR1040+ E4	22.00/3.0-25	1.793	684	799	5.394	61	CR
	EMR1042 E4	22.00/3.0-25	1.745	684	778	5.239	54	CR
750/65 R 25	EMR1030 E3	24.00/3.0-25 (22.00/3.0-25)	1.608	725	709	4.877	41	CR (190) HT (240)
29.5 R 25	EMR1030 E3	25.00/3.5-25	1.871	763	824	5.615	44	CR (260) HT (325)
	EMR1040+ E4	25.00/3.5-25	1.918	766	853	5.765	61	CR
	EMR1042 E4	25.00/3.5-25	1.869	740	835	5.631	58	CR (170) HT (215)
18.00 R 33	EMR1045 E4	13.00/2.5-33	1.873	491	858	5.613	52	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 (kg) at Speed (km/h)					Tire Pressure (bar)
	20	30	40	50	55	
** 193 B	9.900	9.550	9.250	9.000	8.800	3,25
	10.500	10.100	9.800	9.500	9.300	3,50
	11.000	10.600	10.300	10.000	9.800	3,75
	11.600	11.100	10.800	10.500	10.300	4,00
	12.100	11.700	11.300	11.000	10.800	4,25
	12.700	12.200	11.800	**11.500**	11.300	**4,50**
** 190 B	8.800	8.500	8.250	8.000	7.850	3,00
	9.350	9.000	8.750	8.500	8.350	3,25
	9.900	9.550	9.250	9.000	8.800	3,50
	10.450	10.100	9.800	9.500	9.300	3,75
	11.000	10.600	10.300	10.000	9.800	4,00
	11.700	11.200	10.900	**10.600**	10.400	**4,25**
** 200 B	12.100	11.700	11.300	11.000	10.800	3,25
	12.800	12.300	11.900	11.600	11.400	3,50
	13.400	12.900	12.600	12.200	12.000	3,75
	14.100	13.600	13.200	12.800	12.500	4,00
	14.700	14.200	13.800	13.400	13.100	4,25
	15.400	14.800	14.400	**14.000**	13.700	**4,50**
** 191 B	9.900	9.550	9.250	9.000	8.800	5,00
	10.300	9.900	9.650	9.350	9.150	5,25
	10.700	10.300	10.000	9.700	9.500	5,50
	11.000	10.600	10.300	10.000	9.800	5,75
	11.300	10.900	10.600	10.300	10.100	6,00
	11.700	11.200	10.900	10.600	10.400	6,25
	12.000	11.600	11.200	**10.900**	10.700	**6,50**

*/** - Index of tire strength

PNEUMATIC TIRES

SK-900 Skid Steer loader

Skid Steer

SK-900

Tire Size	Alternative Size	Ply Rating	Rim Size	Tire Type	Dimensions [mm]			Skid Steer at 10 km/h	
					Overall Diameter	Section Width	Tread Depth	Inflation Pressure [bar]	Load Capacity [kg]
23x8.5-12		12	7.0-12	Tubeless	579	213	12	7,30	1.250
27x10-12	250/75-12	14	8.00G-12	Tubeless	690	255	18	7,00	3.540
27x10.5-15		16	W8.0-15	Tubeless	691	259	13	7,10	1.800
29x12.5-15		8	10.0-15	Tubeless	742	310	18	3,20	1.530
31x15.5-15		8	13.0-15	Tubeless	792	391	20	3,10	1.975
10-16.5		8	8.25-16.5	Tubeless	773	264	19	4,10	1.880
10-16.5		10	8.25-16.5	Tubeless	773	264	19	5,20	2.135
31.5x13-16.5		10	9.75-16.5	Tubeless	790	326	20	4,90	2.575
12-16.5		10	9.75-16.5	Tubeless	831	307	20	4,50	2.540
12-16.5		12	9.75-16.5	Tubeless	831	307	20	5,50	2.865
14-17.5		14	10.50-17.5	Tubeless	921	349	22	5,50	3.875
15-19.5		14	11.75-19.5	Tubeless	1.019	389	22	4,80	4.565

PNEUMATIC TIRES

SK-900 ND Skid Steer loader

Skid Steer

SK-900 ND

Tire Size	Ply Rating	Rim Size	Tire Type	Dimensions [mm]			Skid Steer at 10 km/h	
				Overall Diameter	Section Width	Tread Depth	Inflation Pressure [bar]	Load Capacity [kg]
10-16.5	10	8.25-16.5	Tubeless	773	264	27	5,20	2.135
12-16.5	12	9.75-16.5	Tubeless	831	307	33	5,50	2.865

SK-800 Skid Steer loader

Skid Steer

SK-800

Tire Size	Alternative Size	Ply Rating	Rim Size	Tire Type	Dimensions [mm]			Skid Steer at 10 km/h	
					Overall Diameter	Section Width	Tread Depth	Inflation Pressure [bar]	Load Capacity [kg]
5.70-12		6	4.50-12	Tubeless	570	146	14	4,20	660
23x8.5-12		6	7.0-12	Tubeless	574	213	15	3,40	820
27x8.5-15		8	7.0-15	Tubeless	678	213	15	4,15	1.305
10-16.5		8	8.25-16.5	Tubeless	751	270	18	4,10	1.880
10-16.5		10	8.25-16.5	Tubeless	751	270	18	5,20	2.135
12-16.5		10	9.75-16.5	Tubeless	815	308	19	4,50	2.540

MPX TB Telehandler / Compact wheel loader

Telehandler/Compact Wheel Loader

Tire Size	Tread Pattern Type	Rim (Permitted)	New		Loaded Static Radius (mm)	Rolling Circum-ference (mm)	Tread Depth (mm)
			Overall Diameter (mm)	Section Width (mm)			
11L-16 IND	MPX FB TL	W8 x 16 (W8L x 16)	823	286	384	2.489	13
400/70-20 IND (REPLACES 405/70-20 16/70-20)	MPX TB TL	3 x 20 (13 x 20SDC)	1.081	408	493	3.294	29
400/70-24 IND (REPLACES 405/70-24 16/70-24)	MPX TB TL	13 x 24 (13 x 24SDC	1.174	410	537	3.551	29
400/80-24 IND (15.5/80-24)	MPX TB TL	DW13 x 24 (DW14L x 24) (DW13L x 24)	1.253	410	572	3.825	30
460/70-24 IND (17.5L-24)	MPX TB TL	DW15L x 24 (DW14L x 24) (DW16L x 24)	1.257	455	564	3.813	30
500/70-24 IND (19.5L-24)	MPX TB TL	DW16L x 24 (DW15Lx24) (W15Lx24) (W16Lx24)	1.313	502	584	3.936	30

MPX TB

Service Description LI/SS	Tire Load Capacity (kg) at Speed (km/h)							Tire Pressure (bar)
	Static	10	10 Cyclic	20	30	40	50	
12 PR 116 A8	2.580	1.400	1.680	1.225	1.165	1.120	1.020	3,60
	2.645	1.440	1.725	1.255	1.200	1.150	1.050	3,85
	2.795	1.520	1.825	1.325	1.265	1.215	1.110	4,15
	2.875	1.565	1.875	1.365	1.300	**1.250**	1.140	**4,40**
155 A8/155 B	6.065	3.295	3.955	2.875	2.740	2.635	2.635	3,20
	6.510	3.535	4.245	3.085	2.940	2.830	2.830	3,50
	7.310	3.975	4.770	3.465	3.305	3.180	3.180	4,00
	8.115	4.410	5.290	3.845	3.665	3.525	3.525	4,50
	8.915	4.845	5.815	4.225	4.030	**3.875**	**3.875**	**5,00**
158 A8/158 B	6.645	3.615	4.335	3.150	3.005	2.890	2.890	3,20
	7.135	3.880	4.655	3.385	3.225	3.105	3.105	3,50
	8.015	4.360	5.230	3.800	3.625	3.485	3.485	4,00
	8.895	4.835	5.800	4.220	4.020	3.870	3.870	4,50
	9.775	5.315	6.375	4.635	4.420	**4.250**	**4.250**	**5,00**
162 A8	7.430	4.040	4.845	3.520	3.360	3.230	2.940	3,20
	7.975	4.335	5.200	3.780	3.605	3.470	3.155	3,50
	8.960	4.870	5.845	4.250	4.050	3.895	3.545	4,00
	9.940	5.405	6.485	4.715	4.495	4.325	3.935	4,50
	10.925	5.940	7.125	5.180	4.940	**4.750**	4.325	**5,00**
159 A8	6.540	3.555	4.265	3.100	2.960	2.845	2.585	2,40
	7.450	4.050	4.860	3.530	3.365	3.240	2.945	2,80
	8.355	4.540	5.450	3.960	3.775	3.630	3.305	3,20
	8.960	4.870	5.845	4.245	4.050	3.895	3.540	3,50
	10.065	5.470	6.565	4.770	4.550	**4.375**	3.980	**4,00**
164 A8	7.475	4.065	4.875	3.545	3.380	3.250	2.960	2,40
	8.510	4.625	5.550	4.035	3.850	3.700	3.365	2,80
	9.545	5.190	6.225	4.525	4.315	4.150	3.775	3,20
	10.235	5.565	6.675	4.850	4.630	4.450	4.050	3,50
	11.500	6.250	7.500	5.450	5.200	**5.000**	4.550	**4,00**

T440 T480 Wheel excavator

Wheel Excavator

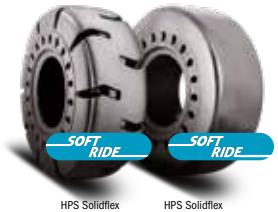
Tire Size	Tread Pattern Type	Rim (Permitted)	New		Loaded Static Radius (mm)	Rolling Circum-ference (mm)	Tread Depth (mm)
			Overall Diameter (mm)	Section Width (mm)			
650/45-22.5	T440 EXC TL	AG22.00 AG24.00	1.160	650			46
600/50-22.5	T480 EXC TL	AG20.00	1.180	620			35
710/40-22.5	T480 EXC TL	AG24.00	1.170	710			35

T440 T480

Service Description LI/SS Loader	Loader Service - Tire Load Capacity (kg) at Speed (km/h)				Tire Pressure (bar)
	Static	10	40	50	
175 A8	5.430	3.025	2.360	2.120	1,60
	6.275	3.460	2.725	2.465	2,00
	7.075	3.875	3.075	2.800	2,40
	7.765	4.235	3.375	3.080	2,70
	8.455	4.595	3.675	3.360	3,00
	8.910	4.835	3.875	3.550	3,20
	9.660	5.225	4.200	3.815	3,50
	10.420	5.620	4.530	4.075	3,80
	10.925	5.885	4.750	4.250	4,00
	11.405	6.140	4.960	4.455	4,20
	12.130	6.515	5.275	4.770	4,50
	12.615	6.765	5.485	4.980	4,70
	13.340	7.145	5.800	5.300	5,00
	13.840	7.410	6.020	5.470	5,20
	14.345	7.670	6.240	5.645	5,40
	14.855	7.935	6.460	5.815	5,60
	15.360	8.200	6.680	5.980	5,80
	15.870	8.470	6.900	6.150	**6,00**
173 A8	5.150	2.870	2.240	2.060	1,60
	6.035	3.330	2.625	2.400	2,00
	6.900	3.780	3.000	2.725	2,40
	7.555	4.120	3.285	2.995	2,70
	8.200	4.455	3.565	3.270	3,00
	8.625	4.680	3.750	3.450	3,20
	9.370	5.070	4.075	3.705	3,50
	10.130	5.465	4.405	3.960	3,80
	10.640	5.730	4.625	4.125	4,00
	11.090	5.965	4.820	4.325	4,20
	11.760	6.315	5.115	4.630	4,50
	12.210	6.550	5.310	4.840	4,70
	12.880	6.900	5.600	5.150	5,00
	13.300	7.120	5.785	5.320	5,20
	13.715	7.335	5.965	5.490	5,40
	14.130	7.550	6.145	5.660	5,60
	14.540	7.765	6.320	5.830	5,80
	14.950	7.975	6.500	6.000	**6,00**
176 A8	5.590	3.115	2.430	2.180	1,60
	6.440	3.555	2.800	2.545	2,00
	7.245	3.970	3.150	2.900	2,40
	7.975	4.350	3.470	3.180	2,70
	8.710	4.735	3.785	3.465	3,00
	9.200	4.990	4.000	3.650	3,20
	9.950	5.385	4.325	3.965	3,50
	10.710	5.775	4.655	4.285	3,80
	11.215	6.040	4.875	4.500	4,00
	11.725	6.310	5.100	4.690	4,20
	12.500	6.715	5.435	4.975	4,50
	13.020	6.985	5.660	5.165	4,70
	13.800	7.395	6.000	5.450	5,00
	14.305	7.655	6.220	5.660	5,20
	14.810	7.920	6.440	5.865	5,40
	15.315	8.185	6.660	6.075	5,60
	15.825	8.450	6.880	6.290	5,80
	16.330	8.715	7.100	6.500	**6,00**

Brawler HPS loader

Wheel Excavator



HPS Solidflex Traction

HPS Solidflex Smooth

HPS Smooth

Tire Size	Alternative Size	Rim Size	Overall Diameter [mm]	Section Width [mm]	Tread Depth [mm]	Load Capacity 10 km/h [kg]
17.5-25 *	445/80-25	14.0-25	1.340	446	155	8.805
20.5-25 *	525/80-25	17.0-25	1.495	527	188	12.155
23.5-25 *	605/80-25	19.5-25	1.630	606	216	15.320
26.5-25 *	685/80-25	22.0-25	1.715	718	236	18.295
29.5-25 *		25.0-25	1.845	761	264	22.540

* Also available as standard version

HPS SOLIDFLEX SMOOTH

Tire Size	Alternative Size	Rim Size	Overall Diameter [mm]	Section Width [mm]	Tread Depth [mm]	Load Capacity 10 km/h [kg]
17.5-25 *	445/80-25	14.0-25	1.340	446	155	8.805
20.5-25 *	525/80-25	17.0-25	1.495	527	188	12.155
23.5-25 *	605/80-25	19.5-25	1.630	606	216	15.320
26.5-25 *	685/80-25	22.0-25	1.715	718	236	18.295
29.5-25 *		25.0-25	1.845	761	264	22.540
18.00-33		13.0-33	1.831	457	216	12.000

* Also available as standard version

HPS SMOOTH

Tire Size	Alternative Size	Rim Size	Overall Diameter [mm]	Section Width [mm]	Tread Depth [mm]	Load Capacity 10 km/h [kg]
20.5-25	525/80-25	17.0-25	1.495	527	188	16.210
23.5-25	605/80-25	19.5-25	1.630	606	216	20.425
26.5-25	685/80-25	22.0-25	1.715	718	236	24.390
29.5-25		25.0-25	1.845	761	264	30.050

Brawler HD loader

Wheel Excavator

HD Solidflex Smooth

HD Smooth

Tire Size	Pneumatic Equivalent Size	Overall Diameter [mm]	Section Width [mm]	Rubber Thickness [mm]	Tread Depth [mm]	Load Capacity 10 km/h [kg]
55x10x18	17.5-25	1.397	457	254	127	10.010
59x12x20.5	20.5-25	1.500	521	292	165	11.835
62x13x21	20.5-25	1.575	533	330	191	12.575
66x16x24	23.5-25	1.675	610	406	254	14.665
69x17x28	26.5-25	1.755	711	432	279	17.770
73x18x31	29.5-25	1.855	787	450	305	20.360
80x18x35	35/65-33	2.030	889	457	305	26.550

HD SMOOTH

Tire Size	Pneumatic Equivalent Size	Overall Diameter [mm]	Section Width [mm]	Rubber Thickness [mm]	Tread Depth [mm]	Load Capacity 10 km/h [kg]
55x10x18	17.5-25	1.397	457	254	127	13.345
59x12x20.5	20.5-25	1.500	521	292	165	15.780
62x13x21	20.5-25	1.575	533	330	191	16.765
66x16x24	23.5-25	1.675	610	406	254	19.555
69x17x28	26.5-25	1.755	711	432	279	23.695
73x18x31	29.5-25	1.855	787	450	305	27.150
80x18x35	35/65-33	2.030	889	457	305	35.400

Brawler HPS Skid Steer

Skid Steer

HPS Solidflex Traction | HPS Solidflex Smooth | HPS Smooth

Tire Size	Pneumatic Equivalent Size	Rim Size	Overall Diameter [mm]	Section Width [mm]	Tread Depth [mm]	Load Capacity 10 km/h [kg]
30x10-16	10-16.5	6.00-16	759	236	44	3.000
31x10-20	10-16.5	7.5-20	785	254	41	2.815
33x12-20	12-16.5	7.5-20	840	284	56	2.970
36x14-20	14-17.5	7.5-20	915	356	71	3.310
40x14-20	15-19.5	10.0-20	1.015	356	94	4.955

HPS SOLIDFLEX SMOOTH

Tire Size	Pneumatic Equivalent Size	Rim Size	Overall Diameter [mm]	Section Width [mm]	Tread Depth [mm]	Load Capacity 10 km/h [kg]
31x10-20	10-16.5	7.5-20	785	254	41	2.815
33x12-20	12-16.5	7.5-20	840	284	56	2.970
36x14-20	14-17.5	7.5-20	915	356	71	3.310
40x14-20	15-19.5	10.0-20	1.015	356	94	4.955

HPS SMOOTH

Tire Size	Pneumatic Equivalent Size	Rim Size	Overall Diameter [mm]	Section Width [mm]	Tread Depth [mm]	Load Capacity 10 km/h [kg]
31x10-20	10-16.5	7.5-20	785	254	41	3.755
33x12-20	12-16.5	7.5-20	840	305	56	3.960
36x14-20	14-17.5	7.5-20	915	356	71	4.415
40x14-20	15-19.5	10.0-20	1.015	356	94	6.605

Brawler HD Skid Steer

Skid Steer

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

Tire Size	Pneumatic Equivalent Size	Overall Diameter [mm]	Section Width [mm]	Rubber Thickness [mm]	Tread Depth [mm]	Load Capacity 10 km/h [kg]
31x6x10	10-16.5	785	254	158	48	3.000
33x6x11	12-16.5	840	279	155	61	3.600
36x7x11	14-17.5	915	279	168	71	3.885

HD SOLIDFLEX SMOOTH

Tire Size	Pneumatic Equivalent Size	Overall Diameter [mm]	Section Width [mm]	Rubber Thickness [mm]	Tread Depth [mm]	Load Capacity 10 km/h [kg]
31x5x9	10-16.5	785	229	131	48	2.690
33x6x8	8-16	840	203	156	61	2.500
33x6x10	12-16.5	840	254	156	61	3.340

HD TRACTION

Tire Size	Pneumatic Equivalent Size	Overall Diameter [mm]	Section Width [mm]	Rubber Thickness [mm]	Tread Depth [mm]	Load Capacity 10 km/h [kg]
31x5x7	7.50-16	785	178	131	38	2.460
31x5x8	10-16.5	785	229	131	38	3.290
33x6x8	8-16	840	203	156	46	2.875
33x6x10	12-16.5	840	254	156	46	3.705

HD SMOOTH

Tire Size	Pneumatic Equivalent Size	Overall Diameter [mm]	Section Width [mm]	Rubber Thickness [mm]	Tread Depth [mm]	Load Capacity 10 km/h [kg]
31x5x7	7.50-16	785	178	131	48	2.460
31x5x9	10-16.5	785	229	131	48	3.290
33x6x8	8-16	840	203	156	61	2.875
33x6x10	12-16.5	840	254	156	61	3.705
36x7x11	14-17.5	915	279	169	117	4.245

SOLID TIRES

SKS-900 Skid Steer

Skid Steer

SKS-900 (R4) SKS-900 Smooth

Tire Size	Pneumatic Equivalent Size	Rim Size	Pattern	Overall Diameter [mm]	Section Width [mm]	Load Capacity 10 km/h [kg]
31x10-20	10-16.5	7.5-20	R4	775	236	2.380
31x10-20	10-16.5	7.5-20	Smooth	775	236	2.380
33x12-20	12-16.5	7.5-20	R4	828	287	3.075
33x12-20	12-16.5	7.5-20	Smooth	828	287	3.075

SOLID TIRES

Brawler HPS Telehandler

Telehandler

HPS Solidflex Traction

Tire Size	Pneumatic Equivalent Size	Rim Size	Overall Diameter [mm]	Section Width [mm]	Tread Depth [mm]	Load Capacity 10 km/h [kg]
43x15-24*	405/70-20	10.0-24	1.090	380	82	5.600
47x17-24*	405/70-24	10.0-24	1.190	430	100	6.300
13.00-24*		8.5-24	1.295	330	102	5.935
14.00-24*	385/95-24 †	8.5-24	1.345	356	112	6.705

† 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 [mm]	Section Width [mm]	Rubber Thickness [mm]	Tread Depth [mm]	Load Capacity 10 km/h [kg]
43x6x14.5	385/65D22.5	1.092	368	147	52	6.665
46x6x18	445/65D22.5	1.181	451	152	52	9.085
39x6x15	39x15-22.5	991	381	147	45	6.240

SOLID TIRES

Excavator

Wheel Excavator

Excavator Excavator XL

EXCAVATOR

Tire Size	Rim Size	Overall Diameter [mm]	Section Width [mm]	Static Load (Kg)	Load Capacity 10 km/h [kg]
10.00-20	7.0/7.5/8.0-20	1.005	240	7.550	5.450
12.00-20	8.0/8.5-20	1.092	256	9.515	6.865

N.B.: Can also be purchased as dual assembly

EXCAVATOR XL

Tire Size	Rim Size	Overall Diameter [mm]	Section Width [mm]	Static Load (Kg)	Load Capacity 10 km/h [kg]
8.25-20	6.5-20	950	228	5.510	3.980
9.00-20	6.5/7.0-20	994	208	6.795	4.905
10.00-20	7.0/7.5/8.0-20	1.023	253	7.550	5.450
12.00-20	8.0/8.5-20	1.093	278	9.515	6.865

N.B.: Excavator and Excavator XL are not for use on forklift trucks

SOLID TIRES

Brawler HD Excavator super single

Wheel Excavator

Smooth

Tire Size	Equivalent dual	Overall Diameter [mm]	Section Width [mm]	Static Load (Kg)	Load Capacity 10 km/h [kg]
42x10x22*	10.00-20 dual	1.066	558	14095	10704
45x10x24*	12.00-20 dua	1.143	609	27500	17150
48x10x27*	12.00-24 dual	1.219	687	32270	20160
52x10x31*	14.00-24 dual	1.320	787	40495	25310

* Also available in traction

CRT-800 Mini excavator

Mini excavator

Tire Size	Guide Type			Track Width [mm]	Number of Links	Pitch Length [mm]	Weight [kg]
	Narrow	Standard	Wide				
180x30x60		•		180	30	60	15
180x31x72		•		180	31	72	18
180x32x72		•		180	32	72	19
180x34x60		•		180	34	60	17
180x34x72		•		180	34	72	20
180x35x72		•		180	35	72	21
180x36x60		•		180	36	60	17
180x36x72		•		180	36	72	21
180x37x60		•		180	37	60	18
180x37x72		•		180	37	72	22
180x39x72		•		180	39	72	23
180x40x60		•		180	40	60	19
180x41x72		•		180	41	72	35
180x42x72		•		180	42	72	27
200x37x72		•		200	37	72	32
200x39x72		•		200	39	72	36
200x40x72		•		200	40	72	37
200x41x72		•		200	41	72	38
200x42x72		•		200	42	72	39
230x36x72		•		230	36	72	40
230x39x72		•		230	39	72	43
230x41x72		•		230	41	72	46
230x42x72		•		230	42	72	47
230x43x72		•		230	43	72	48
230x44x72		•		230	44	72	49
230x45x72		•		230	45	72	50
230x47x72		•		230	47	72	52
230x48x72		•		230	48	72	53
230x50x72		•		230	50	72	56
230x52x72		•		230	52	72	58
230x54x72		•		230	54	72	60
230x56x72		•		230	56	72	62
230x60x48		•		230	60	48	55
230x62x48		•		230	62	48	57
230x64x48		•		230	64	48	59
230x66x48		•		230	66	48	61
230x68x48		•		230	68	48	63
230x70x48		•		230	70	48	64
230x72x48		•		230	72	48	66
230x76x48		•		230	76	48	70

CRT-800

Tire Size	Guide Type			Track Width [mm]	Number of Links	Pitch Length [mm]	Weight [kg]
	Narrow	Standard	Wide				
230x80x48		•		230	80	48	74
230x82x48		•		230	82	48	75
250x39x72		•		250	39	72	51
250x43x72		•		250	43	72	54
250x45x72		•		250	45	72	59
250x47x72		•		250	47	72	59
250x48x72		•		250	48	72	62
250x52x72		•		250	52	72	84
250x54x72		•		250	54	72	70
250x56x72		•		250	56	72	73
280x56x72		•		280	56	72	82
300x70x52.5	•			300	70	52,5	113
300x72x52.5	•		•	300	72	52,5	116
300x74x52.5	•		•	300	74	52,5	119
300x76x52.5	•		•	300	76	52,5	122
300x76x55.5		•		300	76	55,5	137
300x78x52.5	•		•	300	78	52,5	126
300x78x55.5		•		300	78	55,5	140
300x80x52.5	•		•	300	80	52,5	129
300x82x52.5	•		•	300	82	52,5	132
300x82x55.5		•		300	82	55,5	148
300x84x52.5	•		•	300	84	52,5	135
300x86x52.5	•		•	300	86	52,5	139
300x88x52.5	•		•	300	88	52,5	142
300x90x52.5	•		•	300	90	52,5	145
300x92x52.5	•		•	300	92	52,5	148
300x98x52.5	•			300	98	52,5	158
320x38x100		•		320	38	100	103
320x40x100		•		320	40	100	108
350x53x100		•		350	53	100	208
350x84x56		•		350	84	56	201
350x86x52.5		•		350	86	52,5	168
350x86x54.5		•		350	86	54,5	209
400x70x72.5	•		•	400	70	72,5	255
400x72x72.5	•		•	400	72	72,5	262
400x74x72.5	•		•	400	74	72,5	269
400x74x75.5		•		400	74	75,5	313
400x76x72.5	•		•	400	76	72,5	279
400x82x72.5		•		400	82	72,5	323
420x54x100		•		420	54	100	290

CRT-800 Compact track loader

Compact track loader

CRT-800 Compact

Tire Size	Guide Type		Track Width [mm]	Number of Links	Pitch Length [mm]	Weight [kg]
	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

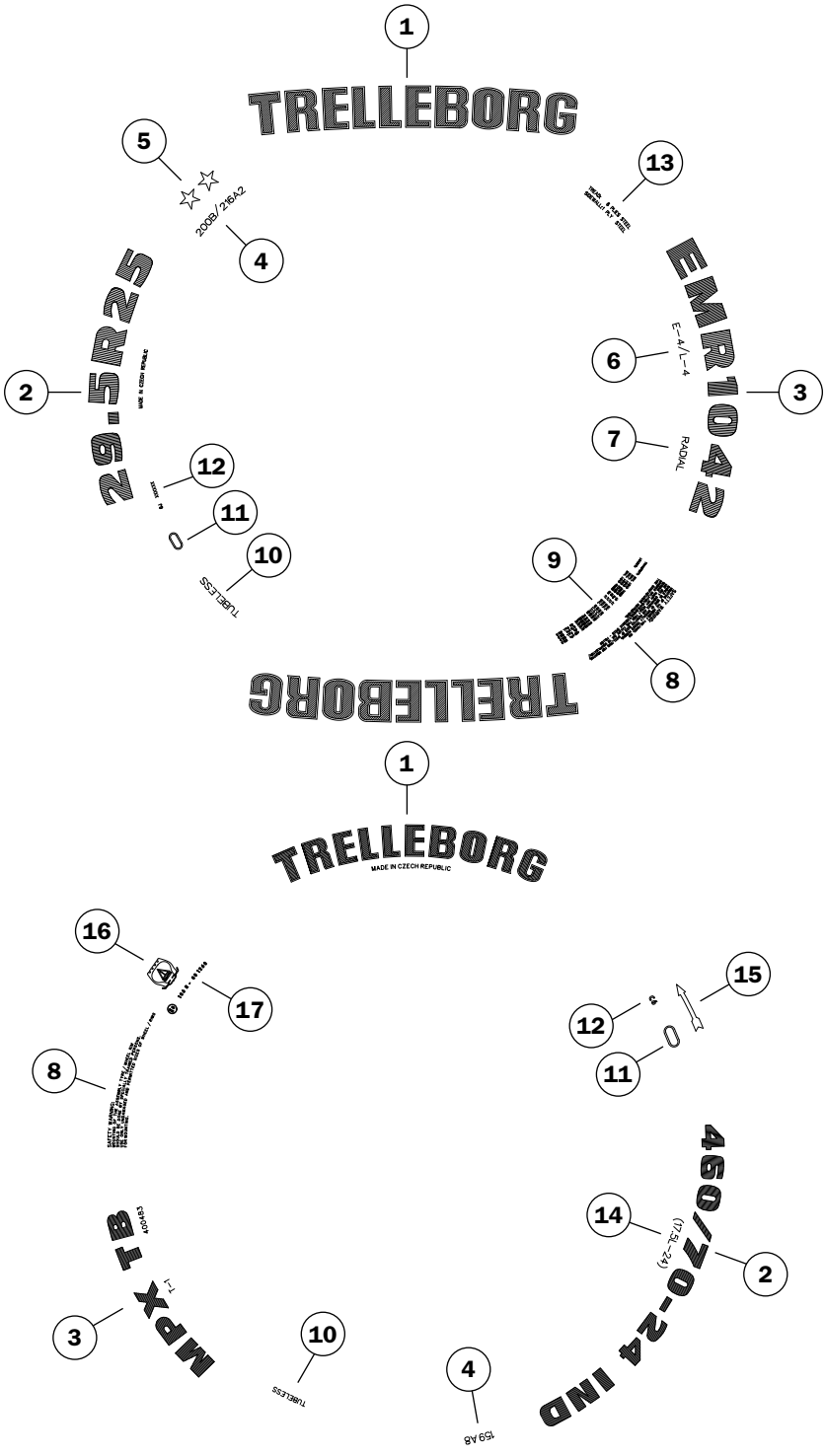
CRT-800 C-Lug CRT-800 All-Season

Track Size	Guide Type		Track Width [mm]	Number of Links	Pitch Length [mm]	Weight [kg]
	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
EMR 10 42
E-4/L-4
6
3
RADIAL
7
2
29.5R25
MADE IN CZECH REPUBLIC
12
11
0
10
TUBELESS
9
8
TRELLEBORG
1
TRELLEBORG
MADE IN CZECH REPUBLIC
16
17
8
12
11
0
15
460/70-24 INDUSTRY
(17.5L-24)
14
2
4
159A8
10
TUBELESS
MPX TB
T-1
3

Speed Symbols and Conversion Tables

Speed Category

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

Pressure Units Conversion Table

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

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

Units Conversion Table

Length
1 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	kg	LI	kg	LI	kg	LI	kg
80	450	117	1.285	154	3.750	191	10.900
81	462	118	1.320	155	3.875	192	11.200
82	475	119	1.360	156	4.000	193	11.500
83	487	120	1.400	157	4.125	194	11.800
84	500	121	1.450	158	4.250	195	12.150
85	515	122	1.500	159	4.375	196	12.500
86	530	123	1.550	160	4.500	197	12.850
87	545	124	1.600	161	4.625	198	13.200
88	560	125	1.650	162	4.750	199	13.600
89	580	126	1. 700	163	4.875	200	14.000
90	600	127	1.750	164	5.000	201	14.500
91	615	128	1.800	165	5.150	202	15.000
92	630	129	1.850	166	5.300	203	15.500
93	650	130	1.900	167	5.450	204	16.000
94	670	131	1.950	168	5.600	205	16.500
95	690	132	2.000	169	5.800	206	17.000
96	710	133	2.060	170	6.000	207	17.500
97	730	134	2.120	171	6.150	208	18.000
98	750	135	2.180	172	6.300	209	18.500
99	775	136	2.240	173	6.500	210	19 000
100	800	137	2.300	174	6.700	211	19.500
101	825	138	2.360	175	6.900	212	20.000
102	850	139	2.430	176	7.100	213	20.600
103	875	140	2.500	177	7.300	214	21.200
104	900	141	2.575	178	7.500	215	21.800
105	925	142	2.650	179	7.750	216	22.400
106	950	143	2.725	180	8.000	217	23.000
107	975	144	2.800	181	8.250	218	23.600
108	1.000	145	2.900	182	8.500	219	24.300
109	1.030	146	3.000	183	8.750	220	25.000
110	1.060	147	3.075	184	9.000	221	25.750
111	1.090	148	3.150	185	9.250	222	26.500
112	1.120	149	3.250	186	9.500	223	27.250
113	1.150	150	3.350	187	9.750	224	28.000
114	1.180	151	3.450	188	10.000	225	29.000
115	1.215	152	3.550	189	10.300	226	30.000
116	1.250	153	3.650	190	10.600	227	30.750

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 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 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 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 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 which 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 centring 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 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.

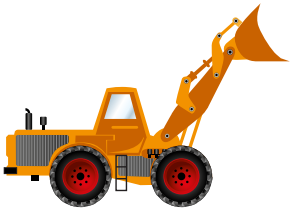
Removing

- Never try to unseat the beads of an inflated 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, 10 km/h and 250m maximum.



Wheeled Loader

Loader Service:

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

Load and Carry Service:

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

Wheeled Digger

Dozer Service:

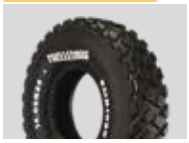
Pushes or grades material
Low speed – up to 10 km/h
Travel distance varies

“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 offer high resistance to cutting.

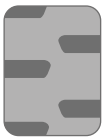
These illustrations show different lug to void ratios.

Traction
Type L-2 Design

Rock Type
L-3 Design

Rock Deep
Type L-4 Design

Extra Rock Deep
Type L-5 Design



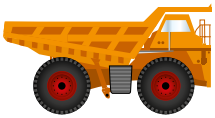
Trelleborg has also developed comparison ratings for “L” series type tires.
Note: The numbers are relative ratings with the L-3 tire rated at 100.
For example, the L-2 tire has 20% better traction than the L-3.
Certain tire construction features and applications can affect these ratings.

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 65 km/h and short distances, up to 40 km 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 65 km/h
Distance up to 40 km (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, 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.

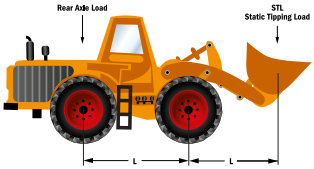
- Determine the maximum load/tire on the front and rear axles

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: 10,000 kg (1)
Rear: 10,700 kg (2)
Total: 20,700 kg (3)

Straight line tipping load: 13,800 kg (4)

Maximum axle load – Front (static*)
(3) + (4) = 34,500 kg or 17,250 kg per tire

Maximum axle load – Rear
(2) = 10,700 kg or 5,350 kg per tire

Base pressures as per table “Variation in load capacity with speed”
Front = 400 kPa (* increase for static load from 10 km/h is 60%, 17,250/1.6=10,780 kg)
Rear = 250 kPa (calculated 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 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 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 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 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 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 Trelleborg Wheel Systems 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 (tonnes-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 Centre – Single well shape rim
DW	Wide Drop Centre – Double well shape rim
SDC	Semi-drop Centre rim
-	Multipiece rim
x	One-piece rim
H2	Double hump
DC	Drop centre 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	Indicated the maximum speed at which the tire can carry a load corresponding to its Load Index under service conditions specified 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 which gives the best fitment of the tire for all conditions and types of service.
RIM (PERMITTED)	Permitted Rim	Any rim which 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 (kg) 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 which differ from those of tires which 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.

TRELLEBORG

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