

An aerial photograph showing a blue tractor with a red plow moving across a field. The tractor is creating a deep furrow in the brown soil, separating it from a lush green field. The text 'GROW FOR GENERATIONS' is overlaid on the image.

GROW

FOR GENERATIONS

SPECIALITY TIRES TECHNICAL BOOK

October 2020

GRI
WE'LL GET YOU THERE

We believe that
farmers who nourish the world,
construction workers who build for the next generation, and
forklift operators who move material to supply our needs,
are **noble**.

We deliver high-grade specialty tires that are built sustainably using pure natural rubber at our advanced production plants in Sri Lanka.

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65 SERIES (R1-W)

RADIAL TIRES FOR
HEAVY DUTY TRACTORS



- High tire volume with low inflation pressure provides high traction and greater soil protection
- Best for soil tillage and on the road applications
- Excellent driving comfort in the field and on the road
- Strong casing, impact belts and special compound for extensive longer life



Tre Size	LI/SI	Type	Rim		Unloaded inflated Dimension ± 2%		SLR	RC ± 2.5%	SRI	Speed	Load Capacity (KG / TIRE)					
					S.W.	O.D.										
			Rec.	Alt.	(Inch)	(Inch)	(Inch)	(Inch)	(Inch)		(Inch)	(Inch)				
24.0																
280/85R24 (11.2R24)	115 A8/B	TL	W 10	W 9	11.5	42.8	19	127	20.7	bar / kmph	0.6	0.8	1.0	1.2	1.4	1.6
										50 / 40	670	780	890	1000	1105	1215
										30	715	830	950	1070	1185	1300
										10LT	900	1045	1190	1340	1485	1630
										10HT	715	830	950	1070	1185	1300
320/85R24 (12.4R24)	122 A8/B	TL	W 11	W 10, W 9	13.0	45.4	20	134.8031	21.7	bar / kmph	0.6	0.8	1.0	1.2	1.4	1.6
										50 / 40	825	960	1095	1235	1365	1500
										30	885	1030	1170	1320	1465	1605
										10LT	1105	1285	1470	1650	1830	2010
										10HT	885	1030	1170	1320	1465	1605
340/85R24 (13.6R24)	125 A8/B	TL	W12	W 11	13.9	46.8	21	139	22.6	bar / kmph	0.6	0.8	1.0	1.2	1.4	1.6
										50 / 40	910	1055	1205	1355	1500	1650
										30	975	1135	1290	1455	1610	1770
										10LT	1220	1420	1615	1820	2015	2215
										10HT	975	1135	1290	1455	1610	1770
380/85R24 (14.9R24)	131 A8/B	TL	W 12	W 11, W 13	15.0	49.4	22	146	23.6	bar / kmph	0.6	0.8	1.0	1.2	1.4	1.6
										50 / 40	1075	1250	1425	1605	1775	1950
										30	1150	1340	1525	1720	1900	2090
										10LT	1440	1675	1910	2150	2380	2615
										10HT	1150	1340	1525	1720	1900	2090
420/85R24 (16.9R24)	137 A8/B	TL	W 15 L	W 14 L, W13	17.2	52.1	23	154	24.6	bar / kmph	0.6	0.8	1.0	1.2	1.4	1.6
										50 / 40	1265	1470	1680	1890	2095	2300
										30	1360	1575	1795	2020	2240	2460
										10LT	1700	1975	2250	2535	2805	3085
										10HT	1360	1575	1795	2020	2240	2460
28.0																
320/85R28 (12.4R28)	124 A8/B	TL	W 11	W 10, W 9	13	49	22	147	24	bar / kmph	0.6	0.8	1.0	1.2	1.4	1.6
										50 / 40	880	1025	1170	1315	1455	1600
										30	945	1100	1250	1410	1560	1715
										10LT	1180	1370	1565	1765	1950	2145
										10HT	945	1100	1250	1410	1560	1715
340/85R28 (13.6R28)	127 A8/B	TL	W12	W 11	13.9	50.7	23	153	24.6	bar / kmph	0.6	0.8	1.0	1.2	1.4	1.6
										50 / 40	965	1120	1280	1440	1595	1750
										30	1030	1200	1365	1540	1705	1875
										10LT	1290	1500	1710	1930	2135	2345
										10HT	1030	1200	1365	1540	1705	1875
380/85R28 (14.9R28)	133 A8/B	TL	W 12	W 11, W 13	14.9	53.4	24	158	25.6	bar / kmph	0.6	0.8	1.0	1.2	1.4	1.6
										50 / 40	1135	1320	1505	1695	1875	2060
										30	1215	1410	1610	1815	2010	2205
										10LT	1520	1765	2015	2270	2510	2760
										10HT	1215	1410	1610	1815	2010	2205
420/85R28 (16.9R28)	139 A8/B	TL	W 15 L	W 14 L, W 13	17.2	56.1	25	166	26.6	bar / kmph	0.6	0.8	1.0	1.2	1.4	1.6
										50 / 40	1335	1555	1775	1995	2210	2430
										30	1430	1665	1900	2135	2365	2600
										10LT	1790	2085	2375	2675	2965	3255
										10HT	1430	1665	1900	2135	2365	2600

TYRE SIZE	LOAD INDEX / SPEED INDEX	TYPE	RIM		Unloaded inflated Dimension ± 2%		SLR	RC ± 2.5%	SRI	SPEED	LOAD CAPACITY (LBS / TIRE)							
					S.W.	O.D.					psi / mph	9	12	15	17	20	23	29
			Rec.	Alt.	(Inch)	(Inch)	(Inch)	(Inch)	(Inch)									
28.0																		
540/65R28	149 D / 152 A8	TL	W 16 L	W 18 L	21	56	25	167	26.6	psi / mph	9	12	15	17	20	23	29	35
										40	3440	4010	4515	5015	5515	5945	6590	7165
										30	3610	4215	4740	5265	5795	6245	6920	7530
										25	3760	4385	4925	5480	6030	6495	7200	7825
										20	3955	4615	5190	5770	6345	6840	7580	8245
										5LT	4610	5375	6050	6720	7395	7970	8835	9600
											3955	4615	5190	5770	6345	6840	7580	8245
600/65R28	154 D / 157 A8	TL	DW 20 B	W 18 L	24	59	26	176	27.6	psi / mph	9	12	15	17	20	23	29	35
										40	3970	4630	5214	5785	6365	6880	7605	8265
										30	4165	4860	5467	6075	6685	7205	7985	8680
										25	4365	5095	5730	6365	7000	7550	8365	9095
										20	4565	5325	5985	6655	7320	7890	8745	9505
										5LT	5375	6205	6978	7755	8530	9195	10190	11080
											4565	5325	5985	6655	7320	7890	8745	9505
30.0																		
540/65R30	150 D / 153 A8	TL	W 16 L	W 18 L	21	57	26	173	28	psi / mph	9	12	15	17	20	23	29	35
										40	3545	4135	4655	5170	5685	6130	6795	7385
										30	3720	4345	4885	5430	5970	6435	7135	7755
										25	3860	4505	5070	5635	6195	6680	7405	8045
										20	4075	4755	5350	5945	6540	7050	7815	8495
										5LT	4750	5540	6235	6930	7620	8215	9105	9895
											4075	4755	5350	5945	6540	7050	7815	8495
34.0																		
540/65R34	152 D / 155A8	TL	W 16 L	W 18 L	22	62	28	187	30	psi / mph	9	12	15	17	20	23	29	35
										40	3760	4390	4940	5480	6030	6500	7210	7850
										30	3960	4610	5180	5760	6340	6830	7570	8220
										25	4100	4780	5390	5990	6580	7100	7860	8540
										20	4330	5050	5680	6300	6940	7480	8290	9010
										5LT	5040	5890	6610	7350	8090	8720	9660	10490
											4330	5050	5680	6300	6940	7480	8290	9010
600/65R34	157 D / 160 A8	TL	D W20B	W18L	24.1	64.7	29	195	30.5	psi / mph	9	12	15	17	20	23	29	35
										40	4365	5095	5735	6370	7010	7550	8370	9095
										30	4595	5360	6030	6690	7365	7940	8800	9560
										25	4765	5555	6250	6945	7640	8235	9130	9925
										20	5025	5865	6595	7330	8060	8690	9635	10465
										5 LT	5855	6835	7685	8545	9395	10120	11225	12195
											5025	5865	6595	7330	8060	8690	9635	10465
38.0																		
540/65R38	153 D / 156 A8	TL	W16L	W18L	20.9	65.6	30	199	31.5	psi / mph	9	12	15	17	20	23	29	35
										40	3870	4510	5070	5635	6205	6680	7410	8050
										30	4070	4740	5335	5920	6515	7025	7785	8455
										25	4235	4940	5555	6175	6790	7320	8115	8820
										20	4455	5195	5845	6485	7135	7695	8520	9260
										5 LT	5180	6055	6800	7565	8315	8965	9935	10795
											4455	5195	5845	6485	7135	7695	8520	9260
600/65R38	159 D / 162 A8	TL	DW 20 B	W 18 L	24	69	31	207	32	psi / mph	9	12	15	17	20	23	29	35
										40	4630	5400	6075	6750	7425	8005	8875	9645
										30	4860	5670	6380	7090	7800	8405	9315	10125
										25	5025	5865	6595	7330	8065	8690	9635	10470
										20	5325	6210	6990	7765	8540	9205	10205	11090
										5LT	6205	7240	8140	9045	9950	10725	11890	12925
											5325	6210	6990	7765	8540	9205	10205	11090

TYRE SIZE	LOAD INDEX / SPEED INDEX	TYPE	RIM		Unloaded inflated Dimension ± 2%		SLR	RC ± 2.5%	SRI	SPEED	LOAD CAPACITY (LBS / TIRE)							
					S.W.	O.D.												
			Rec.	Alt.	(Inch)	(Inch)	(Inch)	(Inch)	(Inch)									
38.0																		
650/65R38	163 D / 166 A8	TL	DW 20 B		25.4	71.3	33	216	34.4	psi / mph	9	12	15	17	20	23	29	35
										40	5160	6020	6770	7525	8275	8920	9890	10745
										30	5415	6320	7110	7900	8690	9365	10380	11285
										25	5610	6545	7360	8180	8995	9700	10750	11685
										20	5935	6920	7785	8650	9515	10260	11370	12360
										5LT	6915	8065	9075	10080	11090	11955	13250	14400
										5HT	5935	6920	7785	8650	9515	10260	11370	12360
650/65R38	168 D / 171 A8	TL	DW 20 B		25	71	33	216	34.4	psi/mph	12	15	17	20	23	35	46	52
										40	6970	7250	7560	7870	8200	9660	11380	12350
										30	7320	7610	7940	8270	8620	10140	11950	12960
										25	7630	7940	8290	8620	8970	10580	12460	13510
										20	8000	8330	8690	9060	9440	11110	13070	14200
										10LT	9260	9660	10050	10470	10910	12850	15120	16420
										10HT	8000	8330	8690	9060	9440	11110	13070	14200
SL	16030	16690	17390	18100	18870	22200	26170	28400										
650/65R38	172 D / 175 A8	TL	DW 20 B		25.4	71.3	33	216	34.4	psi/mph	12	15	17	20	23	35	46	52
										40	7870	8200	8530	8880	9260	10890	12810	13890
										30	8270	8620	8950	9330	9720	11440	13450	14590
										25	8620	8970	9350	9720	10140	11930	14020	15210
										20	9060	9440	9810	10210	10650	12520	14730	15980
										10LT	10470	10910	11350	11820	12320	14480	17040	18470
										10HT	9060	9440	9810	10210	10650	12520	14730	15980
SL	18100	18870	19620	20440	21300	25040	29450	31940										
42.0																		
650/65R42	165 D / 168 A8	TL	DW 20 B		25	75	34	226	36	psi / mph	9	12	15	17	20	23	29	35
										40	5450	6360	7155	7950	8740	9425	10445	11353
										30	5720	6675	7510	8345	9180	9895	10970	11920
										25	5925	6915	7780	8640	9505	10245	11360	12345
										20	6265	7310	8225	9140	10055	10835	12010	13055
										5LT	7305	8520	9585	10650	11715	12630	13995	15215
	6265	7310	8225	9140	10055	10835	12010	13055										

70 SERIES (R1-W)

RADIAL TIRES FOR
HEAVY DUTY TRACTORS



- Suitable for several heavy-duty applications such as soil preparation and road transport
- Wide contact patch ensures excellent traction on all surfaces
- Provides long wear, smooth riding and excellent self-cleaning
- Flexible sidewall provides higher rider comfort for less fatigue and minimum soil compaction



Tire Size	LI/SI	Type	Rim		Unloaded inflated Dimension ± 2%		SLR	RC ± 2.5%	SRI	Speed	Load Capacity (LBS / TIRE)					
					S.W.	O.D.					Load Capacity (LBS / TIRE)					
			Rec.	Alt.	(Inch)	(Inch)	(Inch)	(Inch)	(Inch)		(Inch)	psi / mph	9	12	15	17
24.0																
360/70R24	122 A8/ B	TL	W 11	W 10, W12	14.1	45.4	20	134	21.7	psi / mph	9	12	15	17	20	23
										30	1820	2115	2415	2725	3010	3305
										25	1820	2115	2415	2725	3010	3305
										20	1950	2270	2590	2910	3220	3540
										5LT	2435	2835	3235	3640	4030	4430
										5HT	1950	2270	2590	2910	3220	3540
380/70R24	125 A8/ B	TL	W 12	W 11, W13	15.0	46.9	21	140	22.6	psi / mph	9	12	15	17	20	23
										30	2000	2330	2655	2985	3310	3640
										25	2000	2330	2655	2985	3310	3640
										20	2140	2500	2855	3195	3540	3890
										5LT	2680	3120	3560	4000	4435	4885
										5HT	2140	2500	2855	3195	3540	3890
420/70R24	130 A8/ B	TL	W 13	W 12 , W14 L	16.5	49.1	22	145	23.6	psi / mph	9	12	15	17	20	23
										30	2305	2680	3060	3445	3810	4190
										25	2305	2680	3060	3445	3810	4190
										20	2475	2880	3275	3690	4080	4480
										5LT	3085	3590	4095	4610	5110	5615
										5HT	2475	2880	3275	3690	4080	4480
480/70R24	138 A8/ B	TL	W 15 L	W 14 L , W 16 L	18.9	51.8	23	153	24.6	psi / mph	9	12	15	17	20	23
										30	2860	3330	3800	4275	4735	5205
										25	2860	3330	3800	4275	4735	5205
										20	3065	3570	4070	4575	5065	5565
										5LT	3835	4460	5090	5730	6345	6970
										5HT	3065	3570	4070	4575	5065	5565
28.0																
380/70R28	127 A8/ B	TL	W 12	W 11 , W13	15.0	50.9	23	153	24.6	psi / mph	9	12	15	17	20	23
										30 / 25	2120	2470	2815	3175	3510	3860
										20	2271	2640	3015	3395	3755	4130
										5LT	2845	3310	3775	4255	4705	5170
										5HT	2270	2640	3015	3395	3755	4130
										420/70R28	133 A8/ B	TL	W 13	W 12 , W14 L	16.5	53.1
30 / 25	2500	2905	3315	3735	4135	4540										
20	2680	3115	3550	4000	4420	4860										
5LT	3345	3895	4440	5005	5540	6085										
5HT	2680	3115	3550	4000	4420	4860										
480/70R28	140 A8/ B	TL	W 15 L	W 14 L , W 16 L	18.9	55.9	25	165	26.6							
										30 / 25	3030	3525	4025	4530	5015	5510
										25	3030	3525	4025	4530	5015	5510
										20	3250	3780	4310	4850	5365	5895
										5LT	4060	4725	5390	6074	6720	7385
										5HT	3250	3780	4310	4850	5365	5895

Tre Size	LI/SI	Type	Rim		Unloaded inflated Dimension ± 2%		SLR	RC ± 2.5%	SRI	SPEED	LOAD CAPACITY (LBS / TIRE)										
					S.W.	O.D.															
			Rec.	Alt.	(Inch)	(Inch)	(Inch)	(Inch)	(Inch)												
30.0																					
420/70R30	134 A8/ B	TL	W 13	W 12 , W14 L	16.5	55	24.8	164.3	26.6	psi / mph	9	12	15	17	20	23					
										30 / 25	2570	2990	3410	3845	4255	4675					
										25	2570	2990	3410	3845	4255	4675					
										20	2760	3210	3655	4110	4550	5000					
										5LT	3445	4010	4570	5150	5700	6265					
										5HT	2760	3210	3650	4110	4550	5000					
480/70R30	141 A8/ B	TL	W 15 L	W 14 L , W 16 L	19	58	25.9	170	28	psi / mph	9	12	15	17	20	23					
										30 / 25	3120	3635	4145	4665	5165	5675					
										25	3120	3635	4145	4665	5165	5675					
										20	3350	3895	4435	4995	5530	6075					
										5LT	4185	4870	5555	6250	6920	7605					
										5HT	3350	3895	4435	4995	5530	6075					
600/70R30	152D	TL	DW 20 B	DW 18 L , W18L	23	63	28	188	30	psi / mph	9	12	15	17	20	23					
										40	4310	5020	5720	6430	7130	7830					
										30	4530	5270	6010	6750	7480	8220					
										25	4720	5490	6260	7030	7800	8580					
										20	4960	5760	6580	7390	8200	9010					
										5 LT	5780	6720	7660	8610	9560	10490					
										5 HT	4960	5760	6580	7390	8200	9010					
600/70R30	152 A8/ B	TL	DW 20 B	DW18 L , W18L	23.3	63.1	28	188	29.5	psi / mph	9	12	15	17	20	23					
										30 / 25	4305	5010	5715	6435	7120	7825					
										25	4305	5010	5715	6435	7120	7825					
										20	4610	5370	6120	6890	7620	8375					
										5LT	5770	6710	7655	8620	9545	10485					
										5HT	4610	5370	6120	6890	7620	8375					
34.0																					
480/70R34	149 A8/ B	TL	W 15 L	W 14 L , W 16 L	19	62	28	187	30	psi / mph	9	12	15	17	20	23					
										30 / 25	3370	3870	4440	5015	5590	6160					
										20	3610	4150	4760	5370	5980	6595					
										5LT	4510	5185	5955	6721	7490	8255					
										5HT	3610	4150	4760	5370	5980	6595					
520/70R34	148 A8/ B	TL	W 16 L	W 15 L , W 18 L	20	65	29	193	31	psi / mph	9	12	15	17	20	23					
										30 / 25	3820	4445	5070	5710	6320	6945					
										20	4100	4765	5425	6105	6760	7430					
										5LT	5120	5955	6795	7650	8470	9305					
										5HT	4100	4765	5425	6105	6760	7430					
38.0																					
480/70R38	145 A8/ B	TL	W 15 L	W 14 L , W 16 L	19	66	30	197	31	psi / mph	9	12	15	17	20	23					
										30 / 25	3515	4090	4665	5260	5820	6395					
										20	3760	4380	4995	5620	6225	6840					
										5LT	4710	5485	6255	7045	7795	8565					
										5HT	3760	4380	4995	5620	6225	6840					
520/70R38	150 A8/ B	TL	W 16 L	W 15 L , W 18 L	20	69	31	209	32	psi / mph	9	12	15	17	20	23					
										30 / 25	4060	4725	5390	6075	6720	7385					
										20	4355	5070	5775	6495	7190	7900					
										5LT	5445	6335	7225	8135	9005	9895					
										5HT	4355	5070	5775	6495	7190	7900					
580/70R38	155 A8/ B	TL	W 18 L		23	72	32	217	34	psi / mph	9	12	15	17	20	23					
										30 / 25	4700	5465	6235	7020	7775	8545					
										20	5030	5855	6680	7505	8320	9140					
										5LT	6295	7325	8355	9415	10415	11445					
										5HT	5030	5855	6680	7505	8320	9140					

Tre Size	LI/SI	Type	Rim		Unloaded inflated Dimension ± 2%		SLR	RC ± 2.5%	SRI	SPEED	LOAD CAPACITY (LBS / TIRE)									
					S.W.	O.D.														
			Rec.	Alt.	(Inch)	(Inch)	(Inch)	(Inch)	(Inch)											
38.0																				
710/70R38	166 A8/ B	TL	DW 23 B		28	77	34	226	36	psi / mph	9	12	15	17	20	23				
										30 / 25	6525	7480	8530	9600	10635	11685				
										20	6890	8010	9125	10275	11375	12500				
										5LT	8610	10030	11445	12865	14250	15655				
										5HT	6890	8010	9125	10275	11375	12500				
710/70R38	171 D/174 A8	TL	DW 23 B		28	77	34	226	36	psi/mph	9	12	15	17	20	23	29	35		
										40	6380	7330	8410	9490	10580	11660	12750	13560		
										30	6700	7690	8840	9980	11110	12260	13390	14240		
										25	6940	7980	9160	10340	11530	12710	13890	14770		
										20	7340	8430	9680	10920	12170	13410	14670	15600		
										5 LT	8550	9820	11280	12730	14190	15640	17100	18180		
										5 HT	7340	8430	9680	10920	12170	13410	14670	15600		
										42.0										
										620/70R42	160 D/ B	TL	DW 20 B	-	25	76	34	226	36	psi/mph
40	5730	6670	7610	8540	9480	10420														
30	5730	6670	7610	8540	9480	10420														
25	5990	6970	7940	8920	9900	10870														
20	6280	7310	8330	9360	10380	11410														
5 LT	7320	8510	9710	10900	12100	13290														
620/70R42	160 A8/ B	TL	DW 20 B	-	24.6	76.2	34	226	36.4	psi / mph	9	12	15	17	20	23				
										30 / 25	5460	6350	7240	8130	9030	9900				
										20	5840	6800	7750	8710	9670	10610				
										5LT	7320	8510	9710	10900	12100	13290				
										5HT	5840	6800	7750	8710	9670	10610				
710/70R42	173 A8/ B	TL	DW 23 B		28	81	36	243	38	psi / mph	9	12	15	17	20	23				
										30 / 25	6735	7735	8885	10031	11175	12325				
										20	7210	8280	9505	10733	11960	13185				
										5LT	9025	10370	11905	13441	14980	16515				
										5HT	7210	8280	9505	10733	11960	13185				

85 SERIES (R1-W)

RADIAL TIRES FOR
HEAVY DUTY TRACTORS



- Featuring outstanding traction and driving comfort on and off the road
- New tie bar design prevents center lug cracks when the load is high
- Cut and wear resistant compound increases productivity and delivers extensive tire life
- Ideal for long working hours in the fields

Tre Size	LI/SI	Type	Rim		Unloaded inflated Dimension ± 2%		SLR	RC ± 2.5%	SRI	Speed	LOAD CAPACITY (LBS / TIRE)					
					S.W.	O.D.										
			Rec.	Alt.	(Inch)	(Inch)	(Inch)	(Inch)	(Inch)		(Inch)	psi / mph	9	12	15	17
24.0																
280/85R24 (11.2R24)	115 A8/ B	TL	W 10	W 9	11.5	42.8	19	127	20.7	psi / mph	9	12	15	17	20	23
										30 / 25	1475	1720	1960	2205	2435	2680
										20	1575	1830	2095	2360	2610	2865
										5LT	1985	2305	2625	2955	3275	3595
										5HT	1575	1830	2095	2360	2610	2865
320/85R24 (12.4R24)	122 A8/ B	TL	W 11	W 10 , W 9	13.0	45.4	20	134.8031	21.7	psi / mph	9	12	15	17	20	23
										30 / 25	1820	2115	2415	2720	3005	3300
										20	1950	2270	2580	2910	3220	3535
										5LT	2435	2830	3240	3635	4035	4430
										5HT	1950	2070	2580	2910	3220	3535
340/85R24 (13.6R24)	125 A8/ B	TL	W12	W 11	13.9	46.8	21	139	22.6	psi / mph	9	12	15	17	20	23
										30 / 25	2005	2325	2655	2985	3305	3640
										20	2150	2500	2845	3210	3550	3900
										5LT	2690	3130	3560	4010	4440	4885
										5HT	2150	2500	2845	3210	3550	3900
380/85R24 (14.9R24)	131 A8/ B	TL	W 12	W 11, W 13	15.0	49.4	22	146	23.6	psi / mph	9	12	15	17	20	23
										30 / 25	2370	2755	3140	3540	3910	4300
										20	2535	2955	3360	3790	4190	4605
										5LT	3175	3695	4210	4740	5245	5765
										5HT	2535	2955	3360	3790	4190	4605
420/85R24 (16.9R24)	137 A8/ B	TL	W 15 L	W 14 L , W13	17.2	52.1	23	154	24.6	psi / mph	9	12	15	17	20	23
										30 / 25	2800	3240	3705	4165	4620	5070
										20	2985	3470	3955	4455	4940	5425
										5LT	3745	4355	4960	5590	6185	6800
										5HT	2985	3470	3955	4455	4940	5425
28.0																
320/85R28 (12.4R28)	124 A8/ B	TL	W 11	W 10 , W 9	13	49	22	147	24	psi / mph	9	12	15	17	20	23
										30 / 25	1940	2260	2580	2900	3210	3525
										20	2085	2425	2755	3110	3440	3780
										5LT	2600	3020	3450	3890	4300	4730
										5HT	2085	2425	2755	3110	3440	3780
340/85R28 (13.6R28)	127 A8/ B	TL	W12	W 11	13.9	50.7	23	153	24.6	psi / mph	9	12	15	17	20	23
										30 / 25	2120	2470	2815	3175	3515	3850
										20	2270	2640	3015	3395	3765	4130
										5LT	2845	3310	3775	4255	4705	5170
										5HT	2270	2640	3015	3395	3765	4130
380/85R28 (14.9R28)	133 A8/ B	TL	W 12	W 11, W 13	14.9	53.4	24	158	25.6	psi / mph	9	12	15	17	20	23
										30 / 25	2500	2905	3315	3735	4135	4540
										20	2675	3110	3545	4000	4420	4860
										5LT	3345	3895	4440	5005	5540	6085
										5HT	2675	3110	3545	4000	4420	4860
420/85R28 (16.9R28)	139 A8/ B	TL	W 15 L	W 14 L , W 13	17.2	56.1	25	166	26.6	psi / mph	9	12	15	17	20	23
										30 / 25	2945	3430	3915	4400	4870	5360
										20	3155	3670	4190	4705	5215	5730
										5LT	3945	4595	5235	5895	6535	7175
										5HT	3155	3670	4190	4705	5215	5730

Tre Size	LI/SI	Type	Rim		Unloaded inflated Dimension ± 2%		SLR	RC ± 2.5%	SRI	SPEED	LOAD CAPACITY (LBS / TIRE)					
					S.W.	O.D.										
			Rec.	Alt.	(Inch)	(Inch)	(Inch)	(Inch)	(Inch)							
30.0																
380/85R30 (14.9R30)	135 A8/ B	TL	W 12	W 11, W 13	15.0	55.4	25	164	26.6	psi / mph	9	12	15	17	20	23
										30 / 25	2645	3075	3505	3945	4375	4800
										20	2835	3295	3760	4235	4685	5150
										5LT	3540	4125	4695	5290	5865	6440
										5HT	2835	3295	3760	4235	4685	5150
420/85R30 (16.9R30)	140 A8/ B	TL	W 15 L	W 14 L, W13	17.2	58.1	26	173	27.6	psi / mph	9	12	15	17	20	23
										30 / 25	3030	3525	4025	4530	5015	5510
										20	3245	3775	4310	4850	5365	5895
										5LT	4060	4725	5390	6075	6720	7385
										5HT	3245	3775	4310	4850	5365	5895
460/85R30 (18.4R30)	145 A8/ B	TL	W 16 L	W 14 L, W15 L	18.7	60.8	27	179	28.5	psi / mph	9	12	15	17	20	23
										30 / 25	3515	4090	4665	5260	5820	6390
										20	3760	4375	4995	5625	6230	6845
										5LT	4705	5480	6250	7045	7795	8565
										5HT	3760	4375	4995	5620	6230	6845
480/80R30	145 A8/ B	TL	W 16 L	W14L,W15L	18.7	68.8	31	204	32.5	psi / mph	9	12	15	17	20	23
										30	3520	4105	4675	5250	5825	6395
										20	3775	4390	5010	5625	6245	6850
										5LT	4720	5495	6265	7035	7810	8580
										5HT	3775	4390	5010	5625	6245	6850
34.0																
380/85R34 (14.9R34)	137 A8/ B	TL	W 12	W 11, W13	15.0	59.4	27	177	28.5	psi / mph	9	12	15	17	20	23
										30 / 25	2790	3241	3700	4165	4615	5080
										20	2985	3470	3960	4455	4935	5425
										5LT	3735	4350	4965	5590	6185	6795
										5HT	2985	3470	3960	4455	4935	5425
420/85R34 (16.9R34)	142 A8/ B	TL	W 15 L	W 14 L, W13	17.2	62.1	28	184	29.5	psi / mph	9	12	15	17	20	23
										30 / 25	3220	3735	4265	4805	5315	5840
										20	3440	4000	4565	5140	5690	6250
										5LT	4310	5015	5710	6435	7120	7825
										5HT	3440	4000	4565	5140	5690	6250
460/85R34 (18.4R34)	147 A8/ B	TL	W 16 L	W 14 L, W15 L	18.7	64.8	28	192	30.5	psi / mph	9	12	15	17	20	23
										30 / 25	3730	4340	4950	5580	6170	6780
										20	3990	4640	5295	5965	6600	7255
										5LT	4995	5815	6630	7465	8265	9085
										5HT	3990	4640	5295	5965	6600	7255
38.0																
340/85R38 (13.6R38)	133 A8/ B	TL	W12	W 11	13.9	60.7	28	182	29.5	psi / mph	9	12	15	17	20	23
										30 / 25	2500	2910	3320	3735	4135	4540
										20	2670	3110	3550	4000	4420	4860
										5LT	3350	3890	4440	5005	5535	6085
										5HT	2670	3110	3550	4000	4420	4860
420/85R38 (16.9R38)	144 A8/ B	TL	W 15 L	W 14 L, W13	17.2	66.1	30	197	31.5	psi / mph	9	12	15	17	20	23
										30 / 25	3395	3945	4510	5070	5620	6150
										20	3635	4220	4830	5425	6010	6605
										5LT	4550	5290	6040	6800	7530	8265
										5HT	3635	4220	4830	5425	6010	6605
460/85R38 (18.4R38)	149 A8/ B	TL	W 16 L	W 14 L, W 15 L	18.7	68.8	31	203	32.5	psi / mph	9	12	15	17	20	23
										30 / 25	3940	4585	5236	5885	6526	7160
										20	4215	4905	5595	6305	6975	7665
										5LT	5280	6140	7010	7890	8735	9600
										5HT	4215	4905	5595	6305	6975	7665
480/80R38	149 A8/ B	TL	W 16 L	W 14 L, W 15 L	18.7	68.8	30.7	204.4	32.5	psi/mph	9	12	15	17	20	23
										30	3950	4590	5240	5890	6530	7170
										20	4225	4910	5605	6310	6980	7675
										5LT	5285	6145	7015	7895	8745	9605
										5HT	4225	4910	5605	6310	6980	7675
520/85R38 (20.8R38)	155 A8 / B	TL	DW 16 L	DW 18 L, DD 16 L	20.3	72.8	32	212.3	34.4	psi / mph	9	12	15	17	20	23
										30 / 25	4695	5465	6240	7020	7770	8545
										20	5025	5855	6670	7505	8320	9140
										5LT	6295	7330	8355	9415	10415	11455
										5HT	5025	5855	6670	7505	8320	9140
650/85R38	173 D /176 A8	TL	DW 23 B	DW 21B, DW20 B	26.6	81.5	36.8	243.5	38.4	psi / mph	9	12	15	17	20	23
										40	6880	8025	9030	10030	11035	11895
										30	7220	8420	9480	10530	11585	12490
										25	7515	8765	9860	10955	12055	12990
										20	7915	9225	10385	11535	12685	13680
										5LT	9215	10760	12090	13440	14780	15940
										5HT	7915	9225	10385	11535	12685	13680

Tre Size	LI/SI	Type	Rim		Unloaded inflated Dimension ± 2%		SLR	RC ± 2.5%	SRI	SPEED	LOAD CAPACITY (LBS / TIRE)					
					S.W.	O.D.										
			Rec.	Alt.	(Inch)	(Inch)	(Inch)	(Inch)	(Inch)							
42.0																
480/80R42 (18.4R42)	151 A8/ B	TL	DW 16 L	W 16 L , DD 16 L	18.9	72.2	32.9	214.9	34.4	psi / mph	9	12	15	17	20	23
										30 / 25	4190	4870	5555	6250	6920	7605
										20	4475	5215	5940	6690	7405	8135
										5LT	5610	6525	7440	8375	9270	10195
										5HT	4455	5215	5940	6690	7405	8135
520/85R42 (20.8R42)	157 A8 / B	TL	DW 16 A, W 16 A	DW 18 A ,DW 18A, W18 A	20.3	76.8	33.8	225.8	36.4	psi / mph	9	12	15	17	20	23
										30 / 25	5005	5820	6635	7475	8280	9095
										20	5355	6230	7100	8005	8850	9735
										5LT	6700	7805	8895	10020	11090	12190
										5HT	5355	6230	7100	8005	8850	9735
46.0																
480/80R46 (18.4R46)	158 A8/ B	TL	DW 16 L	W 16 L , DD 16 L	18.9	76.2	35.2	231.1	36.4	psi / mph	9	12	15	17	20	23
										30 / 25	4410	5060	5810	6560	7308	8060
										20	4710	5415	6225	7020	7815	8620
										5LT	5900	6780	7785	8785	9788	10805
										5HT	4710	5415	6225	7020	7815	8620
520/85R46 (20.8R46)	158 A8 / B	TL	DW 16 L, W 16 A	DD 18 L,W 18 L, W 18 A	20.3	80.8	37.0	241.0	38.4	psi / mph	9	12	15	17	20	23
										30 / 25	5160	5995	6845	7705	8530	9370
										20	5510	6415	7320	8245	9125	10030
										5LT	6900	8035	9160	10320	11420	12555
										5HT	5510	6415	7320	8245	9125	10030
50.0																
480/80R50 (18.4R50)	159 A8/ B	TL	DW 16 L	W 16 L , DD 16 L	18.9	80.2	37.0	242.4	38.4	psi / mph	9	12	15	17	20	23
										30 / 25	4535	5210	5980	6755	7525	8295
										20	4850	5575	6400	7220	8050	8875
										5LT	6075	6980	8015	9050	10080	11115
										5HT	4850	5575	6400	7220	8050	8875

FT1 (FT2)

BIAS TIRES FOR TRACTORS



- Optimized rib design for easy driving both on and off roads
- More rubber in raised centre rib provides best direction stability
- Strong sidewall ensures better stability in rough operation.
- Penetration resistant compound minimizes air leaking in tubeless tire

Tire Size	PR	TT / TL	RIM		Unloaded inflated Dimension ± 2%		SLR	RC ± 2%	At Speed 30 kmph (20 mph)			At Speed 40 kmph (25 MPH)			Inflation Pressure
					SW	OD			Speed Index	Load Index	MAX. LOAD	Speed Index	Load Index	MAX. LOAD	
			Rec. inch	Alt. inch	inch	inch	inch	inch	(lbs)	(lbs)	(lbs)	PSI			
16.0															
5.50-16	6	TT / TL	4.00E	3.5D,4.5E	6	28	13	84	A6	86	1170	A8	78	940	56
6.00-16	10	TT	4.50E	4.00E,4.25KA	7	27	14	86	A6	98	1650	A8	95	1520	80

FT2 (F2)

BIAS FRONT TIRES BUILT
FOR TRACTORS



- Specially designed for 2WD tractors in soil tillage and transport applications
- Unique tread design offering excellent self-cleaning properties
- Built with special cut and chip resistance tread compound

TYRE SIZE	PR	TT / TL	RIM		Unloaded Inflated Dimension		SLR	RC	At Speed 30 kmph (20 mph)			At Speed 40 kmph (25 MPH)			Inflation Pressure
					SW	OD			Speed Index	Load Index	MAX. LOAD (lbs)	Speed Index	Load Index	MAX. LOAD (lbs)	
			Rec. inch	Alt. inch	± 2 % Inch	± 2 % Inch	Inch	± 2.5 % inch							Kpa
16															
5.00-16	6	TT	4.00E	3.00D,4J,4 1/2J	6	27	13	80	A6	84	1100	A8	76	880	410
5.50-16	6	TT	4.00E	3.5D,4.5E	6	28	13	84	A6	86	1170	A8	78	935	370
6.00-16	8	TT	4.50E	4.00E,4.25KA	6	29	13	87	A6	94	1477	A8	91	1355	450
6.00-16	6	TT	4.50E	4.00E,4.25KA	6	29	13	87	A6	88	1234	A8	85	1135	360
6.50-16	6	TT	4.50E	4.00E,4.25KA	7	30	14	90	A6	91	1355	A8	88	1234	330
7.50-16	6	TT	5.50F	6LB	8	32	14	98	A6	98	2095	A8	94	1477	300
7.50-16	8	TT	5.50F	6LB	8	32	14	98	A6	102	1930	A8	99	1565	390
9.00-16	10	TT	W8	6.00F,W7,W8L	9	33	16	100	A6	116	2755	A8	111	2405	410
10.00-16	10	TL	W8L	8LB	11	35	16	106	A6	119	2680	A8	111	2405	340
18															
7.50-18	8	TT	5.50F	-	8	34	16	103	A6	106	2094	A8	102	1873	390
20															
6.50-20	6	TT	5.00F	4E,5.5F	7	34	16	101	A6	97	1610	A8	93	1433	310
7.50-20	6	TT	5.50F	5.0F	8	36	17	107	A6	103	1930	A8	99	1565	280
7.50-20	8	TT	5.50F	5.0F	8	36	17	107	A6	108	2204	A8	105	2039	385

FT3 (F2M)

BIAS FRONT TIRES BUILT FOR TRACTORS



- A front wheel tire designed for 2WD tractors in soil tillage applications
- Best suited for farming operations requiring a high level of handling
- Unique tread design guarantees high flotation and less soil compaction
- High-density tread rubber provides long tire life



Tire Size	PR	TT / TL	RIM		Unloaded Inflated Dimension		SLR	RC	At Speed 30 kmph (20 mph)			At Speed 40 kmph (25 MPH)			Inflation Pressure	
					SW	OD			Speed Index	Load Index	MAX. LOAD (lbs)	Speed Index	Load Index	MAX. LOAD (lbs)		
			Rec. inch	Alt. inch	± 2 % Inch	± 2 % Inch	Inch	± 2.5 %							Kpa	Bar
15																
9.5L-15	8	TL	8LB	-	9	31	14	92	A6	105	2039	A8	102	1870	330	3
11L-15	8	TL	8LB	10LB	11	31	15	93	A6	103	1929	A8	106	2095	303	3
16																
10.00-16	10	TL	W 8 L	8 L B	10.8	35	16	106	A 6	117	2835	A8	114	2600	330	3
11.00-16	10	TL	10 LB	W 8, W 8 L	12.4	38	18	114	A6	123	3415	A8	120	3085	360	4
16.1																
14L-16.1	12	TL	16.1 x W11C	-	14	39	18	115	A6	130	4190	A8	127	3860	360	4

RT100 (R1)

BIAS TIRES BUILT FOR
TRACTORS



- Designed for soil preparation and spraying applications
- Dual angle lug design provides all round capabilities in on and off road applications
- Strong nylon casing offers better power transmission
- Higher Number of Lugs for higher traction and stability

TYRE SIZE	PR	TL / TT	RIM		Unloaded Inflated Dimension		SLR	RC	Speed Index	Load Index	MAX. LOAD @20MPH	Inflation Pressure	
					SW	OD						lbs	kPa
			± 2 % Inch	± 2 % Inch	Inch	± 2.5 % inch							
24.0													
8.3-24	8	TT	W7	-	8.3	39.2	18.5	117.5	A 6	105	2035	310	3.1
9.5-24	8	TT	W 8	W 7,W8H	9.5	41.6	19.4	122.7	A 6	112	2464	280	2.8
11.2-24	8	TT	W 10	W 9	11.2	43.5	20.3	127.9	A 6	116	2750	240	2.4
12.4-24	8	TT	W 11	W 9, W 10	12.4	45.7	21.1	138.7	A 6	121	3190	230	2.3
12.4-24	12	TT	W 11	W 9, W 10	12.4	45.7	21.1	138.7	A 6	128	3968	350	3.5
13.6-24	8	TT	W 12	W 11	13.6	47.6	22.0	140.0	A 6	123	3410	200	2.0
14.9-24	8	TT	W 13	W 11, W 12	14.9	49.8	23.0	146.4	A 6	128	3960	180	1.8
14.9-24	12	TT	W 13	W 11, W 12	14.9	49.8	23.0	146.4	A 6	136	4928	260	2.6
16.9-24	8	TT	W 15 L	W 14 L	16.9	52.5	24.0	155.0	A 6	133	4540	170	1.7
26.0													
18.4-26	12	TT	W 16 L	W 15 L	18.4	57.1	26.1	168.4	A 6	146	6600	230	2.3
28.0													
11.2-28	8	TT	W 10	W 9	11.2	47.4	22.2	139.0	A 6	118	2904	240	2.4
12.4-28	8	TT	W 11	W 9, W 10	12.4	49.6	23.2	145.8	A 6	123	3410	230	2.3
12.4-28	12	TT	W 11	W 9, W 10	12.8	49.6	23.2	145.8	A 6	131	4290	350	3.5
13.6-28	8	TT	W 12	W 11	13.6	51.6	24.2	158.7	A 6	125	3630	200	2.0
13.6-28	12	TT	W 12	W 11	13.6	51.6	24.2	158.7	A 6	134	4664	300	3.0
14.9-28	8	TT	W 13	W 11, W 12	14.9	53.7	25.0	158.0	A 6	130	4180	180	1.8
14.9-28	12	TT	W 13	W 11, W 12	14.9	53.7	25.0	158.0	A 8	137	5060	260	2.6
16.9-28	8	TT	W 15 L	W 14 L	16.9	55.9	25.8	169.7	A 6	135	4796	170	1.7
16.9-28	12	TT	W 15 L	W 14 L	16.9	56.5	25.8	169.7	A 6	143	5995	240	2.4
30.0													
16.9-30	8	TT	W 15 L	W 14 L	16.9	58.5	27.0	177.2	A 6	137	5060	170	1.7
16.9-30	10	TT	W 15 L	W 14 L	16.9	58.5	27.0	177.2	A 6	139	5346	200	2.0
18.4-30	8	TT	W16L	W 15 L	18.1	60.8	27.8	186.7	A 6	139	5355	140	1.4
18.4-30	12	TT	W16L	W 15 L	18.1	60.8	27.8	186.7	A 6	149	7165	230	2.3
18.4-30	14	TT	W16L	W 15 L	18.1	60.8	27.8	186.7	A 6	151	7605	260	2.6
32.0													
12.4-32	8	TT	W 11	W 9 W 10	12.4	53.5	25.2	157.4	A 6	124	3520	230	2.3
34.0													
16.9-34	8	TT	W 15 L	W 14 L	16.9	62.4	29.1	183.1	A 6	139	5346	170	1.7
18.4-34	8	TT	W 16 L	W 15 L	18.4	65.0	30.2	190.9	A 6	142	5830	140	1.4
18.4-34	10	TT	W 16 L	W 15 L	18.4	65.0	30.2	190.9	A 6	146	6600	180	1.8
18.4-34	12	TT	W 16 L	W 15 L	18.4	65.0	30.2	190.9	A 6	151	7590	230	2.3
38.0													
13.6-38	8	TT	W 12	W 11	13.6	61.6	29.1	181.1	A 6	131	4290	200	2.0
15.5-38	8	TT	W 14 L		15.6	62.4	29.4	183.5	A 6	133	4532	180	1.8
16.9-38	8	TT	W 15 L	W 14 L	16.9	66.3	31.0	195.0	A 6	141	5665	170	1.7
18.4-38	8	TT	W 16 L	W 15 L	18.4	68.9	32.1	202.6	A 6	143	5995	140	1.4
18.4-38	12	TT	W 16 L	W 15 L	18.4	68.9	32.1	202.6	A 6	153	8030	230	2.3
20.8-38	10	TT	W18L	W16L	20.9	72.2	33.5	212.4	A 6	152	7825	150	1.5

GW100

BIAS TIRES BUILT
FOR UTILITY TRACTORS



- The wide and deep lug design provides an extended tire service life
- Features maximum traction on wet soil as well as superior self-cleaning properties and a strong nylon casing

Tire Size	PR	TL / TT	Rim		Unloaded Inflated Dimension		SLR	RC	Speed Index	Load Index	MAX. LOAD @20MPH	Pressure	
					SW	OD						(lbs)	Kpa
			Rec. inch	Alt. inch	± 2 % Inch	± 2 % Inch	Inch	± 2.5 % inch					
14.0													
7-14	8	TT	5JA	5KB	7.2	27.2	18.5	82.6	A 6	94	1507	400	4

F77 (HF-3)

FLOTATION RADIAL TIRES
FOR HEAVY DUTY TRAILERS



- Offers high load carrying capacity at low inflation pressure
- Lug contact at center line ensures smooth and comfortable run on the road
- Strong nylon casing and special tread compound offers high wear resistance
- Reinforced bead offers superior stability
- Low rolling resistance leads to excellent fuel efficiency

TYRE SIZE	LI/PI	TYPE	Rim		Uninflated Dimension ± 2%		SLR	RC ± 2.5%	SRI	Speed	Load Capacity (LBS / TIRE)									
			Rec.	Alt.	S.W.	O.D.					(Inch)	(Inch)	(Inch)	(Inch)	(Inch)					
					(Inch)	(Inch)	(Inch)	(Inch)	(Inch)							(Inch)	(Inch)	(Inch)	(Inch)	(Inch)
22.5																				
560/60R22.5	161 D / 172 A8	TL	AG 16.00	16.00 , 17.00 , AG 20	21	49	22	149	24	psi/mph	17	23	29	35	40	46	52	58		
										45	3900	4670	5490	6260	7020	7805	8545	9290		
										40	4280	5130	6025	6870	7710	8565	9380	10195		
										30	5180	6205	7290	8315	9325	10365	11350	12335		
										25	5835	6985	8210	9360	10500	11665	12780	13890		
										15	6765	8105	9520	10860	12180	13530	14820	16110		
										5	7710	9230	10845	12370	13875	15415	16885	18355		
560/60R22.5	165D/176A8	TL	AG 16.00	16.00 , 17.00 , AG 20	21	49	22	149	24	psi/mph	17	23	29	35	40	46	52	58		
										45	4240	5280	6010	6930	7860	8590	9410	10340		
										40	4660	5800	6590	7620	8630	9420	10340	11350		
										30	5640	7010	7980	9210	10450	11420	12510	13750		
										25	6340	7880	8960	10350	11740	12820	14050	15440		
										15	7360	9160	10420	12030	13650	14900	16340	17940		
										5	8390	10430	11860	13700	15540	16960	18610	20440		

FL700 (HF-2)

FLOTATION BIAS TIRES BUILT FOR HEAVY DUTY TRAILERS



- Suitable for field, road transport and spreading operations
- Specially designed to carry heavy loads at low inflation pressure
- Unique tire design offering riding comfort, low rolling resistance, better machine stability both on and off road
- Reinforced bead provides high load carrying capacity

TYRE SIZE	PR	TT / TL	RIM		Unloaded Inflated Dimension		SLR	RC	Load Index PR Symbol	Inflation Pressure bar	Recomended Load									
					SW	OD					Speed				Free Rolling					
			Rec. inch	Alt. inch	± 2 % Inch	± 2 % Inch	Drive Wheel				Free Rolling									
							10 Km/h	25 Km/h			40 Km/h	50 Km/h	10 Km/h	25 Km/h	40 Km/h	50 Km/h				
15.5																				
400/60-15.5	18	TL	AG 13.00		16	34	15	101			149/A8/ FR	3.9	2870	2450	2060	1850	4050	3450	2900	2620
											145/B/ FR	4.1	2980	2540	2140	1920	4210	3580	3010	2720
											137/A8/ DW	4.3	3100	2640	2220	1990	4380	3720	3130	2820
											133/B/ DW	4.5	3220	2740	2300	2070	4550	3870	3250	2930
											Cyclic	6.3	4610	3920	3290	2970	5460	4650	3900	3510
22.5																				
500/45-22.5	16	TL	AG 16.00		20	41	18	122			154/A8/ FR	3	3310	2820	2370	2140	4670	3970	3330	3000
											150/B/ FR	3.2	3440	2930	2460	2220	4850	4130	3460	3120
											142/A8/ DW	3.4	3570	3040	2550	2300	5040	4290	3600	3240
											138/B/ DW	3.6	3710	3160	2650	2390	5240	4460	3740	3370
											Cyclic	5.04	5310	4520	3790	3420	6290	5350	4490	4050
500/50-22.5	16	TL	AG 16.00		20	42	19	126			158/A8/ FR	2.4	3740	3190	2680	2410	5270	4490	3770	3400
											154/B/ FR	2.6	3890	3310	2780	2500	5480	4670	3920	3530
											146/A8/ DW	2.8	4040	3440	2890	2600	5700	4850	4070	3670
											142/B/ DW	3	4200	3570	3000	2700	5930	5040	4230	3810
											Cyclic	4.2	6010	5110	4290	3870	7120	6050	5080	4580
500/50-22.5	20	TL	AG 16.00		20	42	19	126			163/A8/ FR	3.2	4300	3660	3080	2770	6070	5170	4340	3910
											159/B/ FR	3.4	4470	3800	3200	2880	6310	5370	4510	4060
											151/A8/ DW	3.6	4650	3950	3320	2990	6560	5580	4690	4220
											147/B/ DW	3.8	4830	4110	3450	3110	6820	5800	4870	4390
											Cyclic	5.32	6920	5880	4940	4450	8190	6970	5850	5270
500/60-22.5	16	TL	AG 16.00	15.00,17.00	19.7	46.1	19	126			163/A8/ FR	2.5	4300	3660	3080	2770	6070	5170	4340	3910
											159/B/ FR	2.7	4470	3800	3200	2880	6310	5370	4510	4060
											151/A8/ DW	2.9	4650	3950	3320	2990	6560	5580	4690	4220
											148/B/ DW	3.1	4830	4110	3450	3110	6820	5800	4870	4390
											Cyclic	4.34	6920	5880	4940	4450	8190	6970	5850	5270
550/45-22.5	16	TL	AG 16.00		22	42	19	126			159/A8/ FR	2.2	3840	3260	2740	2470	5420	4600	3870	3480
											156/B/ FR	2.4	3990	3390	2850	2570	5630	4780	4020	3620
											147/A8/ DW	2.6	4150	3520	2960	2670	5850	4970	4180	3760
											144/B/ DW	2.8	4310	3660	3075	2770	6080	5170	4340	3910
											Cyclic	3.92	6160	5240	4400	3960	7300	6200	5210	4690

TYRE SIZE	PR	TT / TL	RIM		Unloaded Inflated Dimension		SLR	RC	Load Index PR Symbol	Inflation Pressure bar	Recomended Load							
					SW	OD					Speed							
			Rec. inch	Alt. inch	± 2 % Inch	± 2 % Inch	Inch	± 2.5 % inch			Drive Wheel				Free Rolling			
											10 Km/h	25 Km/h	40 Km/h	50 Km/h	10 Km/h	25 Km/h	40 Km/h	50 Km/h
22.5																		
550/60-22.5	16	TL	AG 16.00		22	49	21	147	166/A8/ FR	2.4	4680	3980	3340	3010	6600	5610	4710	4250
									162/B/ FR	2.6	4860	4140	3470	3130	6860	5830	4900	4420
									154/A8/ DW	2.8	5050	4300	3610	3250	7130	6060	5090	4590
									150/B/ DW	3	5250	4470	3750	3380	7410	6300	5290	4770
									Cyclic	4.2	7520	6400	5370	4840	8890	7560	6350	5720
600/50-22.5	16	TL	AG 20.00		24	46	20	138	165/A8/ FR	2	4550	3880	3250	2940	6410	5450	4580	4130
									161/B/ FR	2.2	4730	4030	3380	3050	6660	5670	4760	4290
									153/A8/ DW	2.4	4920	4190	3510	3170	6930	5900	4950	4460
									149/B/ DW	2.6	5110	4350	3650	3290	7210	6130	5150	4640
									Cyclic	3.64	7310	6220	5220	4700	8660	7360	6180	5570
600/50-22.5	18	TL	AG 20.00		24	46	20	138	167/A8/ FR	2.2	4830	4110	3450	3110	6820	5790	4870	4390
									163/B/ FR	2.4	5020	4270	3590	3230	7090	6020	5060	4560
									155/A8/ DW	2.6	5220	4440	3730	3360	7370	6260	5260	4740
									151/B/ DW	2.8	5430	4620	3875	3490	7660	6510	5470	4930
									Cyclic	3.92	7770	6610	5550	5000	9200	7820	6570	5920
600/55-22.5	16	TL	AG 20.00		24	48	21	146	169/A8/ FR	2	4980	4240	3560	3210	7030	5970	5020	4520
									166/B/ FR	2.2	5180	4410	3700	3330	7310	6210	5220	4700
									156/A8/ DW	2.4	5390	4580	3850	3460	7600	6460	5430	4890
									153/B/ DW	2.6	5600	4760	4000	3600	7900	6720	5800	5080
									Cyclic	3.64	8010	6810	5720	5150	9480	8060	6770	6100
700/40-22.5	16	TL	AG 24.00		28	46	20	139	166/A8/ FR	1.6	4680	3980	3340	3010	6600	5610	4710	4250
									162/B/ FR	1.8	4860	4140	3470	3130	6860	5830	4900	4420
									154/A8/ DW	2	5050	4300	3610	3250	7130	6060	5090	4590
									150/B/ DW	2.2	5250	4470	3750	3380	7410	6300	5290	4770
									Cyclic	3.08	7520	6400	5370	4840	8890	7560	6350	5720

FL800 (HF-2)

FLOTATION BIAS TIRES BUILT FOR HEAVY DUTY TRAILERS



- Suitable for field and road transport
- Provides high flotation capability and reduce soil compaction
- Reinforced sidewall offers excellent machine stability
- Optimum land/sea ratio for improved traction, longer wear and extensive tire life
- Offers high load carrying capacity at low inflation pressure

TYRE SIZE	PR	TT / TL	RIM		Unloaded Inflated Dimension		SLR	RC	Load capacity Free Rolling Wheel				Load capacity Drive Rolling Wheel				Inflation Pressure		
					SW	OD			40km/h (25 mph)		50km/h (30 mph)		40km/h (25 mph)		50km/h (30 mph)				
									± 2 %	± 2 %	A8 Load Index	MAX. LOAD (lbs)	B Load Index	MAX. LOAD (lbs)	A8 Load Index	MAX. LOAD (lbs)			B Load Index
			Rec. inch	Alt. inch	Inch	± 2.5 %	Inch	Inch	Kpa	Bar									
22.5																			
600/50-22.5	16	TL	AG 20.00	-	23.6	46.1	20	138	165	11355	161	10195	153	8050	149	7165	258	2.6	

IR200 (R1)

BIAS TIRES BUILT FOR
IRRIGATION APPLICATIONS



- Specially designed for irrigation requirements
- Dual lug angle provides superior traction with minimum slippage
- Optimum Land to Sea Ratio for excellent self cleaning and better fuel economy

TYRE SIZE	PR	TT / TL	RIM		Unloaded Inflated Dimension		SLR	RC	At Speed 30 kmph (20 mph)			Inflation Pressure		
					SW	OD			Speed Index	Load Index	MAX. LOAD (lbs)			
			Rec. inch	Alt. inch	± 2 % Inch	± 2 % Inch	Inch	± 2.5 % inch				Kpa	Bar	
24														
11.2-24	6	TL	W 10	W 9	11.2	42.9	20	126	A 6	110	2335	180	1.8	
14.9-24	6	TL	W13	W11,12	14.9	49.0	23	144	A 6	123	3415	135	1.35	
14.9-24	8	TL	W13	W12	14.9	49.0	23	145	A6	128	3969	180	1.8	
38														
11.2-38	6	TL	W 10	W 9	11.2	56.9	27	167	A 6	117	2827	180	1.8	
11.2-38	4	TL	W 10	W 9	11.2	56.9	27	167	A 6	109	2266	130	1.3	

I100 (I-1)

BIAS TIRES BUILT FOR
IMPLEMENT APPLICATIONS



- Designed for free rolling wheels on wagons, hay balers, seeders and fertilizer spreaders
- Heavily grooved ribs offers easy steering

TYRE SIZE	PR	TT / TL	RIM		Unloaded Inflated Dimension		SLR	RC	Load Capacity			Inflation Pressure		
					SW	OD			Speed Index	Load Index	MAX. LOAD			
			Rec. inch	Alt. inch	± 2 % Inch	± 2 % Inch	Inch	± 2.5 % inch			lbs	Kpa	Bar	
14														
9.5L-14SL	8	TL	8 KB	-	9	29	13	85	B	112	2405	300	3	
11L-14	8	TL	8 KB	-	11	30	13	88	B	112	2285	250	3	
15														
5.90-15	4	TL	4 1/2 KB	5KB	6	26	12	77	B	85	1140	250	3	
6.70-15SL	6	TL	4 1/2 KB	5KB	6	28	12	82	B	120	3080	390	4	
9.5L-15SL	8	TL	8LB	-	9	30	13	88	D	112	2470	303	3	
9.5L-15SL	12	TL	7	8KB	9	30	13	88	D	121	3200	440	4	
11L-15SL	8	TL	8LB	10LB	11	30	13	89	D	113	2535	248	2	
11L-15SL	12	TL	8 LB	10 LB	11	30	13	89	D	121	3200	360	4	
12.5L-15SL	12	TL	10LB	-	12	32	14	95	D	127	3860	359	4	
31/13.50-15	10	TL	10 LB	-	14	31	14	95	B	120	3086	282	3	
7.60-15SL	8	TL	6LB	-	8	29	13	85	D	106	1923	280	3	
16														
12.5L-16SL	12	TL	10LB	W10L	12	33	15	97	D	128	3968	360	4	
16														
14L-16.1	10	TL	W 14 C	-	14	37	109	16	B	130	3859	200	2	
14L-16.1	12	TL	W 14 C	-	14	37	109	16	B	134	4690	300	3	

RIB3 (IMP)

BIAS TIRES BUILT FOR
IMPLEMENT APPLICATIONS



- Designed for implements and trailers in soil tillage applications
- Offers high load carrying capacity and minimum soil compaction
- Shoulder block design promotes excellent field traction

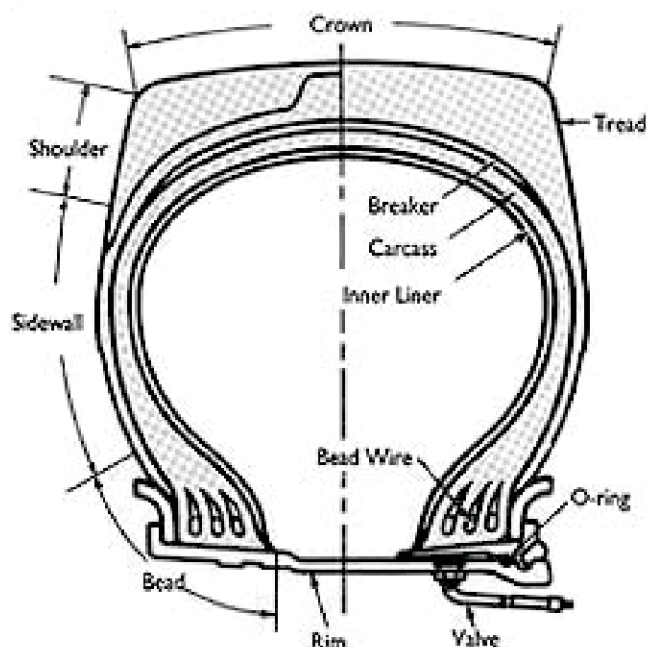
TYRE SIZE	PR	TT / TL	RIM		Unloaded Inflated Dimension		SLR	RC	Speed Radius Index	LOAD CAPACITY FREE ROLLING WHEEL						Inflation Pressure	
					SW	OD				30 kmph (20 mph) HLW			40 kmph (25MPH) HLW				
										± 2 %	± 2 %	Speed Index	Load Index	MAX. LOAD	Speed Index		
			Rec. inch	Alt. inch	Inch	± 2.5 % inch	Inch	Index		Index	lbs	Index	Index	lbs	KPA	Bar	
15.3																	
10.0/75-15.3	10	TL	9		11	30	14	88	14	A6	134	4674	A8	130	4190	550	6
10.0/75-15.3	14	TL	9		11	30	14	88	14	A6	136	4940	A8	130	4190	710	7
10.0/75-15.3	18	TL	9		11	30	14			A6	139	5357	A8	135	4806	550	6
11.5/80-15.3	10	TL	9		12	33	15	97	16	A6	135	4806	A8	131	4299	340	3
11.5/80-15.3	12	TL	9		12	33	15	97		A6	139	5357	A8	135	4806	410	4
11.5/80-15.3	14	TL	9		12	33	15	97	16	A6	143	6007	A8	139	5357	470	5
11.5/80-15.3	18	TL	9		12	33	15	97	16	A6	147	6779	A8	143	6007	610	6
12.5/80-15.3	14	TL	9		12	35	15	102	17	A6	147	6780	A8	142	5840	580	6
12.5/80-15.3	16	TL	9		12	35	15	102	17	A6	150	7385	A8	146	6615	650	7
18.0																	
12.5/80-18	12	TL	W9	11	12.1	38	17	111	19	A6	148	6945	A8	142	5840	500	5
12.5/80-18	16	TL	W9	11	12.1	38	17	111	19	A6	154	8265	A8	150	7385	650	7



TECHNICAL INFORMATION

BASIC TIRE AND RIM SPECIFICATIONS

TIRE CONSTRUCTION AND COMPONENTS



Tread:

Tread is the outermost covering of the tire, and is the only part that normally comes in contact with the road surface.

Carcass:

The carcass of tires consists of a number of rubber-coated layers of fabric/steel called "plies". The carcass forms a semi rigid frame for the compressed air in a tire, but is flexible enough to absorb some shocks and jolts from the road surface.

Bead:

Bead fixes the tire to the rim to support the load.

Breaker/ Belts:

It is the rubber coated layers of fabric/steel cord between the tread and the carcass, binding the two together. The breaker prevents cuts in the tread from reaching the carcass and helps absorb shocks.

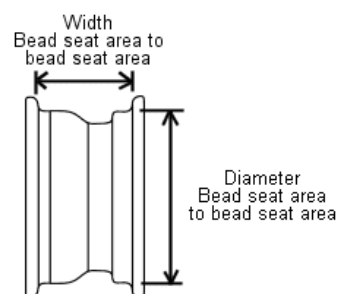
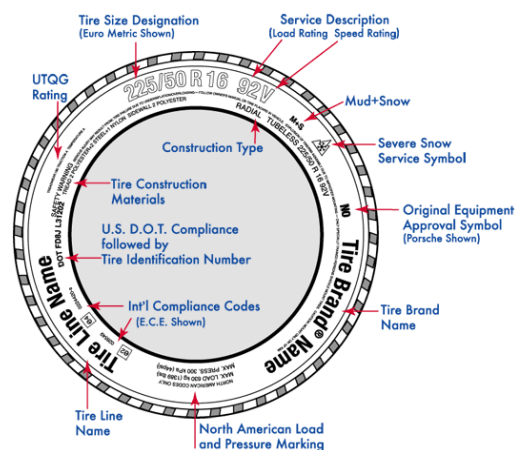
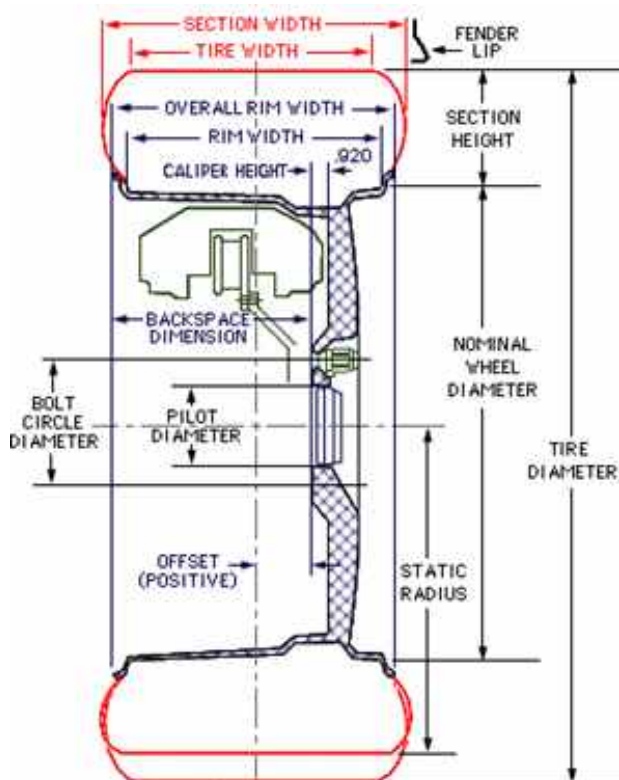
Sidewall:

The sidewall is composed of a flexible, crack-resistant rubber, and protects the carcass from damage.

Inner Liner:

The inner liner is made of an air-impermeable rubber compound and is comparable to tubes in tube type tires.

TIRE DEFINITIONS



Overall Diameter (OD)

Inflated diameter of the tire under reference tire pressure, but with no vehicle load.

Overall Width (OW)

Inflated width of the tire under reference tire pressure on the sidewalls.

Section Width (SW)

Inflated width of the tire under reference tire pressure excluding any bars, letters or design embossed on the sidewalls.

Section Height (SH)

The distance from the bead to the tread face.

Section Height = $\frac{\text{Overall Tire Diameter} - \text{Nominal Rim Diameter}}{2}$

Static Loaded Radius (SLR)

It is the minimum radius acquired by the tire under reference load and pressure at static condition. This is the distance from the vehicle hub centerline to the ground when the tire is inflated and when the tire supports the vehicle load.

Tread Width

This is the distance measured from the inner tread shoulder to the outer tread shoulder.

Aspect Ratio (AR)

This refers to the tire's section height in relation to its section width, as a percentage. For example, a 60 series tire features a sidewall that's 60 percent as tall as the tire's section width. Aspect Ratio = $(\text{Nominal section height} / \text{Section width}) \times 100$

Nominal Rim Diameter

Outer diameter of bead seat area of rim flange.

Tire Size

The size of each tire is indicated by nominal section width and bead diameter in inches. Bias or cross ply construction is indicated by " - " and Radial construction is indicated by the letter "R".

Example:

Bias construction: 12.4-24; 24.00-35; 10.00-20 etc.

Radial construction: 360/70R24; 10.00R20; 26.5R25 etc.

UNITS & CONVERSIONS

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	Mass	Pressure
1 millimeter (mm) = 0.03937"	1 pound (lb) = 0.4536 kg	1 p.s.i. (lb/in ²) = 6.895 kPa
1 inch (") = 25.4 mm = 0.0254 m	1 kilogram (kg) = 2.205 lb	1 kg/cm ² = 98.066 kPa
1 meter (m) = 3.281 ft		1 bar = 100 kPa
1 foot (ft) = 0.3048 m		
1 kilometer (km) = 0.6214 mile		
1 mile = 1609 m = 1.609 km		
	Volume	
	1 litre (l) = 0.21 gall	
	1 imperial gallon (imp.gal) = 4.55 l	

SPEED SYMBOL

The Speed Symbol indicates the maximum speed at which the tire can carry a load corresponding to its load index, under specified conditions.

SPEED RATING	(KM/H)	(MPH)	SPEED RATING	(KM/H)	(MPH)	SPEED RATING	(KM/H)	(MPH)
A1	5	3	D	65	40	Q	160	100
A2	10	6	E	70	43	R	170	106
A3	15	9	F	80	50	S	180	112
A4	20	12	G	90	56	T	190	118
A5	25	16	J	100	62	U	200	124
A6	30	19	K	110	68	H	210	130
A7	35	22	L	120	75	V	240	149
A8	40	25	M	130	81	W	270	168
B	50	31	N	140	87	Y	300	186
C	60	37	P	150	94	(Y)	300+	186+

LOAD INDEX

Index	Kg	Index	Kg	Index	Kg	Index	Kg	Index	Kg	Index	Kg	Index	Kg
0	45	40	140	80	450	120	1,400	160	4,500	200	14,000	240	45,000
1	46.2	41	145	81	462	121	1,450	161	5,625	201	14,500	241	46,250
2	47.5	42	150	82	475	122	1,500	162	4,750	202	15,000	242	47,500
3	48.7	43	155	83	487	123	1,550	163	5,875	203	16,000	243	48,750
4	50	44	160	84	500	124	1,600	164	5,000	204	16,000	244	50,000
5	51.5	45	165	85	515	125	1,650	165	5,150	205	16,500	245	51,500
6	53	46	170	86	530	126	1,700	166	5,300	206	17,000	246	53,000
7	54.5	47	175	87	545	127	1,750	167	5,450	207	17,500	247	54,500
8	56	48	180	88	560	128	1,800	168	5,600	208	18,000	248	56,000
9	58	49	185	89	580	129	1,850	169	5,800	209	18,500	249	58,000
10	60	50	190	90	600	130	1,900	170	6,000	210	19,000	250	60,000
11	61.5	51	195	91	615	131	1,950	171	6,150	211	19,500	251	61,500
12	63	52	200	92	630	132	2,000	172	6,300	212	20,000	252	63,000
13	65	53	206	93	650	133	2,060	173	6,500	213	20,600	253	65,000
14	67	54	212	94	670	134	2,120	174	6,700	214	21,200	254	67,000
15	69	55	218	95	690	135	2,180	175	6,900	215	21,800	255	69,000
16	71	56	224	96	710	136	2,240	176	7,100	216	22,400	256	71,000
17	73	57	230	97	730	137	2,300	177	7,300	217	23,000	257	73,000
18	75	58	236	98	750	138	2,360	178	7,500	218	23,600	258	75,000
19	77.5	59	243	99	775	139	2,430	179	7,750	219	24,300	259	77,500
20	80	60	250	100	800	140	2,500	180	8,000	220	25,000	260	80,000
21	82.5	61	257	101	825	141	2,575	181	8,250	221	25,750	261	82,500
22	85	62	265	102	850	142	2,650	182	8,500	222	26,500	262	85,000
23	87.5	63	272	103	878	143	2,725	183	8,750	223	27,250	263	87,500
24	90	64	280	104	900	144	2,800	184	9,000	224	28,000	264	90,000
25	92.5	65	290	105	925	145	2,900	185	9,250	225	29,000	265	92,500
26	95	66	300	106	950	146	3,000	186	9,500	226	30,000	266	95,000
27	97.5	67	307	107	975	147	3,075	187	9,750	227	30,750	267	97,500
28	100	68	315	108	1,000	148	3,150	188	10,000	228	31,500	268	100,000
29	103	69	325	109	1,030	149	3,250	189	10,300	229	32,500	269	103,000
30	106	70	335	110	1,060	150	3,350	190	10,600	230	33,500	270	106,000
31	109	71	345	111	1,090	151	3,450	191	10,900	231	34,500	271	109,000
32	112	72	355	112	1,120	152	3,550	192	11,200	232	35,500	272	112,000
33	115	73	365	113	1,150	153	3,650	193	11,500	233	36,500	273	115,000
34	118	74	375	114	1,180	154	3,750	194	11,800	234	37,500	274	118,000
35	121	75	387	115	1,215	155	3,875	195	12,150	235	38,750	275	121,500
36	125	76	400	116	1,250	156	4,000	196	12,500	236	40,000	276	125,000
37	128	77	412	117	1,285	157	4,125	197	12,850	237	41,250	277	128,500
38	132	78	425	118	1,320	158	4,250	198	13,200	238	42,500	278	132,000
39	136	79	437	119	1,360	159	4,375	199	13,600	239	43,750	279	136,000

CONVERSION TABLE

Tire Size Correspondences GRI						
Rim	SRI	Standard Bias	Standard Radial 80/95	L Radial	L Radial	Row Crop
				70/75	65/60	90/95
24	525	11.2-24	280/85R24	320/70R24		300/80R24
	550	12.4-24	320/85R24	360/70R24		340/80R24
	575	13.6-24	340/85R24	380/70R24	440/65R24*	
	600	14.9-24	380/85R24	420/70R24	480/65R24*	230/95R32*
	625	16.9-24	420/85R24	480/70R24	540/65R24*	270/95R32
28	600	12.4-28	320/85R28	360/70R28		230/95R32*
	625	13.6-28	340/85R28	380/70R28	440/65R28*	270/95R32*
	650	14.9-28	380/85R28	420/70R28	480/65R28*	
	675	16.9-28	420/85R28	480/70R28	540/65R28*	270/95R36*
30	675	14.9-30	380/85R30	420/70R30	540/65R28*	440/80R28
	700	16.9-30	420/85R30	480/70R30	540/65R30*	270/95R38*
	700				600/65R28*	
	725	18.4-30	460/85R30		600/65R30*	230/95R42*
	725		480/80R30			
34	725	14.9-34	380/85R34			480/80R34
	750	16.9-34	420/85R34	480/70R34	540/65R34*	230/95R44*
	775	18.4-34	460/85R34	520/70R34	600/65R34*	270/95R44*
36	700	12.4-36	320/85R36	480/70R30*	540/65R30*	
38	750	13.6-38	340/85R38	600/70R30*	540/65R34*	
	800	16.9-38	420/85R38	480/70R38	540/65R38*	230/95R48*
	800			600/70/R34*		
	825	18.4-38	460/85R38	520/70R38	600/65R38*	270/95R48*
	825			650/75R32*		300/95R46*
	875	20.8-38	520/85R38	580/70R38	650/65R38*	380/90R46*
875		480/80R42	800/65R32*		340/85R48*	
42	925	20.8-42	520/85R42	620/70R42	900/60R32*	300/95R52*
	925			710/70R38	650/65R42*	270/95R54
	925	18.4-46	480/80R46			
46	975	20.8-46	520/85R46	710/70R42*		
	975		650/85R38*	800/70R38*		
50	975	18.4-50	480/80R50			

Sizes in the grey shaded boxes are not available at present in GRI product range
 Sizes with asterisks (*) calls for rim change

TIRE MOUNTING & REMOVAL

General instructions

Tire fitting and removal can be dangerous. Only specially trained operators using proper tools and procedures are requested to perform mounting & dismounting activity. If not done by a qualified personnel or correct procedures, these operations may cause visible or invisible damage to the tire and rim, which may result in breakdown during subsequent use and also create a serious risk for operator's safety.

In exceptional cases where these operations cannot be carried out by an expert, tire mounting and removal must be performed by carefully following the instructions specially provided.

- The tire to be fitted must be the correct type and size for the vehicle concerned and the intended use should be ensured.
- Particular attention must be paid to the compatibility of the rim and tire centering.
- For high powered tractors, check that the rims for the drive wheels feature a knurling in the bead seat, which can avoid the tires slippage on the rim during moments of high traction, thus eliminating the risk of shearing of the valve.
- Painting on the bead seats of rims for drive wheels with epoxy resin paints should be avoided. In the case of rims with a special finish, carefully rasp and renew the protection with a normal anti-rust treatment.
- New tires should also have all other parts (inner tube, flap, valve sealing ring) new.
- For dual fitting, use only tires of the same size & dimensions, structure and groove depth and comply with the dual spacing specified for the size used.
- Used tires should be checked from both external and internal side for water, moisture, foreign bodies or any sign of rust. If damage is found and assessed to be irreparable, the tire should be scrapped.
- The rim must be clean and in good condition, especially if it has already been used.

Tire cleaning & maintenance

- Rims and rim components with rust, deformed, damaged or re-welded should be discarded.
- Special care to be taken for not damaging any parts of the tire or tube during fitting and removal.
- Always use the proper specialized equipment and tools and the approved type of lubricant (never use silicone or petroleum-base lubricants).
- Tire bead area and the contact area between the rim and the tire should be cleaned.
- Tire, tube and the flap compatibility should be as per standards.
- For TUBE TYPE tires, there should not be any air between the tire and inner tube.
- For correct fitting of tube type tires, it is advisable to lightly powder and partially inflate the tube before placing it inside the tires in order to avoid creasing.
- It should be ensure that the tire is centred on the rim.

Lubrication procedure

- The rim bead seat, rim flange and tire bead should be lubricated with an high quality, quick drying, fitting lubricant made for agricultural tires or in case of emergency, soap and water.
- The fitting lubricant with these characteristics reduces also the risk of the tire slipping on the rim. If this advice is not followed, bead damage or fracture could occur during fitting and/or rim slippage during normal operation, which may cause premature tire failure.
- For application of lubricants a soft-bristled brush to be used.
- Silicone & other solvent-based substances should be avoided.

Tire mounting procedure

Note: Mount and remove tires on DW type rims on the flange nearer the lower well (irrespective of valve position).

For Tubeless

- Fasten the valve core housing in the valve hole.
- Fit the tire on the rim, placing the inner bead over the flange at the top. Be sure the bead is not "hung up" on the bead seat flange. It should move into the rim well.

For Tube type

- Pull the tire towards the outside of the rim as far as possible in order to make room for the tube.
- Before inserting the tube in the tire, ensure that the valve is positioned at the bottom of the wheel. Align the stem with the valve hole and place the tube in the tire, starting at the bottom. Place the valve in the valve hole and screw the rim nut in place. Be sure that the tube is well inside the rim.

For Both Tube type & Tubeless

- Starting at the top, use the fitting tools to lift the outer bead up and over the rim flange, then down into the rim well. After positioning the first section of the outer bead in the rim well, place one hand against the section to hold it in place and then use the other hand to pry the remainder of the bead over the flange with the fitting tools.
- Centre the tire on the rim. This is extremely important in order to prevent broken beads and assist the correct positioning the bead on the rim bead seat during inflation.

Procedure During tire inflation

- Keep a safe distance, always use a safety cage, if possible anchored to the wall and/or the floor, or with retaining chains if no cage is available, the fitter must ensure that no part of his body is in the possible trajectory of the valve mechanism or the caps during inflation (See the red dotted area shown in figures 1,2,3 which shows the risk region for personnel during these operations).



Figure 01



Figure 02



Figure 03

- Do not leave equipment on the sidewall of the tire laid flat
- Correct & tested pressure limitation gauges is to be used only.
- Use a filter and dehumidifier (or drier) on the compressed air line in order to avoid the entry of humidity/dirt

Steps for tire inflation

Step 1

Max inflation pressure

- 1,5 bar for tires with tire diameter 15" or less
- 1,0 bar for all other tires
- For wheels with BLS (tire lock) separate instructions must be followed. Ensure that the beads are correctly positioned on the bead seat. If not, deflate the tire and centre it on the rim.

- Step 3

After inflating up to max. bead seating pressure, the pressure must be adjusted to appropriate shipment or service pressure before removal from the safety device. Adjustment to service pressure with a safety device (safety cage or distance filling).

In cases in which service pressure is higher than:

- 4 bar for a tire with 5 bar - bead seating pressure
- 3 bar for a tire with 3,5 bar - bead seating pressure
- 2 bar for tire with 2,5 bar - bead seating pressure

The tire must firstly be inflated to a pressure 20% higher than the service air pressure and then adjusted to service pressure.

- 5 bar for tires mounted on 15-degree rims
- 3,5 bar for Radial tractor tires
- 2,5 bar for All other Agricultural tires fitted on 5-degree rims

Final Checking after mounting

- Tire beads to be checked whether properly positioned on the rim seats or not.
- It is important to inflate the tire to the max. Bead seating pressure. This is to ensure the proper fit of the tire against the rim.
- If the beads are not correctly seated it is necessary to deflate, lubricate and inflate again. Repeat these operations until the beads are correctly seated.

Removal procedure

- Tires should never be tried to remove in inflated conditions.
- Tire should be Deflate by removing the valve core. After deflating, remove the rim nut and push the valve through the valve hole (for tube type tires).
- After the complete deflation of tire, hydraulic "bead unseating" tool to be placed between the tire bead and rim flange and bead to be removed off from the bead seat.
- Lubricate the tire bead and the rim flange area with specific lubricants.
- Bead to be pushed off at the bottom of the wheel into the well with sufficient force. Insert tire lever under the bead at the top of the wheel and carefully slide the bead over the rim flange.
- Bead section to be hold now over the flange with a tire lever and use another to slide the next section over the flange.
- Carefully pry the rest of the inside bead over the rim flange, ensuring that the bead area at the top of the tire is down in the well of

TIRE TRANSPORTATION

Wrong method of transporting a tire can cause serious damage. A proper care to be taken to insure that the bead & inner part of the tire in not getting damaged. Small bead damages can cause a serious issue of air leakage resulting under inflation and possible separation of the tire components.

It is highly advised to observe the below recommendations during tire transportation or handling, in order to reduce the risk of damages or problems:

- Tire should not be lifted with a crane hook by leverage on the bead.
- Steel slings, chains or ropes should not be used for lifting & carrying the tires.
- Large fibered straps, rubber slings or specific belts can be used.
- Forklift is recommended for transport of tires, where tire is to be lifted under tread and not on the bead.
- Complete wheels shipped from the warehouse are usually inflated to the following shipment pressures:
- 1.0 bar for tractor and garden tractor wheels
- 1.5 bar for implement wheels
- 2.0 bar for other wheels
- Above shipment pressures to be adjusted to the correct level according to the Technical Data tables, before use.

TIRE STORAGE

A special care should be taken during the storage of tires in order to prevent the tires from possible damages by deformation, abrasion & chemical reactions.

- Storage placed should be dry & cool.
- Tires should not be exposed for prolong duration to direct sunlight.
- Tires should be kept away from heat and ozone sources (electric motors, transformers, arc welding stations etc.), grease, petrol, volatile solvents or other substances that may deteriorate the rubber & caused changes in chemical properties.
- Avoid horizontal storage for tires (whether radial or cross-ply). It should always be stored vertically side by side.
- Small tires if stored flat, the position must be lug against lug.
- Tires should not be stored directly on ground for longer duration and stock should be turn over periodically.
- Inflation pressure should be reduced when tires are stored after being mounted on rims.
- It is advisable to protect tires from ultra-violet rays and weather effects with a waterproof tarpaulin.
- During storage, care to be taken that there is no water or moisture inside the tire.
- Inner Tubes, O-rings and Flaps should never be hung up or suspended. It should always be stored on shelves.

TIRE LIFE & FAILURE

Regular inspection and maintenance of the tires increases service life. During the daily visual inspection of the tires, it is important to note any damage, such as splinters and large gashes or pin hole damage that causes moisture to penetrate the tire shell. Any such damage should be repaired without causing a separation (external rubber releasing from the tire shell). Check the tension of the anti-slide devices, and make sure that they do not have any loose links or sharp parts that can damage the tires. Remove any branches or wood splinters that have got trapped between the tire and rim.

- During service 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.
- Under inflation results not only in incorrect tread wear but also in ply separation and eventually lead to failure of tire.
- Over inflation makes the tire stiff and decreases its resistance against hits, leading to ply tear.

Business today is complex, ambiguous and uncertain – a little like life itself. To help you advance and attain your objectives, you need something that is completely the opposite. GRI tires are robustly engineered and relentlessly tested to give you assured performance, so that you can get a grip on the things that really matter.

Whatever your goal, **GRI** will get you there.



GRI is a leading producer of Specialty Tires from Sri Lanka with offices in six countries and sales in over 50 countries around the world. GRI produces high-performance Agriculture, Construction and Material Handling Tires. GRI's state-of-the-art factory is the largest in Sri Lanka to produce specialty tires and the first to produce radial agriculture tires. Technological innovation, engineering strength and operational excellence have powered GRI through rapid growth to become a leader in specialty tires. GRI is certified in ISO 9001:2015 - Quality Management, ISO 50001:2011 - Energy Management and ISO 14001:2004 Environmental Management.

WWW.GRITIRES.COM

Sri Lanka: + 94 777 666 833

US: +1 737 231 0670

BENELUX: +32 493 365 678

France: +33 622 221 442

Germany: +32 493 365 678

Spain: +34 620 882 373

Australia: +61 732 768 721

Eastern Europe & Russia: +35 988 726 4075

Middle East, Africa & India: +91 77 609 68 651

info@gritires.com