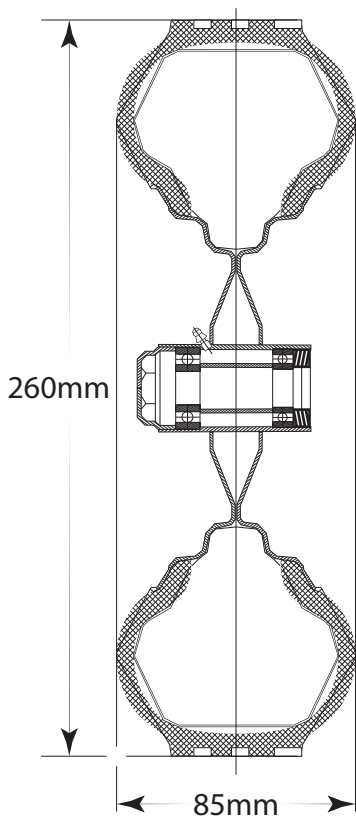


Technical Information



Common tyre conversions for small tyres used in the following sectors.

- * Handtrucks and internal transport
- * Mobility and wheelchairs
- * Tyres for ride on Mowers
- * Tyres for Hay equipment

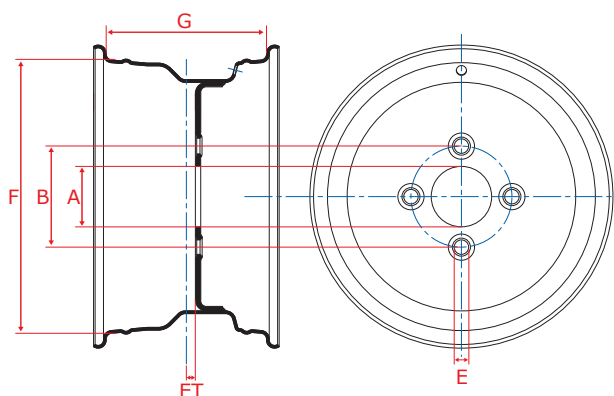
Tyre Designations - How to read a tyre (300-4)	
DIMENSION	EXPLANATION
300-4	Tyre width 300 / Rim Diameter 4"
10x3	Former designation in inches: Tyre Width 3" / Tyre diameter 10" (=3" x 2 + 4")
260x85	Designation in millimetres: Tyre diameter 260mm / Tyre width 85mm The former designation in inches converted to mm: 10" x 25.4 = approx. 260mm 3" x 25.4 = approx. 85mm
85/100-4	This is how the designation would be, had it been a passenger car tyre. Tyre width 85mm / Profile 100% / Rim diameter 4".
10x3.00-4	American designation, mainly used for low profile and turf tyres: Tyre Diameter 10" / Tyre Width 3" / Rim diameter 4"

Conversion Tyre Dimension		
	180x45	7x1¼
	200x35	8x1¼
	200x50	8x2
	220x50	8½x2
2.50-3	210x65	8x2.5
3.00-4	260x85	10x3
4.00-4	300x100	12x4
4.00-5	330x100	
2.00-6		10x2
3.50-6		13x3
4.00-6		14x4
2.25-8		12.5x2.25
		12½x2¼
4.00-8	400x100	16x4
5.00-8		18x5
6.00-9		21x6
16x650-8	170/60-8	
16.5x6.5-8	165/65-8	
18x8.50-8	210/60-8	
18.5x8.5-8	215/60-8	
18x8.00-10	195/50-10	
20.5x8.00-10	205/65-10	
24x8.00-14.5	200/60-14.5	

Technical Information

HUB FITTING WHEELS

Hub fitting wheels have a bore and a number of stud holes to suit the hub to which it is being attached. When fitting the wheels to the hub, it is very important to tighten at the correct torque in order to prevent nuts from working loose. It is also important to check after a short period of use and on a regular basis thereafter. The correct nut must be used to suit the wheel seating eg. conical or spherical.

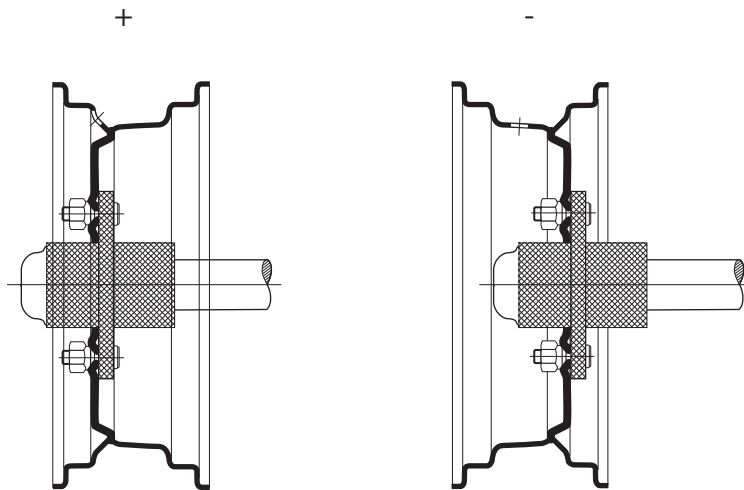


Common Stud Patterns				
NO. STUDS	PCD INCHES	PCD METRIC	STUD TO STUD	TYPE
4	4"	101.6mm	71.84mm	Mini
4	4¼"	108mm	76.33mm	Escort/Cortina
4	4½"	114.3mm	80.82mm	Most Japanese
5	4¼"	108mm	63.45mm	HT Holden
5	4½"	114.3mm	67.18mm	Falcon/Toyota
6	5½"	139.7mm	69.85mm	Landcruiser
4	4¾"	120.65mm	85.31mm	
5	4¾"	120.65mm	70.92mm	Holden HQ
5	5"	127.00mm	74.65mm	Delta Alloy
5		140mm	82.29mm	Ag

Technical Information

OFFSET

The offset is the distance from the centre-line to the back side of the wheel disc (Where the wheel is fitted to the hub). The off set can be positive (+) or negative (-). A positive offset results in a narrower track width, i.e. Brings the wheel closer to the machine body. A negative offset will result in a wider track width, thus taking the wheel further away from the machine body. The following drawings illustrate positive and negative offsets.



Conversion - Inflation Pressure			
KPA	bar	kg/cm2	p.s.i
10	0.1	0.1	1
20	0.2	0.2	3
30	0.3	0.3	4
40	0.4	0.4	6
50	0.5	0.5	7
60	0.6	0.6	9
70	0.7	0.7	10
80	0.8	0.8	12
90	0.9	0.9	13
100	1	1	14
110	1.1	1.1	16
120	1.2	1.2	17
130	1.3	1.3	19
140	1.4	1.4	20

Conversion - Inflation Pressure			
KPA	bar	kg/cm2	p.s.i
150	1.5	1.5	22
160	1.6	1.6	23
170	1.7	1.7	25
180	1.8	1.8	26
190	1.9	1.9	28
200	2	2	29
210	2.1	2.1	30
220	2.2	2.2	32
230	2.3	2.3	33
240	2.4	2.4	35
250	2.5	2.6	36
260	2.6	2.7	38
270	2.7	2.8	39
280	2.8	2.9	41

Conversion - Inflation Pressure			
KPA	bar	kg/cm2	p.s.i
290	2.9	3	42
300	3	3.1	43
320	3.2	3.3	46
340	3.4	3.5	49
360	3.6	3.7	52
380	3.8	3.9	55
400	4	4.1	58
450	4.5	4.6	65
500	5	5.1	72
600	6	6.1	87
700	7	7.1	101
800	8	8.2	116
900	9	9.2	130
1000	10	10.2	145

Technical Information

LOAD CAPACITY

Originally tyres were marked with the exact number of canvas layers (plies) built into the tyre. This was an indication of the strength of the tyre. As stronger materials were developed, the number of layers could be reduced - maintaining the same strength of the tyre. The designation "Ply Rating" therefore does not indicate the actual number of layers (plies) in the tyre, but the number of layers originally required to give the desired load capacity. When working with PR marked tyres, the actual manufacturers data must be used to determine the load capacity in kg (or pounds).

Speed Index		
SI	km/h	mph
A1	5	3
A2	10	6
A3	15	9
A4	20	13
A5	25	16
A6	30	19
A7	35	22
A8	40	25
B	50	31
C	60	38
D	65	41
E	70	44
F	80	50

Speed Index		
SI	km/h	mph
G	90	56
J	100	63
K	110	69
L	120	75
M	130	81
N	140	88
P	150	94
Q	160	100
R	170	106
S	180	113
T	190	118
H	210	130

Ply rating / Load Equivalence						
Load Range	A	B	C	D	E	F
Ply Rating	2	4	6	8	10	12

Load Index			Load Index			Load Index			Load Index			Load Index			Load Index		
LI	kg	lb	LI	kg	lb	LI	kg	lb	LI	kg	lb	LI	kg	lb	LI	kg	lb
0	45	99	28	100	220	56	224	493	84	500	1100	112	1120	2464	140	2500	5500
1	46.2	102	29	103	227	57	230	506	85	515	1133	113	1150	2530	141	2570	5654
2	47.5	105	30	106	233	58	236	519	86	530	1166	114	1180	2596	142	2650	5830
3	48.7	107	31	109	240	59	243	535	87	545	1199	115	1210	2662	143	2720	5984
4	50	110	32	112	246	60	250	550	88	560	1232	116	1250	2750	144	2800	6160
5	51.5	113	33	115	253	61	257	565	89	580	1276	117	1280	2816	145	2900	6380
6	53	117	34	118	260	62	265	583	90	600	1320	118	1320	2904	146	3000	6600
7	54.5	120	35	121	266	63	272	598	91	615	1353	119	1360	2992	147	3070	6754
8	56	123	36	125	275	64	280	616	92	630	1386	120	1400	3080	148	3150	6930
9	58	128	37	128	282	65	290	638	93	650	1430	121	1450	3190	149	3250	7150
10	60	132	38	132	290	66	300	660	94	670	1474	122	1500	3300	150	3350	7370
11	61.5	135	39	136	299	67	307	675	95	690	1518	123	1550	3410	151	3450	7590
12	63	139	40	140	308	68	315	693	96	710	1562	124	1600	3520	152	3550	7810
13	65	143	41	145	319	69	325	715	97	730	1606	125	1650	3630	153	3650	8030
14	67	147	42	150	330	70	335	737	98	750	1650	126	1700	3740	154	3750	8250
15	69	152	43	155	341	71	345	759	99	775	1705	127	1750	3850	155	3870	8514
16	71	156	44	160	352	72	355	781	100	800	1760	128	1800	3960	156	4000	8800
17	73	161	45	165	363	73	365	803	101	825	1815	129	1850	4070	157	4120	9064
18	75	165	46	170	374	74	375	825	102	850	1870	130	1900	4180	158	4250	9350
19	77.5	171	47	175	385	75	387	851	103	875	1925	131	1950	4290	159	4370	9614
20	80	176	48	180	396	76	400	880	104	900	1980	132	2000	4400	160	4500	9900
21	82.5	182	49	185	407	77	412	906	105	925	2035	133	2060	4532	161	4620	10164
22	85	187	50	190	418	78	425	935	106	950	2090	134	2120	4664	162	4750	10450
23	87.5	193	51	195	429	79	437	961	107	975	2145	135	2180	4796	163	4870	10714
24	90	198	52	200	440	80	450	990	108	1000	2200	136	2240	4928	164	5000	11000
25	92.5	204	53	206	453	81	462	1016	109	1030	2266	137	2300	5060	165	5150	11330
26	95	209	54	212	466	82	475	1045	110	1060	2332	138	2360	5192	166	5300	11660
27	97.5	215	55	218	480	83	487	1071	111	1090	2398	139	2430	5346	167	5450	11990