

Technical information

[CLICK HERE TO BUY TYRES & INNER TUBES ONLINE FROM WWW.ALLTERRAINTYRES.CO.UK](http://WWW.ALLTERRAINTYRES.CO.UK)

Small tyres for horticulture and agriculture:

- Small tyres for internal transport
- Tyres for ride on mowers
- Tyres with tractor pattern
- Tyres for tedders, forage harvesters etc.

The measurements for diameter and section width indicate maximum diameter and width including the possible tyre growth, in use. The measurements refer to tyres fitted to the recommended wheel dimension.

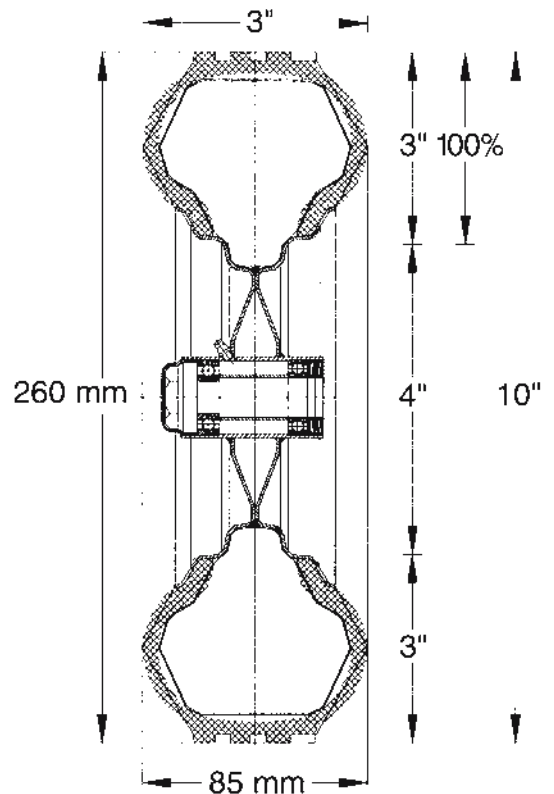
Tolerances on these measurements are +7/-4%.

Conversion – tyre dimensions

	180x45	7x1 3/4
	200x35	8x1 1/4
	200x50	8x2
	220x50	8 1/2x2
2.50-3	210x65	8x2.5
3.00-4	260x85	10x3
4.00-4		12x4
2.00-6		10x2
3.50-6		13x3
4.00-6		14x4
2.25-8		12.5x2.25
		12 1/2x2 1/4
4.00-8	400x100	16x4
5.00-8		18x5
6.00-9		21x6
18x8.00-10	195/50-10	
20.5x10.00-10	255/50-10	
24x8.00-14.5	200/60-14.5	

Tyre designations

Dimension	Explanation
3.00-4	Our designation: Tyre width 3.00" – Rim diameter 4"
10x3	Former designation in inches: Tyre width 3" – Tyre diameter 10" (= 3" x 2 + 4")
260x85	Designation in millimetres: Tyre diameter 260 mm – Tyre width 85 mm The former designation in inches converted to mm: 10" x 25.4 = approx. 260 mm 3" x 25.4 = approx. 85 mm
85/100-4	This is how the designation would be, had it been a passenger car tyre. Tyre width 85 mm – Profile 100% – Rim diameter 4"
10x3.00-4	American designation, mainly used for low profile tyres: Tyre diameter 10" – Tyre width 3" – Rim diameter 4"



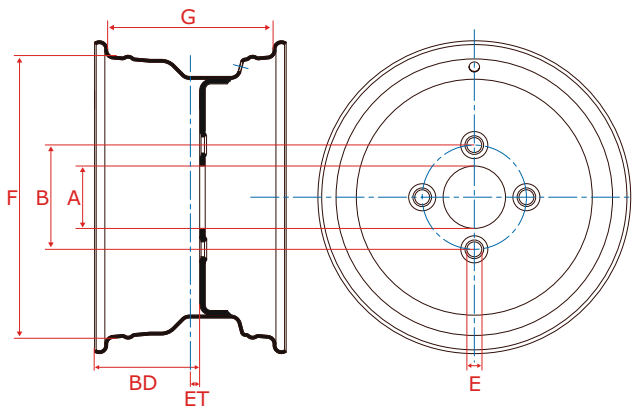
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Hub fitting wheels

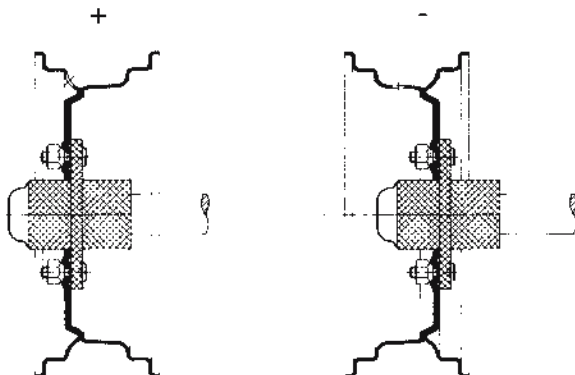
Hub fitting wheels have a bore and a number of stud holes to suit the hub to which it is being attached. When fitting the wheels to the hub, it is very important to tighten at the correct torque in order to prevent nuts from working loose. It is also important to check after a short period of use and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

The correct nut must be used to suit the wheel seating eg. conical or spherical.



Design of stud holes

The design of the stud holes is crucial for the nuts to fit exactly to the seat in order to remain tight. The stud holes can have various designs in terms of counter sink diameter, conical/spherical etc. Please be specific on these items when ordering wheels and especially when fitting new wheels.



Bores, the most common

	mm	mm
4	60	100
4	66.7	101.6
5	67	112
5	80	115
4	95.25	139.7
5	94	140
5	115	165.1
6	161	205
8	221	275
10	281	335

A = Bore (mm)

B = Pitch Circle Diameter (mm)

BD = Back depth (mm)

ET = Offset (mm)

E = Stud hole diameter (mm)

F = Rim diameter (inches)

G = Rim width (inches)

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 offset 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.

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Conversion – metric to Imperial units

	Metric = Imperial	Imperial = Metric
Weight	1 ton (t) (1000 kg) = 0.984 ton	1 ton = 1.016 ton
	1 kilogram (kg) = 2.2 lbs (pounds)	1 lb (pound) = 0.455 kg
Length/ distance	1 kilometer (km) = 0.621 mile	1 mile = 1.61 km
	1 meter (m) = 1.094 yard	1 yard = 0.9144 m
	1 centimeter (cm) = 0.39 inch	1 inch = 2.54 cm
	1 millimeter (mm) = 0.039 inch	1 inch = 2.54 cm
Volume	1 liter (l) = 0.22 gallon	1 gallon = 4.545 l

Conversion – Inflation pressure

kPa	bar	kg/cm2	p.s.i.	kPa	bar	kg/cm2	p.s.i.	kPa	bar	kg/cm2	p.s.i.
10	0,1	0,1	1	160	1,6	1,6	23	320	3,2	3,3	46
20	0,2	0,2	3	170	1,7	1,7	25	340	3,4	3,5	49
30	0,3	0,3	4	180	1,8	1,8	26	360	3,6	3,7	52
40	0,4	0,4	6	190	1,9	1,9	28	380	3,8	3,9	55
50	0,5	0,5	7	200	2,0	2,0	29	400	4,0	4,1	58
60	0,6	0,6	9	210	2,1	2,1	30	450	4,5	4,6	65
70	0,7	0,7	10	220	2,2	2,2	32	500	5,0	5,1	72
80	0,8	0,8	12	230	2,3	2,3	33	600	6,0	6,1	87
90	0,9	0,9	13	240	2,4	2,4	35	700	7,0	7,1	101
100	1,0	1,0	14	250	2,5	2,6	36	800	8,0	8,2	116
110	1,1	1,1	16	260	2,6	2,7	38	900	9,0	9,2	130
120	1,2	1,2	17	270	2,7	2,8	39	1000	10,0	10,2	145
130	1,3	1,3	19	280	2,8	2,9	41				
140	1,4	1,4	20	290	2,9	3,0	42				
150	1,5	1,5	22	300	3,0	3,1	43				

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Load capacity

PR marking

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).

Load Index / Speed Index

LI = Load Index

SI = Speed Index

Load Index and Speed Index will gradually replace the PR marking.

Contrary to the PR marking, the LI and SI give unambiguous and comparable information on the load capacity – independent of manufacture and dimension – as the codes can be directly converted to actual values.

The tables give an overview of relevant LI and SI codes.

Load Index

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
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

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

General notes on load, inflation pressure and speed - Warning!

Technical specifications in this catalogue are mainly based on manufacturers data or the ETRTO or STRO standards, and serve as a general, basic information.

For every specific tyre and/or wheel, instructions and figures on load, inflation pressure, speed etc. stated on the product itself, or by the manufacturer, must be complied with.

For complete wheels, the maximum load, cold inflation pressure and speed is always determined by the part (tyre or rim/wheel) having the lowest capacity.

E.g. the load, cold inflation pressure and speed imposed on the rim or wheel must never exceed the rim and wheel manufacturers recommendations, even though the tyre might be approved for a higher load, inflation pressure or speed.

Tyres, tubes and wheels must be used for the intended area of use only, unless otherwise specified or permitted.

If any doubt, please consult the ETRTO or STRO technical manuals, or contact us.

Do not mount, inflate or use any tyre/wheel combination, until all possible doubts have been eliminated.

The STARCO group will accept no liability due to errors, omissions or faulty information in this catalogue.

All figures are subject to change without further notice.

Manufacturer's, ETRTO or STRO specifications are final.

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