
Motorcycle tyres and rims (metric series) —

**Part 2:
Tyre dimensions and load-carrying capacities**

iTeh STANDARD PREVIEW
*Pneumatiques et jantes pour motocycles (séries millimétriques) —
Partie 2: Cotes et capacités de charge des pneumatiques*
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ISO 5751-2:2010

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 5751-2 was prepared by Technical Committee ISO/TC 31, *Tyres, rims and valves*, Subcommittee SC 10, *Cycle, moped, motorcycle tyres and rims*.

This sixth edition cancels and replaces the fifth edition (ISO 5751-2:2004), which has been technically revised.

ISO 5751 consists of the following parts, under the general title *Motorcycle tyres and rims (metric series)*:

- *Part 1: Design guides* [ISO 5751-2:2010](https://standards.iteh.ai/catalog/standards/sist/44386ec2-85a7-4125-a1d2-fc845abb3291/iso-5751-2-2010)
- *Part 2: Tyre dimensions and load-carrying capacities*
- *Part 3: Range of approved rim contours*

Motorcycle tyres and rims (metric series) —

Part 2: Tyre dimensions and load-carrying capacities

1 Scope

This part of ISO 5751 specifies the tyre size designation, dimensions and load-carrying capacities of metric series motorcycle tyres. It is applicable to such tyres with a height-to-width ratio of 100 % and below.

NOTE See ISO 4249 for motorcycle tyres and rims (code-designated series) of rim diameter codes 13 and above, and ISO 6054 for those of codes 12 and below.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 4223-1, *Definitions of some terms used in the tyre industry — Part 1: Pneumatic tyres*

ISO 5751-1, *Motorcycle tyres and rims (metric series) — Part 1: Design guides*

ISO 5751-3, *Motorcycle tyres and rims (metric series) — Part 3: Range of approved rim contours*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4223-1 apply.

4 Tyre designation

4.1 General

The tyre designation shall be as specified in ISO 5751-1, completed by the addition of the service description, i.e. load index and speed symbol.

4.2 Tyre construction code

The tables in this part of ISO 5751 show, as examples, tyre size designations for tyres in diagonal construction. However, a motorcycle tyre having, for example, a

- nominal section width of 100 mm,
- nominal aspect ratio of 90,
- nominal rim diameter code of 18 M/C,

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- load-carrying capacity of 224 kg (corresponding to load index 56), and
 - reference speed of 150 km/h (corresponding to speed symbol “P”),
- shall be marked, depending on its construction characteristics, as follows.

Diagonal-ply construction:	100/90 – 18M/C 56 P
Bias-belted construction:	100/90 B 18M/C 56 P
Radial-ply construction:	100/90 R 18M/C 56 P

NOTE For tyres suitable for speeds greater than 240 km/h, see ISO 5751-1.

4.3 Other markings

For tyres having a nominal rim diameter code of 16 M/C or higher, the suffix M/C is not required if the tyre was manufactured before May 2003.

Extra-load version tyres shall be additionally marked either “Extra Load” or “REINF” (for *reinforced*).

5 Tyre dimensions

5.1 General

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Tables 1 to 14 present the

- a) tyre size designation, [ISO 5751-2:2010](https://standards.iteh.ai/catalog/standards/sist/44386ec2-85a7-4125-a1d2-fc845abb3291/iso-5751-2-2010)
- b) measuring rim width code, <https://standards.iteh.ai/catalog/standards/sist/44386ec2-85a7-4125-a1d2-fc845abb3291/iso-5751-2-2010>
- c) design tyre dimensions, i.e. section width and overall diameter, and
- d) maximum tyre dimensions in service, i.e. overall width and diameter for the various types of tread configuration (see Clause 6) to be considered by vehicle manufacturers in designing for tyre clearances.

NOTE The maximum dimensions in service do not include the values of the centrifugal radius (see ISO 5751-1).

5.2 Measuring procedure

Mount the tyre on a chosen rim according to ISO 5751-3, approved for the respective tyre size and ready for fitting. Inflate as follows.

- a) For normal-load version tyres:
 - 225 kPa for speed symbols “S” and lower;
 - 280 kPa for speed symbols “T” and higher.
- b) For extra-load version tyres:
 - 280 kPa for speed symbols “P” and lower;
 - 330 kPa for speed symbols “Q” and higher.
- c) For light-load version tyres: 175 kPa.

Allow the tyre to stand for 24 h at normal room temperature, then readjust the inflation pressures to those specified in a), b) and c), before performing the measurements.

When measuring on rims having a rim width code that differs from that of the measuring rim width code given in the tables of this part of ISO 5751, the section-width and overall-width values of the tyre used for comparison with the data given in Tables 1 to 14 shall be adjusted as follows:

$$W = W_m + 0,4 (R - R_m)$$

where

W_m is the value measured;

R_m is the width, expressed in millimetres, of the rim used for the measurements;

R is the width, expressed in millimetres, of the measuring rim width code given in the tables.

6 Tread configurations

ISO 5751-1:—, Figure 1, shows various tread configurations. The following attributions of tread-type configurations to the type of service are to be considered as examples only. The choice of a given tread-type configuration for a given tyre is at the discretion of the tyre manufacturer alone.

- Tread type A is commonly adopted for highway-service low-speed tyres;
- tread type B is commonly adopted for highway-service high-speed tyres;
- tread type C is commonly adopted for tyres used in both on- and off-road service;
- tread type D is commonly adopted for tyres exclusively in off-road service.

7 Load ratings

7.1 General

Tables 15 to 29 show the standardized maximum tyre load-carrying capacity for each given tyre size designation.

7.2 Load capacity at reduced speeds

Subject to acceptance by the tyre manufacturer and taking into account the conditions of use of the motorcycle, the load capacities corresponding to the load indices indicated in Tables 15 to 29 may be modified by the percentages given in Table 30. This modification is possible when the maximum speed of motorcycle is different from the one associated with the speed symbol.

7.3 Load capacity at speeds higher than 210 km/h

For the load-carrying capacities of tyres marked with speed symbols “V” or “W” operating at speeds higher than 210 km/h, see ISO 5751-1.

8 Inflation pressures

The following inflation pressures are given as guidelines only. Inflation pressures used in practice are subject to agreement between the tyre and vehicle manufacturers and should take into account not only the load, but also the tyre construction, road holding, maximum speed, location of the tyre, operating conditions and mechanical characteristics of the vehicle.

The maximum load-carrying capacity corresponds to the following inflation pressures.

- a) For nominal rim diameter codes up to and including 12 (for series 80 and above):
- 1) light-load version: 175 kPa
 - 2) normal-load version: 250 kPa
 - 3) extra-load version: 300 kPa
- b) For nominal rim diameter codes 13 and above (for series 70 and below, and also for nominal rim diameter codes 12 and below):
- 1) light-load version: 175 kPa
 - 2) normal-load version:
 - for tyres marked with a speed symbol up to and including “P” 225 kPa
 - for tyres marked with a speed symbol “Q”, “R” or “S” 250 kPa
 - for tyres marked with a speed symbol “T”, “U” or “H” 280 kPa
 - for tyres marked with a speed symbol “V” or “W” 290 kPa
 - 3) extra-load version: increase the inflation pressure for the normal-load version by 50 kPa.

**Table 1 — Tyre dimensions (design and in-service) —
100 series tyres with nominal rim diameter codes 13 and above**

Dimensions in millimetres

Tyre size designation ^a	Measuring rim width code	Design tyre		In-service				
		Section width <i>S</i>	Overall diameter <i>D_o</i>	Maximum overall width <i>W_{max}</i>			Maximum overall diameter ^b <i>D_{o,max}</i>	
				Tread types A, B and C ^c	Tread types A, B and C ^d	Tread type D	Tread types A and B	Tread types C and D
50/100 – 14 M/C	1.20	50	456	54	55	63	464	468
60/100 – 14 M/C	1.40	60	476	64	66	75	484	490
70/100 – 14 M/C	1.60	69	496	74	76	86	506	514
80/100 – 14 M/C	1.85	80	516	86	88	100	528	536
90/100 – 14 M/C	2.15	90	536	96	99	113	548	558
70/100 – 15 M/C	1.60	69	521	74	76	86	531	537
80/100 – 15 M/C	1.85	80	541	86	88	100	553	561
90/100 – 15 M/C	2.15	90	561	96	99	113	573	583
60/100 – 16 M/C	1.40	60	526	64	66	75	534	540
70/100 – 16 M/C	1.60	69	546	74	76	86	556	562
80/100 – 16 M/C	1.85	80	566	86	88	100	578	586
90/100 – 16 M/C	2.15	90	586	96	99	113	598	608
100/100 – 16 M/C	2.50	101	606	108	111	126	620	630
130/100 – 16 M/C	3.00	129	666	138	142	161	684	698
140/100 – 16 M/C	3.50	142	686	152	156	178	706	720
50/100 – 17 M/C	1.20	50	532	54	55	63	540	544
60/100 – 17 M/C	1.40	60	552	64	66	75	560	566
70/100 – 17 M/C	1.60	69	572	74	76	86	582	588
80/100 – 17 M/C	1.85	80	592	86	88	100	604	612
90/100 – 17 M/C	2.15	90	612	96	99	113	624	634
100/100 – 17 M/C	2.50	101	632	108	111	126	646	656
110/100 – 17 M/C	2.50	109	652	117	120	136	668	678
120/100 – 17 M/C	2.75	119	672	127	131	149	688	700
130/100 – 17 M/C	3.00	129	692	138	142	161	710	724
70/100 – 18 M/C	1.60	69	597	74	76	86	607	613
80/100 – 18 M/C	1.85	80	617	86	88	100	629	637
90/100 – 18 M/C	2.15	90	637	96	99	113	649	659
100/100 – 18 M/C	2.50	101	657	108	111	126	671	681
110/100 – 18 M/C	2.50	109	677	117	120	136	693	703
120/100 – 18 M/C	2.75	119	697	127	131	149	713	725
130/100 – 18 M/C	3.00	129	717	138	142	161	735	749
70/100 – 19 M/C	1.60	69	623	74	76	86	633	639
80/100 – 19 M/C	1.85	80	643	86	88	100	655	663
90/100 – 19 M/C	2.15	90	663	96	99	113	675	685
100/100 – 19 M/C	2.50	101	683	108	111	126	697	707
110/100 – 19 M/C	2.50	109	703	117	120	136	719	729
120/100 – 19 M/C	2.75	119	723	127	131	149	739	751
130/100 – 19 M/C	3.00	129	743	138	142	161	761	775
90/100 – 20 M/C	2.15	90	688	96	99	113	700	710
70/100 – 21 M/C	1.60	69	673	74	76	86	683	689
80/100 – 21 M/C	1.85	80	693	86	88	100	705	713
90/100 – 21 M/C	2.15	90	713	96	99	113	725	735

^a For appropriate tyre size designation, see Clause 4.
^b Maximum overall diameters are related to service up to 150 km/h.
^c Radial-ply tyres.
^d Diagonal-ply and bias-belted tyres.

**Table 2 — Tyre dimensions (design and in-service) —
100 series tyres with nominal rim diameter codes 12 and below**

Dimensions in millimetres

Tyre size designation ^a	Measuring rim width code	Design tyre		In-service ^b	
		Section width	Overall diameter	Maximum overall width	Maximum overall diameter
		<i>S</i>	<i>D</i> ₀	<i>W</i> _{max}	<i>D</i> _{0,max}
70/100 – 8	1.60	69	343	75	353
80/100 – 8	1.85	80	363	86	375
90/100 – 8	2.15	90	383	97	395
100/100 – 8	2.50	101	403	109	417
110/100 – 8	2.50	109	423	118	439
120/100 – 8	2.75	119	443	129	459
130/100 – 8	3.00	129	463	139	481
60/100 – 10	1.40	60	374	65	382
70/100 – 10	1.60	69	394	75	404
80/100 – 10	1.85	80	414	86	426
90/100 – 10	2.15	90	434	97	446
100/100 – 10	2.50	101	454	109	468
110/100 – 10	2.50	109	474	118	490
120/100 – 10	2.75	119	494	129	510
130/100 – 10	3.00	129	514	139	532
60/100 – 12	1.40	60	425	65	433
70/100 – 12	1.60	69	445	75	455
80/100 – 12	1.85	80	465	86	477
90/100 – 12	2.15	90	485	97	497
100/100 – 12	2.50	101	505	109	519
110/100 – 12	2.50	109	525	118	541
120/100 – 12	2.75	119	545	129	561
130/100 – 12	3.00	129	565	139	583

^a For appropriate tyre size designation, see Clause 4.

^b Tread types A and B.

**Table 3 — Tyre dimensions (design and in-service) —
90 series tyres with nominal rim diameter codes 13 and above**

Dimensions in millimetres

Tyre size designation ^a	Measuring rim width code	Design tyre		In-service				
		Section width <i>S</i>	Overall diameter <i>D_o</i>	Maximum overall width <i>W_{max}</i>			Maximum overall diameter ^b <i>D_{o,max}</i>	
				Tread types A, B and C ^c	Tread types A, B and C ^d	Tread type D	Tread types A and B	Tread types C and D
110/90 – 13 M/C	2.50	109	528	117	120	136	542	552
70/90 – 14 M/C	1.60	69	482	74	76	86	490	498
80/90 – 14 M/C	1.85	80	500	86	88	100	510	518
90/90 – 14 M/C	2.15	90	518	96	99	113	530	538
90/90 – 15 M/C	2.15	90	543	96	99	113	555	563
100/90 – 15 M/C	2.50	101	561	108	111	126	573	583
110/90 – 15 M/C	2.50	109	579	117	120	136	593	603
120/90 – 15 M/C	2.75	119	597	127	131	149	613	623
130/90 – 15 M/C	3.00	129	615	138	142	161	631	643
140/90 – 15 M/C	3.50	142	633	152	156	178	651	663
150/90 – 15 M/C	3.50	150	651	161	165	188	669	683
60/90 – 16 M/C	1.40	60	514	64	66	75	522	530
70/90 – 16 M/C	1.60	69	532	74	76	86	540	550
80/90 – 16 M/C	1.85	80	550	86	88	100	560	568
90/90 – 16 M/C	2.15	90	568	96	99	113	580	588
100/90 – 16 M/C	2.50	101	586	108	111	126	598	608
110/90 – 16 M/C	2.50	109	604	117	120	136	618	628
120/90 – 16 M/C	2.75	119	622	127	131	149	638	648
130/90 – 16 M/C	3.00	129	640	138	142	161	656	668
140/90 – 16 M/C	3.50	142	658	152	156	178	676	688
150/90 – 16 M/C	3.50	150	676	161	165	188	694	708
50/90 – 17 M/C	1.20	50	522	54	55	63	528	532
60/90 – 17 M/C	1.40	60	540	64	66	75	548	556
70/90 – 17 M/C	1.60	69	558	74	76	86	566	574
80/90 – 17 M/C	1.85	80	576	86	88	100	586	594
90/90 – 17 M/C	2.15	90	594	96	99	113	606	614
100/90 – 17 M/C	2.50	101	612	108	111	126	624	634
110/90 – 17 M/C	2.50	109	630	117	120	136	644	654
120/90 – 17 M/C	2.75	119	648	127	131	149	664	674
130/90 – 17 M/C	3.00	129	666	138	142	161	682	694
140/90 – 17 M/C	3.50	142	684	152	156	178	702	714
150/90 – 17 M/C	3.50	150	702	161	165	188	720	732
70/90 – 18 M/C	1.60	69	583	74	76	86	591	599
80/90 – 18 M/C	1.85	80	601	86	88	100	611	619
90/90 – 18 M/C	2.15	90	619	96	99	113	631	639
100/90 – 18 M/C	2.50	101	637	108	111	126	649	659
110/90 – 18 M/C	2.50	109	655	117	120	136	669	679
120/90 – 18 M/C	2.75	119	673	127	131	149	689	699
130/90 – 18 M/C	3.00	129	691	138	142	161	707	719
140/90 – 18 M/C	3.50	142	709	152	156	178	727	739
70/90 – 19 M/C	1.60	69	609	74	76	86	617	625
80/90 – 19 M/C	1.85	80	627	86	88	100	637	645
90/90 – 19 M/C	2.15	90	645	96	99	113	657	665
100/90 – 19 M/C	2.50	101	663	108	111	126	675	685
110/90 – 19 M/C	2.50	109	681	117	120	136	695	705
120/90 – 19 M/C	2.75	119	699	127	131	149	715	725
130/90 – 19 M/C	3.00	129	717	138	142	161	733	745
70/90 – 21 M/C	1.60	69	659	74	76	86	667	675
80/90 – 21 M/C	1.85	80	677	86	88	100	687	695
90/90 – 21 M/C	2.15	90	695	96	99	113	707	715
100/90 – 21 M/C	2.50	101	713	108	111	126	725	735

^a For appropriate tyre size designation, see Clause 4.

^b Maximum overall diameters are related to service up to 150 km/h.

^c Radial-ply tyres.

^d Diagonal-ply and bias-belted tyres.

**Table 4 — Tyre dimensions (design and in-service) —
90 series tyres with nominal rim diameter codes 12 and below**

Dimensions in millimetres

Tyre size designation ^a	Measuring rim width code	Design tyre		In-service ^b	
		Section width <i>S</i>	Overall diameter <i>D_o</i>	Maximum overall width <i>W_{max}</i>	Maximum overall diameter <i>D_{o,max}</i>
60/90 – 8	1.40	60	311	66	319
70/90 – 8	1.60	69	329	75	337
80/90 – 8	1.85	80	347	86	357
90/90 – 8	2.15	90	365	97	377
100/90 – 8	2.50	101	383	109	395
110/90 – 8	2.50	109	401	118	415
120/90 – 8	2.75	119	419	129	435
130/90 – 8	3.00	129	437	139	453
60/90 – 10	1.40	60	362	66	370
70/90 – 10	1.60	69	380	75	388
80/90 – 10	1.85	80	398	86	408
90/90 – 10	2.15	90	416	97	428
100/90 – 10	2.50	101	434	109	446
110/90 – 10	2.50	109	452	118	466
120/90 – 10	2.75	119	470	129	486
130/90 – 10	3.00	129	488	139	504
60/90 – 12	1.40	60	413	66	421
70/90 – 12	1.60	69	431	75	439
80/90 – 12	1.85	80	449	86	459
90/90 – 12	2.15	90	467	97	479
100/90 – 12	2.50	101	485	109	497
110/90 – 12	2.50	109	503	118	517
120/90 – 12	2.75	119	521	129	537
130/90 – 12	3.00	129	539	139	555

^a For appropriate tyre size designation, see Clause 4.

^b Tread types A and B.

**Table 5 — Tyre dimensions (design and in-service) —
80 series tyres with nominal rim diameter codes 13 and above**

Dimensions in millimetres

Tyre size designation ^a	Measuring rim width code	Design tyre		In-service				
		Section width <i>S</i>	Overall diameter <i>D_o</i>	Maximum overall width <i>W_{max}</i>			Maximum overall diameter ^b <i>D_{o,max}</i>	
				Tread types A, B and C ^c	Tread types A, B and C ^d	Tread type D	Tread types A and B	Tread types C and D
120/80 – 13 M/C	2.75	119	522	127	131	149	536	546
80/80 – 14 M/C	1.85	80	484	86	88	100	492	500
90/80 – 14 M/C	2.15	90	500	96	99	113	510	518
100/80 – 14 M/C	2.50	101	516	108	111	126	528	536
110/80 – 14 M/C	2.50	109	532	117	120	136	542	554
120/80 – 14 M/C	2.75	119	548	127	131	149	562	572
130/80 – 14 M/C	3.00	129	564	138	142	161	578	588
160/80 – 14 M/C	4.00	162	612	173	178	203	630	642
180/80 – 14 M/C	4.50	183	644	196	201	229	664	678
130/80 – 15 M/C	3.00	129	589	138	142	161	603	613
140/80 – 15 M/C	3.50	142	605	152	156	178	621	631
150/80 – 15 M/C	3.50	150	621	161	165	188	637	649
160/80 – 15 M/C	4.00	162	637	173	178	203	655	667
170/80 – 15 M/C	4.00	170	653	182	187	213	673	685
80/80 – 16 M/C	1.85	80	534	86	88	100	542	550
90/80 – 16 M/C	2.15	90	550	96	99	113	560	568
100/80 – 16 M/C	2.50	101	566	108	111	126	578	586
110/80 – 16 M/C	2.50	109	582	117	120	136	594	604
120/80 – 16 M/C	2.75	119	598	127	131	149	612	622
130/80 – 16 M/C	3.00	129	614	138	142	161	628	638
140/80 – 16 M/C	3.50	142	630	152	156	178	646	656
150/80 – 16 M/C	3.50	150	646	161	165	188	662	674
160/80 – 16 M/C	4.00	162	662	173	178	203	680	692
60/80 – 17 M/C	1.40	60	528	64	66	75	534	540
70/80 – 17 M/C	1.60	69	544	74	76	86	552	558
80/80 – 17 M/C	1.85	80	560	86	88	100	568	576
90/80 – 17 M/C	2.15	90	576	96	99	113	586	594
100/80 – 17 M/C	2.50	101	592	108	111	126	604	612
110/80 – 17 M/C	2.50	109	608	117	120	136	620	630
120/80 – 17 M/C	2.75	119	624	127	131	149	638	648
130/80 – 17 M/C	3.00	129	640	138	142	161	654	664
140/80 – 17 M/C	3.50	142	656	152	156	178	672	682
150/80 – 17 M/C	3.50	150	672	161	165	188	688	700
70/80 – 18 M/C	1.60	69	569	74	76	86	577	583
80/80 – 18 M/C	1.85	80	585	86	88	100	593	601
90/80 – 18 M/C	2.15	90	601	96	99	113	611	619
100/80 – 18 M/C	2.50	101	617	108	111	126	629	637
110/80 – 18 M/C	2.50	109	633	117	120	136	645	655
120/80 – 18 M/C	2.75	119	649	127	131	149	663	673
130/80 – 18 M/C	3.00	129	665	138	142	161	679	689
140/80 – 18 M/C	3.50	142	681	152	156	178	697	707
150/80 – 18 M/C	3.50	150	697	161	165	188	713	725
160/80 – 18 M/C	4.00	162	713	173	178	203	731	743
80/80 – 19 M/C	1.85	80	611	86	88	100	619	627
90/80 – 19 M/C	2.15	90	627	96	99	113	637	645
100/80 – 19 M/C	2.50	101	643	108	111	126	655	663
110/80 – 19 M/C	2.50	109	659	117	120	136	671	681
120/80 – 19 M/C	2.75	119	675	127	131	149	689	699
130/80 – 19 M/C	3.00	129	691	138	142	161	705	715
140/80 – 19 M/C	3.50	142	707	152	156	178	723	733
80/80 – 21 M/C	1.85	80	661	86	88	100	669	677
90/80 – 21 M/C	2.15	90	677	96	99	113	687	695
100/80 – 21 M/C	2.50	101	693	108	111	126	705	713

^a For appropriate tyre size designation, see Clause 4.

^b Maximum overall diameters are related to service up to 150 km/h.

^c Radial-ply tyres.

^d Diagonal-ply and bias-belted tyres.