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Motorcycle tyres and rims (metric series) —

Part 2:
Tyre dimensions and load-carrying capacities

Pneumatiques et jantes pour motocycles (séries millimétriques) —

Partie 2: Cotes et capacités de charge des pneumatiques

[Revision of fifth edition (ISO 5751-2:2004)]

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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.

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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), of 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*

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

— *Part 3: Range of approved rim contours*

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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,

— load-carrying capacity of 224 kg (corresponding to load index 56), and

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— 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 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

Tables 1 to 14 present the

a) tyre size designation,

b) measuring rim width code,

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 configurations (see Clause 7) 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 rim chosen 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 above, before performing the measurements.

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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 according to the formula:

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

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/capacities 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 motorcycle maximum speed 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.

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

d) 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

e) 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 speed symbol “Q”, “R” or “S” 250 kPa

— for tyres marked with speed symbol “T”, “U” or “H” 280 kPa

— for tyres marked with speed symbol “V” or “W” 290 kPa

3) Extra-load version: increase the inflation pressures 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 S	Overall diameter D_o	Maximum overall width W_{max}			Maximum overall diameter [b] $D_{o,max}$	
				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

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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	588	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 S	Overall diameter D_o	Maximum overall width W_{max}	Maximum overall diameter $D_{o,max}$
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

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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 S	Overall diameter D_o	Maximum overall width W_{max}			Maximum overall diameter [b] $D_{o,max}$	
				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.

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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 S	Overall diameter D_o	Maximum overall width W_{max}	Maximum overall diameter $D_{o,max}$
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 S	Overall diameter D_o	Maximum overall width W_{max}			Maximum overall diameter [b] $D_{o,max}$	
				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

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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.

Table 6 — Tyre dimensions (design and in-service) — 80 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 S	Overall diameter D_o	Maximum overall width W_{max}	Maximum overall diameter $D_{o,max}$
60/80 – 8	1.40	60	219	65	305
70/80 – 8	1.60	69	315	75	323
80/80 – 8	1.85	80	331	86	339
90/80 – 8	2.15	90	347	97	357
100/80 – 8	2.50	101	363	109	375
110/80 – 8	2.50	109	379	118	391
120/80 – 8	2.75	119	395	129	409

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130/80 – 8	3.00	129	411	139	425
60/80 – 10	1.40	60	350	65	356
70/80 – 10	1.60	69	366	75	374
80/80 – 10	1.85	80	382	86	390
90/80 – 10	2.15	90	398	97	408
100/80 – 10	2.50	101	414	109	426
110/80 – 10	2.50	109	430	118	442
120/80 – 10	2.75	119	446	129	460
130/80 – 10	3.00	129	462	139	476
150/80 – 10	3.50	150	494	162	510
60/80 – 12	1.40	60	401	65	407
70/80 – 12	1.60	69	417	75	425
80/80 – 12	1.85	80	433	86	441
90/80 – 12	2.15	90	449	97	459
100/80 – 12	2.50	101	465	109	477
110/80 – 12	2.50	109	481	118	493
120/80 – 12	2.75	119	497	129	511
130/80 – 12	3.00	129	513	139	527
140/80 – 12	3.50	142	529	153	545

[a] For appropriate tyre size designation, see Clause 4.
[b] Tread types A and B.

Table 7 — Tyre dimensions (design and in-service) — 75 series tyres

Dimensions in millimetres

Tyre size designation [a]	**Measuring rim width code**	**Design tyre**		**In-service — Tread types A and B**		
		Section width S	**Overall diameter** D_o	**Maximum overall width** W_{max} Radial	Diagonal and bias-belted	**Maximum overall diameter** [b] $D_{o,max}$
140/75 – 17 M/C	**3.50**	**139**	**642**	**149**	**153**	**656**

[a] For appropriate tyre size designation, see Clause 4.
[b] Maximum overall diameters are related to service up to 150 km/h.

Table 8 — Tyre dimensions (design and in-service) — 70 series tyres

Dimensions in millimetres

Tyre size designation [a]	**Measuring rim width code**	**Design tyre**		**In-service — Tread types A and B**		
		Section width S	**Overall diameter** D_o	**Maximum overall width** W_{max} Radial	Diagonal and bias-belted	**Maximum overall diameter** [b] $D_{o,max}$
80/70 – 16 M/C	2.15	79	518	85	87	526
100/70 – 16 M/C **100/70 – 17 M/C** **100/70 – 18 M/C** **100/70 – 19 M/C**	2.75	100	546 572 597 623	107	110	556 582 607 633
110/70-11 **110/70 – 12**	3.00	110	433 459	118	119	443 469
110/70 – 16 M/C **110/70 – 17 M/C** **110/70 – 18 M/C** **110/70 – 19 M/C**	3.00	110	560 586 611 637	118	121	570 596 621 647
120/70 – 10 **120/70 – 11** **120/70 – 12**	3.50	122	422 447 473	131	132	434 457 485

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120/70 – 13 M/C **120/70 – 14 M/C** **120/70 – 15 M/C** **120/70 – 16 M/C** **120/70 – 17 M/C** **120/70 – 18 M/C** **120/70 – 19 M/C** **120/70 – 21 M/C**	3.50	122	498 524 549 574 600 625 651 701	131	134	510 536 561 586 612 637 663 713
130/70 – 8 **130/70 – 10** **130/70 – 11** **130/70 – 12**	3.50	129	385 436 461 487	138	139	397 448 471 499
130/70 – 13 M/C **130/70 – 16 M/C** **130/70 – 17 M/C** **130/70 – 18 M/C** **130/70 – 19 M/C** **130/70 – 24 M/C**	3.50	129	512 588 614 639 665 792	138	142	524 600 626 651 677 804
140/70 – 8 **140/70 – 12**	3.75	139	399 501	149	150	413 515
140/70 – 14 M/C **140/70 – 15 M/C** **140/70 – 16 M/C** **140/70 – 17 M/C** **140/70 – 18 M/C** **140/70 – 19 M/C** **140/70 – 21 M/C**	3.75	139	552 577 602 628 653 679 729	149	153	566 591 616 642 667 693 743
150/70 – 13 M/C **150/70 – 14 M/C** **150/70 – 16 M/C** **150/70 – 17 M/C** **150/70 – 18 M/C** **150/70 – 19 M/C**	4.25	151	540 566 616 642 667 693	162	166	554 580 630 656 681 707
160/70 – 16 M/C **160/70 – 17 M/C** **160/70 – 18 M/C** **160/70 – 19 M/C**	4.50	161	630 656 681 707	172	177	646 672 697 723
170/70 – 15 M/C **170/70 – 16 M/C**	4.50	168	619 644	180	185	635 660
180/70 – 15 M/C **180/70 – 16 M/C**	5.00	180	633 658	193	198	651 676
200/70 – 15 M/C	5.50	200	661	214	220	681

[a] For appropriate tyre size designation, see Clause 4.

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

Table 9 — Tyre dimensions (design and in-service) — 65 and 60 series tyres

Dimensions in millimetres

Tyre size designation [a]	**Measuring rim width code**	**Design tyre**		**In-service — Tread types A and B**		
		Section width S	**Overall diameter** D_o	**Maximum overall width** W_{max} Radial	Diagonal and bias-belted	**Maximum overall diameter** [b] $D_{o,max}$
65 series						
120/65 – 17 M/C	3.50	122	588	131	134	598
180/65 – 16 M/C	5.00	180	640	193	198	656
60 series						
110/60 – 16 M/C **110/60 – 17 M/C** **110/60 – 18 M/C** **110/60 – 19 M/C**	3.00	110	538 564 589 615	118	121	548 574 599 625
120/60 – 16 M/C **120/60 – 17 M/C** **120/60 – 18 M/C** **120/60 – 19 M/C**	3.50	122	550 576 601 627	131	134	560 586 611 637

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130/60 – 13 M/C **130/60 – 16 M/C** **130/60 – 17 M/C** **130/60 – 18 M/C** **130/60 – 19 M/C** **130/60 – 23 M/C**	3.50	129	486 562 588 613 639 740	138	142	496 572 598 623 649 750
140/60 – 12	4.00	141	473	151	152	485
140/60 – 13 M/C **140/60 – 14 M/C** **140/60 – 16 M/C** **140/60 – 17 M/C** **140/60 – 18 M/C** **140/60 – 19 M/C**	3.75	139	498 524 574 600 625 651	149	153	510 536 586 612 637 663
150/60 – 13 M/C **150/60 – 14 M/C** **150/60 – 16 M/C** **150/60 – 17 M/C** **150/60 – 18 M/C** **150/60 – 19 M/C**	4.25	151	510 536 586 612 637 663	162	166	522 548 598 624 649 657
160/60 – 14 M/C **160/60 – 15 M/C** **160/60 – 16 M/C** **160/60 – 17 M/C** **160/60 – 18 M/C** **160/60 – 19 M/C**	4.50	161	548 573 598 624 649 675	172	177	562 587 612 638 663 689
170/60 – 16 M/C **170/60 – 17 M/C** **170/60 – 18 M/C** **170/60 – 19 M/C**	4.50	168	610 636 661 687	180	185	624 650 675 701
180/60 – 16 M/C **180/60 – 17 M/C**	5.00	180	622 648	193	198	638 664
190/60 – 17 M/C	5.00	188	660	201	207	676
200/60 – 16 M/C	5.50	200	646	214	220	662
210/60 – 16 M/C	6.00	212	658	227	233	676
230/60 – 15 M/C	6.25	229	657	245	252	677

[a] For appropriate tyre size designation, see Clause 4.

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

Table 10 — Tyre dimensions (design and in-service) — 55 series tyres

Dimensions in millimetres

Tyre size designation [a]	**Measuring rim width code**	**Design tyre**		**In-service — Tread types A and B**		
		Section width S	**Overall diameter** D_o	**Maximum overall width** W_{max} Radial	Diagonal and bias-belted	**Maximum overall diameter** [b] $D_{o,max}$
130/55 – 16 M/C **130/55 – 17 M/C** **130/55 – 18 M/C** **130/55 – 19 M/C**	4.00	129	550 576 601 627	138	142	560 586 611 637
140/55 – 16 M/C **140/55 – 17 M/C** **140/55 – 18 M/C** **140/55 – 19 M/C**	4.50	141	560 586 611 637	151	155	570 596 621 647
150/55 – 16 M/C			572			584

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150/55 – 17 M/C	4.50	148	598	158	163	610
150/55 – 18 M/C			623			635
150/55 – 19 M/C			649			661
160/55 – 16 M/C			582			594
160/55 – 17 M/C			608			620
160/55 – 18 M/C	5.00	160	633	171	176	645
160/55 – 19 M/C			659			671
170/55 – 16 M/C			594			608
170/55 – 17 M/C			620			634
170/55 – 18 M/C	5.50	172	645	184	189	659
170/55 – 19 M/C			671			685
180/55 – 16 M/C			604			618
180/55 – 17 M/C			630			644
180/55 – 18 M/C	5.50	178	655	190	196	669
180/55 – 19 M/C			681			695
190/55 – 16 M/C			616			630
190/55 – 17 M/C			642			656
190/55 – 18 M/C	6.00	190	667	203	209	681
190/55 – 19 M/C			693			707
200/55 – 16 M/C			626			642
200/55 – 17 M/C	6.25	200	652	214	220	668
200/55 – 18 M/C			677			693
210/55 – 18 M/C	6.50	209	689	224	230	705
240/55 – 16 M/C	7.50	239	670	256	263	688

[a] For appropriate tyre size designation, see Clause 4.

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

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Table 11 — Tyre dimensions (design and in-service) — 50 series tyres

Dimensions in millimetres

Tyre size designation [a]	Measuring rim width code	Design tyre		In-service — Tread types A and B		
		Section width S	Overall diameter D_o	Maximum overall width W_{max} Radial	Maximum overall width W_{max} Diagonal and bias-belted	Maximum overall diameter [b] $D_{o,max}$
160/50 – 16 M/C **160/50 – 17 M/C** **160/50 – 18 M/C** **160/50 – 19 M/C**	5.00	160	566 592 617 643	171	176	578 604 629 655
170/50 – 16 M/C **170/50 – 17 M/C** **170/50 – 18 M/C** **170/50 – 19 M/C**	5.50	172	576 602 627 653	184	189	588 614 639 665
180/50 – 16 M/C **180/50 – 17 M/C** **180/50 – 18 M/C** **180/50 – 19 M/C**	5.50	178	586 612 637 663	190	196	598 624 649 675
190/50 – 16 M/C **190/50 – 17 M/C** **190/50 – 18 M/C** **190/50 – 19 M/C**	6.00	190	596 622 647 673	203	209	610 636 661 687
200/50 – 17 M/C **200/50 – 18 M/C**	6.25	200	632 657	214	221	646 671
210/50 – 17 M/C	6.50	209	642	224	230	656
240/50 – 16 M/C	7.50	239	646	256	263	662

[a] For appropriate tyre size designation, see Clause 4.
[b] Maximum overall diameters are related to service up to 150 km/h.

Table 12 — Tyre dimensions (design and in-service) — 40 series tyres

Dimensions in millimetres

Tyre size designation [a]	Measuring rim width code	Design tyre		In-service — Tread types A and B		
		Section width S	Overall diameter D_o	Maximum overall width W_{max} Radial	Maximum overall width W_{max} Diagonal and bias-belted	Maximum overall diameter [b] $D_{o,max}$
210/40 – 18 M/C	7.50	211	625	226	232	637
240/40 – 18 M/C	8.50	240	649	257	264	663
250/40 – 18 M/C	9.00	251	657	269	276	671
260/40 – 18 M/C	9.00	258	665	276	284	679
280/40 – 20 M/C	10.00	281	732	301	309	748
300/40 – 17 M/C	10.50	299	672	320	329	688

[a] For appropriate tyre size designation, see Clause 4.
[b] Maximum overall diameters are related to service up to 150 km/h.

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Table 13 — Tyre dimensions (design and in-service) — 35 series tyres

Dimensions in millimetres

Tyre size designation [a]	Measuring rim width code	Design tyre		In-service — Tread types A and B		
		Section width S	Overall diameter D_o	Maximum overall width W_{max} Radial	Maximum overall width W_{max} Diagonal and bias-belted	Maximum overall diameter [b] $D_{o,max}$
260/35 – 21 M/C	9.00	258	715	276	284	727
280/35 – 18 M/C	10.00	281	653	301	309	667
300/35 – 18 M/C	10.50	299	667	320	329	681

[a] For appropriate tyre size designation, see Clause 4.
[b] Maximum overall diameters are related to service up to 150 km/h.

Table 14 — Tyre dimensions (design and in-service) — 30 series tyres

Dimensions in millimetres

Tyre size designation [a]	Measuring rim width code	Design tyre		In-service — Tread types A and B		
		Section width S	Overall diameter D_o	Maximum overall width W_{max} Radial	Maximum overall width W_{max} Diagonal and bias-belted	Maximum overall diameter [b] $D_{o,max}$
330/30 – 17 M/C	11.50	328	630	351	361	644
360/30 – 18 M/C	13.00	362	673	387	398	689

[a] For appropriate tyre size designation, see Clause 4.
[b] Maximum overall diameters are related to service up to 150 km/h.

Table 15 — Maximum tyre load ratings — 100 series tyres with nominal rim diameter codes 13 and above

Tyre size designation [a]	Load index	Maximum load capacity [b] kg
50/100 – 14 M/C	19 [d]	77.5
60/100 – 14 M/C	29 [d]	103
70/100 – 14 M/C	37 [d]	128
	42 [c]	150
80/100 – 14 M/C	43 [d]	155
	49 [c]	185
90/100 – 14 M/C	49 [d]	185
	55 [c]	218
70/100 – 15 M/C	38 [d]	132
80/100 – 15 M/C	44 [d]	160
90/100 – 15 M/C	50 [d]	190
60/100 – 16 M/C	31 [d]	109
	38 [c]	132
70/100 – 16 M/C	39 [d]	136
	45 [c]	165
80/100 – 16 M/C	45 [d]	165
	51 [c]	195
90/100 – 16 M/C	51 [d]	195
	58 [c]	236
100/100 – 16 M/C	57 [d]	230
130/100 – 16 M/C	70 [d]	335
	76 [c]	400
140/100 – 16 M/C	74 [d]	375
	80 [c]	450
50/100 – 17 M/C	23 [d]	87.5
60/100 – 17 M/C	33 [d]	115
	39 [c]	136

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70/100 – 17 M/C	40 [d]	140
	46 [c]	170
80/100 – 17 M/C	46 [d]	170
	53 [c]	206
90/100 – 17 M/C	53 [d]	206
	59 [c]	243
100/100 – 17 M/C	58 [d]	236
	64 [c]	280
110/100 – 17 M/C	63 [d]	272
	69 [c]	325
120/100 – 17 M/C	67 [d]	307
	73 [c]	365
130/100 – 17 M/C	71 [d]	345
	77 [c]	412
Tyre size designation [a]	**Load index**	**Maximum load capacity** [b] kg
70/100 – 18 M/C	41 [d]	145
	47 [c]	175
80/100 – 18 M/C	47 [d]	175
	54 [c]	212
90/100 – 18 M/C	54 [d]	212
	60 [c]	250
100/100 – 18 M/C	59 [d]	243
	65 [c]	290
110/100 – 18 M/C	64 [d]	280
	70 [c]	335
120/100 – 18 M/C	68 [d]	315
	74 [c]	375
130/100 – 18 M/C	72 [d]	355
	78 [c]	425
70/100 – 19 M/C	42 [d]	150
	48 [c]	180
80/100 – 19 M/C	49 [d]	185
	55 [c]	218
90/100 – 19 M/C	55 [d]	218
	61 [c]	257
100/100 – 19 M/C	60 [d]	250
	66 [c]	300
110/100 – 19 M/C	65 [d]	290
	71 [c]	345
120/100 – 19 M/C	69 [d]	325
	75 [c]	387
130/100 – 19 M/C	73 [d]	365
	79 [c]	437
90/100 – 20 M/C	56 [d]	224
	62 [c]	265
70/100 – 21 M/C	44 [d]	160
80/100 – 21 M/C	51 [d]	195
90/100 – 21 M/C	57 [d]	230

[a] The full designation shall be as given in Clause 4.
[b] See Clause 8.
[c] Extra-load version.
[d] Normal-load version.

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Table 16 — Maximum tyre load ratings — 100 series tyres with nominal rim diameter codes 12 and below

Tyre size designation [a]	Load index	Maximum load capacity [b] kg
70/100 – 8	26 [e]	95
	36 [d]	125
	41 [c]	145
80/100 – 8	34 [e]	118
	43 [d]	155
	48 [c]	180
90/100 – 8	40 [e]	140
	49 [d]	185
	54 [c]	212
100/100 – 8	45 [e]	165
	55 [d]	218
	60 [c]	250
110/100 – 8	50 [e]	190
	60 [d]	250
	65 [c]	290
120/100 – 8	55 [e]	218
	65 [d]	290
	70 [c]	335
130/100 – 8	60 [e]	250
	69 [d]	325
	74 [c]	375
60/100 – 10	23 [e]	87.5
	33 [d]	115
	38 [c]	132
70/100 – 10	30 [e]	106
	40 [d]	140
	45 [c]	165
80/100 – 10	38 [e]	132
	46 [d]	170
	52 [c]	200
90/100 – 10	43 [e]	155
	53 [d]	206
	58 [c]	236
100/100 – 10	49 [e]	185
	59 [d]	243
	64 [c]	280
110/100 – 10	54 [e]	212
	64 [d]	280
	69 [c]	325
120/100 – 10	59 [e]	243
	68 [d]	315
	73 [c]	365
130/100 – 10	64 [e]	280
	73 [d]	365
	78 [c]	425
60/100 – 12	26 [e]	95
	36 [d]	125
	41 [c]	145
70/100 – 12	34 [e]	118
	43 [d]	155
	48 [c]	180
80/100 – 12	41 [e]	145
	50 [d]	190
	55 [c]	218
90/100 – 12	46 [e]	170
	56 [d]	224
	61 [c]	257
100/100 – 12	52 [e]	200
	62 [d]	265
	67 [c]	307
110/100 – 12	58 [e]	236
	67 [d]	307
	72 [c]	355
120/100 – 12	62 [e]	265
	71 [d]	345
	76 [c]	400
130/100 – 12	66 [e]	300
	75 [d]	387
	80 [c]	450

[a] The full designation shall be as given in Clause 4.
[b] See Clause 8.
[c] Extra-load version.
[d] Normal-load version.
[e] Light-load version.

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Table 17 — Maximum tyre load ratings — 90 series tyres with nominal rim diameter codes 13 and above

Tyre size designation [a]	Load index	Maximum load capacity [b] kg
110/90 – 13 M/C	55 [d]	218
70/90 – 14 M/C	34 [d]	118
	40 [c]	140
80/90 – 14 M/C	40 [d]	140
	46 [c]	170
90/90 – 15 M/C	47 [d]	175
100/90 – 15 M/C	53 [d]	206
110/90 – 15 M/C	58 [d]	236
120/90 – 15 M/C	62 [d]	265
130/90 – 15 M/C	66 [d]	300
140/90 – 15 M/C	70 [d]	335
	76 [c]	400
150/90 – 15 M/C	74 [d]	375
	80 [c]	450
60/90 – 16 M/C	29 [d]	103
	35 [c]	121
70/90 – 16 M/C	36 [d]	125
	42 [c]	150
80/90 – 16 M/C	43 [d]	155
	48 [c]	180
90/90 – 16 M/C	48 [d]	180
	55 [c]	218
100/90 – 16 M/C	54 [d]	212
110/90 – 16 M/C	59 [d]	243
120/90 – 16 M/C	63 [d]	272
130/90 – 16 M/C	67 [d]	307
	73 [c]	365
140/90 – 16 M/C	71 [d]	345
	77 [c]	412
150/90 – 16 M/C	75 [d]	387
	81 [c]	462
50/90 – 17 M/C	21 [d]	82.5
60/90 – 17 M/C	30 [d]	106
	36 [c]	125
70/90 – 17 M/C	38 [d]	132
	43 [c]	155
80/90 – 17 M/C	44 [d]	160
	50 [c]	190
90/90 – 17 M/C	49 [d]	185
	56 [c]	224
100/90 – 17 M/C	55 [d]	218
	61 [c]	257
110/90 – 17 M/C	60 [d]	250
	66 [c]	300
120/90 – 17 M/C	64 [d]	280
	70 [c]	335
130/90 – 17 M/C	68 [d]	315
	74 [c]	375
140/90 – 17 M/C	72 [d]	355
150/90 – 17 M/C	76 [d]	400
70/90 – 18 M/C	39 [d]	136
	44 [c]	160
80/90 – 18 M/C	45 [d]	165
	51 [c]	195
90/90 – 18 M/C	51 [d]	195
	57 [c]	230
100/90 – 18 M/C	56 [d]	224
	62 [c]	265
110/90 – 18 M/C	61 [d]	257
	67 [c]	307
120/90 – 18 M/C	65 [d]	290
	71 [c]	345
130/90 – 18 M/C	69 [d]	325
	75 [c]	387
140/90 – 18 M/C	73 [d]	365
70/90 – 19 M/C	40 [d]	140
	45 [c]	165
80/90 – 19 M/C	46 [d]	170
	52 [c]	200
90/90 – 19 M/C	52 [d]	200
	58 [c]	236
100/90 – 19 M/C	57 [d]	230
	63 [c]	272
110/90 – 19 M/C	62 [d]	265
	68 [c]	315
120/90 – 19 M/C	66 [d]	300
	72 [c]	355
130/90 – 19 M/C	70 [d]	355
	76 [c]	400
70/90 – 21 M/C	43 [d]	155
80/90 – 21 M/C	48 [d]	180
90/90 – 21 M/C	54 [d]	212
100/90 – 21 M/C	59 [d]	243

[a] The full designation shall be as given in Clause 4.
[b] See Clause 8.
[c] Extra-load version.
[d] Normal-load version.

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Table 18 — Maximum tyre load ratings — 90 series tyres with nominal rim diameter codes 12 and below

Tyre size designation [a]	Load index	Maximum load capacity [b] kg
60/90 – 8	16 [e]	71
	25 [d]	92,5
	30 [c]	106
70/90 – 8	24 [e]	90
	34 [d]	118
	39 [c]	136
80/90 – 8	31 [e]	109
	41 [d]	145
	46 [c]	170
90/90 – 8	38 [e]	132
	47 [d]	175
	52 [c]	200
100/90 – 8	43 [e]	155
	53 [d]	206
	58 [c]	236
110/90 – 8	48 [e]	180
	58 [d]	236
	63 [c]	272
120/90 – 8	52 [e]	200
	62 [d]	265
	67 [c]	307
130/90 – 8	57 [e]	230
	66 [d]	300
	71 [c]	345
60/90 – 10	20 [e]	80
	30 [d]	106
	35 [c]	121
70/90 – 10	28 [e]	100
	38 [d]	132
	43 [c]	155
80/90 – 10	35 [e]	121
	44 [d]	160
	49 [c]	185
90/90 – 10	41 [e]	145
	50 [d]	190
	55 [c]	218
100/90 – 10	46 [e]	170
	56 [d]	224
	61 [c]	257
110/90 – 10	51 [e]	195
	61 [d]	257
	66 [c]	300
120/90 – 10	57 [e]	230
	66 [d]	300
	71 [c]	345
130/90 – 10	61 [e]	257
	70 [d]	335
	75 [c]	387
60/90 – 12	24 [e]	90
	34 [d]	118
	39 [c]	136
70/90 – 12	31 [e]	109
	41 [d]	145
	46 [c]	170
80/90 – 12	39 [e]	136
	48 [d]	180
	53 [c]	206
90/90 – 12	44 [e]	160
	54 [d]	212
	59 [c]	243
100/90 – 12	49 [e]	185
	59 [d]	243
	64 [c]	280
110/90 – 12	54 [e]	212
	64 [d]	280
	69 [c]	325
120/90 – 12	60 [e]	250
	69 [d]	325
	74 [c]	375
130/90 – 12	64 [e]	280
	73 [d]	365
	78 [c]	425

[a] The full designation shall be as given in Clause 4.
[b] See Clause 8.
[c] Extra-load version.
[d] Normal-load version.
[e] Light-load version.

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Table 19 — Maximum tyre load ratings — 80 series tyres with nominal rim diameter codes 13 and above

Tyre size designation [a]	Load index	Maximum load capacity [b] kg
120/80 – 13 M/C	56 [d]	224
	62 [c]	265
80/80 – 14 M/C	43 [c]	155
90/80 – 14 M/C	43 [d]	155
	49 [c]	185
100/80 – 14 M/C	48 [d]	180
	54 [c]	212
110/80 – 14 M/C	53 [d]	206
	59 [c]	243
120/80 – 14 M/C	58 [d]	236
130/80 – 14 M/C	62 [d]	265
160/80 – 14 M/C	72 [d]	355
180/80 – 14 M/C	78 [d]	425
130/80 – 15 M/C	63 [d]	272
140/80 – 15 M/C	67 [d]	307
	73 [c]	365
150/80 – 15 M/C	70 [d]	335
	76 [c]	400
160/80 – 15 M/C	74 [d]	375
170/80 – 15 M/C	77 [d]	412
	83 [c]	487
80/80 – 16 M/C	40 [d]	140
	45 [c]	165
90/80 – 16 M/C	45 [d]	165
	51 [c]	195
100/80 – 16 M/C	50 [d]	190
110/80 – 16 M/C	55 [d]	218
120/80 – 16 M/C	60 [d]	250
130/80 – 16 M/C	64 [d]	280
140/80 – 16 M/C	68 [d]	315
150/80 – 16 M/C	71 [d]	345
	77 [c]	412
160/80 – 16 M/C	75 [d]	387
	81 [c]	462
60/80 – 17 M/C	27 [d]	97.5
70/80 – 17 M/C	35 [d]	121
80/80 – 17 M/C	41 [d]	145
90/80 – 17 M/C	46 [d]	170
100/80 – 17 M/C	52 [d]	200

Tyre size designation [a]	Load index	Maximum load capacity [b] kg
110/80 – 17 M/C	57 [d]	230
120/80 – 17 M/C	61 [d]	257
	67 [c]	307
130/80 – 17 M/C	65 [d]	290
140/80 – 17 M/C	69 [d]	325
150/80 – 17 M/C	72 [d]	355
70/80 – 18 M/C	36 [d]	125
	41 [c]	145
80/80 – 18 M/C	42 [d]	150
	48 [c]	180
90/80 – 18 M/C	47 [d]	175
	54 [c]	212
100/80 – 18 M/C	53 [d]	206
	59 [c]	243
110/80 – 18 M/C	58 [d]	236
	64 [c]	280
120/80 – 18 M/C	62 [d]	265
	68 [c]	315
130/80 – 18 M/C	66 [d]	300
	72 [c]	355
140/80 – 18 M/C	70 [d]	335
	76 [c]	400
150/80 – 18 M/C	73 [d]	365
	79 [c]	437
160/80 – 18 M/C	83 [c]	487
80/80 – 19 M/C	43 [d]	155
90/80 – 19 M/C	49 [d]	185
100/80 – 19 M/C	54 [d]	212
110/80 – 19 M/C	59 [d]	243
120/80 – 19 M/C	63 [d]	272
130/80 – 19 M/C	67 [d]	307
140/80 – 19 M/C	71 [d]	345
80/80 – 21 M/C	45 [d]	165
90/80 – 21 M/C	51 [d]	195
100/80 – 21 M/C	56 [d]	224

[a] The full designation shall be as given in Clause 4.
[b] See Clause 8.
[c] Extra-load version.
[d] Normal-load version.

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Table 20 — Maximum tyre load ratings — 80 series tyres with nominal rim diameter codes 12 and below

Tyre size designation [a]	Load index	Maximum load capacity [b] kg
60/80 – 8	13 [e]	65
	22 [d]	85
	27 [c]	97,5
70/80 – 8	20 [e]	80
	30 [d]	106
	35 [c]	121
80/80 – 8	27 [e]	97,5
	37 [d]	128
	42 [c]	150
90/80 – 8	34 [e]	118
	43 [d]	155
	48 [c]	180
100/80 – 8	40 [e]	140
	49 [d]	185
	54 [c]	212
110/80 – 8	44 [e]	160
	54 [d]	212
	59 [c]	243
120/80 – 8	49 [e]	185
	59 [d]	243
	64 [c]	280
130/80 – 8	53 [e]	206
	63 [d]	272
	68 [c]	315
60/80 – 10	17 [e]	73
	26 [d]	95
	31 [c]	109
70/80 – 10	25 [e]	92,5
	35 [d]	121
	40 [c]	140
80/80 – 10	31 [e]	109
	41 [d]	145
	46 [c]	170
90/80 – 10	38 [e]	132
	47 [d]	175
	52 [c]	200
100/80 – 10	43 [e]	155
	53 [d]	206
	58 [c]	236
110/80 – 10	48 [e]	180
	58 [d]	236
	63 [c]	272
120/80 – 10	52 [e]	200
	62 [d]	265
	67 [c]	307
130/80 – 10	57 [e]	230
	66 [d]	300
	71 [c]	345
150/80 – 10	65 [e]	290
	74 [d]	375
60/80 – 12	20 [e]	80
	30 [d]	106
	35 [c]	121
70/80 – 12	28 [e]	100
	38 [d]	132
	43 [c]	155
80/80 – 12	35 [e]	121
	44 [d]	160
	49 [c]	185
90/80 – 12	41 [e]	145
	50 [d]	190
	55 [c]	218
100/80 – 12	46 [e]	170
	56 [d]	224
	61 [c]	257
110/80 – 12	51 [e]	195
	61 [d]	257
	66 [c]	300
120/80 – 12	55 [e]	218
	65 [d]	290
	70 [c]	335
130/80 – 12	60 [e]	250
	69 [d]	325
	74 [c]	375
140/80 – 12	74 [d]	375

[a] The full designation shall be as given in Clause 4.
[b] See Clause 8.
[c] Extra-load version.
[d] Normal-load version.
[e] Light-load version.

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Table 21 — Maximum tyre load ratings for 75 series tyres

Tyre size designation [a]	Load index	Maximum load capacity [b] kg
140/75 – 17 M/C	67	307

[a] The full designation shall be as given in Clause 4.
[b] See Clause 8. Normal-load version.

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Table 22 — Maximum tyre load ratings for 70 series tyres

Tyre size designation [a]	Load index	Maximum load capacity [b] kg
80/70 – 16 M/C	43 [c]	155
100/70 – 16 M/C	47 [d]	175
100/70 – 17 M/C	49 [d]	185
100/70 – 18 M/C	50 [d]	190
100/70 – 19 M/C	51 [d]	195
110/70 – 12	47 [d]	175
110/70 – 16 M/C	52 [d]	200
110/70 – 17 M/C	54 [d]	212
110/70 – 18 M/C	55 [d]	218
110/70 – 19 M/C	56 [d]	224
120/70 – 10	48 [d]	180
	54 [c]	212
120/70 – 11	50 [d]	190
	56 [c]	224
120/70 – 12	44 [e]	160
	51 [d]	195
	58 [c]	236
120/70 – 13 M/C	53 [d]	206
120/70 – 14 M/C	55 [d]	218
	61 [c]	257
120/70 – 15 M/C	56 [d]	224
120/70 – 16 M/C	57 [d]	230
120/70 – 17 M/C	58 [d]	236
120/70 – 18 M/C	59 [d]	243
120/70 – 19 M/C	60 [d]	250
120/70 – 21 M/C	62 [d]	265
130/70 – 8	42 [c]	150
130/70 – 10	52 [d]	200
	59 [c]	243
130/70 – 11	54 [d]	212
	60 [c]	250
130/70 – 12	49 [e]	185
	56 [d]	224
	62 [c]	265
130/70 – 13 M/C	57 [d]	230
	63 [c]	272
130/70 – 16 M/C	61 [d]	257
130/70 – 17 M/C	62 [d]	265
130/70 – 18 M/C	63 [d]	272
	69 [c]	325
130/70 – 19 M/C	64 [d]	280
130/70 – 24 M/C	69 [d]	325
140/70 – 8	53 [d]	206
140/70 – 12	60 [d]	250
	65 [c]	290
140/70 – 14 M/C	62 [d]	265
	68 [c]	315
140/70 – 15 M/C	69 [c]	325
140/70 – 16 M/C	65 [d]	290
140/70 – 17 M/C	66 [d]	300
140/70 – 18 M/C	67 [d]	307
140/70 – 19 M/C	68 [d]	315
140/70 – 21 M/C	76 [c]	400
150/70 – 13 M/C	64 [d]	280
150/70 – 14 M/C	66 [d]	300
	72 [c]	355
150/70 – 16 M/C	68 [d]	315
150/70 – 17 M/C	69 [d]	325
150/70 – 18 M/C	70 [d]	335
150/70 – 19 M/C	71 [d]	345
160/70 – 16 M/C	71 [d]	345
160/70 – 17 M/C	73 [d]	365
	79 [c]	437
160/70 – 18 M/C	74 [d]	375
160/70 – 19 M/C	75 [d]	387
170/70 – 15 M/C	73 [d]	365
170/70 – 16 M/C	75 [d]	387
180/70 – 15 M/C	76 [d]	400
180/70 – 16 M/C	77 [d]	412
200/70 – 15 M/C	82 [d]	475

[a] The full designation shall be as given in Clause 4.
[b] See Clause 8.
[c] Extra-load version.
[d] Normal-load version.
[e] Light-load version.

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Table 23 — Maximum tyre load ratings for 65 series tyres

Tyre size designation [a]	Load index	Maximum load capacity [b] kg
120/65 – 17 M/C	56 [d]	224
180/65 – 16 M/C	81 [c]	462

[a] The full designation shall be as given in Clause 4.
[b] See Clause 8.
[c] Extra-load version.
[d] Normal-load version.

Table 24 — Maximum tyre load ratings for 60 series tyres

Tyre size designation [a]	Load index	Maximum load capacity [b] kg
110/60 – 16 M/C	49 [d]	185
110/60 – 17 M/C	50 [d]	190
110/60 – 18 M/C	51 [d]	195
110/60 – 19 M/C	53 [d]	206
120/60 – 16 M/C	53 [d]	206
120/60 – 17 M/C	55 [d]	218
120/60 – 18 M/C	56 [d]	224
120/60 – 19 M/C	57 [d]	230
130/60 – 13 M/C	53 [d]	206
	60 [c]	250
130/60 – 16 M/C	58 [d]	236
130/60 – 17 M/C	59 [d]	243
130/60 – 18 M/C	60 [d]	250
130/60 – 19 M/C	61 [d]	257
130/60 – 23 M/C	65 [d]	290
140/60 – 12	56 [d]	224
	62 [c]	265
140/60 – 13 M/C	57 [d]	230
	63 [c]	272
140/60 – 14 M/C	64 [c]	280
140/60 – 16 M/C	61 [d]	257
140/60 – 17 M/C	63 [d]	272
140/60 – 18 M/C	64 [d]	280
140/60 – 19 M/C	65 [d]	290
150/60 – 13 M/C	61 [d]	257
	66 [c]	300
150/60 – 14 M/C	62 [d]	256
150/60 – 16 M/C	65 [d]	290
150/60 – 17 M/C	66 [d]	300
150/60 – 18 M/C	67 [d]	307
150/60 – 19 M/C	68 [d]	315
160/60 – 14 M/C	65 [d]	290
160/60 – 15 M/C	67 [d]	307
160/60 – 16 M/C	68 [d]	315
160/60 – 17 M/C	69 [d]	325
160/60 – 18 M/C	70 [d]	335
160/60 – 19 M/C	71 [d]	345
170/60 – 16 M/C	71 [d]	345
170/60 – 17 M/C	72 [d]	355
170/60 – 18 M/C	73 [d]	365
170/60 – 19 M/C	74 [d]	375
180/60 – 16 M/C	74 [d]	375
180/60 – 17 M/C	75 [d]	387
190/60 – 17 M/C	78 [d]	425
200/60 – 16 M/C	79 [d]	437
210/60 – 16 M/C	82 [d]	475
230/60 – 15 M/C	86 [d]	530

[a] The full designation shall be as given in Clause 4.
[b] See Clause 8.
[c] Extra-load version.
[d] Normal-load version.

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Table 25 — Maximum tyre load ratings for 55 series tyres

Tyre size designation [a]	Load index	Maximum load capacity [b] kg
130/55 – 16 M/C	55	218
130/55 – 17 M/C	57	230
130/55 – 18 M/C	58	236
130/55 – 19 M/C	59	243
140/55 – 16 M/C	59	243
140/55 – 17 M/C	60	250
140/55 – 18 M/C	61	257
140/55 – 19 M/C	62	265
150/55 – 16 M/C	63	272
150/55 – 17 M/C	64	280
150/55 – 18 M/C	65	290
150/55 – 19 M/C	66	300
160/55 – 16 M/C	65	290
160/55 – 17 M/C	67	307
160/55 – 18 M/C	68	315
160/55 – 19 M/C	69	325
170/55 – 16 M/C	69	325
170/55 – 17 M/C	70	335
170/55 – 18 M/C	71	345
170/55 – 19 M/C	72	355
180/55 – 16 M/C	71	345
180/55 – 17 M/C	73	365
180/55 – 18 M/C	74	375
180/55 – 19 M/C	75	387
190/55 – 16 M/C	74	375
190/55 – 17 M/C	75	387
190/55 – 18 M/C	76	400
190/55 – 19 M/C	77	412
200/55 – 16 M/C	77	412
200/55 – 17 M/C	78	425
200/55 – 18 M/C	79	437
210/55 – 18 M/C	82	462
240/55 – 16 M/C	86	530

[a] The full designation shall be as given in Clause 4.
[b] See Clause 8. Normal-load version.

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Table 26 — Maximum tyre load ratings for 50 series tyres

Tyre size designation [a]	Load index	Maximum load capacity [b] kg
160/50 – 16 M/C	63	272
160/50 – 17 M/C	64	280
160/50 – 18 M/C	65	290
160/50 – 19 M/C	66	300
170/50 – 16 M/C	66	300
170/50 – 17 M/C	67	307
170/50 – 18 M/C	68	315
170/50 – 19 M/C	69	325
180/50 – 16 M/C	69	325
180/50 – 17 M/C	70	335
180/50 – 18 M/C	71	345
180/50 – 19 M/C	72	355
190/50 – 16 M/C	72	355
190/50 – 17 M/C	73	365
190/50 – 18 M/C	74	375
190/50 – 19 M/C	75	387
200/50 – 17 M/C	75	387
200/50 – 18 M/C	76	400
210/50 – 17 M/C	78	425
240/50 – 16 M/C	84	500

[a] The full designation shall be as given in Clause 4.
[b] See Clause 8. Normal-load version.

Table 27 — Maximum tyre load ratings for 40 series tyres

Tyre size designation [a]	Load index	Maximum load capacity [b] kg
210/40 – 18 M/C	73	365
240/40 – 18 M/C	79	437
250/40 – 18 M/C	81	462
260/40 – 18 M/C	84	500
280/40 – 20 M/C	89	580
300/40 – 17 M/C	90	600

[a] The full designation shall be as given in Clause 4.
[b] See Clause 8. Normal-load version.

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Table 28 — Maximum tyre load ratings for 35 series tyres

Tyre size designation [a]	Load index	Maximum load capacity [b] kg
260/35 – 21 M/C	83	487
280/35 – 18 M/C	84	500
300/35 – 18 M/C	87	545

[a] The full designation shall be as given in Clause 4.
[b] See Clause 8. Normal-load version.

Table 29 — Maximum tyre load ratings for 30 series tyres

Tyre size designation [a]	Load index	Maximum load capacity [b] kg
330/30 – 17 M/C	87	545
360/30 – 18 M/C	92	630

[a] The full designation shall be as given in Clause 4.
[b] See Clause 8. Normal-load version.

Table 30 — Variation of maximum load capacities of tyres according to maximum speed of motorcycle
(see 7.2)

Maximum speed (km/h)	Maximum load variation (%) at various maximum speeds for tyres with speed symbol:					
	J	**K**	**L**	**M**	**N**	**P and above**
50	+ 30	+ 30	+ 30			
60	+ 23	+ 23	+ 23			
70	+ 16	+ 16	+ 16			
80	+ 10	+ 10	+ 10			+ 14
90	+ 5	+ 5	+ 7,5			+ 12
100	[0]	0	+ 5			+ 10
110	N/A	[0]	+ 2,5			+ 8
120	N/A	N/A	[0]	0	0	+ 6
130	N/A	N/A	N/A	[0]	0	+ 4
140	N/A	N/A	N/A	N/A	[0]	0

Square brackets identify the maximum speed for the speed symbol.
N/A Not applicable.

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Annex A
(informative)

Harmonized load indices

The following load indices (Tables A.1 to A.12) are given for reference purposes and refer to standard load tyres. They conform to the load indices given in Tables 15 to 29.

The reference pressure is 225 kPa, except for 80 series and above tyres with rim diameter codes 12 and below for which the reference pressure is 250 kPa.

Table A.1 — Harmonized load indices — 30 series tyres

Nominal section width S_N	Nominal rim diameter code				
	16M/C	17 M/C	18 M/C	19 M/C	21 M/C
330		87			
360			92		

Table A.2 — Harmonized load indices — 35 series tyres

Nominal section width S_N	Nominal rim diameter code				
	16M/C	17 M/C	18 M/C	19 M/C	21 M/C
260					83
280			84		
300			87		

Table A.3 — Harmonized load indices — 40 series tyres

Nominal section width S_N	Nominal rim diameter code					
	16M/C	17 M/C	18 M/C	19 M/C	20 M/C	21 M/C
210			73			
240			79			
250			81			
260			84			
280					89	
300		90				

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Table A.4 — Harmonized load indices — 50 series tyres

Nominal section width S_N	Nominal rim diameter code				
	16M/C	17 M/C	18 M/C	19 M/C	21 M/C
160	63	64	65	66	68
170	66	67	68	69	71
180	69	70	71	72	74
190	72	73	74	75	77
200	74	75	76	77	79
210	77	78	79	80	82
220	79	80	81	82	84
230	81	82	84	85	87
240	84	85	86	87	89

Table A.5 — Harmonized load indices — 55 series tyres

Nominal section width S_N	Nominal rim diameter code				
	16 M/C	17 M/C	18 M/C	19 M/C	21 M/C
130	55	57	58	59	
140	59	60	61	62	
150	63	64	65	66	
160	65	67	68	69	71
170	69	70	71	72	74
180	71	73	74	75	77
190	74	75	76	77	79
200	77	78	79	80	82
210	79	80	82	83	85
240	86				

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Table A.6 — Harmonized load indices — 60 series tyres

Nominal section width S_N	Nominal rim diameter code									
	12"	13 M/C	14 M/C	15 M/C	16 M/C	17 M/C	18 M/C	19 M/C	21 M/C	23 M/C
110		45	46	47	49	50	51	53		
120		49	51	52	53	55	56	57		
130	52	53	55	56	58	59	60	61		65
140	56	57	59	60	61	63	64	65		
150	59	61	62	64	65	66	67	68	70	
160	63	64	65	67	68	69	70	71	73	
170	66	67	69	70	71	72	73	74	76	
180	69	70	72	73	74	75	76	77	79	
190				75	77	78	79	80	82	
200				78	79	80	81	82	84	
210				81	82	83	84	85	87	
220				83	84	85	86	88	89	
230				86	87	88	89	90	91	

Table A.7 — Harmonized load indices — 65 series tyres

Nominal section width S_N	Nominal rim diameter code			
	16 M/C	17 M/C	18 M/C	19 M/C
100	45	47	48	49
110	50	52	53	54
120	55	56	57	58
130	59	60	61	63
140	63	64	65	66
150	66	67	69	70
160	69	70	72	73
170	73	74	75	76
180	75	76	77	78
190	78			

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Table A.8 — Harmonized load indices — 70 series tyres

Nominal section width S_N	Nominal rim diameter code												
	8"	10"	11"	12"	13 M/C	14 M/C	15 M/C	16 M/C	17 M/C	18 M/C	19 M/C	21 M/C	24 M/C
80					33	34	36	37					
90					39	40	41	42					
100					43	45	46	47	49	50	51	53	
110	40	43		47	48	50	51	52	54	55	56	58	
120	44	48	50	51	53	55	56	57	58	59	60	62	
130	48	52	54	56	57	59	60	61	62	63	64	66	69
140	53	56		60	61	62	64	65	66	67	68	70	
150					64	66	67	68	69	70	71	73	
160							70	71	73	74	75	76	
170							73	75	76	77	78	79	
180							76	77	78	79	80	82	
190							79	80	81	82	83	85	
200							82	83	84	85	86	88	

Table A.9 — Harmonized load indices — 75 series tyres

Nominal section width S_N	Nominal rim diameter code				
	16M/C	17 M/C	18 M/C	19 M/C	21 M/C
140		67			

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Table A.10 — Harmonized load indices — 80 series tyres

Nominal section width S_N	Nominal rim diameter code										
	8"	10"	12"	13 M/C	14 M/C	15 M/C	16 M/C	17 M/C	18 M/C	19 M/C	21 M/C
60	22	26	30					27			
70	30	35	38	29	30	32	33	35	36	37	
80	37	41	44	36	37	39	40	41	42	43	45
90	43	47	50	41	43	44	45	46	47	49	51
100	49	53	56	46	48	49	50	52	53	54	56
110	54	58	61	51	53	54	55	57	58	59	61
120	59	62	65	56	58	59	60	61	62	63	65
130	63	66	69		62	63	64	65	66	67	69
140			74		65	67	68	69	70	71	73
150		74			69	70	71	72	73	75	76
160					72	74	75	76	77	78	79
170					75	77	78	79	80	81	83
180					78	79	81	82	83	84	

Table A.11 — Harmonized load indices — 90 series tyres

Nominal section width S_N	Nominal rim diameter code										
	8"	10"	12"	13 M/C	14 M/C	15 M/C	16 M/C	17 M/C	18 M/C	19 M/C	21 M/C
50								21			
60	25	30	34	24	26	27	29	30			
70	34	38	41	32	34	35	36	38	39	40	43
80	41	44	48	39	40	41	43	44	45	46	48
90	47	50	54	44	46	47	48	49	51	52	54
100	53	56	59	50	51	53	54	55	56	57	59
110	58	61	64	55	56	58	59	60	61	62	64
120	62	66	69			62	63	64	65	66	68
130	66	70	73			66	67	68	69	70	72
140						70	71	72	73	74	76
150						74	75	76	77	78	79

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Table A.12 — Harmonized load indices — 100 series tyres

Nominal section width S_N	Nominal rim diameter code										
	8"	10"	12"	14 M/C	15 M/C	16 M/C	17 M/C	18 M/C	19 M/C	20 M/C	21 M/C
50				19			23				
60		33	36	29	30	31	33				
70	36	40	43	37	38	39	40	41	42		44
80	43	46	50	43	44	45	46	47	49		51
90	49	53	56	49	50	51	53	54	55	56	57
100	55	59	62			57	58	59	60		62
110	60	64	67			62	63	64	65		67
120	65	68	71			66	67	68	69		71
130	69	73	75			70	71	72	73		75
140						74	75	76	77		79

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