INTERNATIONAL STANDARD

ISO 5751-3

Fourth edition
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Motorcycle tyres and rims (metric series) —

Part 3:
Range of approved rim contours

Pneumatiques et jantes pour motocycles (série métrique) —

Partie 3: Gamme des profils de jante homologués

Reference number
ISO 5751-3:1999(E)

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 3.

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.

International Standard ISO 5751-3 was prepared by Technical Committee ISO/TC 31, *Tyres, rims and valves*, Subcommittee SC 10, *Cycle, moped, motorcycle tyres and rims*.

This fourth edition cancels and replaces the third edition (ISO 5751-3:1994), of which it constitutes a technical revision.

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 3:
Range of approved rim contours

1 Scope

This part of ISO 5751 specifies the approved rim contours for motorcycle rims on which motorcycle tyres (metric series) are mounted.

NOTE ISO 4249 deals with the requirements for motorcycle tyres and rims (code-designated series) for rim diameters code 13 and above. ISO 6054 deals with the requirements for motorcycle tyres and rims (code-designated series) for rim diameters code 12 and below.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 5751. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 5751 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 4249-3:1997, *Motorcycle tyres and rims (code-designated series) — Part 3: Rims*.

ISO 5751-2:1994, *Motorcycle tyres and rims (metric series) — Part 2: Tyre dimensions and load-carrying capacities*.

ISO 6054-2:1990, *Motorcycle tyres and rims (Code-designated series) — Diameter codes 4 to 12 — Part 2: Rims*.

3 Approved rim contours

3.1 Table 1 defines the range of permitted rims.

Table 1 — Coefficients for approved rims

Series	Construction	Coefficient, R_x		
		theoretical, R_{th}	minimum, R_{min}	maximum, R_{max}
100 to 80	Bias	0,60	0,50	0,70
	Radial	0,60	0,60	0,70
70 and 60	Bias	0,70	0,60	0,80
	Radial	0,70	0,70	0,80
below 60	Bias and radial	0,80	0,75	0,85
Rim width = Nominal width (S_N) × R_x Values shall be rounded to the nearest standardized nominal rim width code as specified in ISO 4249-3.				

3.2 Table 2 lists the rim contour codes approved for fitment to motorcycle tyres (metric series).

The dimensions of the rim contours, the diameter details and the complete marking of rims with nominal rim diameter code 13 and above shall be as specified in ISO 4249-3.

The dimensions of the rim contours, the diameter details and the complete marking of rims with nominal rim diameter code 12 and below shall be as specified in ISO 6054-2.

3.3 The recommended rims correspond to the measuring rim widths specified in ISO 5751-2.

3.4 The design new tyre section width, S, and the maximum overall width in service, W_{max}, specified in ISO 5751-2 will change 1 mm for each 0.1 code (2,5 mm) change in rim width from the recommended (measuring) rim width.

Table 2 — Approved rim contours

Nominal tyre section width	Approved rims [a, b, c]
Metric 55 and 50 series	
130	MT3.75; MT4.00
140	MT4.00; MT4.50
150	MT4.50; MT5.00
160	MT4.50; MT5.00
170	MT5.00; MT5.50
180	MT5.50; MT6.00
190	MT5.50; MT6.00
200	MT6.00; MT6.25; MT6.50
Metric 60 and 70 series	
100	(2.50); (MT2.50); 2.75; MT2.75; MT3.00
110	(2.50); (MT2.50); (2.75); (MT2.75); MT3.00; MT3.50
120	(MT2.75); (MT3.00); MT3.50; MT3.75
130	(MT3.00); MT3.50; MT3.75; MT4.00
140	(MT3.50); (MT3.75); MT4.00; MT4.50
150	(MT3.50); (MT3.75); MT4.00; MT4.50
160	(MT3.75); (MT4.00); MT4.50; MT5.00
170	(MT4.00); MT4.50; MT5.00; MT5.50
180	(MT4.50); MT5.00; MT5.50
Metric 80, 90 and 100 series	
60	(1.20); 1.40; 1.50; 1.60
70	(1.40); (1.50); (MT1.50); 1.60; MT1.60; 1.85; MT1.85;
80	(1.60); 1.85; 2.15; MT1.85; MT2.15
90	(1.85); 2.15; 2.50; (MT1.85); MT2.15; MT2.50
100	(2.15); 2.50; 2.75; (MT2.15); MT2.50; MT2.75
110	(2.15); 2.50; 2.75; (MT2.15); MT2.50; MT2.75; MT3.00
120	(2.50); 2.75; (MT2.50); MT2.75; MT3.00
130 [d]	(2.50); (2.75); MT2.50); (MT2.75); MT3.00; MT3.50
140	(2.75); (MT2.75); (MT3.00); MT3.50; MT3.75
150	(MT3.00); MT3.50; MT3.75; MT4.00
160	(MT3.50); MT3.75; MT4.00; MT4.50

[a] Recommended rims are the measuring rims.

[b] Care should be taken not to fit motorcycle tyres to rims designed for tyres for other types of service (e.g. passenger car or agricultural tyres). Cylindrical bead seat rims are for tube-type tyres only.

[c] Rims within parentheses are permitted for diagonal ply and bias belted tyres only.

[d] For tyre size 130/90-16, a 3.00D rim (see ISO 6054-2) is permitted for motorcycles with a maximum speed up to 150 km/h.