

International Standard



6054/2

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**Motorcycle tyres and rims (diameter codes 4 to 12) —  
Scooter type —  
Part 2 : Rims**

*Pneumatiques et jantes pour motocycles (codes de diamètre 4 à 12) — Type scooter — Partie 2 : Jantes*

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## Foreword

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International Standard ISO 6054/2 was prepared by Technical Committee ISO/TC 31, *Tyres, rims and valves*.

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# Motorcycle tyres and rims (diameter codes 4 to 12) — Scooter type — Part 2 : Rims

## 1 Scope and field of application

This part of ISO 6054 lays down rim dimensions for existing series of scooter tyres for diameter codes 4 to 12. It sets only those rim contour dimensions necessary for the mounting and fitment of the tyre to the rim.

Tyre designations and dimensions such as load ratings are given in ISO 6054/1.

## 2 Reference

ISO 3911, *Wheels/rims — Nomenclature, designation, marking and units of measurement.*

## 3 Finish

### 3.1 Rim contour

The rim on the side of the tyre shall have a smooth contour free of sharp edges.

### 3.2 Rim valve hole

Valve hole edges on the tyre side of rims shall be rounded or chamfered. On the hub side, the edges shall be free of burrs, which could damage the valve.

## 4 Designation

The rim should be designated by its diameter code and nominal rim width code (for example, 8 × 2.10). (See also ISO 3911.)

## 5 Divided rims<sup>1)</sup>

### 5.1 Rim contours

Dimensions and tolerances for divided rims are given in table 1.

### 5.2 Rim diameters

The rim diameter code and specified rim diameters are given in table 2.

## 6 Drop-centre rims<sup>1)</sup>

### 6.1 Rim contours

Dimensions and tolerances for drop-centre rims are given in table 3.

### 6.2 Rim diameters

The rim diameter code and specified rim diameters are given in table 4.

## 7 Permitted rim widths

The permitted widths of rims are indicated in table 5.

## 8 Rim circumference measurement

Information on rim circumference measurement is given in the annex.

1) Future study is to cover harmonization of rim dimensions and tolerances for 2.50 C, 3.00 D and 4.00 E rims, in ISO 3739/1 (at present at the stage of draft), ISO 4251/3 and this part of ISO 6054.

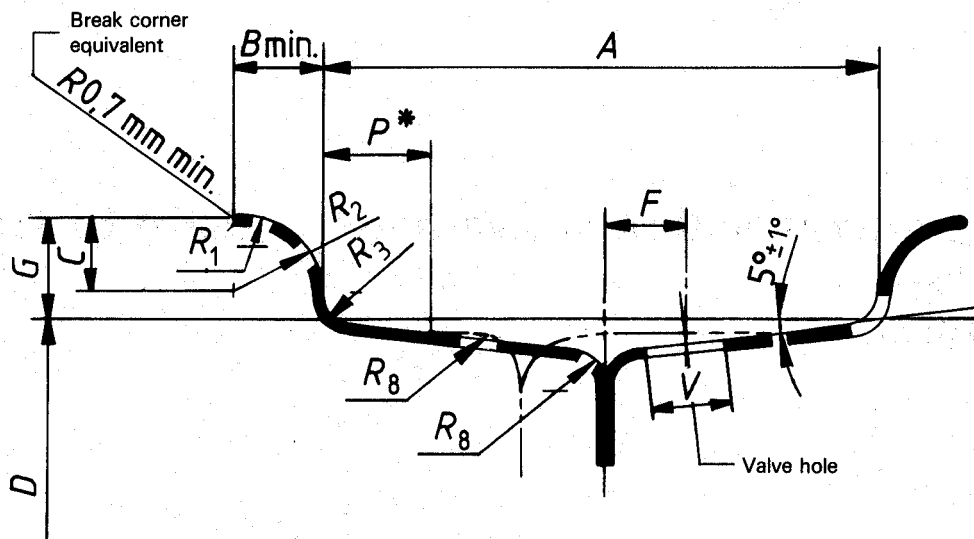


Figure 1 – Divided rim contour

Table 1 – Divided rims – Contour dimensions

Dimensions in millimetres

Nominal rim width code	A ± 1,5	B min.	G +1,0 -0,5	P* min.	C ref.	R <sub>2</sub>	R <sub>3</sub> max.	R <sub>8</sub> max.	R <sub>1</sub>	F			
										min.	max.		
1.50	38,0	7,0	10,5	12,0	7,0	7,0	2,0	5,0	—	8,0	8,5		
1.75	44,5		9,5				2,5				11,0		
2.10	53,5		12,0				3,0				14,0		
2.15**	54,5	8,5	15	12,5	10,0	12,5	3,5	7,5	9,0	14,0			
2.50 C	63,5	10,0	16,0		11,5	12,0							
3.00 D	76,0	11,5	17,5	14,0	12,5	13,0	4,5	6,5	10,5	11,0	14,0		
3.50 D	89,0			16,0							12,5	13,0	14,0
4.00 E	101,5			20,0							18,5	13,5	14,0
4.00 D		17,5	16,0	12,5	13,0	6,5	11,0	16,0					
5.00 D		127,0	17,5	16,0	12,5	13,0	6,5	11,0	16,0				

\* For off-centre naves (rims which are split off-centre) where the value is the minimum width for tapered bead seat.

\*\* For nominal rim diameter code 8 only.

Table 2 – Divided rims – Diameters

Dimensions in millimetres

Nominal rim diameter code	Specified rim diameter D
4	100,8
5	126,2
6	151,6
7	177,0
8	202,4
9	227,8
10	253,2

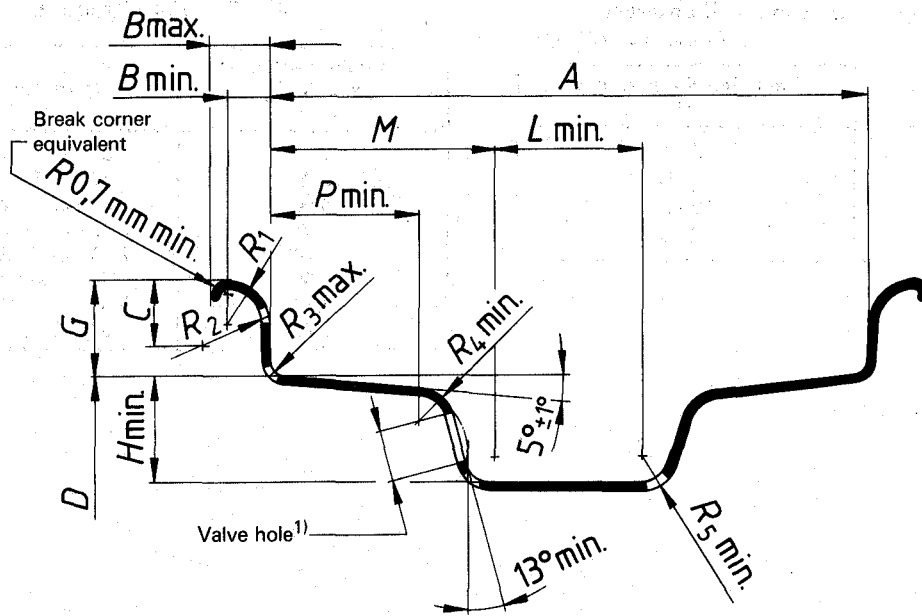


Figure 2 — Drop-centre contour

Table 3 — Drop-centre rims — Contour dimensions

Dimensions in millimetres

Nominal rim width code	A		B		G		H	L	P	C	R <sub>2</sub>	R <sub>3</sub>	R <sub>4</sub>	R <sub>5</sub>	R <sub>1</sub>	
	tol.	min.	max.	tol.	min.	min.	min.	min.	min.		max.	min.	min.			
1.50	38,0	+1,0 -0,5	7,5	11,5	10,5	±0,5	8,0	10,0	4,0	6,5	7,0	2,0	5,5			
1.85 MT	47,0	+1,0 -0,5	9,0	12,5	14,0	±0,5	9,0 <sup>2)</sup>	11,0	8,0	10,5	12,5	2,5	6,5	3,0	3,0	
2.15 MT	55,0	+1,0 -0,5					9,0 <sup>2)</sup>	13,0	11,0							
2.50 MT	63,5	+1,5 -1,0	10,00	13,5	16,0	+1,0 -0,5	12,0	15,0	13,0	11,5	12,0	3,0	6,5	6,5	7,5 max.	
2.50 C	63,5	±1,5					+1,0 -0,5	13,5	12,5						12,0	3,0
3.00 MT	76,0	+1,5 -1,0					+1,0 -0,5	14,0	13,0						23,5	13,0
3.00 D	76,0	±1,5	11,0	15,5	17,5	+1,0 -0,5	18,0	17,5	14,0	12,5	13,0	4,5 <sup>3)</sup>	6,5	8		
3.50 MT	89,0	+1,5 -1,0	10,0	12,5	14,0	+1,0 -0,5	13,0	36,5	13,0	10,5	12,5	2,5		3,0		
3.50 D	89,0	±1,5	11,5	15,5	17,5	+1,0 -0,5	18	19,0	15,0	12,5	13,0	4,5		8,0		

1) Valve hole to be located, for 1.50, 2.50 C, 3.00 D and 3.50 D in the centre of well bottom for MT rims. Rim contours may be either of the drop-centre types or of the divided type.

2) Should difficulties occur in the mounting of tyres, use rims with a 12 mm dimension.

3) To be 6,5 maximum for rims with diameter codes over 10.

**Table 4 — Drop-centre rims — Diameters**  
Dimensions in millimetres

Nominal rim diameter code	Specified rim diameter <i>D</i>
8	202,4
9	227,8
10	253,2
12	304,0

**Table 5 — Permitted rim widths**

Nominal section width, $S_N$ Code	Permitted rim widths
2.50	1.50 - 1.75 - 1.85
2.75	1.50 - 1.75 - 1.85 - 2.10 - 2.15
3.00	1.85 - 2.10 - 2.15 - 2.50
3.25	2.10 - 2.15 - 2.50
3.50	2.10 - 2.15 - 2.50
4.00	2.15 - 2.50 - 3.00
4.50	3.00
6.00	4.00

## Annex

### Rim circumference measurement

The bead seat rim circumference measurements shall be made using a tape gauge the length of which is related to a mandrel diameter which is derived from the specified rim diameter. Mandrel diameter and tape circumferences are presented in table 6.

The tolerance on the mandrel diameter is  $-\frac{0}{0,15}$  mm.

**Table 6 — Mandrel diameters and tape circumferences**

Dimensions in millimetres

Nominal rim diameter code	Mandrel* diameter $D_M$	Tape circumference**	
		minimum $\pi(D - 0,4)$	maximum $\pi(D + 0,4)$
4	99,97	312,8	315,3
5	125,37	392,6	395,1
6	150,77	472,4	474,9
7	176,17	552,2	554,9
8	201,57	632,0	634,5
9	226,97	711,8	714,3
10	252,37	791,6	794,1
12	303,17	951,2	953,7

\* Ball tape diameter : 10 mm. Ball sizes other than 10 mm may be used if suitable alterations to the mandrel diameter and circumference dimensions are made.

\*\*  $\pi = 3,141\ 59$