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Rims for motorcycles

ICS 43.040.50

Descriptors : motor cycles, wheel rims

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Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of International Trade and Industry through deliberations at Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law:

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In the event of any doubts arising as to the contents,
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Rims for Motorcycles

1. Scope

This Japanese Industrial Standard specifies rims for motorcycles, hereafter referred to as the "rims".

Remark 1: Normative references are as follows:

JIS D 0201-General Rules of Electroplating for Automobile Parts

JIS D 0202-General Rules of Coating Films for Automobile Parts

JIS D 4102-Wheels/Rims — Classification, Designation and Marking

JIS H 8601-Anodic Oxide Coatings on Aluminium and
Aluminium Alloys

Remark 2: Corresponding International Standards are as follows:

ISO/DIS 3911 Wheels/rims for pneumatic tyres — Nomenclature, designation, and marking

ISO 4249/3-1990 Motorcycle tyres and rims (Code-designated series) — Part 3: Rims

ISO 6054/2-1990 Motorcycle tyres and rims (Code-designated series) — diameter codes 4 to 12 — Part 2: Rims

2. Classification

Rims shall be classified as given in Table 1.

Table 1. Class

Class	Symbol	Type	Attached figure	Remark
Deep center rim	DC	WM	Attached Fig. 1	Cylindrical bead seat
		MT	Attached Fig. 2.1	5° taper bead seat
			Attached Fig. 3.1	
		LF	Attached Fig. 4.1	

3. Strength

When the deflection of rim has attained a value given in Table 2 by applying a load by the method given in Fig. 1 to the rim, the load shall be not smaller than the value given in Table 3 and in addition, the rim shall be free from cracks.

Furthermore, the applying method of load shall be as follows. Place the rim vertically on the base having a plane of not smaller than a horizontal rim width and add the load gradually toward the direction of vertical center of rim from the most outside circumference part of rim.

Fig. 1. Load Applying Method

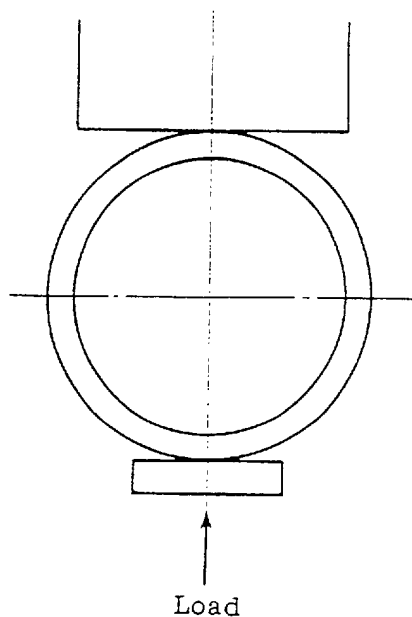


Table 2. Amount of Deflection

Nominal rim width	Unit: mm		
	Nominal rim diameter		
	15 max.	16, 17, 18	19 min.
1.10 to 2.75 and MT 1.85 to MT 6.00	10	15	20

Table 3. Load
Unit: kN

Nominal rim width		Load
1.10	—	0.98
1.20	—	1.47
1.40	—	1.96
1.50	—	2.45
1.60	—	3.43
1.85	MT 1.85	4.41
2.15	MT 2.15	4.90
2.50	MT 2.50	6.37
2.75	MT 2.75	6.37
—	MT 3.00	6.37
—	MT 3.50	6.37
—	MT 4.00	6.37
—	MT 4.50	6.37
—	MT 5.00	6.37
—	MT 5.50	6.37
—	MT 6.00	6.37

4. Sectional Profile and Dimensions

The sectional profile and dimensions of rims shall be in accordance with the following:

- (1) The sectional profile and dimensions of rims shall be in accordance with Attached Fig. 1, Attached Figs. 2.1 to 2.4, Attached Fig. 3.1, Attached Fig. 3.2 and Attached Figs. 4.1 to 4.3.

Furthermore, the sectional profile of rim gives the sectional profile of the side to be equipped with the tyre and the dimension without the specified tolerance gives only the basic size.

- (2) The section form of rim shall be symmetrical in left and right and the dimensional difference ⁽¹⁾ between the left and the right shall be not more than 0.5 mm.
- (3) The difference ⁽²⁾ in diameter of rim shall be not more than 1.2 mm.
- (4) The plane-strain of rim shall be measured with placing the rim on the plane as given in Fig. 2 and the largest value of the spaces produced between the rim and the plane shall be not more than 0.8 mm.

Fig. 2. Measuring Method of Plain-Strain

