

Tyres and wheels —

Part 1: Tyres —

Section 6: Motorcycle tyres —

Subsection 6.1c: Specification of general requirements and design guide for designations, dimensions and load ratings for metric series tyres

ICS 83.160.10

National foreword

This British Standard reproduces verbatim ISO 5751-1:2001 and implements it as the UK national standard. It supersedes BS AU 50-1.6.1b:1995 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee AUE/4, Tyres and wheels for motor vehicles, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled “International Standards Correspondence Index”, or by using the “Find” facility of the BSI Standards Electronic Catalogue.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, the ISO title page, pages ii to iv, pages 1 to 14, an inside back cover and a back cover.

The BSI copyright date displayed in this document indicates when the document was last issued.

Amendments issued since publication

Amd. No.	Date	Comments

This British Standard, having been prepared under the direction of the Engineering Sector Policy and Strategy Committee, was published under the authority of the Standards Policy and Strategy Committee on 12 March 2002

© BSI 12 March 2002

INTERNATIONAL STANDARD

ISO
5751-1

Fifth edition
2001-12-15

Motorcycle tyres and rims (metric series) — Part 1: Design guides

*Pneumatiques et jantes pour motocycles (séries millimétriques) —
Partie 1: Guide de conception*



Reference number
ISO 5751-1:2001(E)

AVA Documents
Document Sharing Hub

Contents		Page
Foreword.....		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Tyre designation	1
5	Tyre dimensions	5
6	Tread configurations	7
7	Tyre load-carrying capacity	8
8	Speed symbols	10
9	Centrifugal radius	11
Annex A (informative) Guideline values for metric series		12
Bibliography		14

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.

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 part of ISO 5751 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 5751-1 was prepared by Technical Committee ISO/TC 31, *Tyres, rims and valves*, Subcommittee SC 10, *Cycle, moped, motorcycle tyres and rims*.

This fifth edition cancels and replaces the fourth edition (ISO 5751-1:1994), 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*

Annex A of this part of ISO 5751 is for information only.

Motorcycle tyres and rims (metric series) —

Part 1: Design guides

1 Scope

This part of ISO 5751 gives guidelines for the design and specifies the designation, the calculation of dimensions and the load-carrying capacity of metric-series motorcycle tyres.

This part of ISO 5751 is applicable to motorcycle tyres with a reduced height/width ratio (100 and lower) that can be fitted on cylindrical bead seat rims or 5° tapered bead seat rims. It is also applicable to other concepts of tyre and rim, in which case, however, the appropriate rim/section ratios and coefficients will have to be established.

NOTE See ISO 4249 for requirements covering motorcycle tyres and rims (code-designated series) of rim diameter code 13 and above, and ISO 6054 for those of 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 4000-2, *Passenger car tyres and rims — Part 2: Rims*

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

ISO 4251-3, *Tyres (ply rating marked series) and rims for agricultural tractors and machines — Part 3: Rims*

3 Terms and definitions

For the purposes of this part of ISO 5751, the terms and definitions given in ISO 4223-1 apply.

4 Tyre designation

4.1 General

The designation of the tyre shall be shown on its sidewall and shall include the following markings, placed close to each other:

- size and construction (see 4.2);
- service description (see 4.3).