

Woodworking machines —

Part 17: Specification for radial circular saws

[ISO title: Woodworking machines — Radial circular saws —
Nomenclature and acceptance conditions]

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Machine, Engineers and Hand Tools Standards Committee (MTE/-) to Technical Committee MTE/23 upon which the following bodies were represented:

- Advanced Manufacturing Technology Research Institute
- British Furniture Manufacturers' Federation
- British Railways Board
- British Woodworking Federation
- Department of the Environment, Building Research Establishment (Princes Risborough Laboratory)
- Department of Trade and Industry, Mechanical Engineering and Manufacturing Technology Division (Mmt)
- Federation of British Hand Tool Manufacturers
- Furniture Industry Research Association
- Furniture, Timber and Allied Trades Union
- Health and Safety Executive
- Institute of Machine Wood Working Technology Ltd.
- National Sawmilling Association
- Saw Association
- Timber Research and Development Association
- Union of Construction, Allied Trades and Technicians
- Woodworking Machinery Suppliers' Association Ltd.

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Contents

	Page
Committees responsible	Inside front cover
National foreword	ii
1 Scope and field of application	1
2 References	1
3 Preliminary remarks	1
4 Nomenclature	2
5 Acceptance conditions and permissible deviations — Geometrical tests	5
Annex Equivalent terms	9
Publications referred to	Inside back cover

National foreword

This Part of BS 4361 has been prepared under the direction of the Machine, Engineers and Hand Tools Standards Committee and implements agreements of the International Organization for Standardization (ISO). It is identical with ISO 7957:1987 “*Woodworking machines — Radial circular saws — Nomenclature and acceptance conditions*”.

Diagrams. For reasons of simplicity the diagrams in this standard illustrate only one type of machine.

Terminology and conventions. The text of the International Standard has been approved as suitable for publication as a British Standard without deviation. Some terminology and certain conventions are not identical with those used in British Standards; attention is drawn especially to the following.

The comma has been used as a decimal marker. In British Standards it is current practice to use a full point on the baseline as the decimal marker.

Wherever the words “this International Standard” appear, referring to this standard, they should be read as “this Part of BS 4361”.

Cross-references

International Standard	Corresponding British Standard
ISO 230-1:1986	BS 3800:1964 <i>Methods for testing the accuracy of machine tools</i> (Technically equivalent)

In clauses 1 and 2 reference is made to ISO 7984 for information only.

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, pages i and ii, pages 1 to 12, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

1 Scope and field of application

This International Standard specifies the nomenclature appropriate to each part of the machine and, with reference to ISO 230-1, the geometrical tests for radial circular saws, and gives the corresponding permissible deviations which apply to machines of general purpose use and normal accuracy, with carriage travel up to 800 mm. For machines with carriage travel over 800 mm, acceptance conditions and permissible deviations shall be agreed between user and manufacturer.

NOTE In addition to terms used in the three official ISO languages (English, French and Russian), this International Standard gives the equivalent terms in the German, Spanish, Italian and Swedish languages in an Annex; these have been included at the request of Technical Committee ISO/TC 39 and are published under the responsibility of the member bodies for Germany, F.R. (DIN), Spain (IRANOR), Italy (UNI) and Sweden (SIS). However, only the terms given in the official languages can be considered as ISO terms.

This International Standard deals only with the verification of the accuracy of the machine. It does not apply to the testing of the running of the machine (vibrations, abnormal noises, stick-slip motion of the components, etc.), nor to its characteristics (speeds, feeds, etc.) which should generally be checked before the accuracy is tested.

This International Standard does not impose any practical test. For radial circular saws, practical tests are an exception and need be performed only where there is prior agreement between the manufacturer and the user.

This International Standard applies to those machines designated by the number 12.131.122 in ISO 7984.

The Annex does not form an integral part of this International Standard.

2 References

ISO 230-1, *Acceptance code for machine tools — Part 1: Geometric accuracy of machines operating under no-load or finishing conditions.*

ISO 7984, *Woodworking machines — Technical classification of woodworking machines and auxiliary machines for woodworking.*

3 Preliminary remarks

3.1 In this International Standard all dimensions and permissible deviations are expressed in millimetres.

3.2 To apply this International Standard, reference should be made to ISO 230-1, especially for installation of the machine before testing, the warming up of the main spindle and other moving parts, and the description of the measuring methods. The measuring instruments shall not permit measurement errors over 1/3 of the checked tolerances.

3.3 The sequence in which the geometrical tests are given is related to the sub-assemblies of the machine, and this in no way defines the practical order of testing. In order to make mounting of instruments and gauging easier, tests may be applied in any order.

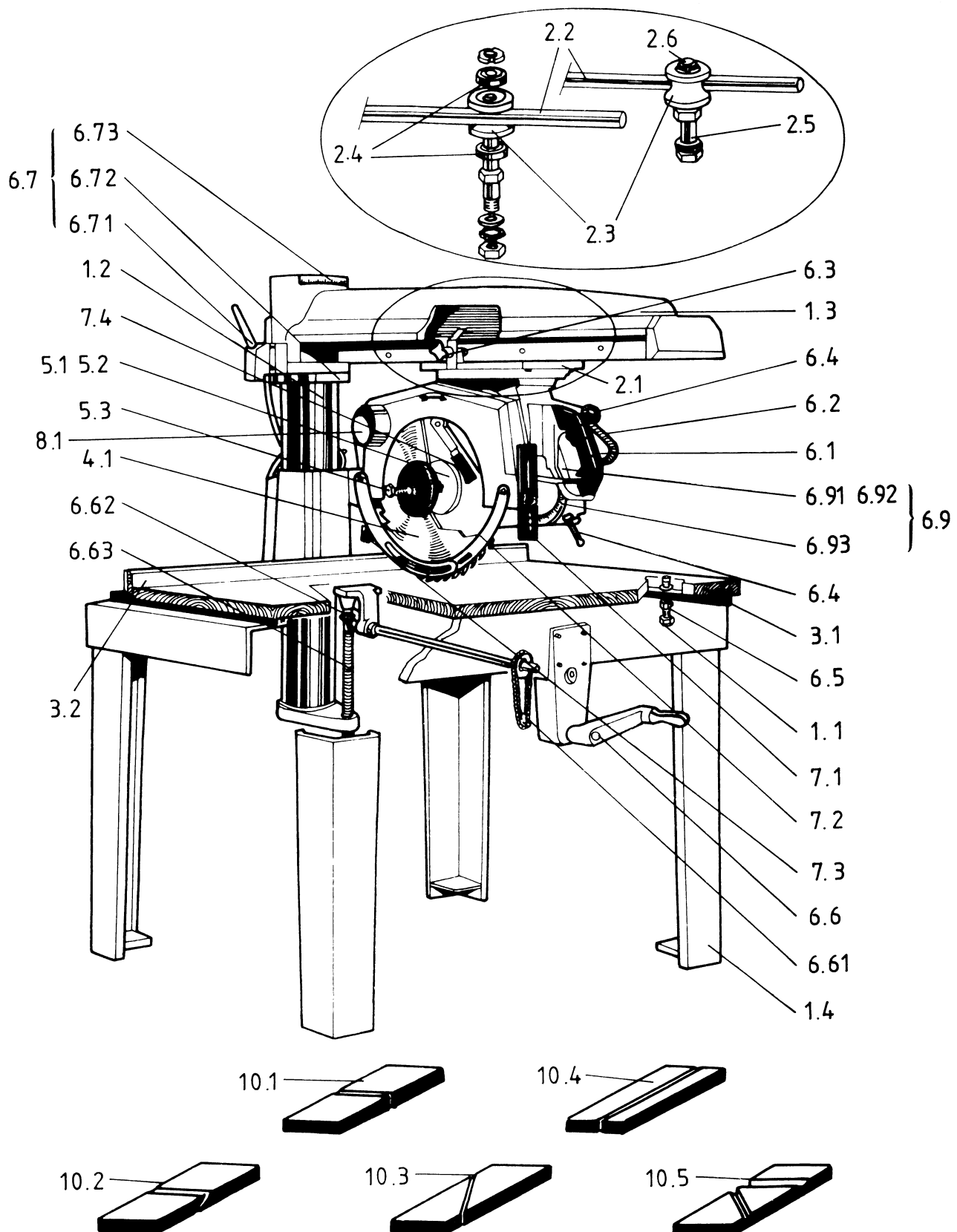
3.4 When inspecting a machine, it is not always possible or necessary to carry out all the tests given in this International Standard.

3.5 It is up to the user to choose, in agreement with the manufacturer, those tests relating to the properties which are of interest to him, but these tests shall be clearly stated when ordering a machine.

3.6 A movement is longitudinal when it takes place in the working direction of the piece.

3.7 When establishing the tolerance for a measuring range different from that given in this International Standard (see subclause **2.311** in ISO 230-1), it should be taken into consideration that the minimum value of the tolerance is 0,01 mm.

4 Nomenclature



NOTE References 3.3, 5.4, 5.5, 6.6, 6.8, 6.8.1, 6.8.2 and 8.2 are not shown.