



**International
Standard**

ISO 7554-2

**Surgical instruments — Terms,
measuring methods and test
methods —**

**Part 2:
Methods for determination of basic
measures**

*Instruments chirurgicaux — Termes, méthodes de mesurage et
méthodes d'essai —*

Partie 2: Méthodes pour la détermination des mesures de base

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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 170, *Surgical instruments*.

A list of all parts in the ISO 7554 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Surgical instruments — Terms, measuring methods and test methods —

Part 2: Methods for determination of basic measures

1 Scope

This document specifies methods for the determination of basic measurements of surgical standard instruments. This document does not apply to instruments for use on the central nervous system and on the central cardiovascular system.

NOTE Instruments for use on the central nervous system and on the central cardiovascular system are measured differently due to complex geometries which are adapted to the human anatomy.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 7554-1, *Surgical instruments — Terms, measuring methods and tests — Part 1: Vocabulary*¹⁾

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 7554-1¹⁾ apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

4 Measuring methods

4.1 Fundamentals for measurement of lengths

The measurement of lengths shall be carried out in parallel to the reference axis and in the position where the working end is completely closed. For instruments with a lock, latch or interlock/ratchet, the working end is completely closed when the instrument is fully locked. For instruments without locking devices, the working end is completely closed when the jaw parts surfaces are in contact according to their requirements (see ISO 7554-3) or when the handle is closed all the way to the stop. [Figure 1](#) illustrates an example of the reference axis that is used when measuring lengths.

NOTE [Annex A](#) provides tables for converting customary units.

1) Under preparation. Stage at the time of publication: ISO/FDIS 7554-1.