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Robots and robotic devices — Coordinate systems and motion nomenclatures

*Robots et composants robotiques — Systèmes de coordonnées et
nomenclatures de mouvements*



Reference number
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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.

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

ISO 9787 was prepared by Technical Committee ISO/TC 184, *Automation systems and integration*, Subcommittee SC 2, *Robots and robotic devices*.

This third edition of ISO 9787 cancels and replaces the second edition (ISO 9787:1999), which has been technically revised. In particular, the scope has been expanded to include robots operating in both industrial and non-industrial environments.

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Introduction

This International Standard is one of a series of International Standards dealing with robots and robotic devices, which cover topics including vocabulary, safety, presentation of characteristics, performance criteria and related test methods, and mechanical interfaces. The series of International Standards dealing with robots and robotic devices are interrelated and are related to other International Standards.

[Annex A](#) provides examples of applications for different mechanical structures.