
**Welding — General tolerances for welded
constructions — Dimensions for lengths
and angles — Shape and position**

*Soudage — Tolérances générales relatives aux constructions soudées —
Dimensions des longueurs et angles — Formes et positions*



Foreword

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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.

International Standard ISO 13920 was prepared by the European Committee for Standardization (CEN) in collaboration with ISO Technical Committee TC 44, *Welding and allied processes*, Subcommittee SC 10, *Unification of requirements in the field of metal welding*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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Foreword

The text of EN ISO 13920:1996 has been prepared by Technical Committee CEN/TC 121 "Welding", the secretariat of which is held by DS, in collaboration with Technical Committee ISO/TC 44 "Welding and allied processes".

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 1997, and conflicting national standards shall be withdrawn at the latest by February 1997.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

This European Standard specifies general tolerances for linear and angular dimensions and for shape and position of welded structures in four tolerance classes, these being based on customary workshop accuracy. The main criterion for the selection of a particular tolerance class should be the functional requirements which are to be met.

The applicable tolerances are always those which are stated in the drawing. Instead of specifying individual tolerances the tolerance classes according to this standard may be used.

General tolerances for linear and angular dimensions and for shape and position as specified in this standard apply for weldments, welding assemblies and welded structures etc.

Special provisions may be necessary for complex structures.

The specifications given in this standard are based on the principle of independency as specified in ISO 8015, according to which the dimensional and geometrical tolerances apply independently of each other.

Manufacturing documentation in which linear and angular dimensions or indications for shape and position are presented without individually indicated tolerances shall be deemed incomplete if there is no, or inadequate, reference to general tolerances. This does not apply to temporary dimensions.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate place in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the last edition of the publication referred to applies.

ISO/DIS 463	Geometrical Product Specifications (GPS) - Dimensional measuring instruments; Dial gauges - Design and metrological requirements
prEN ISO 1101	Technical drawings - Geometrical tolerancing Tolerances of form, orientation, location and run-out - Generalities, definitions, symbols, indications on drawings (ISO/DIS 1101:1995)
ISO 3599	Vernier callipers reading to 0,1 and 0,05 mm
ISO 6906	Vernier callipers reading to 0,02 mm
ISO 8015	Technical drawings - Fundamental tolerancing principle