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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 19804-2005

**Welding -- General tolerances for welded constructions --
Dimensions for lengths and angles -- Shape and position
(English Translation)**

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Foreword

This Standard is identical to the international standard ISO 13920:1996 "Welding - General tolerances for welded constructions - Dimensions for lengths and angles - Shape and position" (English version). To ensure the applicability and coordination of the standard, this Standard, in the process of equivalent conversion of ISO 13920, combined with the actual situations of China, has made necessary treatment. For the references, the referenced ISO standards are changed to the corresponding national standards in China. This Standard was proposed by China Machinery Industry Federation. This Standard shall be under the jurisdiction of National Technical Committee

55 on Welding of Standardization Administration of China.

Responsible drafting organization of this Standard. Harbin Welding Institute.

Main drafter of this Standard. Piao Dongguang.

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

1 Scope

This 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 selection of a particular tolerance class shall meet the actual needs.

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 GB/T 4249, 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

The clauses in the following documents, by reference in this Standard, constitute the clauses of this Standard. For the dated references, the subsequent amendments (not including errata content) or revisions do not apply to this Standard. However, parties which have reached an agreement according to this Standard are encouraged to study whether the latest version of these documents can be used. For the undated references, the latest version is applicable to this Standard.

GB/T 1182 Product Geometric Specification (GPS) - Geometric Tolerance - Shape, Direction, Position, and Runout Tolerance (eqv ISO 1101:1996)

GB/T 1214.1 The specification for calipers of vernier type

GB/T 1214.2 The vernier calipers for calipers of vernier type

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