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**Assembly tools for screws and nuts —  
Combination wrenches — Lengths of  
wrenches and maximum thickness of heads**

*Outils de manœuvre pour vis et écrous — Clés mixtes de serrage —  
Longueurs des clés et épaisseurs maximales des têtes*

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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

International Standard ISO 7738 was prepared by Technical Committee ISO/TC 29, *Small tools*, Subcommittee SC 10, *Assembly tools for screws and nuts, pliers and nippers*.

This third edition cancels and replaces the second edition (ISO 7738:1990), which has been technically revised.

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# Assembly tools for screws and nuts — Combination wrenches — Lengths of wrenches and maximum thickness of heads

## 1 Scope

This International Standard specifies the overall length and the maximum head thickness of combination wrenches, offset (Form A) and modified offset (Form B).

NOTE Combination wrenches are listed in ISO 1703:1983, *Assembly tools for screws and nuts — Nomenclature*, under number 13 (Form A) and 14 (Form B).

## 2 Normative reference

The following normative document contains provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the normative document indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 691, *Assembly tools for screws and nuts — Wrench and socket openings — Tolerances for general use*.

## 3 Dimensions

See Figure 1 and Table 1.

The tolerances of the wrench opening,  $s$ , shall conform to those shown in ISO 691, "machined" series.

NOTE Figure 1 of this International Standard is only an example and should not influence the design of the wrench.

## 4 Designation

A combination wrench in accordance with this International Standard shall be designated by:

- a) "Wrench"
- b) reference to this International Standard, i.e. ISO 7738;
- c) series, i.e. short, medium or long;
- d) Form, i.e. A or B;
- e) wrench opening.

EXAMPLE A modified offset (Form B) combination wrench, medium series, with the wrench opening of 12 mm is designated as follows:

**Wrench ISO 7738 - Medium B 12**

## 5 Marking

Combination wrenches, offset and modified offset, shall be marked, permanently and legibly, with the following:

- a) wrench opening;
- b) name or trademark of the manufacturer (or the responsible supplier).

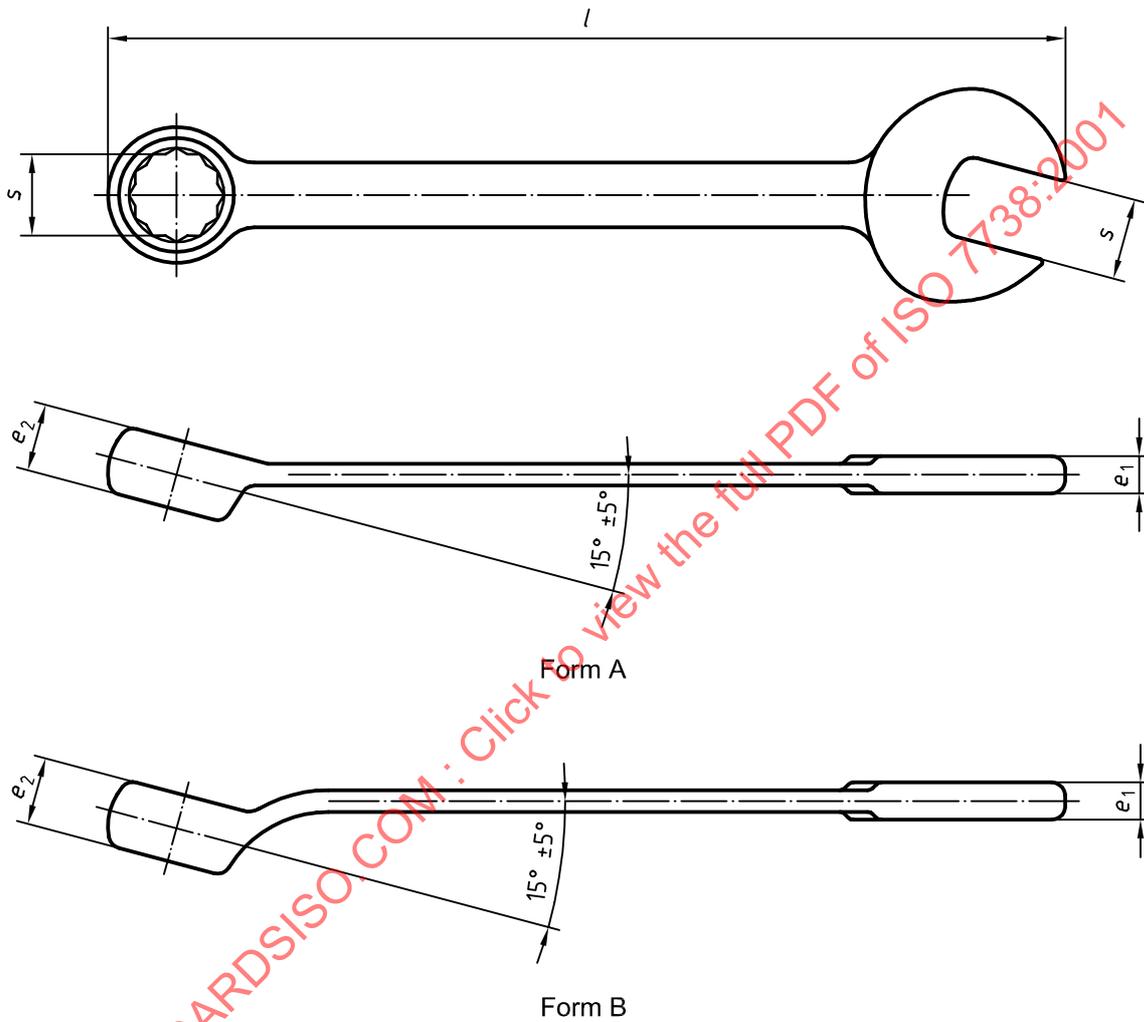


Figure 1