
INTERNATIONAL STANDARD



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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Assembly tools for bolts and screws — Driving squares for power socket wrenches and hand socket wrenches

Outils de manœuvre pour vis et écrous — Carrés d'entraînement pour douilles à machine et douilles à main

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Socket wrenches
Descriptors : tools, assembly tools, driving squares, wrenches, dimensions.

FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up 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.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

Prior to 1972, the results of the work of the Technical Committees were published as ISO Recommendations; these documents are now in the process of being transformed into International Standards. As part of this process, Technical Committee ISO/TC 29 has reviewed ISO Recommendation R 1174 and found it technically suitable for transformation. International Standard ISO 1174 therefore replaces ISO Recommendation R 1174-1970 to which it is technically identical.

ISO Recommendation R 1174 was approved by the Member Bodies of the following countries :

Australia	Hungary	Spain
Austria	India	Sweden
Belgium	Israel	Switzerland
Brazil	Italy	Thailand
Czechoslovakia	Korea, Rep. of	Turkey
Egypt, Arab Rep. of	New Zealand	United Kingdom
France	Poland	Yugoslavia
Germany	Portugal	
Greece	South Africa, Rep. of	

No Member Body expressed disapproval of the Recommendation.

No Member Body disapproved the transformation of ISO/R 1174 into an International Standard.

Assembly tools for bolts and screws — Driving squares for power socket wrenches and hand socket wrenches

1 SCOPE AND FIELD OF APPLICATION

This International Standard relating to assembly tools for bolts and screws specifies the dimensions of driving squares for power socket wrenches and hand socket wrenches.

For each type of tool two numerical tables are given, the first one relating to millimetre and inch dimensions of male squares, the other to millimetre and inch dimensions of female squares.

Nominal dimensions in millimetres have been selected from the values of the R 10 series of preferred numbers.

2 INTERCHANGEABILITY

Square maximum and minimum dimensions have been selected, for each type of tool, so as to allow for interchangeability, whatever the measurement system used.

Deviations between maximum and minimum dimensions refer,

- a) for power socket wrenches,
 - for s_1 to tolerances of grade 10*,
 - for s_2 to tolerances of grade 11*;
- b) for hand socket wrenches,
 - for s_1 to tolerances of grade 11*,
 - for s_2 to tolerances of grade 13*.

* See ISO/R 286, *ISO system of limits and fits — Part 1 : General, tolerances and deviations*.