
**Rolling bearings — Accessories —
Part 1:
Dimensions for adapter sleeve
assemblies and withdrawal sleeves**

Roulements — Accessoires —

Partie 1: Dimensions des manchons de serrage et de démontage

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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 2.

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 2982-1 was prepared by Technical Committee ISO/TC 4, *Rolling bearings*.

This second edition cancels and replaces the first edition (ISO 2982-1:1995), which has been technically revised. In particular, the title has been corrected and approximate values for B_2 are indicated.

ISO 2982 consists of the following parts, under the general title: *Rolling bearings — Accessories*:

- *Part 1: Dimensions for adapter sleeve assemblies and withdrawal sleeves*
- *Part 2: Dimensions for locknuts and locking devices*

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Rolling bearings — Accessories —

Part 1: Dimensions for adapter sleeve assemblies and withdrawal sleeves

1 Scope

This part of ISO 2982 specifies:

- boundary dimensions of adapter sleeves with taper 1:12 and withdrawal sleeves with tapers 1:12 and 1:30 for rolling bearings of a number of dimension series as specified in ISO 15;
- the outside diameter of suitable locknuts;
- distance from bearing small bore face to outer face of locknut;
- distance from bearing small bore face to outer face of bolt head;
- overall length of withdrawal sleeve and bearing ring.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 15, *Rolling bearings — Radial bearings — Boundary dimensions, general plan*

ISO 2982-2, *Rolling bearings — Accessories — Part 2: Dimensions for locknuts and locking devices*

ISO 5593, *Rolling bearings — Vocabulary*

ISO 15241, *Rolling bearings — Symbols for physical quantities*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 5593 and the following apply.

3.1

adapter sleeve assembly

assembly comprising an adapter sleeve, a locknut, and a locking device

3.2

locking clip

part in C-shape for securing a locknut

3.3

locking clip assembly

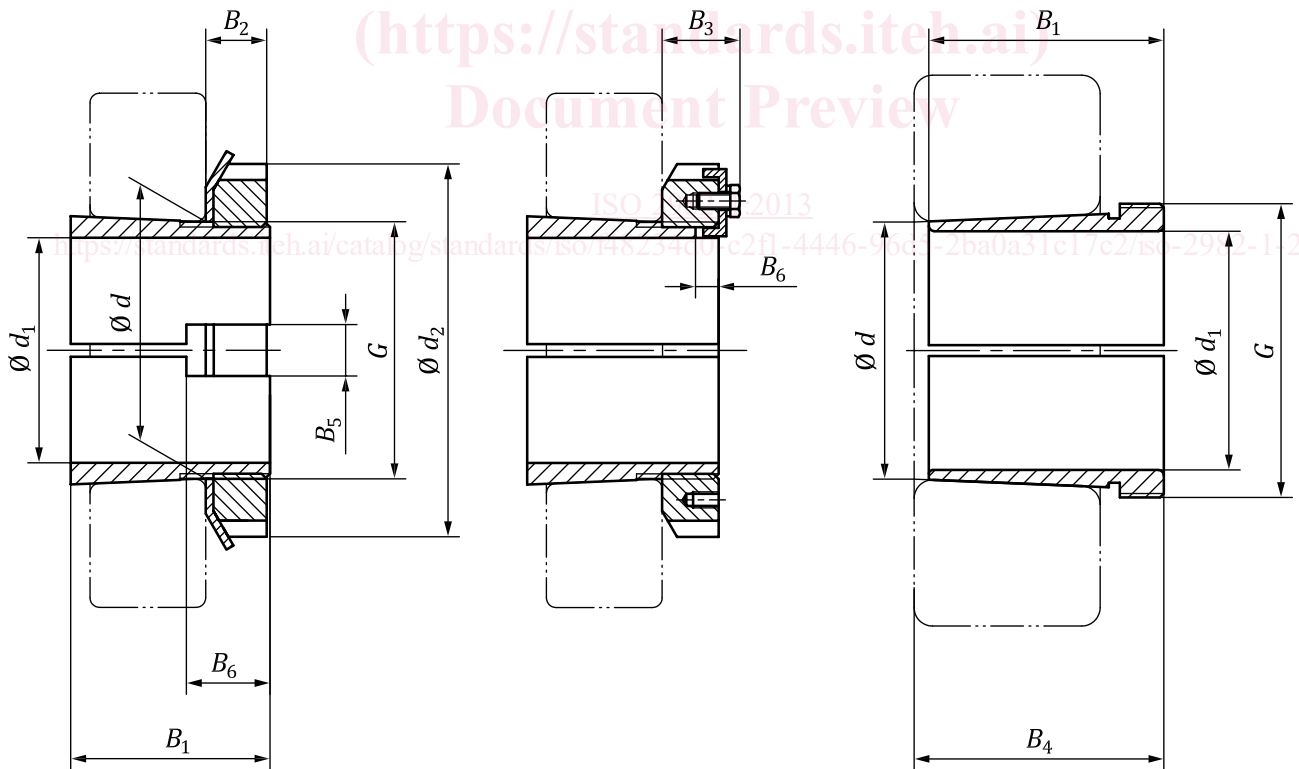
assembly comprising a locking clip and a bolt

4 Symbols

For the purposes of this document, the symbols given in ISO 15241 and the following apply.

The symbols shown in Figure 1 and the values given in Table 1, Table 2, Table 3, Table 4 and Table 5 denote nominal dimensions, unless specified otherwise.

- B_1 adapter sleeve length or withdrawal sleeve length
- B_2 distance from bearing small bore face to outer face of locknut
- B_3 distance from bearing small bore face to outer face of bolt head
- B_4 overall length of withdrawal sleeve and bearing ring
- B_5 slot width (for lockwasher inner tab or locking clip)
- B_6 slot length
- d bearing bore diameter
- d_1 bore diameter of sleeve
- d_2 outside diameter of locknut
- G designation of screw thread



a) Adapter sleeve with locknut and lockwasher

b) Adapter sleeve with locknut and locking clip assembly

c) Withdrawal sleeve

Figure 1 — Adapter sleeve assemblies and withdrawal sleeve