

Rolling bearings — Bearings with spherical outside surface and extended inner ring width —

**Part 3: Specification for dimensions of
cast and pressed housings**

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Machinery and Components Standards Policy Committee (MCE/-), to Technical Committee MCE/7, upon which the following bodies were represented:

- Ball and Roller Bearing Manufacturers' Association
- Ministry of Defence
- Society of British Aerospace Companies Ltd.

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National foreword

This Part of BS 6010 has been prepared under the direction of the Machinery and Components Standards Policy Committee. It is identical with ISO 3228:1993 *Rolling bearings — cast and pressed housings for insert bearings*, published by the International Organization for Standardization (ISO).

It supersedes BS 6010-3:1980 which is withdrawn.

BS 6010 consists of the following Parts.

- *Part 3: Specification for dimensions of cast and pressed housings;*
- *Part 4: Specification for insert bearings and eccentric locking collars.*

Cross-references

International Standard	Corresponding British Standard
ISO 5593:1984	BS 6560:1984 <i>Glossary of terms for rolling bearings</i> (Identical)
ISO 9628:1992	BS 6010 <i>Rolling bearings — Bearings with spherical outside surface and extended inner ring width.</i> Part 4:1993 <i>Specification for insert bearings and eccentric locking collars</i> (Identical)

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 8, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

1 Scope

This International Standard specifies boundary dimensions and tolerances for cast and pressed housings for insert bearings for which boundary dimensions are given in ISO 9628.

It applies to plummer block housings, flanged housings and take-up housings.

The inclusion of relubrication features is optional, but when provided they should intersect the zone specified in ISO 9628 in such a way that lubricant will satisfactorily feed from the housing through this zone. The exact design of the relubrication features is not otherwise covered by this International Standard.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 5593:1984, *Rolling bearings — Vocabulary*.

ISO 9628:1992, *Rolling bearings — Insert bearings and eccentric locking collars*.

3 Definitions

For the purposes of this International Standard, the definitions given in ISO 5593 apply.

4 Symbols

NOTE 1 The symbols (except those for tolerances) shown in the figures and given in the tables denote nominal dimensions unless otherwise specified.

4.1 Cast plummer block housings (see Figure 1)

A	width of base
D_a	spherical seating diameter of housing
H	distance from mounting base to centreline of spherical seating diameter
H_1	height of feet
J	centre distance between bolt holes
L	length of base
N	width of bolt hole
N_1	length of bolt hole

4.2 Cast flanged housings, square (see Figure 2)

A	width (overall)
A_1	width of flange
A_2	distance from mounting face to centreline of spherical seating diameter
D_a	spherical seating diameter of housing
J	centre distance between bolt holes
L	length
N	diameter of bolt hole

4.3 Cast flanged housings, oval (see Figure 3)

A	width (overall)
A_1	width of flange
A_2	distance from mounting face to centreline of spherical seating diameter
D_a	spherical seating diameter of housing
H	height of flange
J	centre distance between bolt holes
L	length (overall)
N	diameter of bolt hole

4.4 Pressed plummer block housings (see Figure 4)

A	width of base
D_a	spherical seating diameter of housing
H	distance from mounting base to centreline of spherical seating diameter
H_1	height of feet
J	centre distance between bolt holes
L	length of base
N	diameter of bolt hole

4.5 Pressed flanged housings, round, triangular and oval (see Figure 5)

A	width (overall)
A_1	width of flange
D_a	spherical seating diameter of housing
H	height (round, triangular, oval)
H_1	distance from straight edge to centreline of spherical seating diameter
H_2	limit diameter of flat surface