

# INTERNATIONAL STANDARD

# ISO 113

First edition  
1994-12-15

---

---

## Rolling bearings — Plummer block housings — Boundary dimensions

*Roulements — Paliers — Dimensions d'encombrement*



Reference number  
ISO 113:1994(E)

## 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.

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.

International Standard ISO 113 was prepared by Technical Committee ISO/TC 4, *Rolling bearings*.

This first edition of ISO 113 cancels and replaces ISO 113-2:1979, which has been technically revised.

Annex A of this International Standard is for information only.

© ISO 1994

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Organization for Standardization  
Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

# Rolling bearings — Plummer block housings — Boundary dimensions

## 1 Scope

This International Standard specifies boundary dimensions for plummer block housings for rolling bearings, primarily intended for bearings in diameter series 2 and 3 as specified in ISO 15.

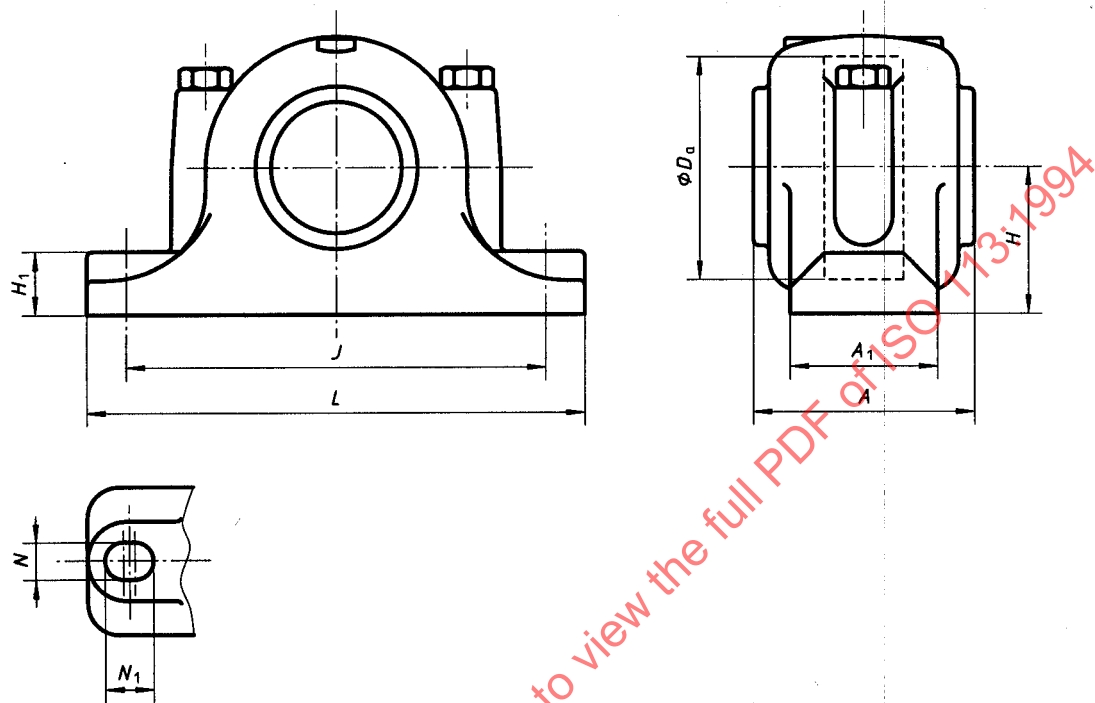
## 2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was 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 edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 15:1981, *Rolling bearings — Radial bearings — Boundary dimensions — General plan.*

3 Symbols and boundary dimensions

See figure 1 and table 1.



- $D_a$  = housing seating diameter
- $L$  = base length
- $A$  = overall width
- $A_1$  = base width
- $J$  = bolt hole centre distance
- $H$  = distance from mounting face to centreline of housing seating diameter
- $H_1$  = feet height
- $N$  = bolt hole width
- $N_1$  = bolt hole length

Figure 1 — Plummer block housing

Table 1 — Boundary dimensions

Dimensions in millimetres

| $D_s$ | $H$ | $J$ | $N$ | $N_1$<br>min. | $A$<br>max. | $L$<br>max. | $A_1$ | $H_1$<br>max. |
|-------|-----|-----|-----|---------------|-------------|-------------|-------|---------------|
| 52    | 40  | 130 | 15  | 15            | 72          | 170         | 46    | 22            |
| 62    | 50  | 150 | 15  | 15            | 82          | 190         | 52    | 22            |
| 72    | 50  | 150 | 15  | 15            | 85          | 190         | 52    | 22            |
| 80    | 60  | 170 | 15  | 15            | 92          | 210         | 60    | 25            |
| 85    | 60  | 170 | 15  | 15            | 92          | 210         | 60    | 25            |
| 90    | 60  | 170 | 15  | 15            | 100         | 210         | 60    | 25            |
| 100   | 70  | 210 | 18  | 18            | 105         | 270         | 70    | 28            |
| 110   | 70  | 210 | 18  | 18            | 115         | 270         | 70    | 30            |
| 120   | 80  | 230 | 18  | 18            | 120         | 290         | 80    | 30            |
| 125   | 80  | 230 | 18  | 18            | 120         | 290         | 80    | 30            |
| 130   | 80  | 230 | 18  | 18            | 125         | 290         | 80    | 30            |
| 140   | 95  | 260 | 22  | 22            | 135         | 330         | 90    | 32            |
| 150   | 95  | 260 | 22  | 22            | 140         | 330         | 90    | 32            |
| 160   | 100 | 290 | 22  | 22            | 145         | 360         | 100   | 35            |
| 170   | 112 | 290 | 22  | 22            | 150         | 360         | 100   | 35            |
| 180   | 112 | 320 | 26  | 26            | 165         | 400         | 110   | 40            |
| 200   | 125 | 350 | 26  | 26            | 177         | 420         | 120   | 45            |
| 215   | 140 | 350 | 26  | 26            | 187         | 420         | 120   | 45            |
| 230   | 150 | 380 | 28  | 28            | 192         | 450         | 130   | 50            |
| 250   | 150 | 420 | 35  | 35            | 207         | 510         | 150   | 50            |
| 270   | 160 | 450 | 35  | 35            | 224         | 540         | 160   | 60            |
| 290   | 170 | 470 | 35  | 35            | 237         | 560         | 160   | 60            |

## NOTES

- 1 The symbols shown in figure 1 and the values given in table 1 denote nominal dimensions unless otherwise specified.
- 2 Where "max." is shown, this indicates that the value is both the nominal and the largest actual value permitted. Where "min." is shown, this indicates that the value is both the nominal and the smallest actual value permitted.

## **Annex A** (informative)

### **Bibliography**

- [1] ISO 8062:1994, *Castings — System of dimensional tolerances and machining allowances*.

STANDARDSISO.COM :: Click to view the full PDF of ISO 113:1994