
**Rolling bearings — Tapered roller
bearings — Boundary dimensions and
series designations**

*Roulements — Roulements à rouleaux coniques — Dimensions
d'encombrement et désignation des séries*

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Published in Switzerland

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 4, *Rolling bearings*, Subcommittee SC 9, *Tapered roller bearings*.

This third edition cancels and replaces the second edition (ISO 355:2007), which has been technically revised. It also incorporates the Amendment ISO 355:2007/Amd.1:2012. The main changes compared to the previous edition are as follows:

- Contact angle and smallest single chamfer dimension of the inner ring back face added to the double-row bearing tables.
- Tables with all dimensions added for bearings with flanged outer rings.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Rolling bearings — Tapered roller bearings — Boundary dimensions and series designations

1 Scope

This document specifies bearing and subunit boundary dimensions for complete single-row and double-row tapered roller bearings. It also specifies the flange dimensions of flanged outer rings for a selection of these bearings. A series designation for each bearing is also specified.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 492, *Rolling bearings — Radial bearings — Geometrical product specifications (GPS) and tolerance values*

ISO 582, *Rolling bearings — Chamfer dimensions — Maximum values*

ISO 1132-1, *Rolling bearings — Tolerances — Part 1: Terms and definitions*

ISO 5593, *Rolling bearings — Vocabulary*

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

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3 Terms and definitions

<https://standards.iteh.ai/catalog/standards/sist/94d6c1d4-8373-474e-bb08-0f8cb7aea419/iso-355-2019>

For the purposes of this document, the terms and definitions given in ISO 1132-1 and ISO 5593 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

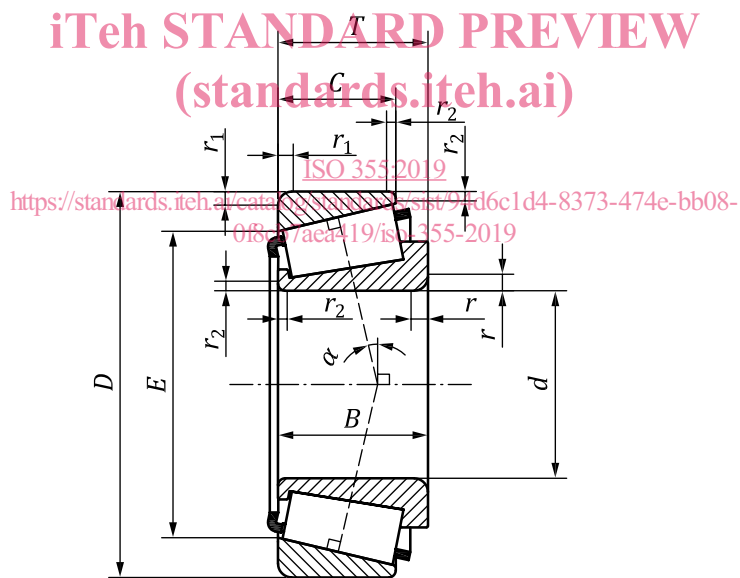
4 Symbols

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

The symbols shown in [Figures 1 to 4](#) and the values given in [Tables 4 to 16](#) denote nominal dimensions unless specified otherwise.

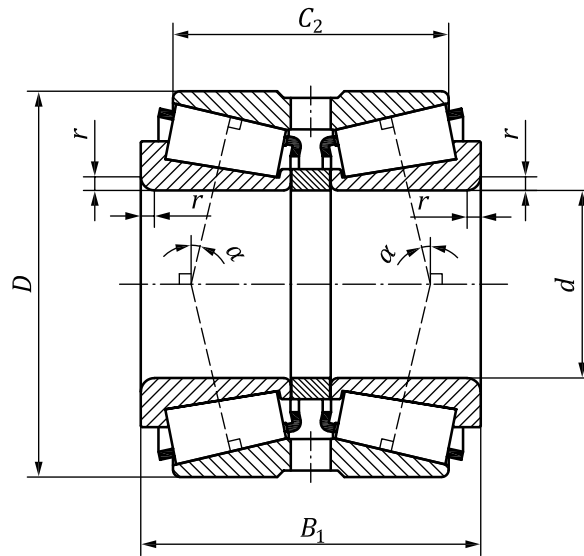
| | |
|-------|--|
| B | inner ring width, single-row bearing |
| B_1 | overall width of inner rings of double-row tapered roller bearing or matched pair of tapered roller bearings with spacer |
| C | outer ring width, single-row bearing |
| C_1 | width of outer ring flange |
| C_2 | width of double outer ring, or overall width of outer rings of matched pair of tapered roller bearings with spacers |

- D outside diameter of outer ring
- D_1 outside diameter of outer ring flange
- d bore diameter of inner ring
- E inside diameter of outer ring back face
- h_1 height of outer ring flange
- r chamfer dimension of inner ring back face
- $r_{s\ min}$ smallest single chamfer dimension of inner ring back face
- r_1 chamfer dimension of outer ring back face
- $r_{1s\ min}$ smallest single chamfer dimension of outer ring back face
- r_2 chamfer dimension of inner ring and outer ring front face
- T bearing width, single-row bearing
- α contact angle



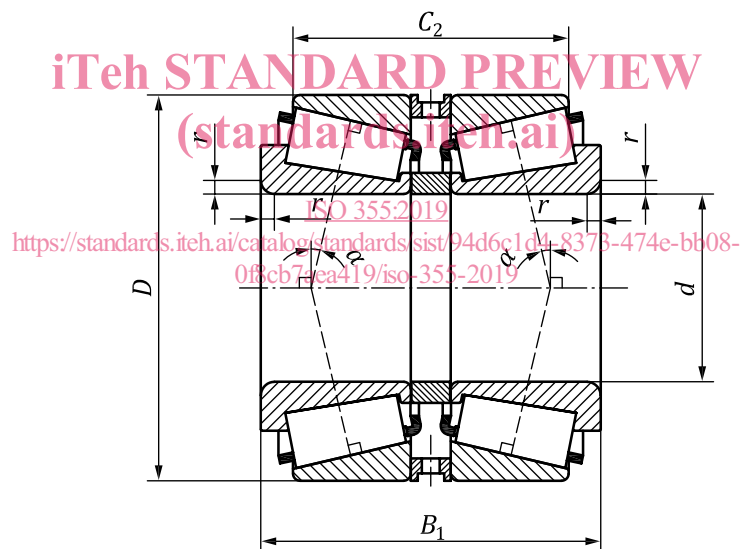
NOTE In the case of tapered roller bearings, the contact angle is the same as the half included outer ring raceway angle.

Figure 1 — Single-row tapered roller bearing



NOTE The double-row bearing outer ring can have a lubrication groove and holes.

Figure 2 — Double-row tapered roller bearing with double raceway outer ring



NOTE The outer spacer can have a lubrication groove and holes.

Figure 3 — Matched pair of tapered roller bearings in back-to-back arrangement with spacers

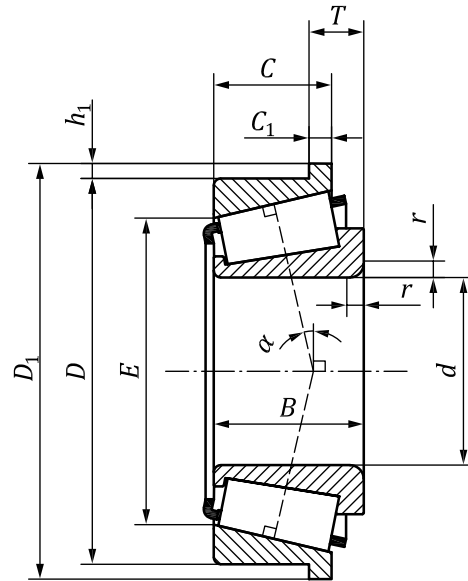


Figure 4 — Single-row tapered roller bearing with flanged outer ring

5 Series designations

Each bearing whose dimensions are given in this document is referred to a dimension series. The dimension series is designated by a combination of three symbols, for example 2AC. The dimension series designation can be used to build a tapered roller bearing designation according to ISO 10317[1].

The first symbol is a numeric character, which represents a range of contact angles (contact angle series).

The second symbol is an alphabetic character, which represents a range of numeric values for the outside diameter to bore relationship (diameter series).

The third symbol is an alphabetic character, which represents a range of numeric values for the width to height relationship of a single-row bearing (width series).

The designations for the standardized bearings generally conform with the angle ranges and the numeric values for the relationships given in Tables 1 to 3. In some cases, an exception has been made to avoid the condition that the same designation be used for two different bearings with the same bore diameter.

The series designations shown in this clause shall not be applied to bearings other than those specified in Clause 6.

Table 1 — Designation of contact angle series

| Designation of contact angle series | α | |
|-------------------------------------|-------------------------|---------|
| | > | ≤ |
| 1 | Reserved for future use | |
| 2 | 10° | 13° 52' |
| 3 | 13° 52' | 15° 59' |
| 4 | 15° 59' | 18° 55' |
| 5 | 18° 55' | 23° |
| 6 | 23° | 27° |
| 7 | 27° | 30° |

Table 2 — Designation of diameter series

| Designation of diameter series | $\frac{D}{d^{0,77}}$ | |
|--------------------------------|-------------------------|-----|
| | > | ≤ |
| A | Reserved for future use | |
| B | 3,4 | 3,8 |
| C | 3,8 | 4,4 |
| D | 4,4 | 4,7 |
| E | 4,7 | 5 |
| F | 5 | 5,6 |
| G | 5,6 | 7 |

Table 3 — Designation of width series

| Designation of width series | $\frac{T}{(D-d)^{0,95}}$ | |
|-----------------------------|--------------------------|------|
| | > | ≤ |
| A | Reserved for future use | |
| B | 0,5 | 0,68 |
| C | 0,68 | 0,8 |
| D | 0,8 | 0,88 |
| E | 0,88 | 1 |

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6 Boundary dimensions

6.1 General

The bearing and subunit boundary dimensions given in [Tables 4 to 16](#) are grouped by contact angle series and then listed in ascending order of bore, outside diameter and bearing width. Tolerances for the dimensions shall be as given in ISO 492. Maximum chamfer dimensions shall be in accordance with ISO 582.

In this document, no values are given for the inner ring and outer ring front face chamfer dimension, r_2 . However, the front face corners shall not be sharp.

6.2 Single-row tapered roller bearings

Boundary dimensions for contact angle series 2, 3, 4, 5 and 7 are given in [Tables 4, 5, 6, 7 and 8](#) respectively.

Table 4 — Contact angle series 2

Dimensions in millimetres

| <i>d</i> | <i>D</i> | <i>T</i> | <i>B</i> | <i>r_S min^a</i> | <i>C</i> | <i>r_{1S} min^a</i> | <i>α</i> | <i>E</i> | Dimension series |
|----------|----------|----------|----------|--------------------------------------|----------|---------------------------------------|-------------|----------|-------------------------|
| 15 | 42 | 14,25 | 13 | 1 | 11 | 1 | 10° 45' 29" | 33,272 | 2FB |
| 17 | 40 | 13,25 | 12 | 1 | 11 | 1 | 12° 57' 10" | 31,408 | 2DB |
| 17 | 40 | 17,25 | 16 | 1 | 14 | 1 | 11° 45' | 31,17 | 2DD |
| 17 | 47 | 15,25 | 14 | 1 | 12 | 1 | 10° 45' 29" | 37,42 | 2FB |
| 17 | 47 | 20,25 | 19 | 1 | 16 | 1 | 10° 45' 29" | 36,09 | 2FD |
| 20 | 37 | 12 | 12 | 0,3 | 9 | 0,3 | 12° | 29,621 | 2BD |
| 20 | 45 | 17 | 17,5 | 1 | 13,5 | 1 | 12° | 35,815 | 2DC |
| 20 | 47 | 15,25 | 14 | 1 | 12 | 1 | 12° 57' 10" | 37,304 | 2DB |
| 20 | 47 | 19,25 | 18 | 1 | 15 | 1 | 12° 28' | 35,81 | 2DD |
| 20 | 50 | 22 | 22 | 2 | 18,5 | 1,5 | 12° 30' | 38,063 | 2ED |
| 20 | 52 | 16,25 | 15 | 1,5 | 13 | 1,5 | 11° 18' 36" | 41,318 | 2FB |
| 20 | 52 | 22,25 | 21 | 1,5 | 18 | 1,5 | 11° 18' 36" | 39,518 | 2FD |
| 22 | 40 | 12 | 12 | 0,3 | 9 | 0,3 | 12° | 32,665 | 2BC |
| 22 | 47 | 17 | 17,5 | 1 | 13,5 | 1 | 12° 35' | 37,542 | 2CC |
| 22 | 52 | 22 | 22 | 2 | 18,5 | 1,5 | 12° 14' | 40,548 | 2ED |
| 25 | 42 | 12 | 12 | 0,3 | 9 | 0,3 | 12° | 34,608 | 2BD |
| 25 | 47 | 17 | 17 | 0,6 | 14 | 0,6 | 10° 55' | 38,278 | 2CE |
| 25 | 50 | 17 | 17,5 | 1,5 | 13,5 | 1 | 13° 30' | 40,205 | 2CC |
| 25 | 52 | 19,25 | 18 | 1 | 16 | 1 | 13° 30' | 41,331 | 2CD |
| 25 | 52 | 22 | 22 | 1 | 18 | 1 | 13° 10' | 40,441 | 2DE ^b |
| 25 | 58 | 26 | 26 | 2 | 21 | 1,5 | 12° 30' | 44,805 | 2EE |
| 25 | 62 | 18,25 | 17 | 1,5 | 15 | 1,5 | 11° 18' 36" | 50,637 | 2FB |
| 25 | 62 | 25,25 | 24 | 1,5 | 20 | 1,5 | 11° 18' 36" | 48,637 | 2FD |
| 28 | 45 | 12 | 12 | 0,3 | 9 | 0,3 | 12° | 37,639 | 2BD |
| 28 | 55 | 19 | 19,5 | 1,5 | 15,5 | 1,5 | 12° 10' | 44,888 | 2CD |
| 28 | 58 | 24 | 24 | 1 | 19 | 1 | 12° 45' | 45,846 | 2DE |
| 28 | 65 | 27 | 27 | 2 | 22 | 2 | 12° 45' | 50,33 | 2ED |
| 30 | 47 | 12 | 12 | 0,3 | 9 | 0,3 | 12° | 39,617 | 2BD |
| 30 | 55 | 20 | 20 | 1 | 16 | 1 | 11° | 45,283 | 2CE |
| 30 | 58 | 19 | 19,5 | 1,5 | 15,5 | 1,5 | 12° 50' | 47,309 | 2CD |
| 30 | 62 | 25 | 25 | 1 | 19,5 | 1 | 12° 50' | 49,524 | 2DE |
| 30 | 68 | 29 | 29 | 2 | 24 | 2 | 12° 28' | 52,696 | 2EE |
| 30 | 72 | 20,75 | 19 | 1,5 | 16 | 1,5 | 11° 51' 35" | 58,287 | 2FB |
| 30 | 72 | 28,75 | 27 | 1,5 | 23 | 1,5 | 11° 51' 35" | 55,767 | 2FD |

^a Maximum chamfer dimensions are given in ISO 582.

^b Dimension series deviates from the rules in [Clause 5](#).

Table 4 (continued)

| <i>d</i> | <i>D</i> | <i>T</i> | <i>B</i> | <i>r</i> _s min ^a | <i>C</i> | <i>r</i> _{1s} min ^a | <i>α</i> | <i>E</i> | Dimension series |
|----------|----------|----------|----------|--|----------|---|-------------|----------|------------------|
| 32 | 52 | 14 | 15 | 0,6 | 10 | 0,6 | 12° | 44,261 | 2BD |
| 32 | 62 | 21 | 21 | 1,5 | 17 | 1,5 | 12° 30' | 50,554 | 2CD |
| 32 | 65 | 26 | 26 | 1 | 20,5 | 1 | 13° | 51,791 | 2DE |
| 32 | 72 | 29 | 29 | 2 | 24 | 2 | 12° 41' 30" | 56,151 | 2ED |
| 35 | 55 | 14 | 14 | 0,6 | 11,5 | 0,6 | 11° | 47,22 | 2BD |
| 35 | 62 | 21 | 21 | 1 | 17 | 1 | 11° 30' | 51,32 | 2CE |
| 35 | 68 | 23 | 23 | 2 | 18,5 | 2 | 12° 35' | 55,4 | 2DD |
| 35 | 72 | 28 | 28 | 1,5 | 22 | 1,5 | 13° 15' | 57,186 | 2DE |
| 35 | 78 | 33 | 32,5 | 2,5 | 27 | 2 | 12° 12' | 61,925 | 2EE ^b |
| 35 | 80 | 22,75 | 21 | 2 | 18 | 1,5 | 11° 51' 35" | 65,769 | 2FB |
| 35 | 80 | 32,75 | 31 | 2 | 25 | 1,5 | 11° 51' 35" | 62,829 | 2FE |
| 40 | 62 | 15 | 15 | 0,6 | 12 | 0,6 | 10° 55' | 53,388 | 2BC |
| 40 | 68 | 22 | 22 | 1 | 18 | 1 | 10° 40' | 57,29 | 2BE ^b |
| 40 | 75 | 24 | 24 | 2 | 19,5 | 2 | 12° 07' | 62,155 | 2CD |
| 40 | 75 | 26 | 26 | 1,5 | 20,5 | 1,5 | 13° 20' | 61,169 | 2CE |
| 40 | 80 | 32 | 32 | 1,5 | 25 | 1,5 | 13° 25' | 63,405 | 2DE |
| 40 | 85 | 33 | 32,5 | 2,5 | 28 | 2 | 12° 55' | 66,612 | 2EE |
| 40 | 90 | 25,25 | 23 | 2 | 20 | 1,5 | 12° 57' 10" | 72,703 | 2FB |
| 40 | 90 | 35,25 | 33 | 2 | 27 | 1,5 | 12° 57' 10" | 69,253 | 2FD |
| 45 | 68 | 15 | 15 | 0,6 | 12 | 0,6 | 12° | 58,852 | 2BC |
| 45 | 75 | 24 | 24 | 1 | 19 | 1 | 11° 05' | 63,116 | 2CE |
| 45 | 80 | 24 | 24 | 2 | 19,5 | 2 | 13° | 66,615 | 2CD |
| 45 | 95 | 36 | 35 | 2,5 | 30 | 2,5 | 12° 09' | 75,712 | 2ED ^b |
| 45 | 100 | 27,25 | 25 | 2 | 22 | 1,5 | 12° 57' 10" | 81,78 | 2FB |
| 45 | 100 | 38,25 | 36 | 2 | 30 | 1,5 | 12° 57' 10" | 78,33 | 2FD |
| 50 | 72 | 15 | 15 | 0,6 | 12 | 0,6 | 12° 50' | 62,748 | 2BC |
| 50 | 80 | 24 | 24 | 1 | 19 | 1 | 11° 55' | 67,775 | 2CE |
| 50 | 82 | 21,5 | 21,5 | 3 | 17 | 0,5 | 11° 30' | 70,594 | 2CC |
| 50 | 85 | 24 | 24 | 2 | 19,5 | 2 | 13° 52' | 70,969 | 2CD |
| 50 | 90 | 28 | 28 | 3 | 23 | 2,5 | 12° 22' | 74,538 | 2DD |
| 50 | 100 | 36 | 35 | 2,5 | 30 | 2,5 | 12° 51' | 79,996 | 2ED |
| 50 | 110 | 29,25 | 27 | 2,5 | 23 | 2 | 12° 57' 10" | 90,633 | 2FB |
| 50 | 110 | 42,25 | 40 | 2,5 | 33 | 2 | 12° 57' 10" | 86,263 | 2FD |
| 55 | 80 | 17 | 17 | 1 | 14 | 1 | 11° 39' | 69,503 | 2BC |
| 55 | 85 | 18 | 18,5 | 2 | 14 | 2 | 12° 49' | 73,586 | 2CC |

^a Maximum chamfer dimensions are given in ISO 582.

^b Dimension series deviates from the rules in [Clause 5](#).

Table 4 (continued)

| <i>d</i> | <i>D</i> | <i>T</i> | <i>B</i> | <i>r_s min^a</i> | <i>C</i> | <i>r_{1s} min^a</i> | <i>α</i> | <i>E</i> | Dimension series |
|---|----------|----------|----------|--------------------------------------|----------|---------------------------------------|-------------|----------|------------------|
| 55 | 90 | 27 | 27 | 1,5 | 21 | 1,5 | 11° 45' | 76,656 | 2CE |
| 55 | 95 | 27 | 27 | 2 | 21,5 | 2 | 12° 43' 30" | 80,106 | 2CD |
| 55 | 95 | 29 | 29 | 1,5 | 23,5 | 2,5 | 12° 35' | 79,593 | 2DD ^b |
| 55 | 110 | 39 | 39 | 2,5 | 32 | 2,5 | 13° | 88,446 | 2ED ^b |
| 55 | 120 | 31,5 | 29 | 2,5 | 25 | 2 | 12° 57' 10" | 99,146 | 2FB |
| 55 | 120 | 45,5 | 43 | 2,5 | 35 | 2 | 12° 57' 10" | 94,316 | 2FD |
| | | | | | | | | | |
| 60 | 85 | 17 | 17 | 1 | 14 | 1 | 12° 27' | 74,185 | 2BC |
| 60 | 90 | 18 | 18,5 | 2 | 14 | 2 | 13° 38' 30" | 78,249 | 2CC |
| 60 | 95 | 27 | 27 | 1,5 | 21 | 1,5 | 12° 20' | 80,422 | 2CE |
| 60 | 100 | 27 | 27 | 2 | 21,5 | 2 | 13° 27' | 84,587 | 2CD |
| 60 | 115 | 40 | 39 | 2,5 | 33 | 2,5 | 12° 30' | 93,46 | 2EE |
| 60 | 130 | 33,5 | 31 | 3 | 26 | 2,5 | 12° 57' 10" | 107,769 | 2FB |
| 60 | 130 | 48,5 | 46 | 3 | 37 | 2,5 | 12° 57' 10" | 102,939 | 2FD |
| | | | | | | | | | |
| 65 | 90 | 17 | 17 | 1 | 14 | 1 | 13° 15' | 78,849 | 2BC |
| 65 | 100 | 22 | 22 | 2 | 17,5 | 2 | 12° 10' 30" | 87,433 | 2CC |
| 65 | 100 | 27 | 27 | 1,5 | 21 | 1,5 | 13° 05' | 85,257 | 2CE |
| 65 | 110 | 31 | 31 | 2 | 25 | 2 | 12° 27' | 93,09 | 2DD |
| 65 | 120 | 39 | 38,5 | 3 | 32 | 2,5 | 12° 40' | 98,572 | 2ED |
| 65 | 125 | 43 | 42 | 2,5 | 35 | 2,5 | 12° | 102,378 | 2FD |
| 65 | 140 | 36 | 33 | 3 | 28 | 2,5 | 12° 57' 10" | 116,846 | 2GB |
| 65 | 140 | 51 | 48 | 3 | 39 | 2,5 | 12° 57' 10" | 111,786 | 2GD |
| | | | | | | | | | |
| 70 | 100 | 20 | 20 | 1 | 16 | 1 | 11° 53' | 88,59 | 2BC |
| 70 | 105 | 22 | 22 | 2 | 17,5 | 2 | 12° 49' 30" | 92,004 | 2CC |
| 70 | 110 | 31 | 31 | 1,5 | 25,5 | 1,5 | 10° 45' | 95,021 | 2CE |
| 70 | 120 | 34 | 33 | 2 | 27 | 2 | 12° 22' | 101,343 | 2DD |
| 70 | 130 | 43 | 42 | 3 | 35 | 2,5 | 12° 31' 30" | 106,766 | 2ED |
| 70 | 150 | 38 | 35 | 3 | 30 | 2,5 | 12° 57' 10" | 125,244 | 2GB |
| 70 | 150 | 54 | 51 | 3 | 42 | 2,5 | 12° 57' 10" | 119,724 | 2GD |
| | | | | | | | | | |
| 75 | 105 | 20 | 20 | 1 | 16 | 1 | 12° 31' | 93,223 | 2BC |
| 75 | 115 | 25 | 25 | 2 | 20 | 2 | 12° | 100,414 | 2CC |
| 75 | 115 | 31 | 31 | 1,5 | 25,5 | 1,5 | 11° 15' | 99,4 | 2CE |
| 75 | 125 | 34 | 33 | 2,5 | 27 | 2 | 12° 55' | 105,786 | 2DD |
| 75 | 135 | 43 | 42 | 3 | 35 | 2,5 | 13° 03' | 111,153 | 2ED |
| 75 | 145 | 51 | 51 | 3 | 42 | 2,5 | 13° 34' | 117,744 | 2FE |
| 75 | 160 | 40 | 37 | 3 | 31 | 2,5 | 12° 57' 10" | 134,097 | 2GB |
| 75 | 160 | 58 | 55 | 3 | 45 | 2,5 | 12° 57' 10" | 127,887 | 2GD |
| | | | | | | | | | |
| ^a Maximum chamfer dimensions are given in ISO 582. | | | | | | | | | |
| ^b Dimension series deviates from the rules in Clause 5 . | | | | | | | | | |

Table 4 (continued)

| d | D | T | B | $r_s \text{ min}^a$ | C | $r_{1s} \text{ min}^a$ | α | E | Dimension series |
|-----|-----|-------|--------|---------------------|--------|------------------------|-------------|---------|------------------|
| 80 | 110 | 20 | 20 | 1 | 16 | 1 | 13° 10' | 97,974 | 2BC |
| 80 | 120 | 25 | 25 | 2 | 20 | 2 | 12° 33' 30" | 105,003 | 2CC |
| 80 | 125 | 36 | 36 | 1,5 | 29,5 | 1,5 | 10° 30' | 107,75 | 2CE |
| 80 | 130 | 34 | 33 | 2,5 | 27 | 2 | 13° 30' | 110,475 | 2DD |
| 80 | 145 | 46 | 45 | 3 | 38 | 2,5 | 12° 02' | 120,366 | 2ED |
| 80 | 170 | 42,5 | 39 | 3 | 33 | 2,5 | 12° 57' 10" | 143,174 | 2GB |
| 80 | 170 | 61,5 | 58 | 3 | 48 | 2,5 | 12° 57' 10" | 136,504 | 2GD |
| | | | | | | | | | |
| 85 | 120 | 23 | 23 | 1,5 | 18 | 1,5 | 12° 18' | 106,599 | 2BC ^b |
| 85 | 125 | 25 | 25 | 2,5 | 20 | 2 | 13° 07' 30" | 109,65 | 2CC |
| 85 | 130 | 36 | 36 | 1,5 | 29,5 | 1,5 | 11° | 112,838 | 2CE |
| 85 | 135 | 34 | 33 | 2,5 | 28 | 2 | 13° 02' | 115,904 | 2DD |
| 85 | 150 | 46 | 46 | 3 | 38 | 3 | 12° 30' | 124,965 | 2ED |
| 85 | 180 | 44,5 | 41 | 4 | 34 | 3 | 12° 57' 10" | 150,433 | 2GB |
| 85 | 180 | 63,5 | 60 | 4 | 49 | 3 | 12° 57' 10" | 144,223 | 2GD |
| | | | | | | | | | |
| 90 | 125 | 23 | 23 | 1,5 | 18 | 1,5 | 12° 51' | 111,282 | 2BC ^b |
| 90 | 135 | 28 | 27,5 | 2,5 | 23 | 2 | 12° 01' 30" | 119,139 | 2CC |
| 90 | 140 | 34 | 33 | 2,5 | 28 | 2,5 | 12° 02' 30" | 121,86 | 2CD |
| 90 | 140 | 39 | 39 | 2 | 32,5 | 1,5 | 10° 10' | 122,363 | 2CE |
| 90 | 155 | 44 | 44 | 3 | 35,5 | 2,5 | 12° 48' 40" | 130,944 | 2EC ^b |
| 90 | 155 | 46 | 46 | 3 | 38 | 3 | 12° 17' | 130,206 | 2ED |
| 90 | 165 | 47 | 46 | 3 | 39 | 3 | 12° | 140,251 | 2FC |
| 90 | 190 | 46,5 | 43 | 4 | 36 | 3 | 12° 57' 10" | 159,061 | 2GB |
| 90 | 190 | 57,15 | 57,531 | 8 | 46,038 | 3,3 | 12° 35' | 157,96 | 2GC |
| 90 | 190 | 67,5 | 64 | 4 | 53 | 3 | 12° 57' 10" | 151,701 | 2GD |
| | | | | | | | | | |
| 95 | 130 | 23 | 23 | 1,5 | 18 | 1,5 | 13° 25' | 116,082 | 2BC ^b |
| 95 | 140 | 28 | 27,5 | 2,5 | 23 | 2,5 | 12° 30' | 123,797 | 2CC |
| 95 | 145 | 34 | 33 | 2,5 | 28 | 2,5 | 12° 30' | 126,419 | 2CD |
| 95 | 145 | 39 | 39 | 2 | 32,5 | 1,5 | 10° 30' | 126,346 | 2CE |
| 95 | 160 | 46 | 46 | 3 | 38 | 3 | 12° 43' | 134,711 | 2ED |
| 95 | 200 | 49,5 | 45 | 4 | 38 | 3 | 12° 57' 10" | 165,861 | 2GB |
| 95 | 200 | 71,5 | 67 | 4 | 55 | 3 | 12° 57' 10" | 160,318 | 2GD |
| | | | | | | | | | |
| 100 | 140 | 25 | 25 | 1,5 | 20 | 1,5 | 12° 23' | 125,717 | 2CC |
| 100 | 145 | 28 | 27,5 | 2,5 | 23 | 2,5 | 12° 58' 30" | 128,448 | 2DC ^b |
| 100 | 150 | 34 | 33 | 2,5 | 28 | 2,5 | 12° 57' 30" | 130,992 | 2CD |
| 100 | 150 | 39 | 39 | 2 | 32,5 | 1,5 | 10° 50' | 130,323 | 2CE |
| 100 | 165 | 47 | 46 | 3 | 39 | 3 | 12° | 140,251 | 2EE |
| 100 | 215 | 51,5 | 47 | 4 | 39 | 3 | 12° 57' 10" | 178,578 | 2GB |

^a Maximum chamfer dimensions are given in ISO 582.

^b Dimension series deviates from the rules in [Clause 5](#).