

INTERNATIONAL STANDARD

ISO 885

Second edition
2000-03-01

General purpose bolts and screws — Metric series — Radii under the head

Vis d'application générale — Série métrique — Rayon d'arrondi sous tête



Reference number
ISO 885:2000(E)

© ISO 2000

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

© ISO 2000

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 either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 734 10 79
E-mail copyright@iso.ch
Web www.iso.ch

Printed in Switzerland

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 3.

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 International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 885 was prepared by Technical Committee ISO/TC 2, *Fasteners*, Subcommittee SC 7, *Reference Standards for fasteners (mainly covering terminology, dimensioning, sizes and tolerancing)*.

This second edition cancels and replaces the first edition (ISO 885:1976), which has been technically revised.

General purpose bolts and screws — Metric series — Radii under the head

1 Scope

This International Standard specifies the sizes of the radii under the head and the transition diameters of metric series general purpose bolts and screws.

2 Dimensions

See Figure 1 and Table 1.

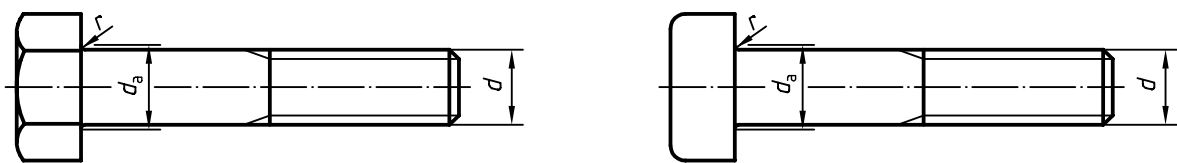


Figure 1

Table 1 — Dimensions r_{\min} and $d_{a, \max}$

Dimensions in millimetres

| Thread diameter d | Radius r_{\min} product grades A, B and C | Transition diameter ^a $d_{a, \max}$ | | Thread diameter d | Radius r_{\min} product grades A, B and C | Transition diameter ^a $d_{a, \max}$ | |
|------------------------|--|---|--------------------|------------------------|--|---|--------------------|
| | | product grades A and B | product grade C | | | product grades A and B | product grade C |
| 1,6 | 0,1 | 2 | — | 39 | 1 | 42,4 | 45,4 |
| 2 | 0,1 | 2,6 | — | 42 | 1,2 | 45,6 | 48,6 |
| 2,2 | 0,1 | 2,8 | — | 45 | 1,2 | 48,6 | 52,6 |
| 2,5 | 0,1 | 3,1 | — | 48 | 1,6 | 52,6 | 56,6 |
| 3 | 0,1 | 3,6 | — | 52 | 1,6 | 56,6 | 62,6 |
| 3,5 | 0,1 | 4,1 | — | 56 | 2 | 63 | 67 |
| 4 | 0,2 | 4,7 | — | 60 | 2 | 67 | 71 |
| 4,5 | 0,2 | 5,2 | — | 64 | 2 | 71 | 75 |
| 5 | 0,2 | 5,7 | 6 | 68 | 2 | 75 | 79 |
| 6 | 0,25 | 6,8 | 7,2 | 72 | 2 | 79 | 83 |
| 7 | 0,25 | 7,8 | 8,2 | 76 | 2 | 83 | 87 |
| 8 | 0,4 | 9,2 | 10,2 | 80 | 2 | 87 | 92 |
| 10 | 0,4 | 11,2 | 12,2 | 85 | 2 | 92 | 97 |
| 12 | 0,6 | 13,7 | 14,7 | 90 | 2,5 | 97 | 102 |
| 14 | 0,6 | 15,7 | 16,7 | 95 | 2,5 | 102 | 108 |
| 16 | 0,6 | 17,7 | 18,7 | 100 | 2,5 | 108 | 113 |
| 18 | 0,6 | 20,2 | 21,2 | 105 | 2,5 | 113 | 118 |
| 20 | 0,8 | 22,4 | 24,4 | 110 | 2,5 | 118 | 123 |
| 22 | 0,8 | 24,4 | 26,4 | 115 | 2,5 | 123 | 128 |
| 24 | 0,8 | 26,4 | 28,4 | 120 | 2,5 | 128 | 133 |
| 27 | 1 | 30,4 | 32,4 | 125 | 2,5 | 133 | 138 |
| 30 | 1 | 33,4 | 35,4 | 130 | 2,5 | 138 | 145 |
| 33 | 1 | 36,4 | 38,4 | 140 | 2,5 | 148 | 156 |
| 36 | 1 | 39,4 | 42,4 | 150 | 2,5 | 159 | 166 |

^a The transition diameter d_a is the diameter of the circle formed at the junction of the radius r and the bearing surface of the head.

.....

ICS 21.060.10

Price based on 2 pages

© ISO 2000 – All rights reserved