

International Standard



4753

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Fasteners — Ends of parts with external metric ISO thread

Éléments de fixation — Extrémités des éléments à filetage extérieur métrique ISO

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Descriptors : fasteners, bolts, screws, dimensions.

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been authorized 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 4753 was developed by Technical Committee ISO/TC 2, *Fasteners*, and was circulated to the member bodies in December 1981.

It has been approved by the member bodies of the following countries:

Australia	Germany, F.R.	Norway
Austria	Hungary	Poland
Belgium	India	Romania
Brazil	Ireland	South Africa, Rep. of
Canada	Italy	Spain
China	Japan	Sweden
Czechoslovakia	Korea, Dem. P. Rep. of	Switzerland
Denmark	Korea, Rep. of	United Kingdom
Egypt, Arab Rep. of	Mexico	USSR
Finland	Netherlands	
France	New Zealand	

The member body of the following country expressed disapproval of the document on technical grounds:

USA

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1 Scope and field of application

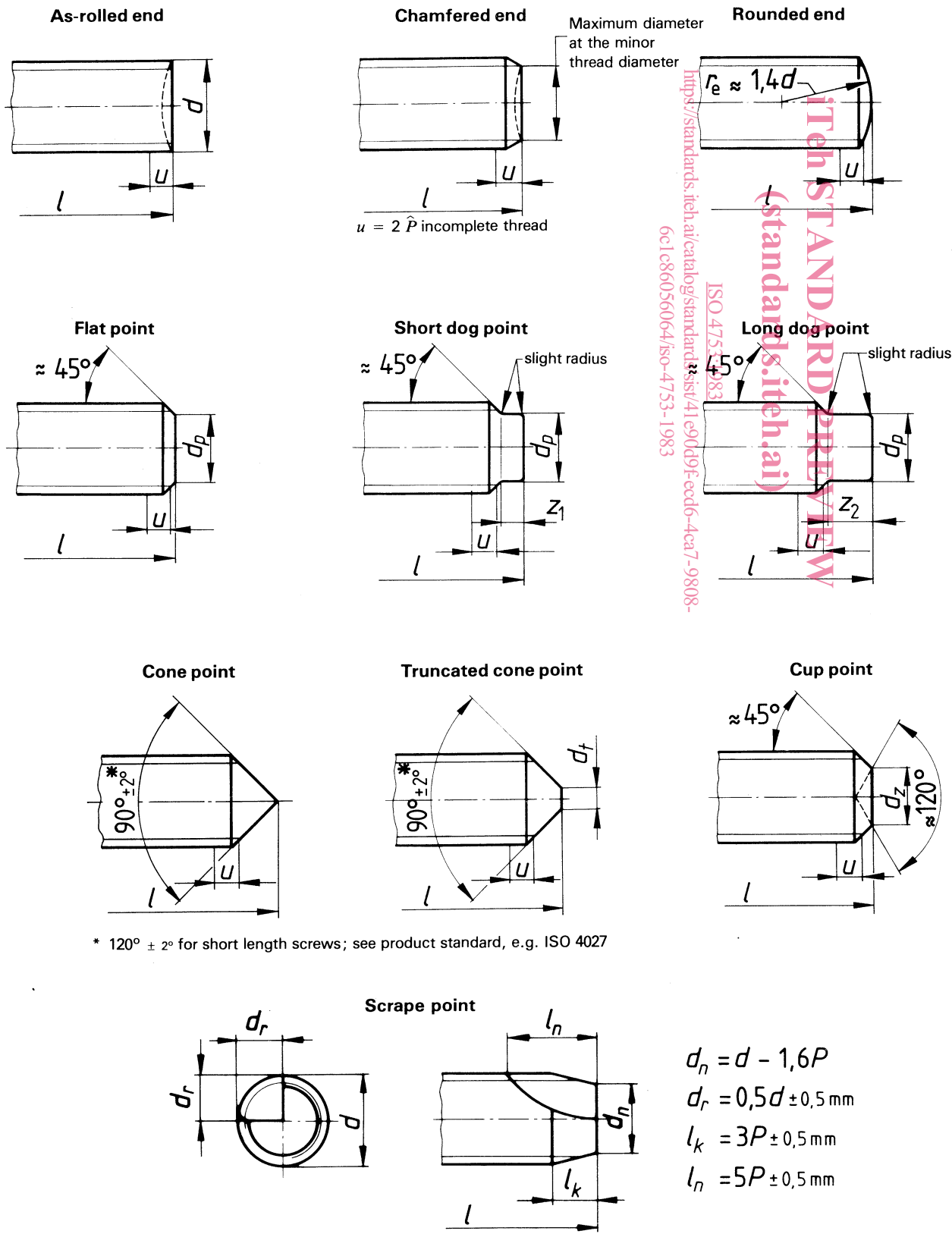
This International Standard lays down the form and dimensions of ends of parts with external metric ISO thread (for example, bolt and screw ends) recommended for use, unless otherwise specified in the appropriate product standard.

2 Reference

ISO 225, *Fasteners — Bolts, screws, studs and nuts — Symbols and designations of dimensions.*

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3 Dimensions



* $120^\circ \pm 2^\circ$ for short length screws; see product standard, e.g. ISO 4027

NOTES

- 1 The 45° angle applies only to the portion of the point below the root diameter of the thread.
- 2 Other proprietary scrape forms are permissible.

Table

Dimensions in millimetres

Thread diameter d	d_p h14	$d_l^{1)}$ h16	d_z h14	z_1 + IT 14 0	z_2 + IT 14 0
1	0,5	0,1	—	—	—
1,2	0,6	0,12	—	—	—
1,4	0,7	0,14	0,7	0,35	0,7
1,6	0,8	0,16	0,8	0,4	0,8
1,8	0,9	0,18	0,9	0,45	0,9
2	1	0,2	1	0,5	1
2,2	1,2	0,22	1,1	0,55	1,1
2,5	1,5	0,25	1,2	0,63	1,25
3	2	0,3	1,4	0,75	1,5
3,5	2,2	0,35	1,7	0,88	1,75
4	2,5	0,4	2	1	2
4,5	3	0,45	2,2	1,12	2,25
5	3,5	0,5	2,5	1,25	2,5
6	4	1,5	3	1,5	3
7	5	2	4	1,75	3,5
8	5,5	2	5	2	4
10	7	2,5	6	2,5	5
12	8,5	3	7	3	6
14	10	4	8,5	3,5	7
16	12	4	10	4	8
18	13	5	11	4,5	9
20	15	5	13	5	10
22	17	6	15	5,5	11
24	18	6	16	6	12
27	21	8	—	6,7	13,5
30	23	8	—	7,5	15
33	26	10	—	8,2	16,5
36	28	10	—	9	18
39	30	12	—	9,7	19,5
42	32	12	—	10,5	21
45	35	14	—	11,2	22,5
48	38	14	—	12	24
52	42	16	—	13	26

1) < M5 no flat part on the cone required; the point may be slightly rounded.

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