
Vijaki z valjasto glavo, prirobnikom in notranjim šestkotnikom

Hexagon socket head shoulder screws

Vis de centrage à tête cylindrique à six pans creux et à bout fileté réduit

Ta slovenski standard je istoveten z: ISO 7379:1983

[SIST ISO 7379:1996](https://standards.iteh.ai/catalog/standards/sist/9f5ec308-5302-419e-b5d0-cc22bc1c6d97/sist-iso-7379-1996)

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ICS:

21.060.10 Sorniki, vijaki, stebelni vijaki Bolts, screws, studs

SIST ISO 7379:1996**en**

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International Standard



7379

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

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UDC 621.882.215.6

Ref. No. ISO 7379-1983 (E)

Descriptors : fasteners, screws, socket head screws, dimensions, specifications, designation, tolerances of position.

Price based on 5 pages

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 7379 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.	New Zealand
Belgium	Hungary	Norway
Brazil	India	Romania
China	Italy	South Africa, Rep. of
Czechoslovakia	Japan	Spain
Denmark	Korea, Dem. P. Rep. of	USA
Egypt, Arab Rep. of	Korea, Rep. of	USSR
Finland	Mexico	

The member bodies of the following countries expressed disapproval of the document on technical grounds:

Ireland
Netherlands
Switzerland
United Kingdom

Hexagon socket head shoulder screws

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1 Scope and field of application

This International Standard lays down the specification for hexagon socket head shoulder screws with metric dimensions and nominal shoulder diameters from 6,5 to 25 mm inclusive.

NOTE — Particular attention is drawn to the note in clause 5 concerning the limitation on tensile testing.

If other specifications are required, it is recommended that they should be selected from existing International Standards, for example ISO 261, ISO 888, ISO 898, ISO 965, ISO 1302, ISO 4759/1.

2 References

ISO 261, *ISO general purpose metric screw threads — General plan.*

ISO 888, *Bolts, screws and studs — Nominal lengths, and thread lengths for general purpose bolts.*

ISO 898, *Mechanical properties of fasteners.*

ISO 965, *ISO general purpose metric screw threads — Tolerances.*

ISO 1302, *Technical drawings — Method of indicating surface texture on drawings.*

ISO 3269, *Fasteners — Acceptance inspection.*¹⁾

ISO 4042, *Threaded components — Electroplated coatings components.*¹⁾

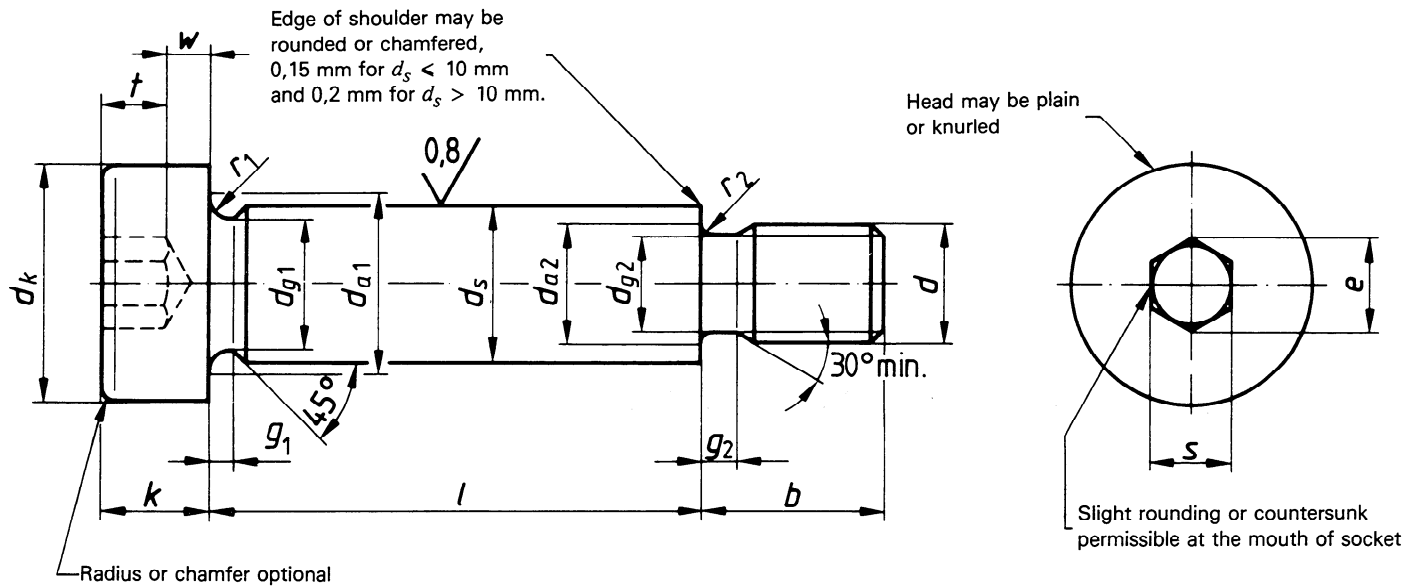
ISO 4755, *Fasteners — Thread undercuts for external metric ISO threads.*

ISO 4759/1, *Tolerances for fasteners — Part 1: Bolts, screws and nuts with thread diameters $\geq 1,6$ and ≤ 150 mm and product grades A, B and C.*

1) At present at the stage of draft.

ISO 7379-1983 (E)

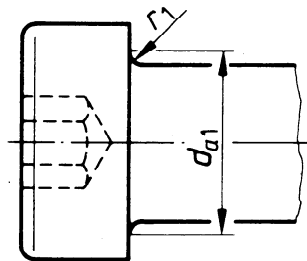
3 Dimensions



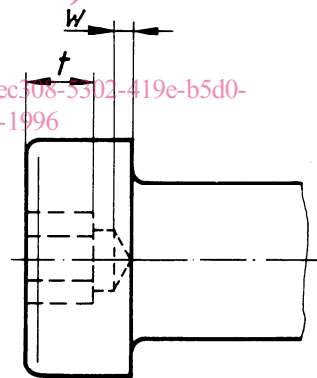
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Alternative form at head/shank junction permissible



Alternative form of socket permissible

For broached sockets which are at the maximum limit of size, the overcut resulting from drilling shall not exceed 20 % of the length of any flat of the socket.

NOTE — For form and position tolerances, see clause 4.

Dimensions in millimetres

d_s	nom.	6,5	8	10	13	16	20	25
	max.	6,487	7,987	9,987	12,984	15,984	19,980	24,980
	min.	6,451	7,951	9,951	12,941	15,941	19,928	24,928
d		M5	M6	M8	M10	M12	M16	M20
$P^{1)}$		0,8	1	1,25	1,5	1,75	2	2,5
b	max.	9,75	11,25	13,25	16,40	18,40	22,40	27,40
	min.	9,25	10,75	12,75	15,60	17,60	21,60	26,60
d_k	max. ²⁾	10	13	16	18	24	30	36
	max. ³⁾	10,22	13,27	16,27	18,27	24,33	30,33	36,39
	min.	9,78	12,73	15,73	17,73	23,67	29,67	35,61
d_{g1}	min.	5,92	7,42	9,42	12,42	15,42	19,42	24,42
d_{g2}	max.	3,86	4,58	6,25	7,91	9,57	13,33	16,57
	min.	3,68	4,40	6,03	7,69	9,35	12,96	16,30
d_{a1}	max.	7,5	9,2	11,2	15,2	18,2	22,4	27,4
d_{a2}	max.	5	6	8	10	12	16	20
e	min.	3,44	4,58	5,72	6,86	9,15	11,43	13,72
k	max.	4,5	5,5	7	9	11	14	16
	min.	4,32	5,32	6,78	8,78	10,73	13,73	15,73
g_1	max.	2,5	2,5	2,5	2,5	2,5	2,5	3
g_2	max.	2	2,5	3,1	3,7	4,4	5	6,3
r_1	min.	0,25	0,4	0,6	0,6	0,6	0,8	0,8
r_2	min.	0,5	0,53	0,64	0,77	0,87	1,14	1,38
s	nom.	3	4	5	6	8	10	12
	max.	3,08	4,095	5,095	6,095	8,115	10,115	12,142
	min.	3,02	4,02	5,02	6,02	8,025	10,025	12,032
t	min.	2,4	3,3	4,2	4,9	6,6	8,8	10
w	min.	1	1,15	1,6	1,8	2	3,2	3,25
⁴⁾								
nom.	min.	max.						
10	10	10,25						
12	12	12,25						
16	16	16,25						
20	20	20,25						
25	25	25,25						
30	30	30,25						
40	40	40,25						
50	50	50,25						
60	60	60,25						
70	70	70,25						
80	80	80,25						
90	90	90,25						
100	100	100,25						
120	120	120,25						

1) P = pitch of the thread.

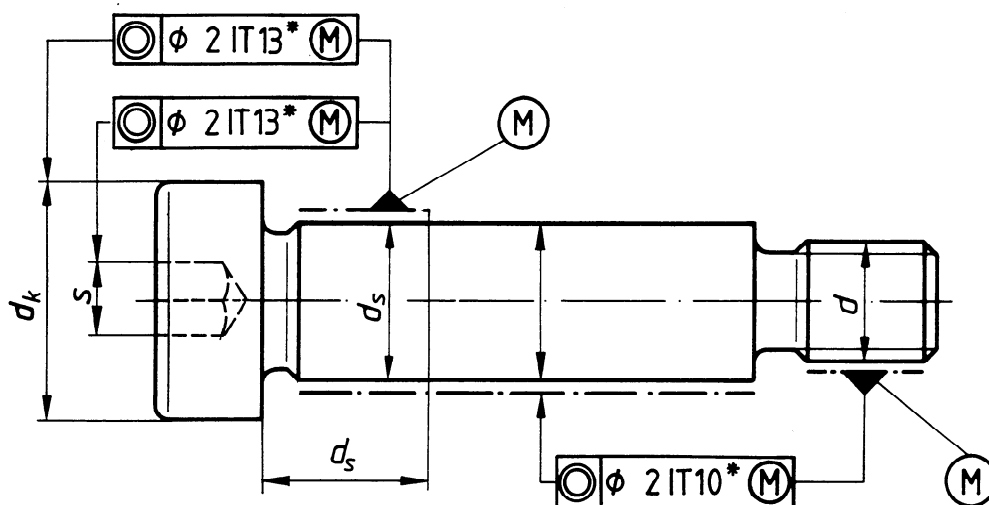
2) For plain heads.

3) For knurled heads.

4) Intermediate lengths according to ISO 888 are permissible.

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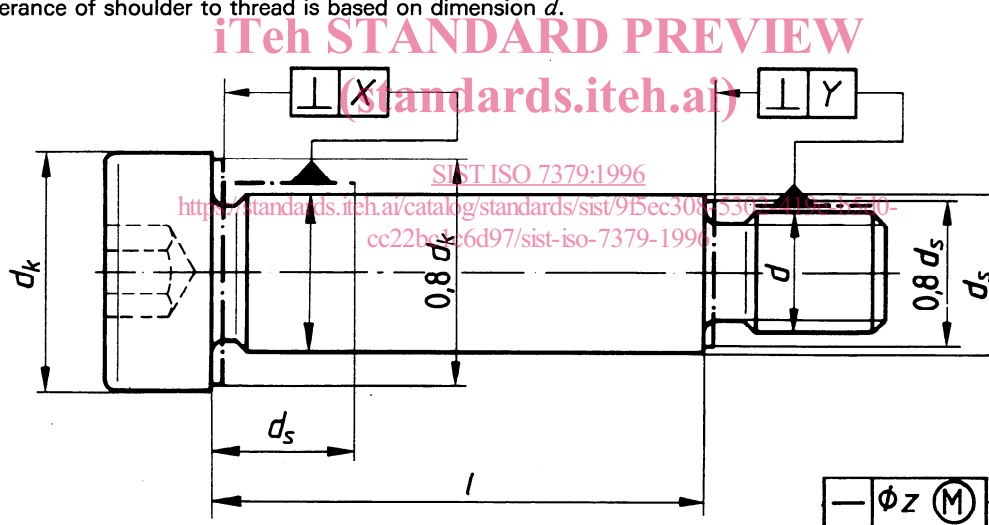
4 Geometrical tolerances



Concentricity tolerance of head to shoulder is based on dimension d_k .

Concentricity tolerance of socket to shoulder is based on dimension d_s .

Concentricity tolerance of shoulder to thread is based on dimension d .



Concentricity and perpendicularity tolerances

Based on d_k	2 IT13*
10	0,44
13	0,54
16	
18	
24	0,66
30	
36	0,78

Based on d_s	2 IT13*
6,5	0,44
8	
10	
13	0,54
16	
20	0,66
25	

Based on d	2 IT10*
5	0,12
6	
8	
10	0,14
12	
16	0,17
20	

Based on d_s	X
6,5	0,15
8	0,18
10	0,24
13	0,31
16	0,34
20	0,42
25	0,50

Based on d	Y
5	0,15
6	
8	
10	0,20
12	
16	0,30
20	

* The table gives the tolerance corresponding to quality 2 IT13 or 2 IT10 as a function of the respective diameter.