# INTERNATIONAL STANDARD



INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • MEЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANIZATION INTERNATIONALE DE NORMALISATION

# Hexagon socket set screws with cone point

Vis sans tête à six pans creux, à bout conique

First edition - 1977-08-01 eh STANDARD PREVIEW (standards.iteh.ai)

> ISO 4027:1977 https://standards.iteh.ai/catalog/standards/sist/d38c97f1-176e-4436-b146c09c09d5ed5b/iso-4027-1977

Price based on 3 pages

#### **FOREWORD**

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (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 set up 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 4027 was developed by Technical Committee ISO/TC 2, Fasteners, and was circulated to the member bodies in April 1976.

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

Romania. Belgium India

https://gtandards.iteh.ai/catalosotanda/Africat/dRep.7flf 176e-4436-b146-ltaly c09c09spainbb/iso-4027-1977 Brazil

Bulgaria

Czechoslovakia Korea, Rep. of Sweden Denmark Mexico Switzerland Finland Netherlands Turkey

United Kingdom France Norway

Germany **Philippines** U:S.S.R. Hungary Poland

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

> Australia Japan U.S.A.

# Hexagon socket set screws with cone point

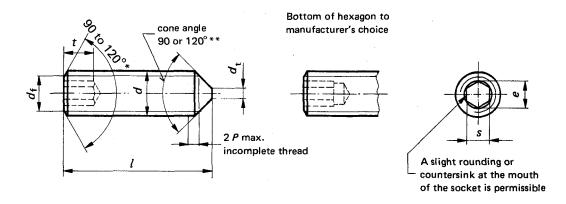
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## 1 SCOPE AND FIELD OF APPLICATION

This International Standard gives specifications for hexagon socket set screws with cone point with metric dimensions and thread diameters from 1,6 up to and including 24 mm and product grade A.

If, in special cases, specifications other than those listed in this International Standard are required, it is recommended that they should be selected from existing International Standards, for example ISO 261, ISO 888, ISO 898, ISO 965.

#### 2 DIMENSIONS



- The 120° angle on the top of the screw is mandatory for short-length screws above the dotted stepped line.
- \*\* The cone angle applies only to the portion of the point below the root diameter of the thread, and shall be  $120^{\circ}$  for lengths above the dotted stepped line. For all other lengths it shall be  $90^{\circ}$ .

										1	<del></del> ,		Dimensio	ons in mil	limetres
Th	read size o	1	М 1,6	M 2	M 2,5	М 3	M 4	М 5	М 6	M 8	M 10	M 12	112 M 16 M 20		M 24
Ρ	1)		0,35	0,4	0,45	0,5	0,7	0,8	1,0	1,25	1,5	1,75	2,0	2,5	3,0
d <sub>t</sub>	max.		0	0	0	0	0	0	1,5	2,0	2,5	3,0	4,0	5,0	6,0
df	*		Minor thread diameter												
е	min. 2)		0,803	1,003	1,427	1,73	2,30	2,87	3,44	4,58	5,72	6,86	9,15	11,43	13,72
s	nominal		0,7	0,9	1,3	1,5	2,0	2,5	3,0	4,0	5,0	6,0	8,0	10,0	12,0
	min.		0,711	0,889	1,270	1,520	2,020	2,520	3,020	4,020	5,020	6,020	8,025	10,025	12,032
	max.		0,724	0,902	1,295	1,545	2,045	2,560	3,080	4,095	5,095	6,095	8,115	10,115	12,142
	min. 3)		0,7	0,8	1,2	1,2	1,5	2,0	2,0	3,0	4,0	4,8	6,4	8,0	10,0
t			1,5	1,7	2,0	2,0	2,5	3,0	3,5	5,0	6,0	8,0	10,0	12,0	15,0
				1 1	14.34.7		433							4 1 2.	
nominal	min.	max.													
2	1,80	2,20			I					<u> </u>					
2,5	2,30	2,70													
3	2,80	3,20	†		1										
4	3,76	4,24		iTel	rsi	AN	DA	RD	PR		EW				
5	4,76	5,24		Rar	nge (S	tan	dar	ls.it	eh.a	i)					
6	5,76	6,24	<del></del>			<u> </u>	<u> </u>			1 2 3 2 1	* 1 1 1		33.3	ar sa	y
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10	9,71	10,29	1100	Je / Stariga			d5ed5b	/iso-402	7-1977		11300				
12	11,65	12,35			1 123		A 35						N 194		
16	15,65	16,35													
20	19,58	20,42							рор	ular					1.8%
25	24,58	25,42													
30	29,58	30,42										2.			
35	34,5	35,5							3.4			1 1 2 2	lenç	yths	
40	39,5	40,5					**						(3)		
45	44,5	45,5									:				
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55	54,4	55,6		1											

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<sup>1)</sup> P = pitch of the thread.

<sup>2)</sup>  $e \min = 1,14 s \min$ , except for sizes M 1,6, M 2 and M 2,5.

<sup>3)</sup> Minimum depth of key engagement for screws with nominal lengths above the stepped line marked thus———.

<sup>4)</sup> Minimum depth of key engagement for screws with nominal lengths below the stepped line marked thus———.

## **3 SPECIFICATIONS AND REFERENCE STANDARDS**

Material		Steel	Stainless steel	Non-ferrous metal				
Thread	Tolerances	5g6g for class 45H; for other classes: 6g						
Thread	International Standards	ISO 261, ISO 965						
	Class	<b>4</b> 5H	A2-2					
Mechanical properties	International Standards	ISO 898/V	ISO <sup>1)</sup>	ISO 1)				
Talama	Product grade	A						
Tolerances	International Standard	ISO 4759/1 <sup>2)</sup>						
		black oxide (thermal or chemical)	plain	plain				
Finish		Requirements for electroplating are covered in ISO 4042 <sup>2</sup> ).						
	If different electroplating requirements are desired or if req needed for other finishes, they should be negotiated betwee supplier.							
Acceptability	T. L. CTAND	For acceptance procedure see ISO 11).						

<sup>1)</sup> In preparation.

2) At present at the stage of draft.

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## 4 DESIGNATION

ISO 4027:1977

https://standards.iteh.ai/catalog/standards/sist/d38c97f1-176e-4436-b146-Example for the designation of a hexagon socket set screw with cone point, thread size d=M6, nominal length l=12 mm and property class 45H:

Hexagon socket set screw ISO 4027 M6  $\times$  12-45H