

DIN EN ISO 4017



ICS 21.060.10

Supersedes
DIN EN ISO 4017:2001-03 and
DIN EN ISO 4017
Corrigendum 1:2005-03

**Hexagon head screws –
Product grades A and B (ISO 4017:2011)
English translation of DIN EN ISO 4017:2011-07**

Sechskantschrauben mit Gewinde bis Kopf –
Produktklassen A und B (ISO 4017:2011)
Englische Übersetzung von DIN EN ISO 4017:2011-07

Vis à tête hexagonale entièrement filetées –
Grades A et B (ISO 4017:2011)
Traduction anglaise de DIN EN ISO 4017:2011-07

Document comprises 18 pages

Translation by DIN-Sprachendienst.

In case of doubt, the German-language original shall be considered authoritative.



A comma is used as the decimal marker.

National foreword

This standard has been prepared by Technical Committee ISO/TC 2 “Fasteners” in collaboration with Technical Committee CEN/TC 185 “Fasteners” (both secretariats are held by DIN, Germany).

The responsible German body involved in its preparation was the *Normenausschuss Mechanische Verbindungselemente* (Fasteners Standards Committee), Working Committee NA 067-00-02 AA *Verbindungselemente mit metrischem Außengewinde*.

The DIN 4000-160-1 tabular layout of article characteristics shall apply to screws covered in this standard.

The DIN Standards corresponding to the International Standards referred to in Clause 2 of this document are as follows:

ISO 225	DIN EN ISO 225
ISO 724	DIN ISO 724
ISO 898-1	DIN EN ISO 898-1
ISO 965-1	DIN ISO 965-1
ISO 3269	DIN EN ISO 3269
ISO 3506-1	DIN EN ISO 3506-1
ISO 4042	DIN EN ISO 4042
ISO 4753	DIN EN ISO 4753
ISO 4759-1	DIN EN ISO 4759-1
ISO 6157-1	DIN EN 26157-1
ISO 8839	DIN EN 28839
ISO 8992	DIN ISO 8992
ISO 10683	DIN EN ISO 10683

Amendments

This standard differs from DIN EN ISO 4017:2001-03 and DIN EN ISO 4017 Corrigendum 1:2005-03 as follows:

- a) normative references are now undated;
- b) Corrigendum 1:2005 has been incorporated;
- c) the standard has been editorially revised and normative references have been updated;
- d) Annex ZA has been deleted.

Previous editions

DIN KrK 144: 1931-02
DIN Kr 553: 1935-09
DIN 933-1: 1926-07, 1942-04, 1952-12, 1963-03
DIN 933-2: 1926-07, 1942-04
DIN 933: 1967-12, 1970-12, 1983-12, 1987-09
DIN ISO 4017: 1987-09, 1989-10
DIN EN 24017: 1992-02
DIN EN ISO 4017: 2001-03
DIN EN ISO 4017 Corrigendum 1: 2005-03

National Annex NA (informative)

Bibliography

DIN 4000-160, *Tabular layout of product properties — Part 160: Fasteners with external thread*

DIN EN 26157-1, *Fasteners — Surface discontinuities — Bolts, screws and studs subject to general requirements*

DIN EN 28839, *Mechanical properties of fasteners — Nonferrous metal bolts, screws, studs and nuts*

DIN EN ISO 225, *Fasteners — Bolts, screws, studs and nuts — Symbols and descriptions of dimensions*

DIN EN ISO 898-1, *Mechanical properties of fasteners made of carbon steel and alloy steel — Part 1: Bolts, screws and studs with specified property classes — Coarse thread and fine pitch thread*

DIN EN ISO 3269, *Fasteners — Acceptance inspection*

DIN EN ISO 3506-1, *Mechanical properties of corrosion-resistant stainless steel fasteners — Part 1: Bolts, screws and studs*

DIN EN ISO 4042, *Fasteners — Electroplated coatings*

DIN EN ISO 4753, *Fasteners — Ends of parts with external ISO metric thread*

DIN EN ISO 4759-1, *Tolerances for fasteners — Part 1: Bolts, screws, studs and nuts — Product grades A, B and C*

DIN EN ISO 10683, *Fasteners — Non-electrolytically applied zinc flake coatings*

DIN ISO 724, *ISO general purpose metric screw threads — Basic dimensions*

DIN ISO 965-1, *ISO general purpose metric screw threads — Tolerances — Part 1: Principles and basic data*

DIN ISO 8992, *Fasteners — General requirements for bolts, screws, studs and nuts*

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English Version

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This European Standard was approved by CEN on 31 January 2011.

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Foreword

This document (EN ISO 4017:2011) has been prepared by Technical Committee ISO/TC 2 "Fasteners" in collaboration with Technical Committee CEN/TC 185 "Fasteners", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2011, and conflicting national standards shall be withdrawn at the latest by October 2011.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 4017:2000.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of ISO 4017:2011 has been approved by CEN as a EN ISO 4017:2011 without any modification.

Introduction

This International Standard belongs to a complete family of product standards developed by ISO on external hexagon drive fasteners. It comprises the following:

- a) hexagon head bolts (ISO 4014, ISO 4015, ISO 4016 and ISO 8765);
- b) hexagon head screws (ISO 4017, ISO 4018 and ISO 8676);
- c) hexagon nuts (ISO 4032, ISO 4033, ISO 4034, ISO 4035, ISO 4036, ISO 7040, ISO 7041, ISO 7042, ISO 7719, ISO 7720, ISO 8673, ISO 8674, ISO 8675, ISO 10511, ISO 10512 and ISO 10513);
- d) hexagon bolts with flange (ISO 4162, ISO 15071 and ISO 15072);
- e) hexagon nuts with flange (ISO 4161, ISO 7043, ISO 7044, ISO 10663, ISO 12125, ISO 12126 and ISO 21670).

1 Scope

This International Standard specifies the characteristics of hexagon head screws with threads from M1,6 up to and including M64, of product grade A for threads M1,6 to M24 and nominal lengths up to and including $10d$ or 150 mm, whichever is the shorter, and product grade B for threads over M24 or nominal lengths over $10d$ or 150 mm, whichever is the shorter.

NOTE This type of product is the same as that covered by ISO 4014 with the exception of threading up to head and nominal lengths up to and including 200 mm as preferred lengths.

If, in special cases, specifications other than those listed in this International Standard are required, they can be selected from existing International Standards, for example ISO 724, ISO 888, ISO 898-1, ISO 965-1, ISO 3506-1, ISO 4753 and ISO 4759-1.

2 Normative references

The following referenced documents are indispensable for the application 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 225, *Fasteners — Bolts, screws, studs and nuts — Symbols and descriptions of dimensions*

ISO 724, *ISO general-purpose metric screw threads — Basic dimensions*

ISO 898-1, *Mechanical properties of fasteners made of carbon steel and alloy steel — Part 1: Bolts, screws and studs with specified property classes — Coarse thread and fine pitch thread*

ISO 965-1, *ISO general-purpose metric screw threads — Tolerances — Part 1: Principles and basic data*

ISO 3269, *Fasteners — Acceptance inspection*

ISO 3506-1, *Mechanical properties of corrosion-resistant stainless steel fasteners — Part 1: Bolts, screws and studs*

ISO 3508, *Thread run-outs for fasteners with thread in accordance with ISO 261 and ISO 262*

ISO 4042, *Fasteners — Electroplated coatings*

ISO 4753, *Fasteners — Ends of parts with external ISO metric thread*

ISO 4759-1, *Tolerances for fasteners — Part 1: Bolts, screws, studs and nuts — Product grades A, B and C*

ISO 6157-1, *Fasteners — Surface discontinuities — Part 1: Bolts, screws and studs for general requirements*

ISO 8839, *Mechanical properties of fasteners — Bolts, screws, studs and nuts made of non-ferrous metals*

ISO 8992, *Fasteners — General requirements for bolts, screws, studs and nuts*

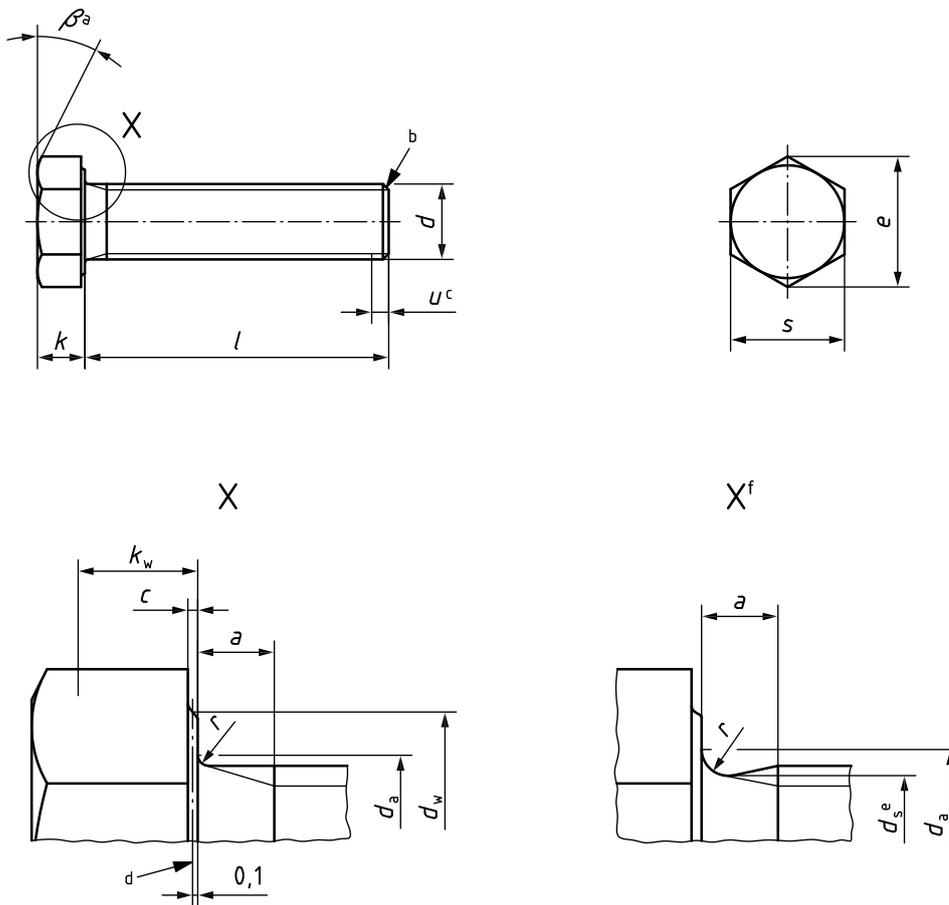
ISO 10683, *Fasteners — Non-electrolytically applied zinc flake coatings*

3 Dimensions

See Figure 1 and Tables 1 and 2.

Symbols and descriptions of dimensions are specified in ISO 225.

Dimensions in millimetres



- a $\beta = 15^\circ$ to 30° .
- b Point shall be chamfered or for threads $\leq M4$ may be as-rolled (sheared end) in accordance with ISO 4753.
- c Incomplete thread $u \leq 2P$.
- d Reference datum for d_w .
- e $d_s \approx$ pitch diameter.
- f Permissible shape.

Figure 1

Table 1 — Preferred threads

Dimensions in millimetres

Thread, <i>d</i>				M1,6	M2	M2,5	M3	M4	M5	M6	
<i>p</i> ^a				0,35	0,4	0,45	0,5	0,7	0,8	1	
<i>a</i>			max. ^b	1,05	1,2	1,35	1,5	2,1	2,4	3	
			min.	0,35	0,4	0,45	0,5	0,7	0,8	1	
<i>c</i>			max.	0,25	0,25	0,25	0,40	0,40	0,50	0,50	
			min.	0,10	0,10	0,10	0,15	0,15	0,15	0,15	
<i>d</i> _a				max.	2	2,6	3,1	3,6	4,7	5,7	6,8
<i>d</i> _w	Product grade	A	min.	2,27	3,07	4,07	4,57	5,88	6,88	8,88	
		B		2,30	2,95	3,95	4,45	5,74	6,74	8,74	
<i>e</i>	Product grade	A	min.	3,41	4,32	5,45	6,01	7,66	8,79	11,05	
		B		3,28	4,18	5,31	5,88	7,50	8,63	10,89	
<i>k</i>	Product grade	A	nom.	1,1	1,4	1,7	2	2,8	3,5	4	
			max.	1,225	1,525	1,825	2,125	2,925	3,65	4,15	
		B	min.	0,975	1,275	1,575	1,875	2,675	3,35	3,85	
			max.	1,3	1,6	1,9	2,2	3,0	3,74	4,24	
<i>k</i> _w ^c	Product grade	A	min.	0,68	0,89	1,10	1,31	1,87	2,35	2,70	
		B		0,63	0,84	1,05	1,26	1,82	2,28	2,63	
<i>r</i>				min.	0,1	0,1	0,1	0,1	0,2	0,2	0,25
<i>s</i>	Product grade	A	nom. = max.	3,20	4,00	5,00	5,50	7,00	8,00	10,00	
			B	min.	3,02	3,82	4,82	5,32	6,78	7,78	9,78
				min.	2,90	3,70	4,70	5,20	6,64	7,64	9,64
Product grade											
A											
B											
<i>l</i>											
nom.	min.	max.	min.	max.							
2	1,8	2,2	—	—							
3	2,8	3,2	—	—							
4	3,76	4,24	—	—							
5	4,76	5,24	—	—							
6	5,76	6,24	—	—							
8	7,71	8,29	—	—							
10	9,71	10,29	—	—							
12	11,65	12,35	—	—							
16	15,65	16,35	—	—							
20	19,58	20,42	18,95	21,05							
25	24,58	25,42	23,95	26,05							
30	29,58	30,42	28,95	31,05							
35	34,5	35,5	33,75	36,25							
40	39,5	40,5	38,75	41,25							
45	44,5	45,5	43,75	46,25							
50	49,5	50,5	48,75	51,25							
55	54,4	55,6	53,5	56,5							
60	59,4	60,6	58,5	61,5							
65	64,4	65,6	63,5	66,5							
70	69,4	70,6	68,5	71,5							
80	79,4	80,6	78,5	81,5							
90	89,3	90,7	88,25	91,75							
100	99,3	100,7	98,25	101,75							
110	109,3	110,7	108,25	111,75							
120	119,3	120,7	118,25	121,75							
130	129,2	130,8	128	132							
140	139,2	140,8	138	142							
150	149,2	150,8	148	152							
160	—	—	158	162							
180	—	—	178	182							
200	—	—	197,7	202,3							

Table 1 (continued)

Dimensions in millimetres

Thread, <i>d</i>					M8	M10	M12	M16	M20	M24	
<i>p</i> ^a					1,25	1,5	1,75	2	2,5	3	
<i>a</i>			max. ^b		4	4,5	5,3	6	7,5	9	
				min.	1,25	1,5	1,75	2	2,5	3	
<i>c</i>			max.		0,15	0,15	0,15	0,2	0,2	0,2	
				min.	0,6	0,6	0,6	0,8	0,8	0,8	
<i>d</i> _a					max.	9,2	11,2	13,7	17,7	22,4	26,4
<i>d</i> _w	Product grade	A	min.		11,63	14,63	16,63	22,49	28,19	33,61	
				B	11,47	14,47	16,47	22	27,7	33,25	
<i>e</i>	Product grade	A	min.		14,38	17,77	20,03	26,75	33,53	39,98	
				B	14,20	17,59	19,85	26,17	32,95	39,55	
<i>k</i>	Product grade	A	nom.		5,3	6,4	7,5	10	12,5	15	
			max.		5,45	6,58	7,68	10,18	12,715	15,215	
			min.		5,15	6,22	7,32	9,82	12,285	14,785	
			B	max.		5,54	6,69	7,79	10,29	12,85	15,35
				min.		5,06	6,11	7,21	9,71	12,15	14,65
<i>k</i> _w ^c	Product grade	A	min.		3,61	4,35	5,12	6,87	8,6	10,35	
				B		3,54	4,28	5,05	6,8	8,51	10,26
<i>r</i>					min.	0,4	0,4	0,6	0,6	0,8	0,8
<i>s</i>	Product grade	A	nom. = max.		13,00	16,00	18,00	24,00	30,00	36,00	
			B	min.		12,73	15,73	17,73	23,67	29,67	35,38
						12,57	15,57	17,57	23,16	29,16	35
Product grade											
A											
B											
<i>l</i>											
nom.	min.	max.	min.	max.							
2	1,8	2,2	—	—							
3	2,8	3,2	—	—							
4	3,76	4,24	—	—							
5	4,76	5,24	—	—							
6	5,76	6,24	—	—							
8	7,71	8,29	—	—							
10	9,71	10,29	—	—							
12	11,65	12,35	—	—							
16	15,65	16,35	—	—							
20	19,58	20,42	18,95	21,05							
25	24,58	25,42	23,95	26,05							
30	29,58	30,42	28,95	31,05							
35	34,5	35,5	33,75	36,25							
40	39,5	40,5	38,75	41,25							
45	44,5	45,5	43,75	46,25							
50	49,5	50,5	48,75	51,25							
55	54,4	55,6	53,5	56,5							
60	59,4	60,6	58,5	61,5							
65	64,4	65,6	63,5	66,5							
70	69,4	70,6	68,5	71,5							
80	79,4	80,6	78,5	81,5							
90	89,4	90,7	88,25	91,75							
100	99,3	100,7	98,25	101,75							
110	109,3	110,7	108,25	111,75							
120	119,3	120,7	118,25	121,75							
130	129,2	130,8	128	132							
140	139,2	140,8	138	142							
150	149,2	150,8	148	152							
160	—	—	158	162							
180	—	—	178	182							
200	—	—	197,7	202,3							

Table 1 (continued)

Dimensions in millimetres

Thread, <i>d</i>			M30	M36	M42	M48	M56	M64	
<i>p</i> ^a			3,5	4	4,5	5	5,5	6	
<i>a</i>		max. ^b	10,5	12	13,5	15	16,5	18	
		min.	3,5	4	4,5	5	5,5	6	
<i>c</i>		max.	0,2	0,2	0,3	0,3	0,3	0,3	
		min.	0,8	0,8	1	1	1	1	
<i>d</i> _a		max.	33,4	39,4	45,6	52,6	63	71	
<i>d</i> _w	Product grade	A	—	—	—	—	—	—	
		B	min.	42,75	51,11	59,95	69,45	78,66	88,16
<i>e</i>	Product grade	A	—	—	—	—	—	—	
		B	min.	50,85	60,79	71,3	82,6	93,56	104,86
<i>k</i>	Product grade	A	nom.	18,7	22,5	26	30	35	40
			max.	—	—	—	—	—	—
	Product grade	B	max.	19,12	22,92	26,42	30,42	35,5	40,5
			min.	18,28	22,08	25,58	29,58	34,5	39,5
<i>k</i> _w ^c	Product grade	A	—	—	—	—	—	—	
		B	min.	12,8	15,46	17,91	20,71	24,15	27,65
<i>r</i>		min.	1	1	1,2	1,6	2	2	
		nom. = max.	46	55,0	65,0	75,0	85,0	95,0	
<i>s</i>	Product grade	A	—	—	—	—	—	—	
		B	min.	45	53,8	63,1	73,1	82,8	92,8
Product grade									
A									
B									
<i>l</i>									
nom.	min.	max.	min.	max.					
2	1,8	2,2	—	—					
3	2,8	3,2	—	—					
4	3,76	4,24	—	—					
5	4,76	5,24	—	—					
6	5,76	6,24	—	—					
8	7,71	8,29	—	—					
10	9,71	10,29	—	—					
12	11,65	12,35	—	—					
16	15,65	16,35	—	—					
20	19,58	20,42	18,95	21,05					
25	24,58	25,42	23,95	26,05					
30	29,58	30,42	28,95	31,05					
35	34,5	35,5	33,75	36,25					
40	39,5	40,5	38,75	41,25					
45	44,5	45,5	43,75	46,25					
50	49,5	50,5	48,75	51,25					
55	54,4	55,6	53,5	56,5					
60	59,4	60,6	58,5	61,5					
65	64,4	65,6	63,5	66,5					
70	69,4	70,6	68,5	71,5					
80	79,4	80,6	78,5	81,5					
90	89,3	90,7	88,25	91,75					
100	99,3	100,7	98,25	101,75					
110	109,3	110,7	108,25	111,75					
120	119,3	120,7	118,25	121,75					
130	129,2	130,8	128	132					
140	139,2	140,8	138	142					
150	149,2	150,8	148	152					
160	—	—	158	162					
180	—	—	178	182					
200	—	—	197,7	202,3					
NOTE The range of preferred lengths is between the solid, bold, stepped line:									
— for product grade A, above the discontinuous, stepped line;									
— for product grade B, below this line.									
^a <i>P</i> is the pitch of the thread.									
^b Values in accordance with <i>a</i> _{max} , normal series, in ISO 3508.									
^c <i>k</i> _{w,min} = 0,7 <i>k</i> _{min}									

Table 2 — Non-preferred threads

Dimensions in millimetres

Thread, <i>d</i>					M3,5	M14	M18	M22	M27	
<i>p</i> ^a					0,6	2	2,5	2,5	3	
<i>a</i>	max. ^b				1,8	6	7,5	7,5	9	
	min.				0,6	2	2,5	2,5	3	
<i>c</i>	max.				0,15	0,15	0,2	0,2	0,2	
	min.				0,4	0,6	0,8	0,8	0,8	
<i>d</i> _a					max.	4,1	15,7	20,2	24,4	30,4
<i>d</i> _w	Product grade	A		min.	5,07	19,64	25,34	31,71	—	
		B			4,95	19,15	24,85	31,35	38	
<i>e</i>	Product grade	A		min.	6,58	23,36	30,14	37,72	—	
		B			6,44	22,78	29,56	37,29	45,2	
<i>k</i>	nom.				2,4	8,8	11,5	14	17	
	Product grade	A		max.	2,525	8,98	11,715	14,215	—	
		B			2,2	8,51	11,15	13,65	16,65	
	Product grade	A		min.	2,275	8,62	11,285	13,785	—	
B		2,6	9,09		11,85	14,35	17,35			
<i>k</i> _w ^c	Product grade	A		min.	1,59	6,03	7,9	9,65	—	
		B			1,54	5,96	7,81	9,56	11,66	
<i>r</i>					min.	0,1	0,6	0,6	0,8	1
<i>s</i>	nom. = max.				6,00	21,00	27,00	34,00	41,00	
	Product grade	A		min.	5,82	20,67	26,67	33,38	—	
		B			5,70	20,16	26,16	33	40	
Product grade										
A										
B										
<i>l</i>										
nom.	min.	max.	min.	max.						
8	7,71	8,29	—	—						
10	9,71	10,29	—	—						
12	11,65	12,35	—	—						
16	15,65	16,35	—	—						
20	19,58	20,42	—	—						
25	24,58	25,42	—	—						
30	29,58	30,42	—	—						
35	34,5	35,5	—	—						
40	39,5	40,5	38,75	41,25						
45	44,5	45,5	43,75	46,25						
50	49,5	50,5	48,75	51,25						
55	54,4	55,6	53,5	56,5						
60	59,4	60,6	58,5	61,5						
65	64,4	65,6	63,5	66,5						
70	69,4	70,6	68,5	71,5						
80	79,4	80,6	78,5	81,5						
90	89,3	90,7	88,25	91,75						
100	99,3	100,7	98,25	101,75						
110	109,3	110,7	108,25	111,75						
120	119,3	120,7	118,25	121,75						
130	129,2	130,8	128	132						
140	139,2	140,8	138	142						
150	149,2	150,8	148	152						
160	—	—	158	162						
180	—	—	178	182						
200	—	—	197,7	202,3						

4 Specifications and reference International Standards

See Table 3.

Table 3 — Specifications and reference International Standards

Material		Steel	Stainless steel	Non-ferrous metal
General requirements	International Standard	ISO 8992		
	Tolerance class	6g		
Thread	International Standard	ISO 724, ISO 965-1		
	Property class ^a	$d < 3$ mm: as agreed $3 \text{ mm} \leq d \leq 39$ mm: 5.6, 8.8, 9.8, 10.9 $d > 39$ mm: as agreed	$d \leq 24$ mm: A2-70, A4-70 $24 \text{ mm} < d \leq 39$ mm: A2-50, A4-50 $d > 39$ mm: as agreed	Materials specified in ISO 8839.
International Standard	$d \leq 39$ mm: ISO 898-1 $d < 3$ mm and $d > 39$ mm: as agreed	$d \leq 39$ mm: ISO 3506-1 $d > 39$ mm: as agreed		
Tolerance	Product grade	For $d \leq 24$ mm and $l \leq 10d$ or 150 mm ^b : A For $d > 24$ mm or $l > 10d$ or 150 mm ^b : B		
	International Standard	ISO 4759-1		
Finish — Coating		As processed Requirements for electroplating are specified in ISO 4042. Requirements for non-electrolytically applied zinc flake coatings are specified in ISO 10683.	As processed	As processed Requirements for electroplating are specified in ISO 4042.
		Additional requirements or other finishes or coatings shall be agreed between the supplier and the purchaser.		
Surface integrity		Limits for surface discontinuities are specified in ISO 6157-1.		
Acceptability		Acceptance inspection is specified in ISO 3269.		
^a Other property classes are specified in ISO 898-1 for steel and ISO 3506-1 for stainless steel, respectively. ^b Whichever is the shorter.				

5 Designation

EXAMPLE A hexagon head screw with thread size M12, nominal length $l = 80$ mm and property class 8.8 is designated as follows:

Hexagon head screw ISO 4017 - M12 × 80 - 8.8

Bibliography

- [1] ISO 888, *Bolts, screws and studs — Nominal lengths, and thread lengths for general purpose bolts*
- [2] ISO 4014, *Hexagon head bolts — Product grades A and B*
- [3] ISO 4015, *Hexagon head bolts — Product grade B — Reduced shank (shank diameter approximately equal to pitch diameter)*
- [4] ISO 4016, *Hexagon head bolts — Product grade C*
- [5] ISO 4018, *Hexagon head screws — Product grade C*
- [6] ISO 4032, *Hexagon nuts, style 1 — Product grades A and B*
- [7] ISO 4033, *Hexagon nuts, style 2 — Product grades A and B*
- [8] ISO 4034, *Hexagon nuts — Product grade C*
- [9] ISO 4035, *Hexagon thin nuts (chamfered) — Product grades A and B*
- [10] ISO 4036, *Hexagon thin nuts (unchamfered) — Product grade B*
- [11] ISO 4161, *Hexagon nuts with flange — Coarse thread*
- [12] ISO 4162, *Hexagon flange bolts — Small series*
- [13] ISO 7040, *Prevailing torque type hexagon nuts (with non-metallic insert), style 1 — Property classes 5, 8 and 10*
- [14] ISO 7041, *Prevailing torque type hexagon nuts (with non-metallic insert), style 2 — Property classes 9 and 12*
- [15] ISO 7042, *Prevailing torque type all-metal hexagon nuts, style 2 — Property classes 5, 8, 10 and 12*
- [16] ISO 7043, *Prevailing torque type hexagon nuts with flange (with non-metallic insert) — Product grades A and B*
- [17] ISO 7044, *Prevailing torque type all-metal hexagon nuts with flange — Product grades A and B*
- [18] ISO 7719, *Prevailing torque type all-metal hexagon nuts, style 1 — Property classes 5, 8 and 10*
- [19] ISO 7720, *Prevailing torque type all-metal hexagon nuts, style 2 — Property class 9*
- [20] ISO 8673, *Hexagon nuts, style 1, with metric fine pitch thread — Product grades A and B*
- [21] ISO 8674, *Hexagon nuts, style 2, with metric fine pitch thread — Product grades A and B*
- [22] ISO 8675, *Hexagon thin nuts (chamfered) with metric fine pitch thread — Product grades A and B*
- [23] ISO 8676, *Hexagon head screws with metric fine pitch thread — Product grades A and B*
- [24] ISO 8765, *Hexagon head bolts with metric fine pitch thread — Product grades A and B*
- [25] ISO 10511, *Prevailing torque type hexagon thin nuts (with non-metallic insert)*

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- [26] ISO 10512, *Prevailing torque type hexagon nuts (with non-metallic insert), style 1, with metric fine pitch thread — Property classes 6, 8 and 10*
- [27] ISO 10513, *Prevailing torque type all-metal hexagon nuts, style 2, with metric fine pitch thread — Property classes 8, 10 and 12*
- [28] ISO 10663, *Hexagon nuts with flange — Fine pitch thread*
- [29] ISO 12125, *Prevailing torque type hexagon nuts with flange (with non-metallic insert) with metric fine pitch thread — Product grades A and B*
- [30] ISO 12126, *Prevailing torque type all-metal hexagon nuts with flange with metric fine pitch thread — Product grades A and B*
- [31] ISO 15071, *Hexagon bolts with flange — Small series — Product grade A*
- [32] ISO 15072, *Hexagon bolts with flange with metric fine pitch thread — Small series — Product grade A*
- [33] ISO 21670, *Hexagon weld nuts with flange*