
Aeronavtika - Vijaki, valjasta glava, šestzoba vdolbina, široka toleranca, srednja navojna dolžina, iz legiranega jekla, kadmironi - Klasifikacija: 1100 MPa (pri temperaturi okolice)/235 °C

Aerospace series - Screws, pan head, six lobe recess, coarse tolerance normal shank, medium length thread, in alloy steel, cadmium plated - Classification: 1100 MPa (at ambient temperature)/235 °C

Luft- und Raumfahrt - Flachkopfschrauben, mit Sechs-Bogenzahn, mit mittlerer Gewindelänge, aus legiertem Stahl, verkadmert - Klasse 1100 MPa (bei Raumtemperatur)/235 °C

Série aérospatiale - Vis à tête cylindrique, à empreinte six lobes, tige normale à tolérance large, filetage moyen, en acier allié, cadmiées - Classification: 1100 MPa (à température ambiante)/235 °C

Ta slovenski standard je istoveten z: EN 4073:2009

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49.030.20 Sorniki, vijaki, stebelni vijaki Bolts, screws, studs

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EUROPEAN STANDARD
NORME EUROPÉENNE
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EN 4073

November 2009

ICS 49.030.20

English Version

Aerospace series - Screws, pan head, six lobe recess, coarse tolerance normal shank, medium length thread, in alloy steel, cadmium plated - Classification 1 100 MPa (at ambient temperature) / 235 °C

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This European Standard was approved by CEN on 15 September 2009.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

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Foreword

This document (EN 4073:2009) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, prior to its presentation to CEN.

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of an identical text or by endorsement, at the latest by May 2010, and conflicting national standards shall be withdrawn at the latest by May 2010.

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.

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, 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.

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EN 4073:2009 (E)**1 Scope**

This European Standard specifies the characteristics of screws, pan head, six lobe recess, coarse tolerance normal shank, medium length thread, in alloy steel, cadmium plated.

Classification: 1 100 MPa ¹⁾ / 235 °C ²⁾.

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.

EN 2133, *Aerospace series – Cadmium plating of steels with specified tensile strength ≤ 1450 MPa, copper, copper alloys and nickel alloys*

EN 2424, *Aerospace series – Marking of aerospace products*

EN 9100, *Quality Management Systems – Requirements for Aviation, Space and Defense Organizations*

EN 9133, *Aerospace series – Quality management systems – Qualification procedure for aerospace standard parts*

ISO 3353-1, *Aerospace – Lead and runout threads – Part 1: Rolled external threads*

ISO 5855-2, *Aerospace – MJ threads – Part 2: Limit dimensions for bolts and nuts*
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ISO 7689, *Aerospace – Bolts, with MJ threads, made of alloy steel, strength class 1 100 MPa – Procurement specification*

ISO 7913, *Aerospace – Bolts and screws, metric – Tolerances of form and position*

TR 3775, *Aerospace series – Bolts and pins – National materials* ³⁾

3 Required characteristics**3.1 Configuration – Dimensions – Masses**

See Figure 1 and Table 1.

Dimensions and tolerances are expressed in millimetres and apply after surface treatment.

3.2 Tolerances of form and position

ISO 7913 and those specified in Figure 1 and Table 1.

1) Minimum tensile strength of the material at ambient temperature.

2) Maximum temperature that the screw can withstand without continuous change in its original characteristics, after return to ambient temperature. The maximum temperature is determined by the surface treatment.

3) Published as ASD-STAN Technical Report at the date of publication of this standard.

3.3 Materials

TR 3775 (alloy steel, classification 1 100 MPa).

3.4 Surface treatment

EN 2133, 8 μm to 14 μm , on all surfaces which can be contacted by a 20 mm diameter ball. On all other surfaces, a continuous deposit shall be present, but no value is specified.

Black colour option: code B.

Dimensions in millimetres

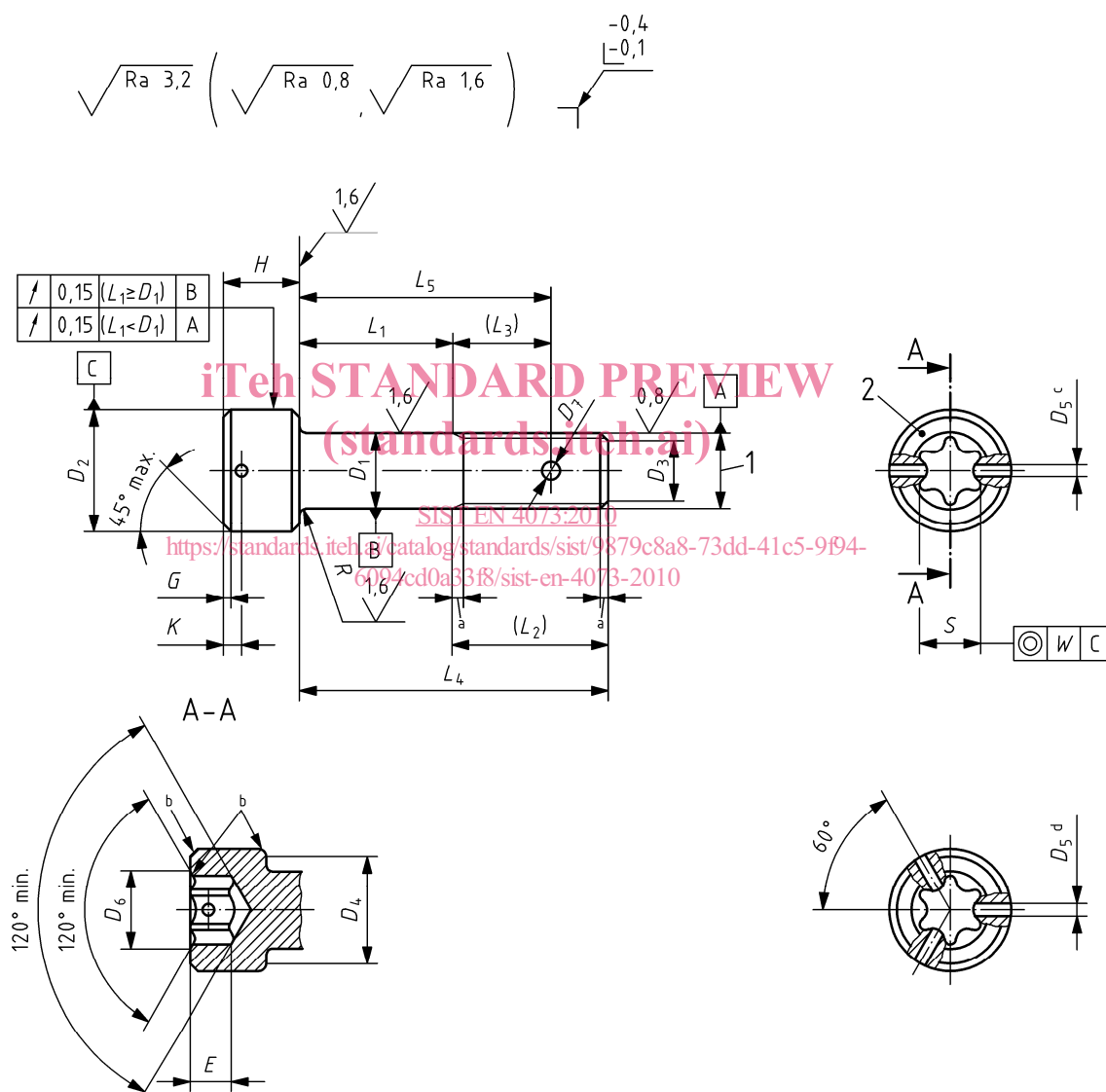


Figure 1

Table 1

Diameter code	Thread ¹⁾	D_1	D_2	D_3		D_4	D_5	D_6	D_7	E		G	H	
		h12	h13	nom.	Tol.	min.	H13	max.	H13	nom.	Tol.		nom.	Tol.
030	MJ3x0,5 - 4h6h	3	5,5	2,3	0	5,07	1	3,4	—	1,5	0 + 0,2	0,3	3	h13
040	MJ4x0,7 - 4h6h	4	7	3	- 0,5	6,53		3,9	1,1	2		0,4	4	
050	MJ5x0,8 - 4h6h	5	8,5	3,4	± 0,5	8,03		5,1	1,5	2,5		0,5	5	
060	MJ6x1 - 4h6h	6	10	4,2		9,38	6,3	1,4	3	0	0,6	6		
080	MJ8x1 - 4h6h	8	13	6,2		12,33	7,5	1,9	4	+ 0,3	0,8	8		
100	MJ10x1,25 - 4h6h	10	16	7,9		15,33	10,2	1,6	5	0	1	10		
120	MJ12x1,25 - 4h6h	12	18	9,8		17,23	13,8	2,4	6	+ 0,5	1,2	12		

Diameter code	K ± 0,1	$L_1 \pm 0,2$ ^{2) 3)}		L_2	L_3	R		W	Recess		Mass ⁴⁾			
		Length code	nom.			max.	min.		EN 3911 code	NAS 1800 number	⁵⁾	⁶⁾		
030	0,9	002 to 030	2 to 30	7,5	—	0,4	0,2	—	—	T10	1,04	0,055		
040	1,4	002 to 040	2 to 40	10	6	0,5	0,3	0,22	25	—	2,26	0,1		
050	1,6	003 to 050	3 to 50	12	7,5				—	—	27	—	4,55	0,153
060	2	003 to 060	3 to 60	14	8,5				—	T30	—	—	6,95	0,222
080	2,4	004 to 080	4 to 80	16,5	10,5	0,7	0,5	0,22	45	—	15,44	0,395		
100		005 to 100	5 to 100	20,5	13	0,8	0,6		—	T50	—	29,3	0,616	
120		006 to 120	6 to 120	22,5	14,5	0,9	—		—	T55	—	43,1	0,887	

1) In accordance with ISO 5855-2.

2) Increments:

- 1 for $L_1 \leq 30$;
- 2 for $30 < L_1 \leq 100$;
- 4 for $L_1 > 100$.

3) If greater lengths are required, they shall be chosen using the above increments. The length code corresponds to the length L_1 , completed by one or two zeros to the left, where necessary, to obtain a three digit code.

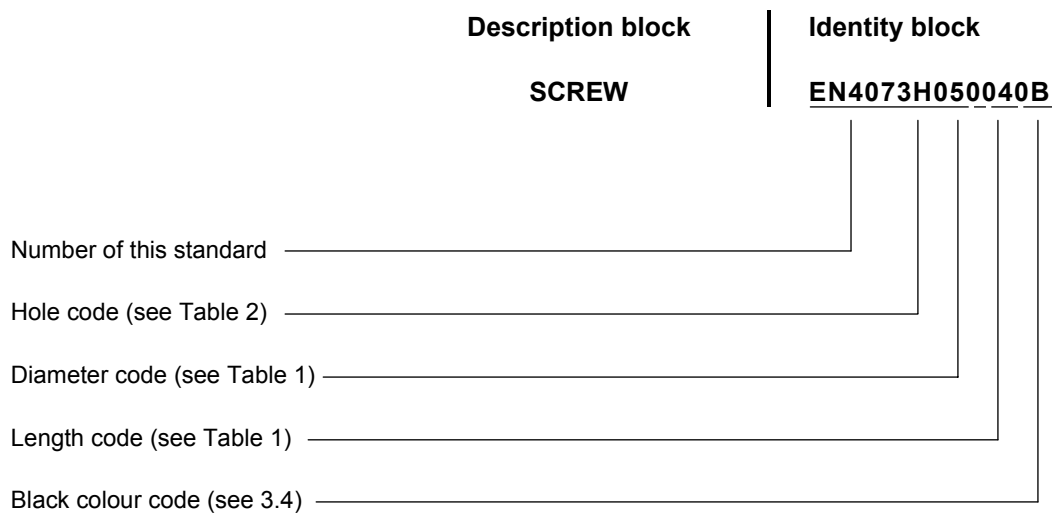
4) Approximate values (kg/1 000 pieces), calculated on the basis of 7,85 kg/dm³, given for information purposes only. They apply to screws without holes.

5) Value for head and first L_4 .

6) Increase for each additional millimetre of L_4 .

4 Designation

EXAMPLE:



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NOTE If necessary, the code I9005 shall be placed between the description block and the identity block.

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Table 2

Holes	Code
Lockwire	H
Split pin	D
Lockwire and split pin	C
No hole	— (hyphen)

5 Marking

See Table 3 and Figure 1.

Table 3

Diameter code	EN 2424 Style
030 and 040	N
050 to 120	B