

SLOVENSKI STANDARD

SIST EN 2888:2001

01-januar-2001

Aerospace series - Bolts, normal hexagonal head, coarse tolerance normal shank, short thread, in corrosion resisting steel, passivated - Classification: 600 MPa (at ambient temperature) / 425°C

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Luft- und Raumfahrt - Sechskantschrauben, kurzes Gewinde, aus korrosionsbeständigem Stahl, passiviert - Klasse 600 MPa (bei Raumtemperatur) / 425 °C

Série aérospatiale - Vis à tête hexagonale normale, tige normale à tolérance large, filetage court, en acier résistant à la corrosion, passivées - Classification: 600 MPa (à température ambiante) / 425 °C

Ta slovenski standard je istoveten z: EN 2888:1995

ICS:

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

SIST EN 2888:2001

en

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EUROPEAN STANDARD

EN 2888

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 1995

ICS 49.040.20

Descriptors: aircraft industry, aircraft equipment, screw, hexagonal head screw, corrosion resistant steel, screw thread, specification, characteristic, dimension, mass, dimensional tolerance, surface treatment, designation, marking

English version

**Aerospace series - Bolts, normal hexagonal head,
coarse tolerance normal shank, short thread, in
corrosion resisting steel, passivated -
Classification: 600 MPa (at ambient temperature)
/ 425 °C**

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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Ref. No. EN 2888:1995 E

Foreword

This European Standard has been prepared by the European Association of Aerospace Manufacturers (AECMA).

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

This standard was submitted for Formal Vote, and the result was positive.

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of an identical text or by endorsement, at the latest by December 1995, and conflicting national standards shall be withdrawn at the latest by December 1995.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard:

Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

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System of Organization of Work
ANALOGUE

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SYMBOLS AND ABBREVIATIONS

1 Scope

This standard specifies the characteristics of bolts, normal hexagonal head, coarse tolerance normal shank, short thread, in corrosion resisting steel, passivated.

Classification : 600 MPa ¹⁾ / 425 °C ²⁾

2 Normative references

This European Standard incorporates by dated or undated reference provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

- | | |
|------------|---|
| ISO 3193 | Aerospace - Bolts, normal hexagonal head, normal shank, short or medium length MJ threads, metallic material, coated or uncoated, strength classes less than or equal to 1 100 MPa - Dimensions |
| ISO 3353 | Aerospace - Rolled threads for bolts - Lead and runout requirements |
| ISO 5855-2 | Aerospace - MJ threads - Part 2 : Limit dimensions for bolts and nuts |
| ISO 7913 | Aerospace - Bolts and screws, metric - Tolerances of form and position |
| ISO 8168 | Aerospace - Corrosion- and heat-resisting steel bolts with strength classification 1 100 MPa and MJ threads - Procurement specification |
| EN 2000 | Aerospace series - Quality assurance - EN aerospace products - Approval of the quality system of manufacturers |
| EN 2424 | Aerospace series - Marking of aerospace products |
| EN 2516 | Aerospace series - Passivation of corrosion resistant steels and decontamination of nickel base alloys ³⁾ |
| TR 3775 | Aerospace series - Bolts and pins - National materials ⁴⁾ |

1) Minimum tensile strength of the material at ambient temperature

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

3) In preparation at the date of publication of this standard

4) Published as AECMA Technical Report at the date of publication of this standard

3 Required characteristics

3.1 Configuration - Dimensions - Masses

See figure 1 and table 1.

Dimensions and tolerances are : in conformity with ISO 3193, expressed in millimetres and apply after surface treatment.

Details of form not stated are left to the manufacturer's discretion.

3.2 Tolerances of form and position

ISO 7913

3.3 Materials

TR 3775 (corrosion resisting steel, classification 600 MPa)

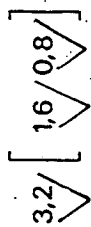
3.4 Surface treatment

EN 2516

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Values in micrometres apply prior to surface treatment.

Break sharp edges 0,1 to 0,4

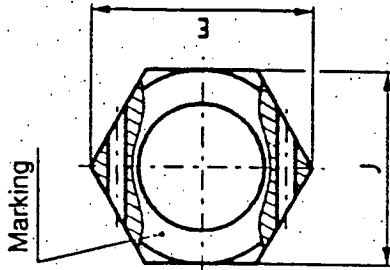
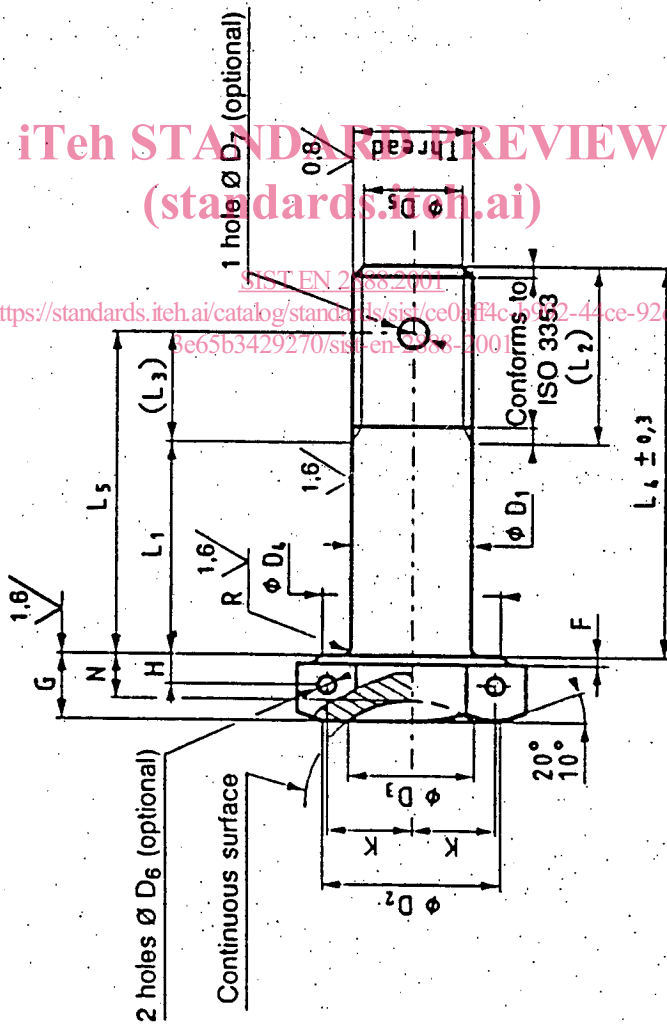


Figure 1

Table 1

Diameter code	Thread 1)	D ₁ h12	D ₂ min.	D ₃ 0 -0,5	D ₄ 2) min.	D ₅ nom.	Tol.	D ₆ H13	D ₇ H13	E min.	F max. min.	G 0 -0,3	H
030	MJ3x0,5 - 4h6h	3	5,5	—	5,4	2,3	0	—	—	6,5	0,4	2	—
040	MJ4x0,7 - 4h6h	4	6,4	—	6,4	3	-0,5	—	1,1	7,6	—	2,5	—
050	MJ5x0,8 - 4h6h	5	7,4	5,25	7,4	3,4	—	—	1,5	8,7	—	3	1,35
060	MJ6x1 - 4h6h	6	9,4	6,25	9,3	4,2	—	—	1,5	10,9	0,2	3,5	1,6
070	MJ7x1 - 4h6h	7	10,3	7,25	10,2	5,2	—	1,4	1,9	12	—	4	1,85
080	MJ8x1 - 4h6h	8	12,3	8,25	12,2	6,2	—	—	—	14,3	—	4,5	2,1
100	MJ10x1,25 - 4h6h	10	16,3	10,25	16	7,9	±0,5	—	2,4	18,9	—	5	2,35
120	MJ12x1,25 - 4h6h	12	18,3	12,25	18	9,8	—	—	—	21,1	—	6	2,85
140	MJ14x1,5 - 4h6h	14	21,3	14,25	21	11,5	—	1,6	3	24,5	0,3	7	3,35
160	MJ16x1,5 - 4h6h	16	23,3	16,25	23	13,5	—	—	—	26,8	—	8	3,85
180	MJ18x1,5 - 4h6h	18	26,3	18,25	26	15,5	—	—	—	30,2	—	9	4,35
200	MJ20x1,5 - 4h6h	20	29,3	20,25	29	17,5	—	—	3,8	33,6	—	10	4,85

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Table 1 (concluded)

Diameter code	J		K	$L_1 \pm 0,2$ 3) 4)		L_2	L_3	N	R		Mass 5)	
	nom.	Tol.		Code	nom.				max.	min.	6)	7)
030	6		—	002 to 030	2 to 30	6	—	—	0,4	0,2	0,87	0,06
040	7	h12	—	002 to 040	2 to 40	7,5	5	—	0,5	0,3	1,66	0,10
050	8		3,25	003 to 050	3 to 50	9	6	2	0,7	0,5	2,91	0,15
060	10		4,1	003 to 060	3 to 60	10	7	2,3	0,8	0,5	5,44	0,22
070	11		4,5	004 to 070	4 to 70	11	7	2,7	0,9	0,5	7,45	0,30
080	13		5,35	004 to 080	4 to 80	11,5	7,5	3	1,0	0,5	11,22	0,39
100	17		7,1	005 to 100	5 to 100	14,5	9	3,4	1,1	0,6	21,78	0,62
120	19	h13	7,9	006 to 120	6 to 120	16	10	4	1,2	0,6	34,82	0,89
140	22		9,2	007 to 140	7 to 140	19	12	4,7	1,3	0,8	53,61	1,21
160	24		10,05	008 to 160	8 to 160	20,5	13	5,4	1,4	0,8	78,40	1,58
180	27		11,3	009 to 180	9 to 180	22,5	14,5	6	1,5	0,8	110,48	2,00
200	30		12,6	010 to 200	10 to 200	24,5	15	6,7	1,6	1	151,14	2,47

1) In accordance with ISO 5855-2

2) D_4 max. shall be less than J.

3) Increments :

1 for $L_1 \leq 30$ 2 for $30 < L_1 \leq 100$ 4 for $L_1 > 100$ 4) 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.5) Approximate values (kg/1 000 pieces), calculated on the basis of $7,85 \text{ kg/dm}^3$, given for information purposes only. They apply to bolts without holes.6) Value for head and first L_4 7) Increase for each additional millimetre of L_4 .