

SLOVENSKI STANDARD
SIST EN 3035:2001**01-januar-2001**

Aerospace series - Screws, 100- countersunk normal head, offset cruciform recess, close tolerance normal shank, short thread, in alloy steel, cadmium plated - Classification: 1 100 MPa (at ambient temperature)/235°C

Aerospace series - Screws, 100° countersunk normal head, offset cruciform recess, close tolerance normal shank, short thread, in alloy steel, cadmium plated - Classification: 1 100 MPa (at ambient temperature)/235 °C

Luft- und Raumfahrt - 100° Senk-Paßschrauben mit Flügelkreuzschlitz, kurzes Gewinde, aus legiertem Stahl, verkadmet - (Klasse 1 100 MPa (bei Raumtemperatur)/235 °C

Série aérospatiale - Vis a tête fraisée 100° normale a empreinte cruciforme déportée, tige normale a tolérance serrée, filetage court en acier allié, cadmiées - Classification: 1 100 MPa (a température ambiante)/235 °C

Ta slovenski standard je istoveten z: EN 3035:1996

ICS:

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

SIST EN 3035:2001**en**

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 3035:2001

<https://standards.iteh.ai/catalog/standards/sist/de924d3e-a2a4-4443-a89d-1a8c13bdd9de/sist-en-3035-2001>

EUROPEAN STANDARD

EN 3035

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 1996

ICS 49.040.20

Descriptors: aircraft industry, screw, countersunk head screw, cross recessed screw, alloy steel, specification, dimension, dimensional tolerance, surface treatment, designation, marking

English version

Aerospace series - Screws, 100° countersunk normal head, offset cruciform recess, close tolerance normal shank, short thread, in alloy steel, cadmium plated - Classification: 1 100 MPa (at ambient temperature)/235 °C

iTech STANDARD PREVIEW

Série aérospatiale - Vis à tête fraisée 100° normale, à empreinte cruciforme déportée, tige normale à tolérance serrée, filetage court, en acier allié, cadmiées - Classification: 1 100 MPa (à température ambiante)/235 °C

Luft- und Raumfahrt - 100° Senk-Paßschrauben mit Flügelkreuzschlitz, kurzes Gewinde, aus legiertem Stahl, verkadmet - Klasse: 1 100 MPa (bei Raumtemperatur)/235 °C

SIST EN 3035:2001

<https://standards.iteh.ai/catalog/standards/sist/de924d3e-a2a4-4443-a89d-1a8c135dd9de/sist-en-3035-2001>

This European Standard was approved by CEN on 1996-06-29. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

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

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

Page 2
EN 3035:1996

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 received the approval of the National Associations and the Official Services of the member countries of AECMA, 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 March 1997, and conflicting national standards shall be withdrawn at the latest by March 1997.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of 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 and the United Kingdom.

SIST EN 3035:2001

<https://standards.iteh.ai/catalog/standards/sist/de924d3e-a2a4-4443-a89d-1e7e3bc9d0a1/en-3035-2001>

ALPHAVOIR SIAI 1000000
TUDS IN TOLKOK OTKOS AS OVIOTKOS
ONVOSIOM IN OTKOSIOTKOSIA OT 29 OTU
ANALJOSUJ

.....TUDS
SIVTODJOSAN KIVOTM OT TOSVOM

1 Scope

This standard specifies the characteristics of screws, 100° countersunk normal head, offset cruciform recess, close tolerance normal shank, short thread, in alloy steel, cadmium plated.

Classification : 1 100 MPa ¹⁾ / 235 °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 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 5856	Aerospace - Screws, 100° normal countersunk head, internal offset cruciform ribbed drive, 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 7689	Aerospace - Alloy steel bolts with strength classification 1 100 MPa and MJ threads - Procurement specification
ISO 7913	Aerospace - Bolts and screws, metric - Tolerances of form and position
ISO 7994	Aerospace - Internal drive, offset cruciform recess (Torq-Set®) for rotary fastening devices - Metric series
EN 2000	Aerospace series - Quality assurance - EN aerospace products - Approval of the quality system of manufacturers
EN 2133	Aerospace series - Cadmium plating of steels, with maximum specified tensile strength equal to or less than 1 450 MPa, copper, copper alloys and nickel alloys ³⁾
EN 2424	Aerospace series - Marking of aerospace products
EN 3042	Aerospace series - Quality assurance - EN aerospace products - Qualification procedure
EN 4016	Aerospace series - Oversized bolts ⁴⁾
TR 3775	Aerospace series - Bolts and pins - National materials ⁵⁾

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 AECMA Standard at the date of publication of this standard

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

5) 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, expressed in millimetres, are in conformity with ISO 5856 and apply after surface treatment.

3.2 Tolerances of form and position

ISO 7913

3.3 Materials

TR 3775 (alloy steel, strength class 1 100 MPa)

3.4 Surface treatment

EN 2133, 6 μm to 10 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

SIST EN 3035:2001

<https://standards.iteh.ai/catalog/standards/sist/de924d3e-a2a4-4443-a89d-1a8c13bdd9de/sist-en-3035-2001>

Table 1

Diameter code	Thread 1)	D_1		D_2 max.	D_3 min.	D_4	D_5		D_6	E min.	F 0 -0,08	G	H	$L_1 \pm 0,2$ 2) 3)		L_2	L_3	R		Mass 4)	
		nom.	Tol.				nom.	Tol.						Code	nom.			Tol.	nom.	5)	6)
030	MJ3x0,5-4h6h	3	-0,006 -0,031	6	5,4	4,5	2,3	0	—	0,06	0,63	0,3	1,27	003 to 030	3 to 30	6	—	0,4	0,54	0,055	
040	MJ4x0,7-4h6h	4	—	8	7,2	5,78	3	-0,5	1,1	0,08	0,93	0,4	1,69	003 to 040	3 to 40	7,5	5	—	1,13	0,099	
050	MJ5x0,8-4h6h	5	-0,010 -0,035	10	9	7,71	3,4	—	1,5	—	0,96	0,5	2,12	004 to 050	4 to 50	9	6	0,5	2,21	0,153	
060	MJ6x1-4h6h	6	—	12	10,8	9	4,2	—	—	—	1,26	—	2,54	005 to 060	5 to 60	10	7	—	3,72	0,222	
070	MJ7x1-4h6h	7	—	14	12,8	10,28	5,2	—	—	—	1,57	—	2,96	006 to 070	6 to 70	11	—	0,7	5,83	0,302	
080	MJ8x1-4h6h	8	-0,013 -0,038	16	14,8	12,21	6,2	—	1,9	—	1,6	—	3,39	006 to 080	6 to 80	11,5	7,5	—	7,71	0,395	
100	MJ10x1,25-4h6h	10	—	20	18,8	15,43	7,9	±0,5	2,4	0,1	1,93	0,6	4,23	008 to 100	8 to 100	14,5	9	0,8	16,2	0,616	
120	MJ12x1,25-4h6h	12	—	24	22,8	18	9,8	—	—	—	2,53	—	5,08	010 to 120	10 to 120	16	10	0,9	27,5	0,887	
140	MJ14x1,5-4h6h	14	-0,016 -0,041	28	26,8	20,57	11,5	—	3	—	3,14	—	5,93	010 to 140	10 to 140	19	12	1,1	40,8	1,208	
160	MJ16x1,5-4h6h	16	—	32	30,8	24,43	13,5	—	—	—	3,2	—	6,77	010 to 160	10 to 160	20,5	12,5	—	59,0	1,578	
180	MJ18x1,5-4h6h	18	—	36	34,8	25,71	15,5	—	—	—	4,35	—	7,62	011 to 180	11 to 180	22,5	14,5	—	83,1	1,997	
200	MJ20x1,5-4h6h	20	-0,020 -0,045	40	38,8	28,92	17,5	—	3,8	—	4,68	—	8,47	012 to 200	12 to 200	24,5	15	1,3	113	2,466	

1) In accordance with ISO 5855-2, except the thread major diameter "d max." which shall be equal to D_1 min. - 0,025.

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.

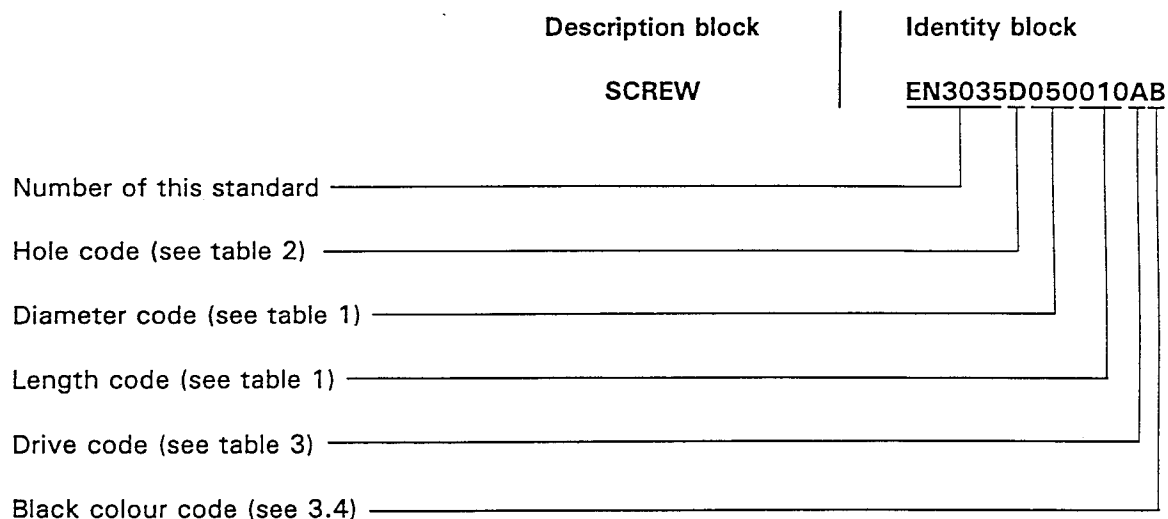
4) Approximate values (kg/1 000 pieces), calculated on the basis of 7,85 kg/dm³, given for information purposes only. They apply to screws without hole.

5) Value for first L_4

6) Increase for each additional millimetre of L_4 .

4 Designation

EXAMPLE :



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

ITeH STANDARD PREVIEW
(standards.iteh.ai)

Table 2

Hole	Code
with	D
without	– (hyphen)

Table 3

Drive	Code
ISO 7994	R
ISO 7994 unribbed	A

5 Marking

See table 4 and figure 1, indented.

Table 4

Diameter code	EN 2424 Style
030 and 040	N
050 to 200	C + MJ