
Aeronavtika - Vijaki, valjasta glava, križna zareza, z navojem do glave, iz korozijsko odpornega jekla, pasivirani - Klasifikacija: 490 MPa (pri temperaturi okolice) / 425 °C

Aerospace series - Screws, pan head, offset cruciform recess, threaded to head, in corrosion resisting steel, passivated - Classification: 490 MPa (at ambient temperature) / 425 °C

Luft- und Raumfahrt - Flachkopfschrauben, mit Flügelkreuzschlitz, Gewinde annähernd bis Kopf, aus korrosionsbeständigem Stahl, verkadmet. - Klasse: 490 MPa (bei Raumtemperatur) / 425 °C

Série aérospatiale - Vis à tête cylindrique, à empreinte cruciforme déportée, filetées jusqu'à proximité de la tête, en acier résistant à la corrosion, passivées - Classification: 490 MPa (à température ambiante) / 425 °C

Ta slovenski standard je istoveten z: EN 4075:2008

ICS:

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

SIST EN 4075:2008

en

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ICS 49.030.20

English Version

**Aerospace series - Screws, pan head, offset cruciform recess,
threaded to head, in corrosion resisting steel, passivated -
Classification: 490 MPa (at ambient temperature) / 425 °C**

Série aérospatiale - Vis à tête cylindrique, à empreinte
cruciforme déportée, filetées jusqu'à proximité de la tête,
en acier résistant à la corrosion, passivées - Classification :
490 MPa (à température ambiante) / 425 °C

Luft- und Raumfahrt - Flachkopfschrauben, mit
Flügelkreuzschlitz, Gewinde annähernd bis Kopf, aus
korrosionsbeständigem Stahl, verkadmet - Klasse: 490
MPa (bei Raumtemperatur) / 425 °C

This European Standard was approved by CEN on 26 August 2006.

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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 4075:2008) 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 September 2008, and conflicting national standards shall be withdrawn at the latest by September 2008.

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.

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1 Scope

This standard specifies the characteristics of screws, pan head, offset cruciform recess, threaded to head, in corrosion resisting steel, passivated, metric.

Classification: 490 MPa ¹⁾ / 425 °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.

ISO 3202, *Aerospace — Screws, pan head, internal offset cruciform ribbed or unribbed drive, threaded to head, MJ threads, metallic material, coated or uncoated, strength classes less than or equal to 1 100 MPa — Dimensions.*

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.*

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

ISO 7994 ³⁾, *Aerospace — Internal drive, offset cruciform recess (Torq-Set[®]) for rotary fastening devices — Metric series.*

ISO 8168, *Aerospace — Corrosion- and heat-resisting steel bolts with strength classification 1 100 MPa and MJ threads — Procurement specification.*

ISO 14275, *Aerospace — Drives, internal, offset cruciform, ribbed — Metric series.*

ISO 14277, *Aerospace — Drivers, ribbed, for internal offset cruciform ribbed or unribbed drives — Metric series.*

ISO 14278, *Aerospace — Gauges, for internal offset cruciform ribbed or unribbed drives — Metric series.*

EN 2424, *Aerospace series — Marking of aerospace products.*

EN 2516, *Aerospace series — Passivation of corrosion resisting steels and decontamination of nickel base alloys.*

EN 9100, *Aerospace series — Quality management systems — Requirements (based on ISO 9001:2000) and Quality systems — Model for quality assurance in design, development, production, installation and servicing (based on ISO 9001:1994).*

TR 3775, *Aerospace series — Bolts and pins — Materials.* ⁴⁾

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) Withdrawal, see ISO 14275, ISO 14277 and EN 14278.

4) Published as ASD 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 3202, expressed in millimetres and apply after surface treatment.

3.2 Tolerances of form and position

ISO 7913

3.3 Materials

TR 3775 (corrosion resisting steel, classification 490 MPa)

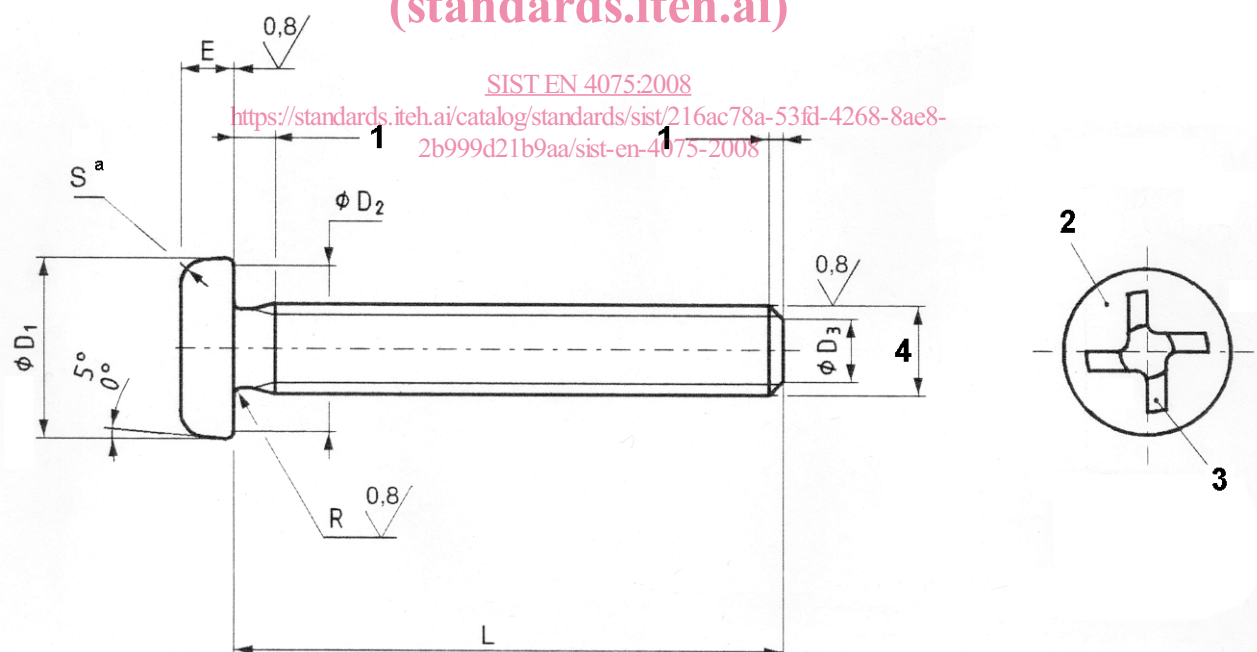
3.4 Surface treatment

EN 2516



Values in micrometres apply prior to surface treatment.

Break sharp edges 0,1 to 0,4



Key

- | | | | |
|--------------|------------------------|---|---------------------|
| 1 | Conforms to ISO 3353-1 | 3 | Drive: see Clause 4 |
| 2 | Marking | 4 | Thread |
| ^a | Shape optional | | |

Figure 1

Table 1

Diameter code	Thread ^a	D ₁ 0 -0,3	D ₂ min.	D ₃		E		L ± 0,3 ^{b, c}		R		S		Mass ^d	
				nom.	Tol.	nom.	Tol.	Length code	nom.	nom.	Tol.	max.	min.	e	f
030	MJ3x0,5-4h6h	6	4,7	2,3	0 -0,5	1,8	0 -0,2	004 to 042	4 to 42	0,4	0	1,2	0,3	0,5	0,11
040	MJ4x0,7-4h6h	8	6,7	3		2,4		006 to 056	6 to 56			1,6	0,4	1,3	0,20
050	MJ5x0,8-4h6h	10	8,7	3,4	±0,5	3	0 -0,3	008 to 070	8 to 70	0,5	-0,2	2	0,5	2,8	0,31
060	MJ6x1-4h6h	12	10,7	4,2		3,6		010 to 084	10 to 84	0,7		2,4	0,6	5,0	0,44
070	MJ7x1-4h6h	14	12,7	5,2		4,2		010 to 098	10 to 98			2,8	0,7	7,5	0,60
080	MJ8x1-4h6h	16	14,7	6,2		4,8		010 to 112	10 to 112	0,8		3,2	0,8	10,7	0,78
100	MJ10x1,25-4h6h	20	18,7	7,9		6		014 to 140	14 to 140			4	1	22,3	1,22
120	MJ12x1,25-4h6h	24	22,7	9,8	7,2	016 to 168	16 to 168	0,9	0 -0,3	4,8	1,2	38,0	1,76		

- ^a In accordance with ISO 5855-2.
- ^b Increments:
2 for L ≤ 100
4 for L > 100
- ^c If greater lengths are required, they shall be chosen using the above increment. The length code corresponds to length L, completed by one or two zeros to the left, where necessary, to obtain a three digit code.
- ^d Approximate values (kg/1 000 pieces), calculated on the basis of 7,85 kg/dm³, given for information purposes only.
- ^e Value for head and first L.
- ^f Increase for each additional 2 mm of L.

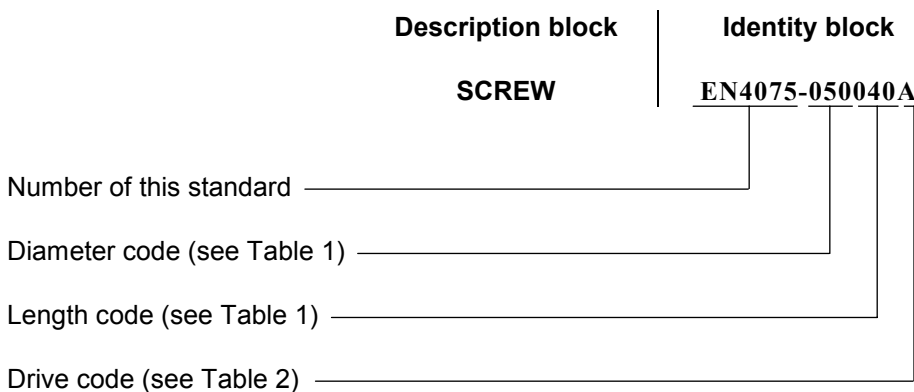
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4 Designation

EXAMPLE



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

Table 2

Drive	Code
ISO 7994	None
ISO 7994 unribbed	A