



# SLOVENSKI STANDARD

## SIST EN 2036:2017

01-oktober-2017

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### Aeronavtika - Okrogli jekleni talni drogovi - Mere - Toleranca h 8

Aerospace series - Round steel bars ground - Dimensions - Tolerance h 8

Luft- und Raumfahrt - Rundstangen aus Stahl geschliffen - Abmessungen - Toleranz h 8

Série aérospatiale - Barres rondes rectifiées en acier - Dimensions - Tolérance h 8

**Ta slovenski standard je istoveten z: EN 2036:2017**

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#### **ICS:**

49.025.10	Jekla	Steels
77.140.60	Jeklene palice in drogovi	Steel bars and rods

**SIST EN 2036:2017**

**en,fr,de**

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EUROPEAN STANDARD

EN 2036

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2017

ICS 49.025.10

English Version

## Aerospace series - Round steel bars ground - Dimensions - Tolerance h 8

Série aéronautique - Barres rondes rectifiées en acier -  
Dimensions - Tolérance h 8

Luft- und Raumfahrt - Rundstangen aus Stahl  
geschliffen - Abmessungen - Toleranz h 8

This European Standard was approved by CEN on 11 May 2017.

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 CEN-CENELEC Management Centre or to any CEN member.

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-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

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## European foreword

This document (EN 2036:2017) 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 February 2018, and conflicting national standards shall be withdrawn at the latest by February 2018.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN 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, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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**EN 2036:2017 (E)****1 Scope**

This European Standard specifies the dimensions, tolerances and physical constants of ground round steel bars used in aerospace construction.

**2 Normative references**

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

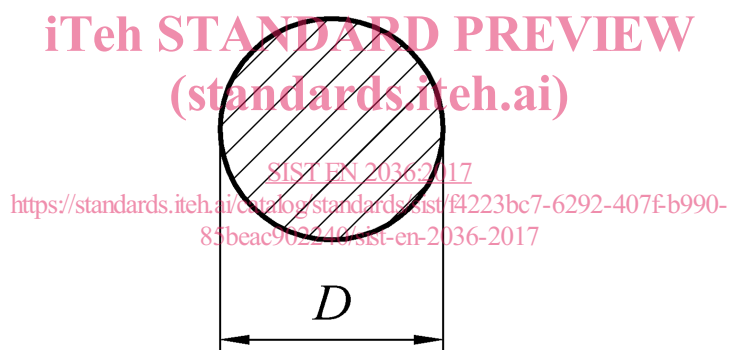
EN 2030, *Aerospace series — Steel X105CrMo17 (1.3544) — Hardened and tempered — Bars —  $D_e \leq 150$  mm*

**3 Materials**

The materials are defined in the material standards and technical specification.

**4 Required characteristics**

The dimensions, tolerances, cross sectional areas and linear mass are defined in Figure 1 and Table 1.



**Figure 1**

Table 1

Dimensions and tolerances in millimetres

Dimensional code	D		Cross sectional area mm <sup>2</sup> ≈	Linear mass <sup>a</sup> kg/m ≈	Dimensional code	D		Cross sectional area mm <sup>2</sup> ≈	Linear mass <sup>a</sup> kg/m ≈
	Nom.	Tolerance h 8				Nom.	Tolerance h 8		
AA	1	0 - 0,012	0,785 4	0,006 17	AT	8	0 - 0,022	50,27	0,395
AB	1,2		1,131	0,008 88	AU	9		63,62	0,499
AC	1,4		1,539	0,012 1	AV	10		78,54	0,617
AD	1,6		2,011	0,015 8	AW	11	0 - 0,027	95,03	0,748
AE	1,8	2,545	0,020 0	AY	12	113,1		0,888	
AF	2	3,142	0,024 7	AZ	14	153,9		1,21	
AG	2,2	3,801	0,029 8	BA	16	201,1		1,58	
AH	2,5	0 - 0,014	4,909	0,038 5	BB	18	0 - 0,033	254,5	2,00
AJ	2,8		6,158	0,048 3	BC	20		314,2	2,47
AK	3		7,089	0,055 5	BD	22		380,1	2,98
AL	3,5		9,621	0,075 5	BE	25	490,9	3,85	
AM	4	0 - 0,018	12,57	0,098 6	BF	28	0 - 0,039	615,8	4,83
AN	4,5		15,90	0,125	BG	32		804,2	6,31
AP	5		19,63	0,154	BH	36		1 018	7,99
AQ	6		28,27	0,222	BJ	40	1 257	9,86	
AR	6,3	0 - 0,022	31,17	0,245	BK	45	1 590	12,5	
AS	7		38,48	0,302	BL	50			1 963

<sup>a</sup> Calculated on the basis of 7,85 kg/dm<sup>3</sup>.

## 5 Designation

The designation of products defined in this standard may include the following elements:

- name;
- number of material standard;
- dimensions;
- number of this dimensional standard.

EXAMPLE

**BAR EN2030 - 3,5 EN2036**

NOTE When the designation is to be codified, dimensions shall be replaced by the code letters in Table 1 of this standard.

EN 2036:2017 (E)

## 6 Marking

Marking of the semi-finished products defined in this standard shall comply with the requirements of the technical specification.

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