



**SLOVENSKI STANDARD**  
**SIST EN 2344:2002**  
**01-januar-2002**

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**Aerospace series - Round bars, machined in heat resisting alloys - Diameter 10 mm <= D <= 180 mm - Dimensions**

Aerospace series - Round bars, machined in heat resisting alloys - Diameter 10 mm <= D <= 180 mm - Dimensions

Luft- und Raumfahrt - Rundstangen, bearbeitet aus hochwarmfesten Legierungen - Durchmesser 10 mm # D # 180 mm - Maße

Série aérospatiale - Barres rondes, usinées en alliages résistant a chaud - Diametres 10 mm <= D <= 180 mm - Dimensions

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**Ta slovenski standard je istoveten z: EN 2344:2001**

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**ICS:**

49.025.99      Drugi materiali      Other materials

**SIST EN 2344:2002**      **en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 2344**

September 2001

ICS 49.025.99

English version

## Aerospace series - Round bars, machined in heat resisting alloys - Diameter $10 \text{ mm} \leq D \leq 180 \text{ mm}$ - Dimensions

Série aéronautique - Barres rondes, usinées en alliages résistants à chaud - Diamètres  $10 \text{ mm} \leq D \leq 180 \text{ mm}$  - Dimensions

Luft- und Raumfahrt - Rundstangen, bearbeitet aus hochwarmfesten Legierungen - Durchmesser  $10 \text{ mm} \leq D \leq 180 \text{ mm}$  - Maße

This European Standard was approved by CEN on 2 May 2001.

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 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 Management Centre has the same status as the official versions.

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

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

## 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 2002, and conflicting national standards shall be withdrawn at the latest by March 2002.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

## 0 Introduction

This standard is part of the series of EN metallic material standards for aerospace applications. The general organization of this series is described in EN 4258.

## 1 Scope

This standard specifies the dimensions and tolerances of:

Round bars, machined  
in heat resisting alloys  
Diameter  $10 \text{ mm} \leq D \leq 180 \text{ mm}$

for aerospace applications.

## 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.

EN 3848	Aerospace series - Semi-finished metallic products - Method of measuring form deviations
EN 4258	Aerospace series - Metallic materials - General organization of standardization - Links between types of EN standards and their use

## 3 Form

See figure 1.

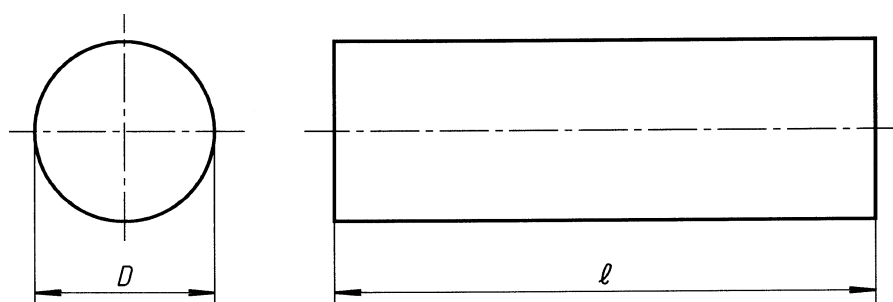


Figure 1

## 4 Recommended dimensions and mass

### 4.1 Diameter and mass

See table 1.

Table 1

Nominal <i>D</i> mm	Linear mass <sup>a</sup> kg/m
10	0,64
12	0,92
14	1,25
16	1,63
18	2,06
20	2,54
22	3,08
25	3,98
28	4,99
32	6,51
36	8,24
40	10,2
45	12,9
50	15,9
56	20,0
63	25,2
70	31,2
80	40,7
90	51,5
100	63,6
110	77,0
125	99,4
140	125
150	143
180	206

<sup>a</sup> For information, calculated with a density of 8,1 kg/dm<sup>3</sup>

### 4.2 Length

The order shall specify if bars are to be supplied in fixed or in random lengths. In the event of a supply of random lengths the minimum and maximum values for the lengths shall be specified on the order.

## 5 Tolerances

### 5.1 Dimensional tolerances

#### 5.1.1 Diameter

See table 2.

**Table 2**

Dimensions in millimetres

Diameter	Tolerances
$10 \leq D \leq 18$	$+0,7$ $0$
$18 < D \leq 30$	$+0,84$ $0$
$30 < D \leq 50$	$+1,0$ $0$
$50 < D \leq 80$	$+1,2$ $0$
$80 < D \leq 120$	$+1,4$ $0$
$120 < D \leq 180$	$+1,6$ $0$

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#### 5.1.2 Length

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See table 3, only applicable to bars supplied in fixed lengths.

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**Table 3**

Dimensions in millimetres

Length	Tolerances
$l \leq 500$	$+5$ $0$
$l > 500$	$+0,01 \times l$ $0$

## 5.2 Geometric tolerances

### 5.2.1 Straightness

#### 5.2.1.1 Method of measurement and symbols

See EN 3848.

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**5.2.1.2 Tolerances**

See table 4.

**Table 4**

Dimensions in millimetres

Diameter	Straightness deviation $Y_1$ per metre
$10 \leq D \leq 180$	$\leq 4$

**5.2.2 Roundness****5.2.2.1 Method of measurement**

See EN 3848.

**5.2.2.2 Tolerances**

Roundness deviation shall be contained within the diameter tolerances.

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