



SLOVENSKI STANDARD SIST EN 3612:2001

01-januar-2001

Aerospace series - Undercuts for splines - Design standard

Aerospace series - Undercuts for splines - Design standard

Luft- und Raumfahrt - Freistiche für Verzahnungen - Konstruktionsnorm

Série aérospatiale - Gorges de dégagement pour cannelures - Norme de conception

Ta slovenski standard je istoveten z: **EN 3612:1996**

[SIST EN 3612:2001](https://standards.iteh.ai/catalog/standards/sist/ae352d50-f365-46df-83bb-c74607f7b6e7/sist-en-3612-2001)

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ICS:

49.030.99 Drugi vezni elementi Other fasteners

SIST EN 3612:2001 **en**

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EUROPEAN STANDARD

EN 3612

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 1996

ICS 49.040.20

Descriptors: aircraft industry, relief groove, spline, design, characteristic, dimension, dimensional tolerance, designation

English version

**Aerospace series - Undercuts for splines - Design
standard**Série aérospatiale - Gorges de dégagement pour
cannelures - Norme de conceptionLuft- und Raumfahrt - Freistiche für
Verzahnungen - Konstruktionsnorm**STANDARD PREVIEW**
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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.

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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.

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

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

Page 2
EN 3612:1996

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of an identical text or by endorsement, at the latest by February 1997, and conflicting national standards shall be withdrawn at the latest by February 1997.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.

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1 Scope

This standard defines the undercuts for chip clearance and tool runout for the manufacture of splines with slotting tools.

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 4156 Straight cylindrical involute splines - Metric module, side fit - Generalities, dimensions and inspection - Amendment 1 : Section three : Inspection

3 Symbols and definitions

For the purpose of this standard, the following definitions apply :

D_{ei} , D_{ie} , m : see ISO 4156 ;

D_e : nominal diameter, undercut for external spline ;

D_g : nominal diameter, undercut for internal spline.

4 Required characteristics

See figures 1 and 2 and tables 1 and 2

Dimensions and tolerances in millimetres.

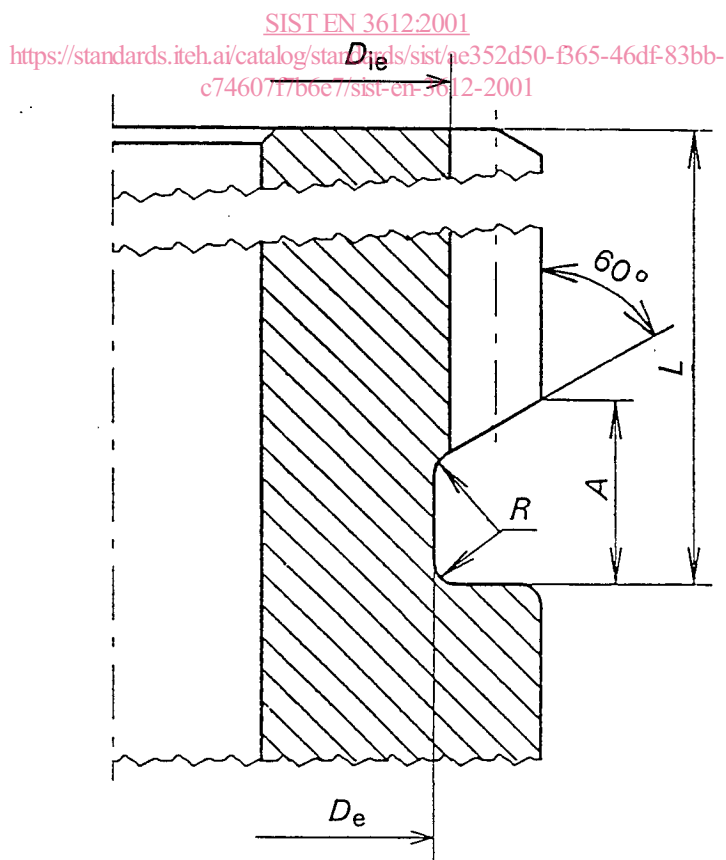


Figure 1 - Undercuts for external splines (code E)

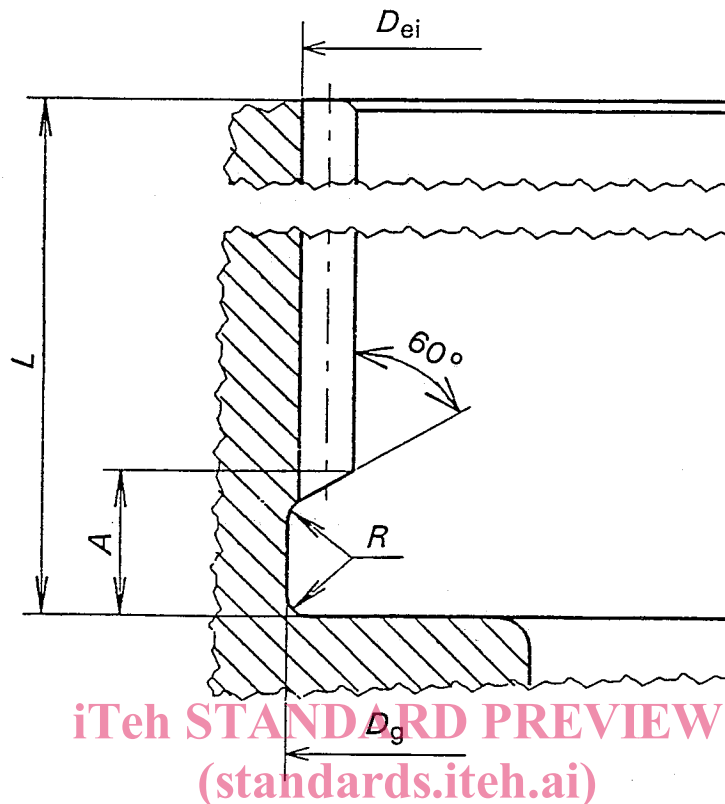


Figure 2 - Undercuts for internal splines (code G)

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Table 1 - Undercut diameters

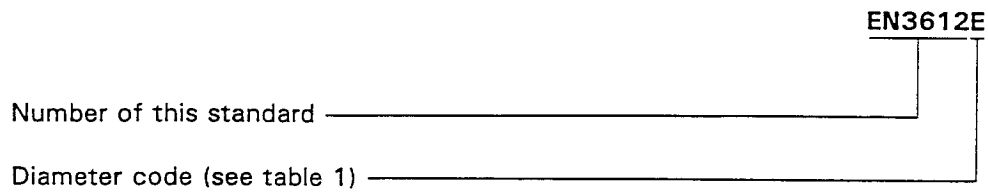
Diameters			<i>R</i>
Code	D_{ie} or D_{ei}	D_e or D_g $\pm 0,1$	$\pm 0,1$
E	≤ 80	$D_e = D_{ie} \text{ min.} - 0,5$	0,6
	> 80		1
G	≤ 80	$D_g = D_{ei} \text{ min.} + 0,5$	0,6
	> 80		1

Table 2

<i>L</i>	<i>A</i> $\pm 0,25$
≤ 54	$4 + 0,8 m$
> 54	$L/12 + 0,8 m$
<i>m</i> = module, see ISO 4156.	

5 Designation

EXAMPLE :



6 Drawing presentation

EXAMPLE : see figure 3.

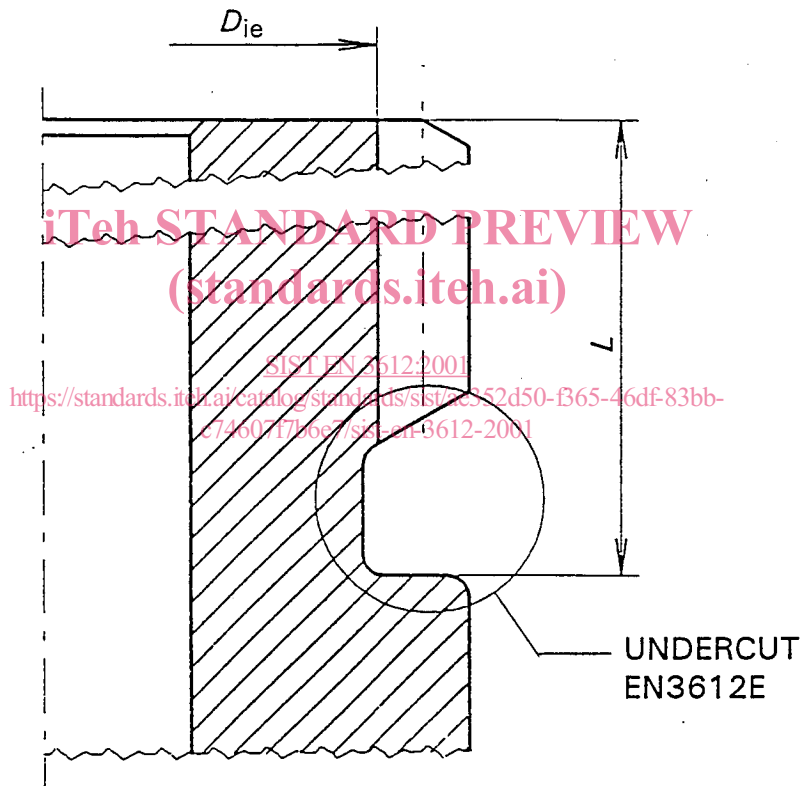


Figure 3

Alternatively the undercut may be fully dimensioned on the drawing.