

Aerospace series - Rod-ends, adjustable, single fork with UNJ threaded shank min. engagement: 1,5 x thread diameter in corrosion resisting steel - Dimensions and loads - Inch series

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 6029:2017 sisaldab Euroopa standardi EN 6029:2017 ingliskeelset teksti.	This Estonian standard EVS-EN 6029:2017 consists of the English text of the European standard EN 6029:2017.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 11.01.2017.	Date of Availability of the European standard is 11.01.2017.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

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ICS 49.035

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English Version

**Aerospace series - Rod-ends, adjustable, single fork with
UNJ threaded shank min. engagement: 1,5 x thread
diameter in corrosion resisting steel - Dimensions and
loads - Inch series**

Série aérospatiale - Embouts réglables à chape simple à
tige fileté UNJ, implantation min. : 1,5 x diamètre de
filetage en acier résistant à la corrosion - Dimensions et
charges - Série en inches

Luft- und Raumfahrt - Einstellbare Gabelköpfe, einfach,
UNJ-Gewindenschaft, min. Einschraubtiefe 1,5 x
Gewindedurchmesser, aus korrosionsbeständigem
Stahl - Maße und Belastungen - Inch-Reihe

This European Standard was approved by CEN on 20 August 2016.

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.

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

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European foreword

This document (EN 6029:2017) 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 July 2017, and conflicting national standards shall be withdrawn at the latest by July 2017.

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1 Scope

This European Standard specifies the characteristics of adjustable rod ends in corrosion resisting steel, inch series, consisting of:

- a single fork ;
- a UNJ threaded shank with ;
 - min. engagement 1,5 times thread diameter and
 - longitudinal groove for locking purposes.

These rod ends are intended for use with control rods or rods for aerospace structures.

They shall be used in the temperature range – 54 °C and 150 °C.

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 2424, *Aerospace series — Marking of aerospace products*

EN 2601, *Aerospace series — Fork ends, adjustable — Technical specification*

EN 3161, *Aerospace series — Steel FE-PM3801 (X5CrNiCu17-4) — Air melted, solution treated and precipitation treated, bar a or $D \leq 200$ mm, $R_m \geq 930$ MPa*

ISO 3161:1999, *Aerospace — UNJ threads — General requirements and limit dimensions*

ISO 3353-1:2002, *Aerospace — Lead and runout threads — Part 1: Rolled external threads*

ISO 8074, *Aerospace — Surface treatment of austenitic stainless steel parts*

NAS 559, *Rod End Lock* ¹⁾

3 Required characteristics

3.1 Configuration – Dimensions – Tolerances – Masses

See Figure 1 and Table 1.

Dimensions and tolerances are expressed in millimetres (inches) and apply after passivation.

3.2 Surface roughness

See Figure 1. Values in micrometres (microinches) apply before passivation.

3.3 Materials

Steel EN 3161: 34 HRC to 42 HRC.

3.4 Surface treatment

Passivated according to ISO 8074.

Break sharp edges and corners and remove all burrs and slivers.

1) Published by: Aerospace Industries Association of America, Inc., 1250 Eye street, NW Washington, DC 20005, USA.