

STN	Letectvo a kozmonautika. Kíbové hlavice s dvojradowým naklápacím guľkovým ložiskom a stopkou so závitom z ocele s vnútorným krúžkom a guľkami z nehrdzavejúcej ocele. Rozmery a zaťaženia. Palcový rad.	STN EN 4156 31 4781
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Aerospace series - Rod ends, with self-aligning double row ball bearings and threaded shank in steel - Inner ring and balls in corrosion resisting steel - Dimensions and loads - Inch series

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Obsahuje: EN 4156:2013

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ICS 49.035

English Version

Aerospace series - Rod ends, with self-aligning double row ball bearings and threaded shank in steel - Inner ring and balls in corrosion resisting steel - Dimensions and loads - Inch series

Série aérospatiale - Embouts à rotule sur deux rangées de billes et à tige fileté en acier - Bague intérieure et billes en acier résistant à la corrosion - Dimensions et charges - Série en inches

Luft- und Raumfahrt - Ösenköpfe mit zweireihigem Pendelkugellager und Gewindeschaft aus Stahl - Innenring und Wälzkörper aus korrosionsbeständigem Stahl - Maße und Belastungen - Zoll Reihe

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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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Foreword

This document (EN 4156:2013) 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of an identical text or by endorsement, at the latest by June 2014, and conflicting national standards shall be withdrawn at the latest by June 2014.

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1 Scope

This European Standard specifies the characteristics of adjustable rod ends with self-aligning double row ball bearing and threaded shank in steel, inner ring and balls in corrosion resisting steel.

They consist of:

- a rod end comprising:
 - either seals or shields;
 - an optional longitudinal groove for locking purpose;
- an inner ring with balls.

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

They are intended to be used in the temperature range: – 54 °C to 150 °C.

However, being lubricated with the following greases:

- very high pressure grease, ester type (code A), operational range – 73 °C to 121 °C according MIL-PRF-23827 type II
- very high pressure grease, synthetic hydrocarbons, general purpose (code B), operational range – 54 °C to 177 °C (see EN 2067), according MIL-PRF-81322.
- very high pressure grease, lithium type (code C) operational range – 73 °C to 121 °C according MIL-PRF-23827 type I.

Their field of application when lubricated with codes A and C grease is limited to 121 °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 2030, *Aerospace series — Steel FE-PM3501 (X105CrMo17) — Hardened and tempered — Bars $D \leq 150$ mm*

EN 2067, *Aerospace series — Rod ends with self-aligning ball bearings — Technical specification*

EN 2099, *Aerospace series — Steel FE-PL71 — Carburized, hardened and tempered — Bars $D_e \leq 100$ mm*¹⁾

EN 2133, *Aerospace series — Cadmium plating of steels with specified tensile strength $\leq 1\,450$ MPa, copper, copper alloys and nickel alloys*

1) In preparation at the date of publication of this standard.

EN 2135, *Aerospace series — Steel FE-PL61 — Carburized, hardened and tempered — Bar $D_e \leq 40$ mm* ²⁾

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

EN 9133, *Aerospace series — Quality management systems — Qualification procedure for aerospace standard parts*

ISO 1132-1, *Rolling bearings — Tolerances — Part 1: Terms and definitions*

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

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

ISO 8075, *Aerospace — Surface treatment of hardenable stainless steel parts*

MIL-PRF-23827, *Grease, aircraft and instrument, gear and actuator screw, NATO code number G-354* ³⁾

MIL-PRF-81322, *Grease, aircraft, general purpose, wide temperature range NATO code G-395* ³⁾

koniec náhľadu – text ďalej pokračuje v platenej verzii STN

2) Published as ASD-STAN Prestandard at the date of publication of this standard (www.asd-stan.org).

3) Published by: Department of Defense (DoD), <http://www.defenselink.mil/>.