

Lennunduse ja kosmonautika seeria. Jäigad või iseseaduvad lennundustarindi veerelaagrid. Tehnilised andmed

Aerospace series - Bearings, airframe rolling, rigid or self-aligning - Technical specification

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 3280:2011 sisaldab Euroopa standardi EN 3280:2011 ingliskeelset teksti.</p> <p>Standard on kinnitatud Eesti Standardikeskuse 31.05.2011 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 04.05.2011.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 3280:2011 consists of the English text of the European standard EN 3280:2011.</p> <p>This standard is ratified with the order of Estonian Centre for Standardisation dated 31.05.2011 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.</p> <p>Date of Availability of the European standard text 04.05.2011.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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English Version

Aerospace series - Bearings, airframe rolling, rigid or self-aligning - Technical specification

Série aérospatiale - Roulements pour structure d'aéronefs, rigides ou à rotule - Spécification technique

Luft- und Raumfahrt - Flugwerkklager Wälzlager, Rillenkugellager oder Pendellager - Technische Lieferbedingungen

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Foreword

This document (EN 3280:2011) 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of an identical text or by endorsement, at the latest by November 2011, and conflicting national standards shall be withdrawn at the latest by November 2011.

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1 Scope

This European Standard specifies the required characteristics, inspection and test methods, qualification and acceptance conditions for rigid or self-aligning airframe rolling bearings.

2 Normative references

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

EN 2063, *Aerospace series — Airframe rolling bearings — Technical specifications*

EN 3045, *Aerospace series — Bearings, airframe rolling — Rigid single row ball bearings in steel — Diameter series 0 and 2 — Reduced clearance category — Dimensions and loads*

EN 3046, *Aerospace series — Bearings, airframe rolling — Rigid single row ball bearings in steel, cadmium plated — Diameter series 0 and 2 — Reduced clearance category — Dimensions and loads*

EN 3047, *Aerospace series — Bearings, airframe rolling — Rigid single row ball bearings in corrosion resisting steel — Diameter series 0 and 2 — Reduced clearance category — Dimensions and loads*

EN 3053, *Aerospace series — Bearings, airframe rolling — Single row self-aligning roller bearings in steel — Dimensions and loads*

EN 3054, *Aerospace series — Bearings, airframe rolling — Single row self-aligning roller bearings in steel, cadmium plated — Dimensions and loads*

EN 3055, *Aerospace series — Bearings, airframe rolling — Single row self-aligning roller bearings in corrosion resisting steel — Dimensions and loads*

EN 3056, *Aerospace series — Bearings, airframe rolling — Rigid double row ball bearings in steel — Dimensions and loads*

EN 3057, *Aerospace series — Bearings, airframe rolling — Rigid double row ball bearings in steel, cadmium plated — Dimensions and loads*

EN 3058, *Aerospace series — Bearings, airframe rolling — Rigid double row ball bearings in corrosion resisting steel — Dimensions and loads*

EN 3281, *Aerospace series — Bearings, airframe rolling — Rigid single row ball bearings in steel — Diameter series 8 and 9 — Dimensions and loads*

EN 3282, *Aerospace series — Bearings, airframe rolling — Rigid single row ball bearings in steel, cadmium plated — Diameter series 8 and 9 — Dimensions and loads*

EN 3283, *Aerospace series — Bearings, airframe rolling — Rigid single row ball bearings in corrosion resisting steel — Diameter series 8 and 9 — Dimensions and loads*

EN 3284, *Aerospace series — Bearings, airframe rolling — Rigid single row ball bearings in steel — Diameter series 0 and 2 — Normal clearance category — Dimensions and loads*

EN 3285, *Aerospace series — Bearings, airframe rolling — Rigid single row ball bearings in steel, cadmium plated — Diameter series 0 and 2 — Normal clearance category — Dimensions and loads*

EN 3286, *Aerospace series — Bearings, airframe rolling — Rigid single row ball bearings in corrosion resisting steel — Diameter series 0 and 2 — Normal clearance category — Dimensions and loads*

EN 3287, *Aerospace series — Bearings, airframe rolling — Double row self-aligning ball bearings in steel — Diameter series 2 — Dimensions and loads*

EN 3288, *Aerospace series — Bearings, airframe rolling — Double row self-aligning ball bearings in steel cadmium plated — Diameter series 2 — Dimensions and loads*

EN 3289, *Aerospace series — Bearings, airframe rolling — Double row self-aligning ball bearings in corrosion resisting steel — Diameter series 2 — Dimensions and loads*

EN 3290, *Aerospace series — Bearings, airframe rolling — Single row self-aligning roller bearings in steel — Diameter series 3 and 4 — Dimensions and loads*

EN 3291, *Aerospace series — Bearings, airframe rolling — Single row self-aligning roller bearings in steel, cadmium plated — Diameter series 3 and 4 — Dimensions and loads*

EN 3292, *Aerospace series — Bearings, airframe rolling — Single row self-aligning roller bearings in corrosion resisting steel — Diameter series 3 and 4 — Dimensions and loads*

EN 4033, *Aerospace series — Bearings, airframe rolling — Rigid single row ball bearings in corrosion resisting steel — Diameter series 8 and 9, reduced internal radial clearance — Dimensions and loads*

EN 4034, *Aerospace series — Bearings, airframe rolling — Double row self-aligning ball bearings with flanged outer ring in corrosion resisting steel, reduced internal radial clearance — Dimensions and loads*

EN 9100, *Quality Management Systems — Requirements for Aviation, Space and Defence Organizations*

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

ISO 1132-1:2000, *Rolling bearings — Tolerances — Part 1: Terms and definitions*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 rolling bearings, rigid or self-aligning

3.1.1 general

these bearings have a full complement of balls or rollers

3.1.2 shielded rolling bearing

bearing whose rolling elements and raceways are protected with shields attached to one of the rings and separated from the other by a small space

3.1.3 sealed rolling bearing

bearing whose rolling elements and raceways are completely enclosed by seals attached to one of the rings and rubbing on the other