INTERNATIONAL STANDARD

ISO 13417

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Aerospace — Airframe needle track roller, stud type, single-row, sealed — Metric series

Aéronautique et espace — Galets de came à aiguilles sur axe, à une rangée avec joints, pour cellule d'aéronef — Série métrique



Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 13417 was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 15, *Airframe bearings*.

Annex A of this International Standard is for information only.

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International Organization for Standardization Case postale 56 • CH-1211 Genève 20 • Switzerland

Internet central@iso.ch

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Aerospace — Airframe needle track roller, stud type, single-row, sealed — Metric series

1 Scope

This International Standard specifies the characteristics, boundary dimensions, tolerances, internal clearances and permissible static loads of metric series, single-row, stud type needle track rollers used in airframe applications.

The airframe needle roller bearings covered by this International Standard are designed to operate in the temperature range –54 °C to +121 °C.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 286-2:1988, ISO system of limits and fits — Part 2: Tables of standard tolerance grades and limit deviations for holes and shafts.

ISO 683-17:—¹⁾, Heat-treated steels, alloy steels and free-cutting steels — Part 17: Ball and roller bearing steels.

ISO 1132:1980, Rolling bearings — Tolerances — Definitions.

ISO 2082:1986, Metallic coatings — Electroplated coatings of cadmium on iron or steel.

ISO 3353:1976, Aerospace — Rolled threads for bolts — Lead and runout requirements.

ISO 4520:1981, Chromate conversion coatings on electroplated zinc and cadmium coatings.

ISO 5593:1997, Rolling bearings — Vocabulary.

ISO 5855-1:1988, Aerospace — MJ threads — Part 1: General requirements.

ISO 5855-2:1988, Aerospace — MJ threads — Part 2: Limit dimensions for bolts and nuts.

ISO 6158:1984, Metallic coatings — Electroplated coatings of chromium for engineering purposes.

ISO 13411:1997, Aerospace — Airframe needle roller, cylindrical roller and track roller bearings — Technical specification.

AMS 2417E:1993, Plating, zinc-nickel alloy².

²⁾ Available from: SAE International

¹⁾ To be published. (Revision of ISO 683-17:1976)

⁴⁰⁰ Commonwealth Drive Warrendale, PA 15096-0001 USA