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Rolling bearings — Radial needle roller and cage assemblies — Boundary dimensions, geometrical product specifications (GPS) and tolerance values

Roulements — Cages à aiguilles radiales — Dimensions d'encombrement, spécification géométrique des produits (GPS) et valeurs de tolérance

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 4, *Rolling bearings*, Subcommittee SC 5, *Needle, cylindrical and spherical roller bearings*.

This fourth edition cancels and replaces the third edition (ISO 3030:2011), which has been technically revised.

The main changes compared to the previous edition are as follows:

— geometrical product specifications (GPS) have been implemented;

— an informative annex on functional gauging of radial needle roller and cage assembly has been added.

Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document is a machine element geometry standard as defined in the geometrical product specification system (GPS system) presented in the matrix model of ISO 14638[9].

The fundamental rules of ISO/GPS given in ISO 8015[5] apply to this document and the default decision rules given in ISO 14253-1[7] apply to specifications made in accordance with this document, unless otherwise indicated.

The connection between functional requirements, measuring technique and measuring uncertainty is always intended to be considered. For measurement uncertainty, ISO 14253-2[8] should be considered.