INTERNATIONAL STANDARD

ISO 3408-3

Second edition 2006-06-15

Ball screws —

Part 3:

Acceptance conditions and acceptance tests

Vis à billes —

Partie 3: Conditions et essais de réception



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in Maison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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The main task of technical committees is to prepare International Standards. 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 3408-3 was prepared by Technical Committee ISO/TC 39, *Machine tools*.

This second edition cancels and replaces the edition (ISO 3408-3:1992), which has been technically revised.

ISO 3408 consists of the following parts, under the general title Ball screws:

- Part 1: Vocabulary and designation
- Part 2: Nominal diameters and nominal leads Metric series
- Part 3: Acceptance conditions and acceptance tests
- Part 4: Static axial rigidity
- Part 5: Static and dynamic axial load ratings and operational lifetime

Ball screws —

Part 3:

Acceptance conditions and acceptance tests

1 Scope

This part of ISO 3408 specifies the technical acceptance conditions for ball screws (see Figure 1) and, in particular, the respective permissible deviations for the acceptance tests.

NOTE The actual design need innecessarily correspond to that shown in Figure 1.

The respective tests required will be agreed upon between the manufacturer and user.

2 Normative references

The following referenced documents are indepensable 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.

ISO 230-1:1996, Test code for machine tools — Party Geometric accuracy of machines operating under no-load or finishing conditions

ISO 286-2:1988, ISO system of limits and fits — Pales and Standard tolerance grades and limit deviations for holes and shafts

ISO 3408-1:2006, Ball screws — Part 1: Vocabulary and designation

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 3408-1 apply.

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