International Standard



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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION®MEXAJHAPODHAR OPFAHИЗАЦИЯ ПО CTAHDAPTИЗАЦИИ®ORGANISATION INTERNATIONALE DE NORMALISATION

Acceptance conditions for broaching machines of vertical internal type — Testing of accuracy

Conditions de réception des machines verticales à brocher les intérieurs - Contrôle de la précision

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Descriptors : machine tools, tests, testing conditions, dimensional measurement, accuracy.

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO memory bodies). The work of developing International Standards is carried out through 180 technical committees. Every member body interested in a subject for which a technical committee has been set up has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also are part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 6779 was developed by Technical Committee ISO/TC 39, Machine tools, and was circulated to the member bodies in October 1979.

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France United Kingdom

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1 Scope and field of application

This International Standard specifies, with reference ISO/R 230, both preliminary levelling operations and geometrical tests on general purpose and normal accuracy machines, and gives the corresponding permissible deviations which apply. This International Standard also gives the terminology used for the main elements of the machine.¹⁾

It deals only with the verification of accuracy of the machine. It does not apply to the testing of the running of the machine (vibrations, abnormal noises, stick-slip motion of components, etc.), or to its characteristics (speeds, feeds, etc.) which should generally be checked before testing accuracy.

2 Reference

ISO/R 230, Machine tool test code.

3 Preliminary remarks

3.1 In this International Standard, all the dimensions and permissible deviations are expressed in millimetres and in inches.

3.2 To apply this International Standard, reference should be made to ISO/R 230, especially for installation of the machine

before acceptance, warming up of moving parts, description of measuring methods, and recommended accuracy of testing equipment.

3.3 The sequence in which the geometrical tests are given is related to the sub-assemblies of the machine and this in no way defines the practical order of testing. In order to make the machine of instruments or gauging easier, tests may be applied in any order.

3.4 When inspecting a machine, it is not always necessary to carry out at the tests given in this International Standard. It is up to the user to choose, in agreement with the manufacturer, those tests reasing to the properties which are of interest to him, but these tests are to be clearly stated when ordering a machine.

3.5 Because of the diversity of shape of the pieces, the practical tests have not been given. If the user wishes to carry out a practical test, this one has to be stated in agreement with the manufacturer.

3.6 When establishing the tolerance for a measuring range different from that given in this International Standard (see clause 2.311 in ISO/R 230), it should be taken into consideration that the minimum value of tolerance, for geometrical tests as well as for practical tests, is 0,01 mm (0,000 4 in).

¹⁾ In addition to terms used in the three official ISO languages (English, French and Russian), this International Standard gives the equivalent terms in German; these have been included at the request of ISO Technical Committee TC 39 and are published under the responsibility of the Member Body for Germany, F.R. However, only the terms and definitions given in the official languages can be considered as ISO terms and definitions.