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**Test conditions for machining centres —**

**Part 3:**

Geometric tests for machines with integral  
indexable or continuous universal heads  
(vertical Z-axis)

*Conditions d'essai pour centres d'usinage —*

*Partie 3: Essais géométriques des machines à têtes universelles intégrées  
à indexage ou continues (axe Z vertical)*



## Contents

Page

1	Scope .....	1
2	Normative reference .....	2
3	Preliminary remarks.....	2
3.1	Measuring units.....	2
3.2	Reference to ISO 230-1 .....	2
3.3	Testing sequence.....	2
3.4	Tests to be performed.....	2
3.5	Measuring instruments.....	2
3.6	Diagrams.....	2
3.7	Pallets .....	3
3.8	Software compensation .....	3
3.9	Machine configurations .....	3
3.10	Designation .....	3
3.11	Minimum tolerance.....	3
4	Geometric tests .....	6
4.1	Straightness of linear motions.....	6
4.2	Angular deviations of linear motions .....	9
4.3	Squareness between linear motions.....	12
4.4	Spindle .....	15
4.5	Table or pallet .....	17
	<b>Annex A (normative) Integral universal 45° split indexable heads</b> .....	<b>25</b>
	<b>Annex B (normative) Integral universal swivel heads</b> .....	<b>34</b>
	<b>Annex C (normative) Integral universal 45° split continuous heads</b> .....	<b>41</b>
	<b>Annex D (informative) Bibliography</b> .....	<b>48</b>

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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 liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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 10791-3 was prepared by Technical Committee ISO/TC 39, *Machine tools*, Subcommittee SC 2, *Test conditions for metal cutting machine tools*.

ISO 10791 consists of the following parts, under the general title *Test conditions for machining centres*:

- *Part 1: Geometric tests for machines with horizontal spindle and with accessory heads (horizontal Z-axis)*
- *Part 2: Geometric tests for machines with vertical spindle or universal heads with vertical primary rotary axis (vertical Z-axis)*
- *Part 3: Geometric tests for machines with integral indexable or continuous universal heads (vertical Z-axis)*
- *Part 4: Accuracy and repeatability of positioning of linear and rotary axes*
- *Part 5: Accuracy and repeatability of positioning of work-holding pallets*
- *Part 6: Accuracy of feeds, speeds and interpolations*
- *Part 7: Accuracy of a finished test piece*
- *Part 8: Evaluation of the contouring performance in the three coordinate planes*
- *Part 9: Evaluation of the operating times of tool change and pallet change*
- *Part 10: Evaluation of the thermal distortions*
- *Part 11: Evaluation of the noise emission*

Annexes A B and C form an integral part of this part of ISO 10791. Annex D is for information only.