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МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

**Woodworking machines — Double edging precision
circular sawing machines — Nomenclature and acceptance
conditions**

iTeh STANDARD PREVIEW

*Machines à bois — Machines à scier, à déliminer, multilames, de finition — Nomenclature et
conditions de réception* ([standards.iteh.ai](https://standards.iteh.ai/standard/iso-7959-1987))

ISO 7959:1987

[https://standards.iteh.ai/catalog/standards/sist/22ef5cf5-79b3-4293-a593-
7eff4b929181/iso-7959-1987](https://standards.iteh.ai/catalog/standards/sist/22ef5cf5-79b3-4293-a593-7eff4b929181/iso-7959-1987)

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.

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. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

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International Standard ISO 7959 was prepared by Technical Committee ISO/TC 39,
Machine tools.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

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Woodworking machines — Double edging precision circular sawing machines — Nomenclature and acceptance conditions

1 Scope and field of application

This International Standard specifies the nomenclature appropriate to each part of the machine and, with reference to ISO 230-1, the geometrical and practical tests for double edging precision circular sawing machines, and gives the corresponding permissible deviations which apply to machines of general purpose use and normal accuracy.

NOTE — In addition to terms used in the three official ISO languages (English, French and Russian), this International Standard gives the equivalent terms in the German, Spanish, Italian and Swedish languages in an annex; these have been included at the request of Technical Committee ISO/TC 39 and are published under the responsibility of the member bodies for Germany, F.R. (DIN), Spain (IRANOR), Italy (UNI) and Sweden (SIS). However, only the terms given in the official languages can be considered as ISO terms.

This International Standard deals only with the verification of the accuracy of the machine. It does not apply to the testing of the running of the machine (vibrations, abnormal noises, stick-slip motion of the components, etc.), nor to its characteristics (speeds, feeds, etc.) which should generally be checked before the accuracy is tested.

This International Standard applies to those machines designated by the number 12.132.34 in ISO 7984.

The annex does not form an integral part of this International Standard.

2 References

ISO 230-1, *Acceptance code for machine tools — Part 1: Geometric accuracy of machines operating under no-load or finishing conditions*.

ISO 7984, *Woodworking machines — Technical classification of woodworking machines and auxiliary machines for woodworking*.

STANDARD PREVIEW (standards.iteh.ai)

3 Preliminary remarks
3.1 In this International Standard all dimensions and permissible deviations are expressed in millimetres.

3.2 To apply this International Standard, reference should be made to ISO 230-1, especially for installation of the machine before testing, the warming up of the main spindle and other moving parts, and the description of the measuring methods. The measuring instruments shall not permit measurement errors over 1/3 of the checked tolerances.

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 mounting of instruments and gauging easier, tests may be applied in any order.

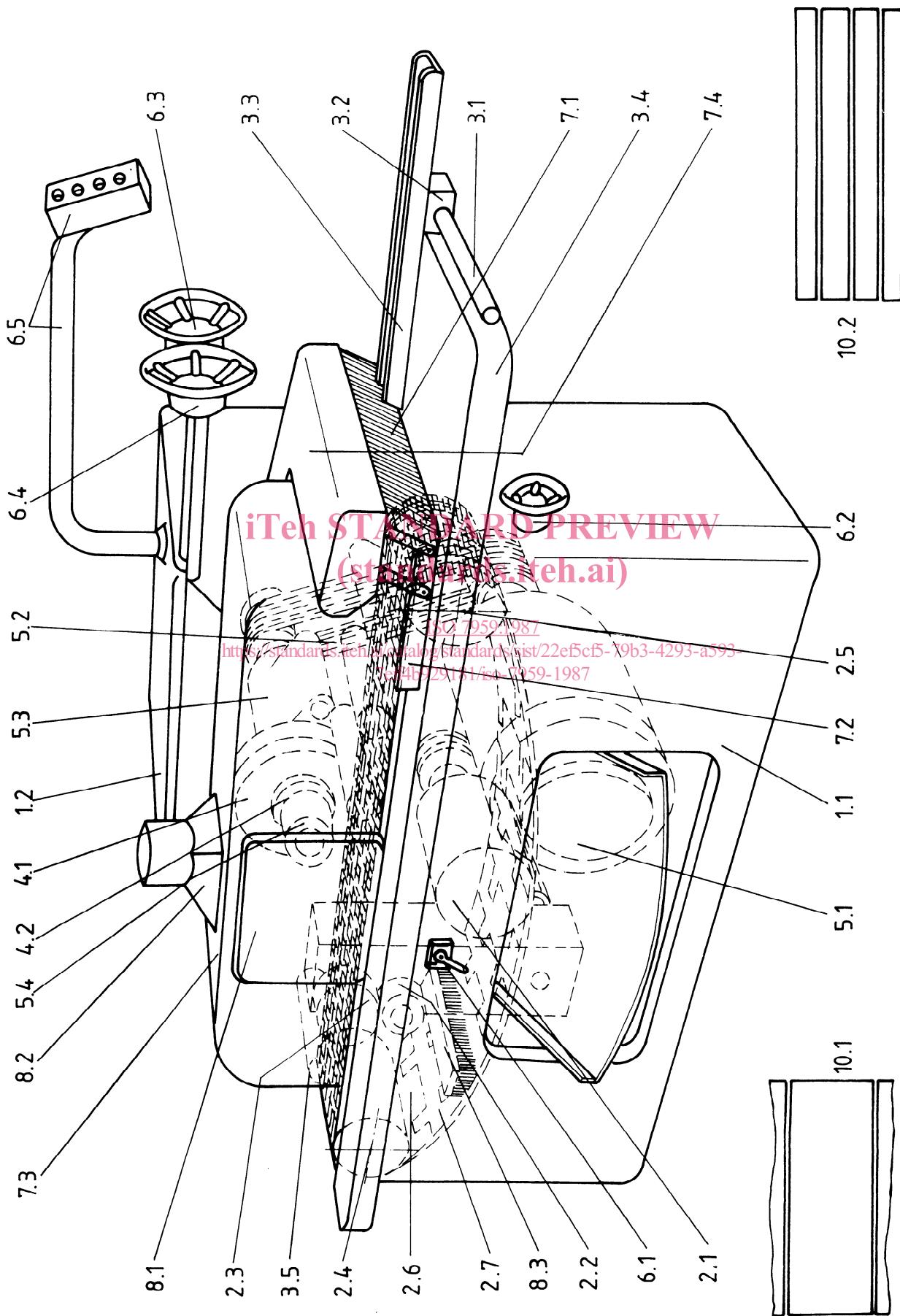
3.4 When inspecting a machine, it is not always possible or necessary to carry out all the tests given in this International Standard.

3.5 It is up to the user to choose, in agreement with the manufacturer, those tests relating to the properties which are of interest to him, but these tests shall be clearly stated when ordering a machine.

3.6 A movement is longitudinal when it takes place in the working direction of the piece.

3.7 When establishing the tolerance for a measuring range different from that given in this International Standard (see subclause 2.311 in ISO 230-1), it should be taken into consideration that the minimum value of the tolerance is 0,01 mm.

4 Nomenclature



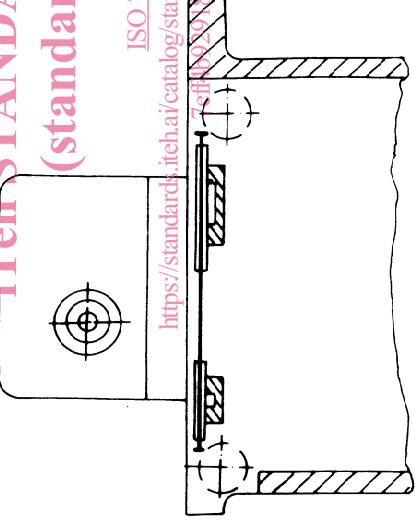
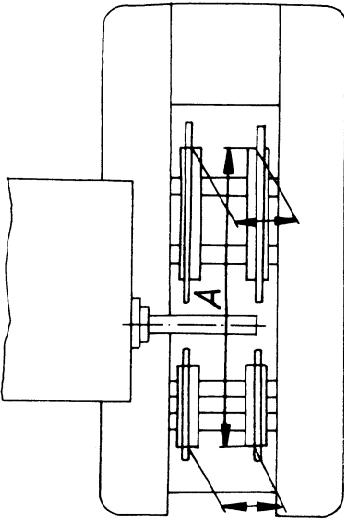
Reference	English	French	Russian
	Double edging precision circular sawing machines	Machines à scier, à déliminer, multilames, de finition	Станки круглопильные многодисковые кромко-обрезные
1	Framework	Ossature	Каркас
1.1	Main frame	Bâti principal	Главная станина
1.2	Over-arm	Bâti auxiliaire	Вспомогательная станина
2	Feed of workpiece and/or tools	Déplacement des pièces et/ou outils	Подача деталей и/или инструмента
2.1	Feed motor	Moteur d'aménage	Двигатель подачи
2.2	Feed gear	Boîte de vitesses	Коробка скоростей
2.3	Feed chain drive gearing	Pignon d'entraînement du tapis chaîne	Шестерня привода подающей цепи
2.4	Feed chain drive sprocket	Arbre d'entraînement du tapis chaîne	Барабан подающей цепи
2.5	Feed chain idler pulley	Poulie de renvoi du tapis chaîne	Шкив контрпривода подающей цепи
2.6	Feed chain	Tapis chaîne	Подающая цепь
2.7	Feed chain link	Maillon de chaîne	Звено цепи
3	Workpiece support, clamp and guide	Support, maintien et guidage des pièces	Опора, крепление и направление деталей
3.1	Fence bar	Axe porte-guide	Направляющая штанга
3.2	Fence body	Fixation du guide	Крепление направляющей штанги
3.3	Fence	Guide	Направляющая линейка
3.4	Infeed table	Table d'entrée	Входной стол
3.5	Pressure roller	Rouleau presseur	Прижимной ролик
4	Tool-holders and tools	Porte-outils et outils	Державки инструмента и инструмент
4.1	Sawblade	Lame de scie	Пильный диск
4.2	Spacer	Bague entretoise	Распорная гильза
5	Workhead and tool drives	Unité de travail et son entraînement	Рабочая головка и привод инструмента
5.1	Saw motor	Moteur de sciage	Двигатель
5.2	V-belt drive	Courroie	Приводной ремень
5.3	Saw spindle bearing	Palier de broche de scie	Подшипник шпинделя
5.4	Saw spindle	Broche de scie	Шпиндель пильного диска
6	Controls	7 Commandes ISO-7959-1987	Управление
6.1	Control gear	Commutateur général	Основной переключатель
6.2	Feed speed adjustment	Commande de l'avance	Регулировка подачи
6.3	Top pressure rise and fall adjustment	Commande de réglage vertical du bâti supérieur	Регулировка перемещения по вертикали
6.4	Spindle rise and fall adjustment	Commande de réglage du palier	Вертикальная регулировка шпинделя
6.5	Arm-mounted control panel	Tableau de commande sur bras	Пульт управления на кронштейне
7	Safety devices (examples)	Dispositifs de sécurité (exemples)	Предохранительные устройства (примеры)
7.1	Anti-kickback fingers	Linguets anti-recul	Противовозвратные шпонки
7.2	Side guard plate	Protecteur latéral	Боковая защитная планка
7.3	Upper housing	Capot supérieur	Верхний кожух
7.4	Anti-kickback finger housing	Capot anti-recul	Кожух противовозвратных шпонок
8	Miscellaneous	Divers	Прочее
8.1	Pressure housing door	Porte du capot	Люк кожуха
8.2	Dust exhaust outlet	Buse d'aspiration	Отсасывающий патрубок
8.3	Chain cleaning brush	Brosse de nettoyage	Щетка очистки цепи
9	(clause free)	(chapitre libre)	(свободная глава)
10	Examples of work	Exemples de travail	Примеры работ
10.1	Straight line edging	Déliminer	Обрезка кромок
10.2	Multi-ripping	Débiter	Продольная распиловка

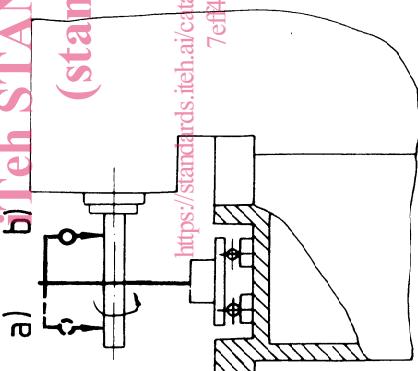
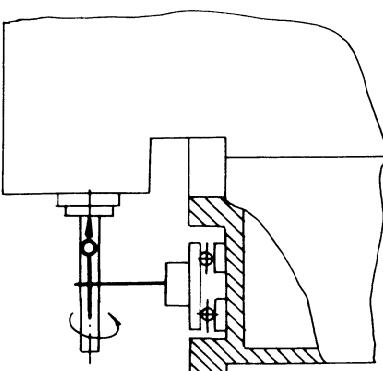
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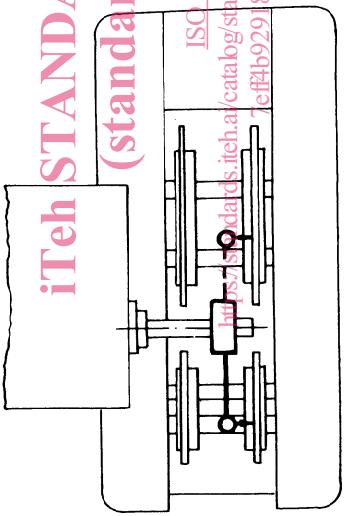
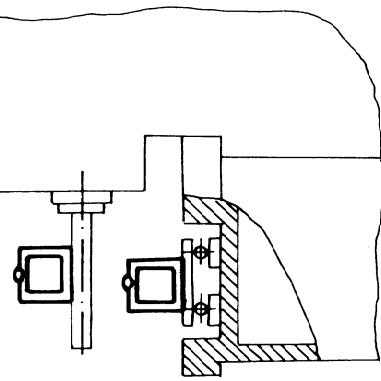
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5 Acceptance conditions and permissible deviations

5.1 Geometrical tests

No.	Diagram	Object	Permissible deviation	Measuring instruments	Observations and references to the ISO 230 1 acceptance code
G1	 <p>iTeh STANDARD REVIEW (standards.iteh.ai)</p> <p>ISO 7959:1987 https://standards.iteh.ai/catalog/standards/sist/22e5cf-79b3-4293-a593-0111/isoCheckingOfStraightnessOfTheChainWays</p> <p>Checking of straightness of the chain ways</p>		0,05	Straightedge and feeler gauges	<p>Subclause 5.2.12.1</p> <p>Left chain way. Right chain way.</p>
G2	 <p>Checking of parallelism of the chain ways</p>		0,1	Slide gauge	<p>Subclause 5.4.12.2</p> <p>for the length A</p>

No.	Diagram	Object	Permissible deviation	Measuring instruments	Observations and references to the ISO 230-1 acceptance code
G3	 <p>a) b) Teh STANDARD REVIEW (standards.iteh.ai)</p> <p>Measurement of run-out ISO 7959-1987 of spindle https://standards.iteh.ai/catalog/standards/sist22c5oc5-79b3-4293-a593-7ef46929181[isal]7near the end of the spindle</p>		<ul style="list-style-type: none"> a) 0,03 b) 0,02 	Measuring plate with parallel faces and dial gauge	Subclause 5.612.2
G4			0,02	Measuring plate with parallel faces and dial gauge	Subclause 5.632

No.	Diagram	Object	Permissible deviation	Measuring instruments	Observations and references to the ISO 230-1 acceptance code
G5	 <p>iTeh STANDARD REVIEW (standards.iteh.ai)</p> <p>Checking of squareness of the spindle to the chain ways</p> <p>ISO 7959-1 chain ways standards.iteh.ai/catalog/standards/sist/22e5c5-79b3-4293-a593-181/iso-7959-1987</p>		0,1/1 000	Dial gauge and special test device	Subclause 5.512.1
G6	 <p>0,3</p> <p>for a measuring length of 1 000</p> <p>Checking of parallelism of the spindle to the chain ways</p>			Measuring plate with parallel faces and level	Subclause 5.412.32

No.	Diagram	Object	Permissible deviation	Measuring instruments	Observations and references to the ISO 230-1 acceptance code
G7		(standard) iTeхai Checking of straightness of the fence	0,1	Straightedge and feeler gauges	Subclause 5.212.1
G8		Checking of parallelism of the fence to the chain ways	B_1 and B_2 0,1 for a measuring length of 1 000	Straightedge and slide gauge	Subclause 5.412.2
G9		Checking of parallelism of the pressure rollers to the upper plane of the chain	0,2	Measuring plate with parallel faces and feeler gauges	Subclause 5.412.4 Control at each roller.