



SLOVENSKI STANDARD
SIST EN ISO 6103:2005

01-oktober-2005

BUXca Yý U.
SIST EN ISO 6103:2000

Bonded abrasive products - Permissible unbalances of grinding wheels as delivered - Static testing (ISO 6103:2005)

Bonded abrasive products - Permissible unbalances of grinding wheels as delivered - Static testing (ISO 6103:2005)

Schleifkörper aus gebundenem Schleifmittel - Zulässige Unwucht von Schleifscheiben im Lieferzustand - Statische Prüfung (ISO 6103:2003)

Produits abrasifs agglomérés - Balourds admissibles des meules en état de livraison - Contrôle statique (ISO 6103:2005)

Ta slovenski standard je istoveten z: EN ISO 6103:2005

ICS:

25.100.70 Brusiva Abrasives

SIST EN ISO 6103:2005 en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 6103

April 2005

ICS 25.100.70

Supersedes EN ISO 6103:1999

English version

Bonded abrasive products - Permissible unbalances of grinding wheels as delivered - Static testing (ISO 6103:2005)

Produits abrasifs agglomérés - Balourds admissibles des meules en état de livraison - Contrôle statique (ISO 6103:2005)

This European Standard was approved by CEN on 23 March 2005.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

EN ISO 6103:2005 (E)**Foreword**

This document (EN ISO 6103:2005) has been prepared by Technical Committee ISO/TC 29 "Small tools" in collaboration with Technical Committee CEN/TC 143 "Machine tools - Safety", the secretariat of which is held by SNV.

This document supersedes EN ISO 6103:1999.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2005, and conflicting national standards shall be withdrawn at the latest by October 2005.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Endorsement notice

The text of ISO 6103:2005 has been approved by CEN as EN ISO 6103:2005 without any modifications.

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INTERNATIONAL STANDARD

**ISO
6103**

Third edition
2005-04-01

Bonded abrasive products — Permissible unbalances of grinding wheels as delivered — Static testing

*Produits abrasifs agglomérés — Balourds admissibles des meules en
état de livraison — Contrôle statique*

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

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 6103 was prepared by Technical Committee ISO/TC 29, *Small tools*, Subcommittee SC 5, *Grinding wheels and abrasives*.

This third edition cancels and replaces the second edition (ISO 6103:1999), which has been technically revised.

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Bonded abrasive products — Permissible unbalances of grinding wheels as delivered — Static testing

1 Scope

This International Standard specifies the maximum permissible values of unbalances for various grinding wheels of ISO 603-1 to ISO 603-9 and ISO 603-12 to ISO 603-16 in the as-delivered condition, with an outside diameter $D > 115$ mm and maximum operating speed $v_s \geq 16$ m/s.

It also specifies the method for measuring the unbalance and the practical method for testing whether a grinding wheel is acceptable or not.

This International Standard is applicable to bonded abrasive grinding wheels in the as-delivered condition.

This International Standard is not applicable to

- diamond, cubic boron nitride or natural stone grinding wheels, or to
- centreless control wheels, lapping and disc wheels, ball wheels or glass grinding wheels.

NOTE 1 The values given refer to the grinding wheel itself, independent of any unbalance which may exist in the balancing arbor or in the means of fastening it to this arbor. These various elements, together with the flanges or hub-flanges, are assumed to be balanced, homogeneous and free from geometrical defects.

NOTE 2 The effects of unbalance are basically

- additional stresses on the arbor, the machine and its mounting,
- excessive wear of the bearings,
- vibration prejudicial to the quality of machining and increased internal stresses in the grinding wheel, and
- increased operator fatigue.

2 Normative references

The following referenced documents are indispensable 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 603-1, *Bonded abrasive products — Dimensions — Part 1: Grinding wheels for external cylindrical grinding between centres*

ISO 603-2, *Bonded abrasive products — Dimensions — Part 2: Grinding wheels for centreless external cylindrical grinding*

ISO 603-3, *Bonded abrasive products — Dimensions — Part 3: Grinding wheels for internal cylindrical grinding*