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Fourth edition
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Machine tools — Mounting of grinding wheels by means of hub flanges

Machines-outils — Montage des meules par moyeux-flasques



Reference number
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Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Requirements	2
4.1 General	2
4.2 Dimensions	2
4.3 Flange socket	5
4.4 Material	7
4.5 Marking	7
5 Designation	9
6 Scope of delivery	9
Annex A (informative) Calculation of clamping force and tightening torque for the mounting of abrasive products by means of flanges	10

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

This fourth edition cancels and replaces the third edition (ISO 666:2006), which has been technically revised.

The significant modifications are the following:

- a) in 4.2, Figure 1, the tolerance class of the outer diameter, D_{H2} , of the fixed flange has been changed to f6; consequently, the tolerance class of the outer diameter, D_{H1} , of the loose flange has been changed to e7, in order to avoid possible safety problems, in particular, for bonded abrasive products in cases where the minimum permitted clearance between the hole, H , of the grinding wheel and the diameter, D_{H2} , of the flange is reached and can lead to tangential tensile stress in the wheel;
- b) in 4.2, Figure 1, the tolerance for the concavity of the flange's part supporting the wheel has been reduced, in order to obtain a better distribution of the tightening forces on the wheel's contact surface.