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Blanks for superabrasive cutting-off wheels — Mounting and fixing bores-_ — Building construction and civil engineering

Âmes pour meules de tronçonnage superabrasives-<u></u>— Alésages de montage et de fixation — Bâtiment et génie civil

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see <u>www.iso.org/iso/foreword.html</u>.

<u>ISO 21538</u>

This document 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 21538:2016), which has been technically revised.

The main changes are as follows:

Figures 1 Figures 1 and 2 have been modified;

— — new dimensions have been added to Table 1. Table 1.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at <u>www.iso.org/members.html</u>.

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Blanks for superabrasive cutting-off wheels — Mounting and fixing bores-_ — Building construction and civil engineering

1 Scope

This document specifies the most common dimensions for mounting and fixing bores in blanks. These mounting and fixing bores conform to the relevant dimensions of the clamping flanges specified in ISO 21537–22.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 2768-<u>-</u>1, General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications

ISO 21537--2, Clamping flanges for superabrasive cutting-off wheels — Part 2: Building and construction

3 Terms and definitions

No terms and definitions are listed in this document. Indands

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— — ISO Online browsing platform: available at <u>https://www.iso.org/obp</u>https://www.iso.org/obp

— — IEC Electropedia: available at <u>https://www.electropedia.org/</u>https://www.electropedia.org/

4 Dimensions

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The dimensions of a centre bore without hole circle (type A), of a centre bore with one hole circle for a driving pin (type B), of a centre bore with up to two hole circles for driving pins (type C), of a centre bore with up to two hole circles for mounting (type D) and of a centre bore with one hole circle for driving pins and one for mounting (type E) are shown in Figures <u>3</u> Figures <u>3</u> to <u>7,7</u>, respectively and are given in <u>Table 1</u>.

Details which are not specified shall be chosen according to need.

The countersinks may only be on one side of the blade. A maximum of two different pitch diameters for countersinks are allowed. In addition to the countersunk bores, $\frac{2 \text{two}}{2 \text{two}}$ through boreholes are permitted.

Additional drive holes shall be located within the flange area.

- the The distance between the drive holes must shall be at least 14-mm in the radial direction (Fig. 1)see Figure 1).
- <u>- the The</u> distance between the drive holes <u>mustshall</u> be at least 30-<u>mm</u> in the tangential direction (<u>Fig. 1)see Figure 1</u>).
- the The distance between the pitch circles mustshall be min. 20-mm in radial direction (Fig. 2) see Figure 2).

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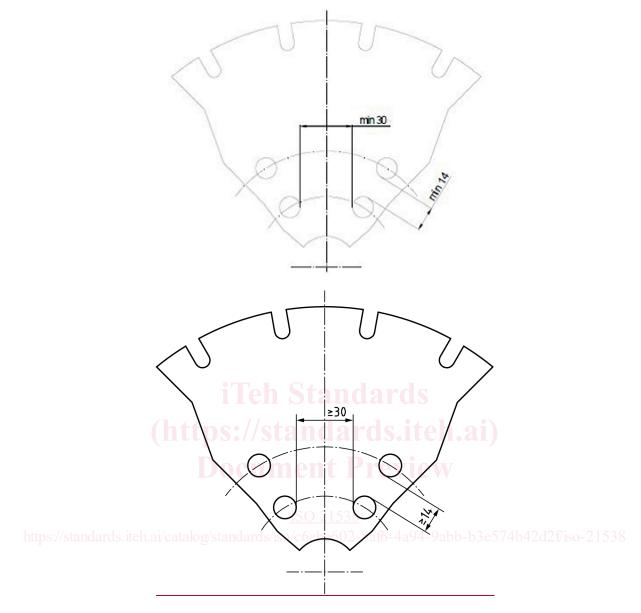


Figure-_1-_— Location of drive holes within the flange area

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