

International Standard

ISO 21538

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Blanks for superabrasive cuttingoff wheels — Mounting and fixing bores — Building construction and civil engineering

Âmes pour meules de tronçonnage superabrasives — Alésages de montage et de fixation — Bâtiment et génie civil



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Foreword

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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 and 2 have been modified;
- new dimensions have been added to <u>Table 1</u>.

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 www.iso.org/members.html.

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 21537-2.

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 2768-1, 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.

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

- ISO Online browsing platform: available at https://www.iso.org/obp
- IEC Electropedia: available at https://www.electropedia.org/

4 Dimensions

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 <u>Figures 3</u> to <u>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, two through boreholes are permitted.

Additional drive holes shall be located within the flange area.

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