

ICS 77.160
CCS H 70



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 2078-2019

Replacing GB/T 2078-2007

**Dimensions of indexable hard metal (carbide) inserts with
rounded corners, with cylindrical fixing hole**

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Standardization Administration**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces GB/T 2078-2007 "Carbide indexable insert size with rounded hole fixing", and GB/T 2078-

Compared with.2007, the main technical changes except editorial changes are as follows.

--- Added VN model blade (see Chapter 3);

--- Modified the requirements for dimensional tolerance, not limited to M (see 4.1,.2007 version 4.1);

--- Added some models of blades and their dimensions (see Chapter 7);

--- Removed Appendix A, and the remaining appendix numbers were modified accordingly (see Appendix A of the.2007 edition).

This standard uses the translation method equivalent to ISO 3364.2017 "Carbide indexable insert size fixed with rounded holes".

The documents of our country that have a consistent correspondence with the international documents referenced in this standard are as follows.

---GB/T 2075-2007 Classification and use of hard cutting materials for cutting Large group and use group classification code

(ISO 513.2004, IDT);

---GB/T 2076-2007 Index for indexable inserts for cutting tools (ISO 1832.2004, MOD).

This standard has made the following editorial changes.

--- Modified the standard name.

This standard was proposed by the China Nonferrous Metals Industry Association.

This standard is under the jurisdiction of the National Nonferrous Metals Standardization Technical Committee (SAC/TC243).

This standard was drafted. Xiamen Jinlu Special Alloy Co., Ltd., Zigong Cemented Carbide Co., Ltd., Chongyi Zhangyuan Tungsten Co., Ltd.

Limited company, Zhuzhou Cemented Carbide Group Co., Ltd.

1 Scope

This standard specifies the dimensions of carbide indexable inserts with rounded corners, rounded mounting holes and a 0° relief angle.

This standard is applicable to rounding and rounding on cutting and drilling tools by means of top and hole clamping or only hole clamping.

Shaped mounting holes and carbide indexable inserts with a 0° relief angle.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

Classification and use of ISO 513 hard-cutting materials for machining Large-scale and use group classification codes (Classification and

Application of hard cutting materials for metal removal with defined cutting edges-Designation of the Main groups and groups of application)

ISO 1832 cutting tool type indexing rules for cutting tools
(Indexable inserts for cutting tools-Designation)
Tion)

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain a terminology database for standardization at the following URL.

4 blade type

The carbide indexable inserts included in this standard are of the following types.

- TN. an equilateral triangle blade with a 0° back angle;
- SN. square blade with a 0° back angle;
- CN. a diamond-shaped blade with a 0° back angle and a 80° nose angle;
- DN. a diamond-shaped blade with a 0° back angle and a 55° nose angle;
- WN. a hexagonal blade with a 0° back angle and a 80° nose angle;
- VN. Diamond blade with 0° back angle and 35° nose angle.

The indexable inserts included in this standard can be double-sided with chipbreakers, either with a chipbreaker on one side or without chipbreakers on both sides.

This standard does not specify the shape and size of the chip breaker. If necessary, you can attach a schematic diagram or explain it. Table B.1 gives the blade

The range of sizes.

GB/T 2078-2019

(Carbide indexable insert size with rounded round holes)

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National Standards of People's Republic of China

Replace GB/T 2078-2007

Carbide with rounded holes

Indexable insert size

Dimensionsofindexablehardmetal(carbide)insertswithroundedcorners,

Withcylindricalfixinghole

[ISO 3364.2017, Indexablehardmetal(carbide)insertswithroundedcorners,

Withcylindricalfixinghole-Dimensions,IDT]

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China National Standardization Administration issued

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