

ICS 25.100.20

CCS J41



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

**GB/T 14298-2008**

Replacing GB/T 14298-1993

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**Helical end mills with indexable inserts**

可转位螺旋立铣刀

**Issued on: June 3, 2008**

**Implemented on: January 1, 2009**

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**Issued by: General Administration of Quality Supervision, Inspection and  
Quarantine of the People's Republic of China;  
Standardization Administration of China**

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### Foreword

This standard replaces GB/T 14298-1993 "indexable helical end mills." This standard and GB/T 14298-1993 compared to the main changes are as follows:

- Added "foreword";
- Modify the "normative references";
- Added "Automatic tool change with 7.24 taper shank indexable helical end mill types and basic dimensions";
- Added "Shell end mills of types and basic dimensions";
- Expanding the basic size specifications;
- Original standard "technical requirements" of the content of the words "appearance and surface roughness," "tolerance," "material and hardness";
- Abolition of the "performance test requirements";
- Modify the "logo and packaging" requirements. The standard proposed by China Machinery Industry Federation. This standard tool by the National Standardization Technical Committee (SAC/TC91) centralized. This standard was drafted. Taiyuan Tools Factory. The main drafters. Zhang Jinfeng, any spring. This standard replaces the standards previously issued as follows:
  - GB/T 14298-1993. Indexable helical end mills

### 1 Scope

GB/T 14298-2008 is the Chinese national standard on helical end mills with indexable inserts, in the field of manufacturing engineering. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers

meet it. It was issued on 3 June 2008 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 January 2009. Classification: ICS 25.100.20, CCS J41. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the flatted straight shank, Morse taper shank,

7.24 taper shank indexable helical end mills and nested indexable helical end mill (hereinafter Acronym end mill) the type size, appearance, and surface roughness, and material hardness, marking and basic requirements for packaging. This standard applies to a diameter of 32mm ~ 125mm indexable helical end mills. Its long blade portion arranged along the direction of the helix Multi-piece carbide indexable inserts made of intertwined lap for rough milling.

## 2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 1443 from machine tools and tool handles with clip cone ( GB/T 1443-1996, eqv ISO 296.1991)

GB/T 2075 Classification and use of cutting large groups and groups of application of hard cutting materials classification code ( GB/T 2075- 2007, ISO 513.2004, IDT)

GB/T 2080 with rounded corners sink hole fixed carbide indexable insert Size ( GB/T 2080-2007, ISO 6987.1998, IDT) GB/T 3837

7.24 taper shank tool manually ( GB/T 3837-2001, eqv ISO 297. 1988)

GB/T 6131.2 cutter straight shank - Part 2. flatted straight shank type and size ( GB/T 6131.2-2006, ISO 3338-2. 2000, MOD)

GB/T 10944.1 automatic tool changer with

7.24 taper tool shank portions 40, 45 and 50 of the handle 1. Dimensions and male cone angle Difference ( GB/T 10944.1-2006, ISO 7388-1, IDT)

GB/T 20329 end key drive arbor for milling cutters and tool holders swap Size ( GB/T 20329-2006, ISO 2780. 1986, IDT)