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

GB/T 18842-2008

Replacing GB/T 18842-2002

Taper cylindrical involute splines

圆锥直齿渐开线花键

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Foreword

This standard is GB/T 18842-2002 "straight bevel involute spline" amendments. This standard compared with GB/T 18842-2002 main changes are as follows:

- According to GB/T 1.1-2000 requirements were modified editorial;
- Table 2, "The role of space width maximum $EV_{\max} = EV_{\min} - \lambda$ " to " $EV_{\max} = E_{\max} - \lambda$ ";
- Table 2 FOREIGN spline involute starting circle maximum formula "2" to "2 x", "Dh" to "Db";
- Table 8, "The role of the maximum tooth thickness 1.606" to "the role of the maximum tooth thickness of 1.660";
- Table 8, "The role of the minimum tooth thickness 1.660" to "the role of minimum tooth thickness of 1.606";
- Table 8 "6H GB/T 18842-2002" to "6k GB/T 18842-2008";
- Table 9 to Table 13 "internal splines maximum actual space width" to "minimum effective space width $EV_{\min} = 0.5p_m$ ". This standard by the National Standardization Technical Committee axis machines and accessories and focal points. This standard was drafted. Mechanical Science Research Institute of Machine Productivity Promotion Center, Harbin Dongan Engine Co., Ltd, China's first FAW Group Corporation. The main drafters of this Standard. Chui Ming new, Chang Po-printing, giant Jianhui, Deng Takami. This standard replaces the standards previously issued as follows:
- GB/T 18842-2002. Straight bevel involute splines

1 Scope

GB/T 18842-2008 is the Chinese national standard on taper cylindrical involute splines, in the field of mechanical systems and components. 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 27 September 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 May 2009. Classification: ICS 21.120.30, CCS J18. 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 straight bevel involute splines (hereinafter referred to as splines) terminology, symbols and definitions, dimensions calculation formula, the size of the Department Column, tolerance level and fits the category, tolerances, annotation parameters, test methods and the size of the table and so on. This standard applies to internal spline tooth as a straight line, the external spline tooth involute, standard pressure angle of 45 °, modulus of 0.50mm ~ 1.50mm straight teeth and a conical taper

1.15 involute splines.

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. Part 1

GB/T 1800.1 Geometrical product specifications (GPS) Limits and fits. Tolerances, deviations and fits basis (GB/T 1800.1-2008, ISO 286-1. 1988, MOD)

GB/T 3478.1-2008 Straight cylindrical involute splines (Metric module, side fit) - Part 1. General (ISO 4156-1.2005, MOD)

GB/T 15758 spline basic terms

3 Terms, symbols and definitions

3.1 spline common terminology and definitions, see GB/T 15758.

3.2 spline special terminology, symbols and definitions Figure 1 and Figure 2. The following terms and definitions apply to this standard.

3.2.1 Provisions spline parameters, dimensions and tolerances of the end of the plane. Predetermined position of the base surface of the outer splines small end, and with the design of a given internal splines Base surface coincide.

3.2.2 Trail conical surface and spline shaft plane intersection line.

3.2.3 Internal splines same acute angle on both sides of the toothed gullet sandwiched.

3.2.4 Internal and external spline tapered spline axis pixel lines and sandwiched acute angle.

3.2.5 Distance from the base end to end spline small plane to.

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