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

GB/T 16455-2008

Replacing GB/T 16455-1996

Bar and frame level meter

条式和框式水平仪

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Foreword

This standard replaces GB/T 16455-1996 "batten and square levels." This standard and GB/T 16455-1996 main differences are as follows:

- Cancellation of article type and frame Level term (1996 version 3.1, 3.2);
- Level canceled organizational changes in test experiment with zero error (1996 Edition A.4);
- Expands the V-face angle alpha range (1996 edition Table 1; Table 1 edition);
- Increases the surface roughness of the face (edition 5.4);
- Increased test methods Part requirements (Excerpts from
- Use the "scale spacing", "mark width" and "mark width difference" instead of the term "sub-degree pitch", "sub-scribe width" and "bias" (1996 Version 5.4;
- Revised test methods Face flatness (1996 edition A.1; edition 7.7);
- Replaced by zero error tolerance position between Face (1996 Version 5.7;
- The indexing error instead of the indication error (1996 Version 5.9; edition 5.10);
- With a zero instead of an error in horizontal position tolerance test instrument Face (1996 edition A.2; edition 7.8);
- By dividing the value of error instead of the test level meter indication error (1996 edition A.5; edition 7.9). The standard proposed by China Machinery Industry Federation. The standard measuring instrument by the National Standardization Technical Committee (SAC/TC132) centralized. This standard is drafted by: Shanghai Measuring & Cutting Tool Factory. Participated in the drafting of this standard. Qingdao outpost Precision Instrument Co., Ltd., Chengdu Tool Research Institute. The main drafters of this standard. Zhou Guoming, Wang Kunzong, Wang Ai Ye, Jiang Zhigang. This standard replaces the standards previously issued as follows:
- GB/T 16455-1996. Article formula and square levels

1 Scope

GB/T 16455-2008 is the Chinese national standard on bar and frame level meter, in the field of metrology and measurement. 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 25 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 17.040.30, CCS J42. 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 strip test level and square levels of terms and definitions, types and basic parameters, requirements, test methods, marking and package And other equipment. This standard applies to indexing is 0.02mm/m, 0.05mm/m and 0.10mm/m, specifications for 100mm, 150mm, 200mm, 250mm and 300mm, to strip vial reading test level and frame level (hereinafter referred to as "horizontal instrument").

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 1146-1989 standard foam

GB/T 1800.1-1997 Limits and fits basis Part 1. Vocabulary (neq ISO 286-1. 1988)

GB/T 17163 dimensional measuring instruments - Basic terminology

GB/T 17164 dimensional measuring instruments - Product terms

3 Terms and Definitions

GB/T 1146-1989, GB/T 1800.1-1997, GB/T 17163 and GB/T 17164 and established in the following terms and Definitions apply to this standard.

3.1 Is a sealed and transparent, filled with liquid and a bubble left angle indicating element.

3.2 Indexing movement of the bubbles represents a value, refers to a bubble moving indexing Face desired tilt angle, dividing the value to mm/m expressed.

Note. Dividing the value corresponding to the tilt angle. $0.00485\text{mm/m} = 1''$.

3.3 Between indication indication skewed transverse horizontal instrument Face (Vice vial bubble moving direction) in a horizontal position when its The difference.

4 Types and basic parameters

4.1 Level of the type shown in Figure 1 and Figure 2. Illustration illustration purposes only and does not indicate a detailed structure.