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**INDUSTRY STANDARD OF THE
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**Verification Regulation of Reading Microscope and Measuring
Microscope
(English Translation)**

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4.1 Displacement caused by the radial force of the circular table (2)

4.2 Parallelism of the movement direction of the glass table and the longitudinal and lateral slides (2)

4.4 Mutual verticality of vertical and horizontal slide movement (2)

4.5 The verticality of the microscope lifting direction to the glass table (2)

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Appendix A Analysis of the Uncertainty of the Results of the Errors in the Reading Microscope (10)

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Reading and measuring microscope verification procedures

1 Scope

This procedure is applicable to reading microscopes with a division value not greater than 0.01 mm and an upper measurement range up to 8 mm, and the division value is not more than 0.01mm, and the measurement range is. measurement in the longitudinal direction (0~50) mm and the lateral direction (0~13) mm.

The first verification, subsequent verification and in-use inspection of the microscope.

2 Citations

This procedure refers to the following documents.

JJF1001-1998 General measurement terms and definitions JJF1059-1999 Measurement Uncertainty Evaluation and Representation JJF1094-2002 Measuring instrument characteristic evaluation JB/T 2369-1993 reading microscope JB/T 9339-1999 Measuring microscope when using this procedure, care should be taken to use the current valid version of the above cited documents.

3 Overview

Reading microscopes and measuring microscopes (hereinafter referred to as microscopes) are optical mechanical length measuring instruments, readings the microscope is mainly used as the aiming and positioning reading device in the length measuring instrument, and can also be used for the scribe line width, spacing, etc.

Measurement of the length; the main purpose of the measuring microscope is to measure the part by the image method in Cartesian or polar coordinates.

Shape size. The shape of the reading microscope is shown in Figure 1, Figure 2, Figure 3. The shape of the measuring microscope is shown in Figure 4.

Shown.

Figure 1 One of the outlines of the reading microscope

1-objective lens; 2-measuring differential scriimage box;

3-eyepiece; 4-micrometer knob; 5-light

Figure 2 Figure 2 of the reading microscope

1-objective lens; 2-micrometer knob; 3-eyepiece;

4-measuring differential scriimage box; 5-zero adjustment knob; 6-light