

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

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Verification regulation for electrodynamic horizontal vibration generator for testing (English Translation)

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7.5 Verification cycle (8)

Appendix A Detection method of maximum overturning moment and maximum yaw moment of water smoothing table (9)

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Electric horizontal vibration test bench verification procedures

1 Scope

This procedure is applicable to electric horizontal vibration test rigs with a sinusoidal thrust of 100 kN or less with a sliding table (below the first verification and subsequent verification of the horizontal vibration table).

2 Citations

JJG 948-1999 Digital Electric Vibration Test System JJG 190-1997 Electric Vibration Test Bench GB/T 11353-1989 Description of the characteristics of vibration generator auxiliary equipment JB/T 6869-1993 Horizontal vibration table (sinusoidal) technical conditions when using this procedure, care should be taken to use the current valid version of the above cited documents.

3 terms

3.1 Electric horizontal vibration test bench

electrodynamichorizontalvibrationgeneratorfortest an electric vibration generator with a horizontal slide for vibration testing.

3.2 Maximum overturning moment Max.pitchmoment Under the condition that the horizontal vibrating table works normally, the applied dynamic force is generated in a longitudinal plane perpendicular to the mesa.

The front and back overturning limit torque.

3.3 Maximum deflection torque Max.yawmoment the deflection limit of the applied dynamic force in the horizontal plane of the slide table under the condition that the horizontal vibration table is working normally Torque.

4 Overview

The horizontal vibration table is a device for generating horizontal vibration of the test piece. It and vibration controller, power amplification the instrument, accelerometer, adaptive amplifier and auxiliary equipment form a horizontal vibration test system (Fig. 1). Electric horizontal vibration the table is suitable for vibration test with large volume and heavy load. It can be divided into hydraulic guide and mechanical guide.

Second class.

Figure 1 Electric horizontal vibration test system