

ICS 17.160
CCS A 53

JJG

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

JJG 1066-2011

**Verification regulation of precision centrifuge
(English Translation)**

Issued on: April 12, 2011

Implemented on: July 12, 2011

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine**

Table of Contents

1 Scope (1)	
2. Referenced Documents (1)	
3 Terms (1)	
4 Overview (1)	
4.1 Principle and structure (1)	
4.2 Classification (2)	
4.3 Purpose (2)	
5 Metering performance requirements (2)	
5.1 Key Features (2)	
5.2 Other properties (3)	
6 General Requirements (3)	
6.1 Appearance requirements and accessories (3)	
6.2 Other technical requirements (3)	
7 Control of measuring instruments (3)	
7.1 Test conditions (3)	
7.2 Verification Project (4)	
7.3 Inspection methods and data processing (5)	
7.4 Verification Results processing (11)	
7.5 Test cycle (11)	
Appendix A Sophisticated centrifuge testing methods and other performance data processing (12)	
Appendix B Centrifuge test the original record format (the main test items) (23)	
Appendix C Centrifuge test the original record format (optional item) (26)	
Appendix D Test certificate-page format (29)	
Appendix E Test results in the notice page format (30)	

7.5 Test cycle (11)

Appendix A sophisticated centrifuge testing methods and other performance data processing (12)	
Appendix B centrifuge test the original record format (the main test items) (23)	
Appendix C centrifuge test the original record format (optional item) (26)	

Appendix D test certificate-page format (29)

Appendix E test results in the notice page format (30)

Precision centrifuge test procedures

1 Scope

The order applies to accuracy class 0.1 ~ 0.0001 precision centrifuge (hereinafter referred to as centrifuges) first Second test, verification and subsequent use of checks.

2 Citations

GJB585A-1998 inertial technology terms the main performance test methods

GJB1801-1993 inertial technology test equipment JJF1156-2006 shock and vibration speed measurement terms and definitions should pay attention to the use of this procedure by using the currently valid version of the documents cited.

3 Terms

3.1 centrifuge rotational axis axisofcentrifugerotation Rotation around the axis centrifuge straight.

3.2 Average centrifuge rotation axis axisaveragelineofcentrifuge Geometric centerline axis of rotation of the centrifuge.

3.3 Static working radius in the stationary state, an average of centrifuge rotation axis accelerometer to detect the distance to the center of mass.

3.4 working radius dynamic variation dynamicchangeofworkingradius in operation, the amount of change in a relatively static working radius of the centrifuge.

3.5 Static pitch misalignment angle staticpitchmisalignment A stationary state within the test accelerometer input shaft in the vertical plane relative to the direction of the radius of the centrifuge work Declination.

3.6 static azimuth misalignment angle staticazimuthmisalignment Stationary state accredited declination accelerometer input shaft in a horizontal plane relative to the radial direction of the centrifuge work.

3.7 vertical spindle error plumberrorofmainaxis Average centrifuge rotational axis of the local plumb line deviation angle.

3.8 unbalanced shaking error swayerrorfromunbalance Spindle radial and angular displacements centrifuge rotating body due to their own unbalance.

3.9 Gravity Field calibration device cablibitionequipmentingravity Use as a standard component of the acceleration of gravity accelerometer bias calibration value, scale factor and other performance parameters Means.

4 Overview

4.1 The principle and structure