



IEC 60335-1 Stability Test Equipment

KP-ST Product Catalogue

Laboratory test equipment for appliance stability evaluations on an inclined support surface, suitable for IEC 60335-1 Clause 20.1 related testing with multiple platform sizes, angle verification and manual or motorized adjustment options.

600 / 800 / 1000 mm

IEC 60335-1

Clause 20.1



Standards

IEC 60335-1 / Clause 20.1

Test Object

Household and similar electrical appliances

Platform Options

600 mm / 800 mm / 1000 mm

Load Capacity

50 kg / 80 kg / 125 kg

Product Overview and Equipment Architecture

The KP-ST series provides a controlled inclined support surface for electrical appliance stability evaluations associated with IEC 60335-1 Clause 20.1. The appliance is positioned in the applicable use condition and orientation while the platform is adjusted to the required angle for stability assessment.

Standard-oriented application

Designed for appliance stability evaluations associated with IEC 60335-1 Clause 20.1.

Three platform configurations

600 mm, 800 mm and 1000 mm platform options support different appliance footprints.

Angle measurement support

Angle measurement accuracy of $\pm 0.5^\circ$ supports setup verification of the inclined test surface.

Manual or motorized adjustment

Adjustment configuration is selected according to model, sample load and laboratory operating needs.



Functional Test Flow

1**Prepare Sample**

Confirm appliance type, loading condition and applicable standard.

2**Select Platform**

Match the platform diameter and bearing capacity to the specimen.

3**Set Inclination**

Adjust and verify the test surface angle.

4**Evaluate Stability**

Assess the complete appliance according to the laboratory procedure.

Detailed Technical Specifications

The following parameters summarize the KP-ST catalogue-level configuration. Final setup, angle verification and documentation should be reviewed according to the applicable

Standard and Test Scope

Parameter	Specification
Product series	KP-ST
Applicable standard	IEC 60335-1 Clause 20.1
Test object	Household and similar electrical appliances
Test purpose	Stability evaluation on inclined surface
Operation modes	Manual or motorized adjustment (depending on model)

Instrument Configuration

Parameter	Specification
Platform options	600 / 800 / 1000 mm
Angle measurement accuracy	±0.5°
Power supply	AC 220 V ±10%, 50/60 Hz
Control / indication	Digital inclinometer or angle indication arrangement
Adjustment	Hand-actuated or motorized (depending on model)
Customization	Panel marking and configuration details can be customized

Platform and Load Parameters

Model	Surface Diameter	Angle Range	Bearing Capacity	Inclination Adjustment
KP-ST1	600 mm	0–45°	50 kg	Hand-actuated
KP-ST2	800 mm	0–30°	80 kg	Hand-actuated / motorized
KP-ST3	1000 mm	0–30°	125 kg	Hand-actuated / motorized

Technical Note

For IEC 60335-1 stability evaluations, the selected platform diameter, load capacity, angle range and adjustment method should remain aligned with the applicable appliance category and laboratory procedure. Appearance or interface labeling can be discussed, but should not affect required mechanical stability evaluation conditions.

Inclined Support Surface and Test Method

The inclined support surface defines the mechanical condition used for appliance stability assessment. The selected platform size and load capacity provide the required sample support for standard-related stability testing.



Core Platform Values

Platform options: 600 mm / 800 mm / 1000 mm

Angle measurement: $\pm 0.5^\circ$

Load capacity: 50 kg / 80 kg / 125 kg

Adjustment: manual or motorized depending on model

Test Method Notes

- Place the sample in the specified use condition.
- Set the platform angle according to the relevant procedure.
- Confirm the angle reading before evaluation.
- Assess the appliance behaviour according to the laboratory method.

1

Prepare EUT

2

Select Platform

3

Set Inclination

4

Check Angle

5

Evaluate Response

Configuration Selection Guide

When selecting IEC 60335-1 stability test equipment, the main considerations are appliance footprint, total test-condition weight, required inclination range and preferred adjustment method. The following guidance helps match the KP-ST configuration to typical laboratory needs.

Appliance Footprint

The complete appliance should fit appropriately on the selected platform in the required test orientation.

Test-condition Weight

Consider the full specimen mass including water, load or accessories applied during the test.

Required Inclination Range

KP-ST1 provides 0–45°, while KP-ST2 and KP-ST3 provide 0–30°.

Adjustment Preference

Manual or motorized inclination adjustment can be selected according to operating frequency and sample weight.

Typical Requirement

Typical Requirement	Suggested Model
Compact appliances with smaller footprint and lighter load	KP-ST1
Medium-size appliances requiring broader surface coverage	KP-ST2
Large appliances or projects requiring the highest load capacity	KP-ST3
Routine laboratory projects with frequent angle adjustment	KP-ST2 or KP-ST3 with motorized option

Laboratory Applications, Compliance and Operation

Typical Users

- Household appliance manufacturer R&D; laboratories
- Product safety and compliance laboratories
- Third-party testing and certification organizations
- Quality assurance and pre-compliance teams
- IEC 60335 laboratory equipment projects

Compliance and Regulatory Assurance

- The equipment is designed for stability evaluations associated with IEC 60335-1 Clause 20.1.
- Test conditions should be determined from the applicable IEC 60335-1 edition and relevant Part 2 standard.
- Appliance type, loading condition, movable parts and test orientation should be confirmed before formal testing.

Operation and Documentation Notes

- Verify platform size and load capacity before placing the sample.
- Check the angle measurement arrangement before routine testing.
- Keep inspection, setup and measurement records for traceability.
- Confirm the digital inclinometer and documentation configuration before quotation.

Calibration and Maintenance

- Check angle indication regularly according to laboratory procedure.
- Inspect the mechanical support structure and adjustment mechanism.
- Keep routine maintenance and verification records.
- Reconfirm the setup whenever platform configuration or sample type changes.

Product Distinction and Application Boundary

This product is intended for appliance stability evaluation on an inclined support surface. It should be selected when the laboratory needs an electrical appliance inclined plane tester for IEC 60335-1 related stability assessment. The exact sample suitability should still be confirmed according to the applicable appliance category and relevant IEC 60335 Part 2 requirements.

Technical Inquiry and Expert Support

KingPo supplies IEC 60335-1 stability test equipment for appliance inclined plane testing. Our engineering team can review your standard clause, sample dimensions, load condition, angle requirement and laboratory setup to help identify the appropriate configuration.

Please Provide the Following Information

- Applicable standard: IEC 60335-1 edition and related product standard
- Appliance type: floor-standing, tabletop, countertop or other appliance
- Sample dimensions: width × depth × height and required orientation
- Test-condition weight: including water, load or accessories if applicable
- Required inclination range and preferred adjustment method
- Documentation needs: datasheet, inspection record or other laboratory documentation

Product Page



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