



Electrical Safety Test Equipment

IEC 60335-1 Clause 22.16 Automatic Cord Reel Endurance Tester

KP6550 Product Catalogue

Pneumatic laboratory test equipment for repeated cord withdrawal and automatic retraction endurance testing of household and similar electrical appliance cord reels.

IEC 60335-1

PNEUMATIC

KP6550



Standard

IEC 60335-1 Clause 22.16

Test Object

Automatic cord reels of household and similar appliances

Drive Mode

Pneumatic withdrawal

Cycle Control

0-9999 preset cycles with automatic stop

Product Overview and Test Architecture

The KP6550 is a pneumatic endurance test system for automatic cord reels used in household and similar electrical appliances. It repeatedly withdraws the flexible cord while the sample's own reel mechanism performs retraction, supporting controlled IEC 60335-1 Clause 22.16 laboratory evaluation.

Standard-oriented test scope

Designed around the automatic cord reel endurance test in IEC 60335-1 Clause 22.16. Confirm the applicable edition, national adoption and Part 2 standard for each project.

Pneumatic cord withdrawal

The pneumatic drive performs repeated cord withdrawal while the sample's own reel mechanism completes the retraction action.

Adjustable test motion

Published settings include 5-30 cycles/min test speed, 30-70 degree withdrawal angle and up to 1000 mm adjustable stroke.

Cycle control and sample fixture

Preset counting from 0 to 9999 cycles with automatic stop. Quick-clamping fixture and work surface support sample positioning.

KP6550

Automatic Cord Reel Endurance Tester



PNEUMATIC WITHDRAWAL

ADJUSTABLE MOTION

Functional Test Flow

1 Mount Sample

Secure the appliance or reel assembly.

2 Set Motion

Confirm stroke, angle, speed and cycles.

3 Withdraw Cord

Pneumatic mechanism pulls the cord.

4 Automatic Recoil

The sample reel retracts the cord.

5 Inspect Result

Check cord, conductors and contacts.

Detailed Technical Specifications

The following parameters summarize the published catalogue-level configuration. Final sample compatibility, electrical supply and fixture arrangement should be reviewed against the applicable standard, appliance construction and laboratory setup.

Standard and Test Scope

Product model	KP6550
Applicable standard	IEC 60335-1 Clause 22.16
Test object	Automatic cord reels of household and similar electrical appliances
Test purpose	Repeated cord withdrawal and automatic retraction endurance testing
Drive mode	Pneumatic
Retraction method	Sample's own automatic reel mechanism

Installation and Sample Mounting

Sample mounting	Large work surface with quick-clamping arrangement
Published power supply	AC 220 V, 50 Hz
Compressed-air supply	5-7 kgf/cm2
Utilities	External compressed-air source and suitable electrical supply
Fixture review	Confirm sample size, weight, outlet position and reel structure

Test Motion and Control

Published speed range	5-30 cycles/min, adjustable
Clause test rate	30 cycles/min, or the maximum rate permitted by reel construction if lower
Preset cycle range	0-9999 cycles
Cycle completion	Automatic stop when the preset count is reached
Withdrawal angle	30-70 degrees, adjustable / preset
Withdrawal stroke	Maximum 1000 mm, adjustable
Fixture	Quick-clamping fixture

Technical Note

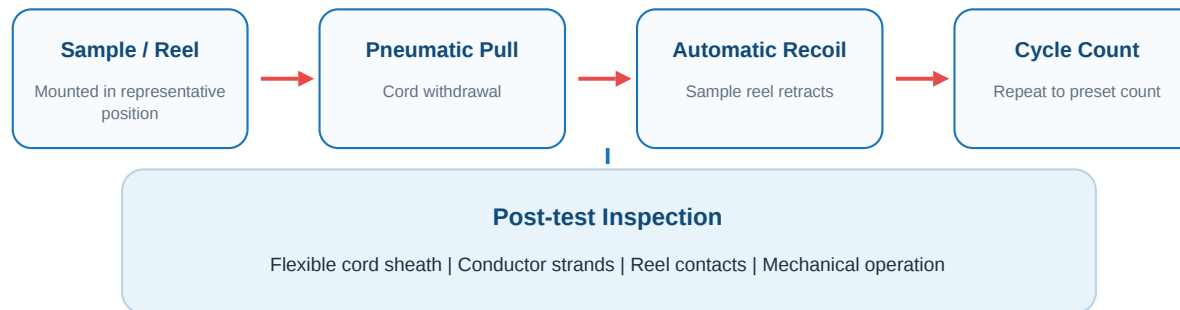
The published product page contains unrelated legacy fields in its general detail section. This catalogue uses the product-specific Clause 22.16 description and parameter block only. Final supply voltage and sample fixture should be confirmed in the quotation.

Clause 22.16 Test Method and Evaluation Focus

The test reproduces repeated extension and automatic recoil of an appliance cord reel. The machine controls the withdrawal motion; the sample reel performs retraction. Post-test inspection is completed according to the applicable standard edition and laboratory procedure.

Automatic Cord Reel Test Motion Concept

Representative functional path for IEC 60335-1 Clause 22.16 endurance testing

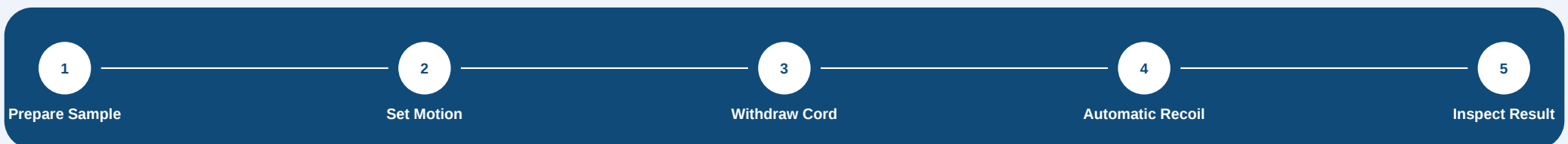


Core Evaluation Focus

- Undue abrasion or damage to the flexible cord sheath
- Breakage of conductor strands
- Undue wear of electrical contacts

Setup Notes

- Confirm applicable IEC edition, national adoption and relevant Part 2 standard.
- Mount the sample in a representative normal-use orientation.
- Set withdrawal direction, stroke, speed and cycle count for the test procedure and reel construction.
- Ensure the reel retracts correctly throughout the endurance sequence.



Equipment Views and Adjustable Test Settings

Multiple product views help laboratories review the machine structure, sample work area and installation arrangement. Images are catalogue references; final appearance should follow the confirmed machine configuration.



Front View

Control panel, work surface and withdrawal mechanism



Oblique View

Machine depth, cabinet structure and long withdrawal arm



Slight High-Angle View

Fixture posts, sample work area and top arrangement



Rear View

Clean rear enclosure, ventilation and single power connection

5-30 cycles/min

Published adjustable speed

30-70 degrees

Withdrawal angle

Up to 1000 mm

Adjustable stroke

0-9999 cycles

Preset cycle range

Applications, Configuration Review and Product Distinction



Laboratory application scene

Product Distinction

- **Cord Reel Endurance Tester**

Repeated extension and automatic retraction of the complete reel system.

- **Supply Cord Flexing Tester**

Repeated bending at a defined cord entry or connection position.

- **Cord Anchorage Tester**

Pull and torque evaluation of supply-cord retention.

Typical Users

- Household appliance manufacturers and OEM/ODM factories
- Internal compliance and product safety laboratories
- Third-party testing and inspection organizations
- R&D and reliability evaluation teams

What to Confirm Before Quotation

- Applicable IEC edition, national adoption and relevant Part 2 standard
- Appliance type; complete appliance or separate reel assembly
- Sample dimensions, weight, total cord length and withdrawable cord length
- Cord outlet position, direction and normal-use orientation
- Required withdrawal distance, angle, speed and cycle count
- Local power supply, available compressed-air pressure and fixture requirements

Function Boundary

The published base configuration is intended for mechanical endurance operation. Electrical loading, continuity monitoring or automatic failure detection should be confirmed separately if required.

Technical Inquiry and Expert Support

KingPo supplies automatic cord reel endurance test equipment for IEC 60335-1 Clause 22.16 applications. Our engineering team can review the applicable test clause, sample construction, fixture arrangement, withdrawal motion and laboratory utilities before quotation.

Please Provide the Following Information

- **Applicable standard:** IEC 60335-1 edition, national adoption, relevant Part 2 standard or internal test procedure
- **Test object:** Appliance type and whether the sample is a complete appliance or separate cord reel assembly
- **Sample data:** Dimensions, weight, total cord length, withdrawable cord length and cord outlet position
- **Test requirement:** Withdrawal distance, angle, operating speed, cycle count and intended compliance or development test
- **Fixture requirement:** Sample photographs or drawings showing the reel arrangement and normal-use orientation
- **Laboratory utilities:** Local electrical supply and available compressed-air pressure
- **Documentation:** Inspection, acceptance, calibration or user-document requirements to be confirmed

Product Page



Scan the QR code to open the online product page and review the published equipment information.

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Catalogue specifications are subject to final configuration and project confirmation.