



Household Appliance
Safety Test Equipment

UL 923 Microwave Oven Door Test Equipment

Product Catalogue

Manual spring-force equipment for microwave oven door opening, closing and mechanical loading procedures associated with UL 923 Clause 40.2. Four selectable force configurations support consistent laboratory test setup.

66 N

89 N

133 N

222 N



Standard reference

UL 923 Clause 40.2

Primary purpose

Microwave door force testing

Available forces

66 / 89 / 133 / 222 N

Construction

Stainless-steel manual device

Product Overview and Functional Principle

The UL 923 Microwave Oven Door Test Equipment provides a controlled mechanical force through a spring-loaded stainless-steel body. It is intended for laboratory procedures that evaluate the microwave oven door assembly under specified force conditions.

Four selectable force options

Available configurations are 66 N, 89 N, 133 N and 222 N. Select the required version according to the applicable test procedure.

Manual spring-force application

The operator positions the contact head at the required location and applies the test force through the spring mechanism without electrical power.

Stainless-steel construction

The slim metal body is suitable for repeated handling in appliance laboratories and allows access to the microwave door area.

Standard-oriented laboratory use

Designed for UL 923 microwave oven door opening, closing and mechanical loading test applications associated with Clause 40.2.



Representative product set

Typical Test Flow

1 Confirm clause

2 Select force

3 Position device

4 Apply load

5 Evaluate door

Technical Specifications and Configuration

Only confirmed catalogue-level data are listed. Dimensions, force tolerance, travel and calibration interval should be confirmed against the final selected configuration and laboratory quality procedure.

Confirmed Product Data

Parameter	Confirmed specification
Product name	UL 923 Microwave Oven Door Test Equipment
Standard reference	UL 923 Clause 40.2
Test application	Microwave oven door opening, closing and mechanical force testing
Force configurations	66 N / 89 N / 133 N / 222 N
Spring constant	1.05 N/mm
Main construction	Stainless steel
Operating method	Manual mechanical operation; no electrical power required
Product documentation	CE product certificate available

Force Selection Guide

Available option	Selection basis
66 N	Select when required by the applicable procedure.
89 N	Select when required by the applicable procedure.
133 N	Select when required by the applicable procedure.
222 N	Select when required by the applicable procedure.

Configuration Note

The four force versions are selectable configurations rather than an automatic multi-force program. Confirm the required force value or requested set before purchase. Higher-force fixtures, microwave leakage survey meters and other related laboratory equipment are separate products.

Technical accuracy statement

The test clause, force value, point of application, direction, duration and acceptance criteria must be taken from the laboratory's controlled copy of the applicable UL 923 edition. This catalogue does not replace the standard.

Microwave Oven Door Test Setup and Method

The device is positioned so the applied force follows the direction and location defined by the test procedure. The operator should stabilize the equipment and avoid unintended side loading.



Representative use image. Exact contact position and loading sequence depend on the applicable test procedure.

Handling note

Keep the device axis aligned during loading. Avoid impact, bending or off-axis force that could affect repeatability.

1 Confirm test scope

Verify the UL 923 edition, Clause 40.2 requirement and laboratory method.

2 Select force version

Use the 66 N, 89 N, 133 N or 222 N configuration specified for the test.

3 Prepare the sample

Place the microwave oven in the required condition and provide stable support.

4 Align the contact head

Position the white contact pad at the defined door location and along the loading axis.

5 Apply and assess

Apply the force as specified, then document door operation and the required acceptance result.

Product Construction and Laboratory Applications

The compact mechanical design focuses on controlled force application, convenient positioning and straightforward use in appliance safety laboratories.



Contact pad

White front pad provides the contact surface at the selected door location.



Guide and loading rod

The front guide collar supports axial movement of the slim loading rod.

Spring-force body

Internal spring behavior provides the selected nominal force configuration.

Mechanical latch

The side mechanism supports controlled manual handling during the test setup.

Typical Users and Test Environments

● Microwave oven manufacturers

● Household appliance safety laboratories

● Third-party testing and certification organizations

● Quality inspection institutions

● Product R&D and compliance engineering

Compliance and Regulatory Assurance

KingPo supplies the equipment as a laboratory test tool for the referenced application. Compliance conclusions remain the responsibility of the testing laboratory and must be based on the applicable standard edition, controlled procedure and recorded test results.

Standard reference

Catalogue scope is based on UL 923 Clause 40.2 microwave oven door testing. Confirm the current standard edition and exact test sequence before formal evaluation.

Product documentation

A CE product certificate is available. Requested inspection, calibration or traceability documentation should be agreed according to the selected configuration.

Scope of compliance claim

The reference to UL 923 identifies the intended test application. It does not state that the equipment itself is UL Listed or that use of the tool alone establishes product compliance.

Laboratory Quality Considerations

- Confirm force version and identify the device in the laboratory asset register.
- Inspect the contact pad, loading rod, guide collar and mechanical latch before use.
- Apply the laboratory's verification and calibration policy to the selected force device.
- Record the standard edition, clause, sample condition, loading point and result.
- Retain relevant certificates and inspection records for test traceability.



Related equipment supplied separately

Microwave leakage survey meters, additional fixtures and other appliance test equipment are not included with this mechanical force device unless stated in the quotation.

Technical Inquiry and Expert Support

KingPo can review the intended test clause, required force configuration and related documentation before quotation. This helps align the supplied equipment with the laboratory's microwave oven door test procedure.

Project Evaluation Checklist

- 1 Applicable standard**
UL 923 edition and Clause 40.2 test requirement
- 2 Required configuration**
66 N, 89 N, 133 N, 222 N or a requested combination
- 3 Test sample**
Microwave oven type, door construction and intended loading location
- 4 Laboratory procedure**
Loading direction, duration and acceptance criteria used by the laboratory
- 5 Documentation**
CE product certificate and any requested inspection or traceability records
- 6 Related equipment**
Microwave survey meter, fixtures or other appliance test equipment if needed



Product Page



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