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# FRIABILITY TESTER TORONFRI™ 2L

Friability Tester ToronFRI™ 2L is a compact and precise device designed for tablet durability testing, compliant with USP, Ph. Eur, and IP standards. It features dual drums, a wide timer range (1 second to 9 hours, 59 minutes, 59 seconds), and supports up to 9,999 revolutions. With a 24x2 character LCD, automatic sample discharge, and memory retention for protocols, it ensures seamless operation. Its ergonomic design includes front-loading drums, secure engagement, and automatic positioning for efficient testing. Powered by 230V or 110V, it's ideal for rigorous quality control in tablet manufacturing.

## APPLICATIONS

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### Drums & Types

The Friability Tester is compatible with two drum types:

1. **USP Standard Drum**
2. **Abrasion Drum** (designed for more detailed testing of tablet and coating durability)

### Snap-Lock Mechanism

1. A **TM Snap-Lock knob** securely holds single or double drums in place.
2. Ensures ergonomic handling and reliable operation.

### Modes of Operation

The test can be conducted in two modes:

1. **Timer Mode**
2. **Counter Mode**

## **Standard accessories**

Friability Tester ToronFRI-2L

### **Friability drum**

EF-1W Part no – 0402A00009

Position A – 0402A00012

Position B – 0402A00013

Friability Tester ToronFRI-2L

### **Tablet collection SS drawer**

Position A – 0403A00001

Position B – 0403A00003

## **Optional accessories**

Friability Tester ToronFRI-2L

### **Abrasion drum**

Part no – 0402A00008

## FEATURES

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- **Compliance:** Meets USP, Ph. Eur, and IP standards.
- **Automatic Discharge:** Test samples are automatically transferred to individual trays.
- **Effortless Loading:** Samples can be loaded into the drum without removing it.
- **Innovative Design:** Features a unique front-loading drum system.
- **Secure Operation:** Positive drum engagement with the drive ensures no slippage.
- **Tilt Adjustment:** The drum tilts 10° with the bench top, as specified by USP.
- **Data Management:** Stores protocols for up to ten different drugs.
- **Convenient Positioning:** Automatically positions the drum for loading new samples.
- **Memory Retention:** Retains programmed values, even after power loss.
- **Power Recovery:** Detects power failure and resumes tests seamlessly when power is restored.

## TECHNICAL SPECIFICATIONS

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| Model        | EF-2L                          |                                |
|--------------|--------------------------------|--------------------------------|
| Product code | 230 Volts                      | 110 Volts                      |
|              | M.S.: 0420500<br>S.S.: 0440500 | M.S.: 0410500<br>S.S.: 0430500 |
| No. of drums | 2                              |                                |
| Speed        | 25 RPM                         |                                |
| Accuracy     | ± 1 RPM                        |                                |

| Model                  | EF-2L                                                                           |
|------------------------|---------------------------------------------------------------------------------|
| Timer                  | 1 sec to 9 hrs. 59 min 59 sec                                                   |
| Count                  | 1 to 9999 revolutions                                                           |
| Display                | 24 x 2 character LCD                                                            |
| Printer Interface      | --                                                                              |
| PC Connectivity        | --                                                                              |
| Electrical power       | 220/230 V AC $\pm$ 10%, 50 Hz, 18 VA<br>100/110 V AC $\pm$ 10%, 50/60 Hz, 18 VA |
| Dimensions (W x H x D) | 350 mm x 430 mm x 310 mm                                                        |
| Weight                 | 12 kg                                                                           |



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