

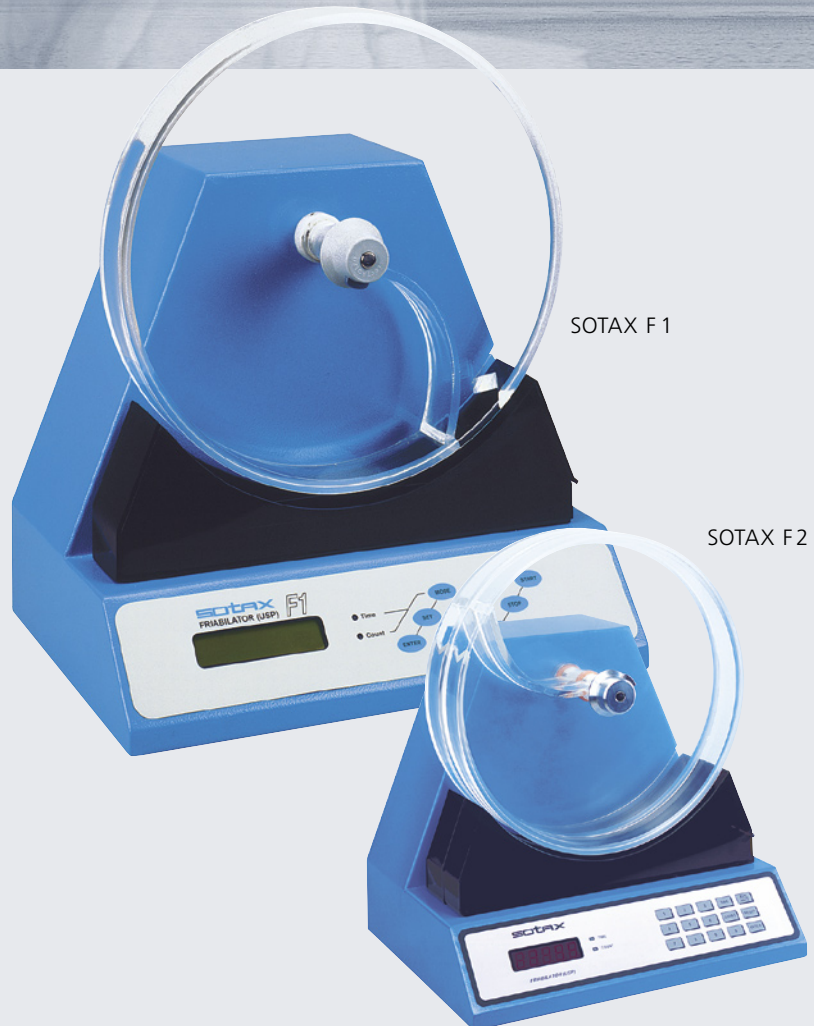
F1 and F2

Automated and Manual Friability Testing with the SOTAX F 1/F 2



- The microprocessor-controlled SOTAX F 1 and F 2 meet USP, EUR, DAB pharmacopeial requirements
- Counter and timer modes of operation
- Unique loading system resets automatically for new samples
- In-situ filling of samples into the drum
- Post-run samples are automatically discharged without removing the drum
- As per USP, it comes with 10° tilt built into the base of the instrument
- Built-in LCD display
- Supports abrasion drum

Our design fits everywhere



SOTAX F 1

SOTAX F 2

The Friability Testers built with unique front loading and automatic discharge system

SOTAX

Technical data

Speed	
F 1:	20 – 50 rpm
F 2:	25 rpm
Speed accuracy	
F 1/F 2:	± 0.5 rpm
Time range	
F 1/F 2:	1 sec to 9 h 59 min 59 sec
Count range	
F 1:	1 to 9,999 revolutions
F 2:	1 to 99,999 revolutions
Drums	
F 1:	one
F 2:	two
Drum Type	
F 1:	Drum with automatic dispensing slot (USP compliant)
F 2:	Double drum with automatic dispensing slot (USP compliant)
Power	
F 1/F 2:	230 V/50 Hz or 115 V/60 Hz
Width/depth/height	
F 1:	345/270/435 mm (13.58/10.63/17.13 in)
F 2:	350/310/412 mm (13.78/12.20/16.22 in)
Weight	
F 1:	10.6 kg (23.37 lb)
F 2:	12 kg (26.46 lb)

Order information

Part #	Description
SOTAX F 1	Single-drum friabilator:
Y600 – 0110	230 V/50 Hz
Y600 – 0120	115 V/60 Hz
SOTAX F 2	Dual-drum friabilator:
Y600 – 0010	230 V/50 Hz
Y600 – 0020	115 V/60 Hz
Y600 – 0026	Friability drum
Y600 – 0025	Abrasion drum

SOTAX F 1 and F 2 key hardware features

The SOTAX Friability Testers F 1 and F 2 have a unique front loading system. A snap-lock knob holds the automatic dispensing drum in position. The drums are designed to engage with the drive to prevent any slippage. When the instrument is switched on, the drum is automatically positioned for tablet loading. The opening in the drum allows the tablets to be loaded without removing the drum. At the end of the test, the drum counter-rotates to automatically discharge the samples into the tray used for weighing.

A 10° tilt of the drum is provided by an adjustment in the base of the instrument. This is used for tablets larger than 13 mm in diameter to prevent irregular tumbling, causing non-reproducible results. The drum is rotated by a maintenance-free drive with a constant speed of 25 rpm for the F 2 and a variable speed between 20–50 rpm for the F 1. With the F 1, a report can be printed at the end of the test as per GMP/GLP requirements and includes the test parameters, test results variance during test, actual time and date for the test performed. It also includes serial number of the instrument along with the entry fields for user name and product details. The special designed drive provides gentle starting and stopping of the drum.

Tests can be performed in two different modes:

- Time
- Count

The value once programmed for either of these modes are retained in the memory. The set value can be modified during the test by stopping the instrument. The functionality of SOTAX Friability Testers is not affected by power failure. In the event of a power failure when the test is in progress, the remainder of that test is completed upon power resumption.

Automated friability testing with the SOTAX F 1

- RS-232 serial interface for a balance
- Parallel interface for a printer
- Percent-friability is automatically calculated and displayed
- Variable speed from 20 to 50 rpm
- One friability drum included

Manual friability testing with the SOTAX F 2

- Supports two front loading drums
- Two friability drums included

Validation and qualification

The SOTAX Friability Testers meet all USP, EUR and DAB pharmacopeial requirements. The hardware as well as the system software have been validated and documented according to the latest quality guidelines (DQ). The appropriate qualification documentation (IQ/OQ) can be supplied with each system. If required, system validation and qualification can also be carried out in the customer's laboratory by SOTAX staff or SOTAX agents.