

WYZENBEEK

Oscillatory Abrasion Tester

Controlled oscillatory cylinder testing for woven and upholstery fabrics.



4

TEST STATIONS

90 ± 1

DOUBLE RUBS / MINUTE

ASTM D4157

TEST METHOD

Adjustable specimen tension and pad force • Touchscreen control • Lint and dust extraction

CONTROLLED ABRASION. COMPARATIVE RESULTS.

Designed around the ASTM D4157 oscillatory cylinder test method, the instrument evaluates abrasion behaviour of woven and upholstery fabrics under controlled specimen tension, pad force and rubbing action.

OPERATING PRINCIPLE

- 01** Secure specimens in the front and rear clamps; adjust tension and pad force separately.
- 02** The common cylinder, covered with abradant, oscillates back and forth. One return cycle equals one double rub.
- 03** The machine stops at the preset count; inspect specimens using the selected evaluation criterion.

TECHNICAL SPECIFICATIONS

Test method	ASTM D4157 - oscillatory cylinder
Test stations	4; independent tension and pad-force adjustment
Oscillation travel	76 ± 2 mm arc length at the cylinder surface
Test rate	90 ± 1 double rubs/minute
Specimen size	73 × 245 mm
Pressure pad	50 × 50 mm (±1 mm); contoured sponge rubber
Tension mechanism	340 g sliding mass; adjustable up to 26.7 N
Pad-force mechanism	150 g sliding mass; adjustable up to 15.575 N
Upholstery test setting*	17.8 N specimen tension / 13.4 N pad force
Abradant options	#10 cotton duck or wire screen
Control panel	4.3-inch touchscreen PLC/HMI
Cycle control	Preset double-rub counter with automatic stop
Lint and dust extraction	Two slotted vacuum pipes
Body and protection	Coated metal body, clear cover, emergency stop

* Setting for upholstery applications. Select tension, pad force and abradant to suit the applicable test conditions.