

ROTARY ABRASER

MODEL 5135, 5155



Wear and Abrasion Testing

Taber abrading wheels produce characteristic rub wear action

Mounted to a rotating turntable, specimens are subjected to the rub-wear action of two abrasive wheels. Driven by the test sample, the wheels produce abrasion marks that form a pattern of crossed arcs over a circular ring approximately 30 square centimeters. This reveals abrasion resistance at all angles relative to the weave or grain of the material.

Referenced in numerous international test standards and specifications

Simple to operate, this instrument has been accepted worldwide as a standard for wear and abrasion research, quality and process control, materials evaluation, and product development. Rotary Abrasers are capable of providing reliable data in a matter of minutes, compared to the years that may be required with in-use testing.

Test a wide range of products

The Taber Abraser can be used to test virtually any flat specimen. Its field of application has included tests of: painted, lacquered, powder coated, and electroplated surfaces; textile fabrics ranging from sheer silks to heavy upholstery and carpeting; and solid materials such as metals, stone and ceramics. Other materials include paper, glass, plastics, leather, rubber, linoleum, laminates, plus many others.

Applications

Ceramics, Plastics, Vinyl, Textiles, Glass, Waxes, Metals, Leather, Rubber, Flooring and Painted Surfaces, Lacquered and Electro-Plated Surfaces

Standard Features

- Platform speeds 60 and 72 rpm
- Digital LED readout with data storage
- Unique "X" pattern showing wear from any angle
- Quick Release Wheel Hub
- Balanced, calibrated arms and wheel mounts
- Vacuum system with precision height adjustment
- Rugged aluminum housing
- Membrane control panel with digital display
- Precision stainless steel weights
- Accessory electrical receptacle
- Conforms to various ASTM, DIN, EIN, ISO, JIS, ML, NEMA, NF, SAE, TAPPI, and UNE specifications

Available in Two Versions

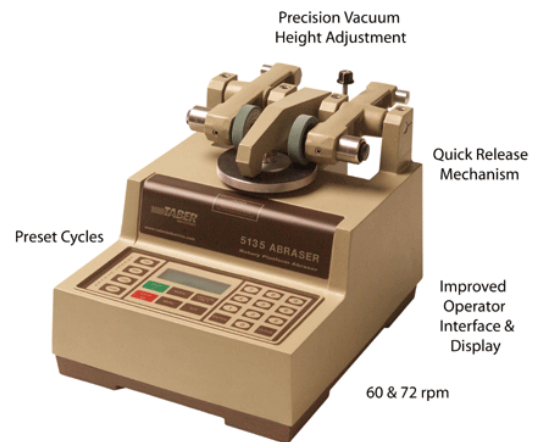
The Rotary Abraser (Abrader) is available in two models - single or dual specimen tables. Both offer the same durable design and can be used interchangeably. With the introduction of the model 5135 and 5155, Taber Abrasers are now available as 115/230V; 60/50Hz switchable and offer many new features.

Single Platform Rotary Abraser (Abrader) - Model 5135 features a single specimen turntable.

Dual Platform Rotary Abraser (Abrader) - Model 5155 features a dual specimen turntable, which allows you to perform two tests simultaneously (test two different or identical specimens for comparison or contrast). Separate function keys operate the turntables independent of each other.



Model 5155 Shown
Dual Platform



Model 5135 Shown
Single Platform

ROTARY ABRASION TESTERS

Test Description

Up to 1/2" thick specimens, are mounted to a rotating turntable and subjected to the wearing action of two abrasive wheels, which are applied at a specific pressure.

Characteristic rub-wear action is produced by contact of the test sample, turning on a vertical axis, against the sliding rotation of two abrading wheels. The wheels are driven by the sample in opposite directions about a horizontal axis displaced tangentially from the axis of the sample. One abrading wheel rubs the specimen outward toward the periphery and the other, inward toward the center. The resulting abrasion marks form a pattern of crossed arcs over an area approximately 30 square centimeters.

An important feature of the TABER® Abraser (Abrader) is the wheels traverse a complete circle on the specimen surface. This reveals abrasion resistance at all angles relative to the weave or grain of the material. Test parameters can be altered, which enables the user to determine the optimal setting for each product or material.

The Rotary Abraser allows you to select:

* Load

- Standard range includes 250g, 500g and 1000g
- Optional counter weights increase range to 75g, 125g, 325g, 375g, 825g and 875g

* Abradants

- Wide selection of Taber wheels available (resilient or vitrified)
- Specialty wheels
- Custom formulations

* Vacuum level

- Programmable from keypad
- Adjustable vacuum nozzle clearance
- Range from 50% to 100%

* Test Duration

- Programmable up to 50,000 cycles

* Conditions

- Wet or dry

Taber Rotary Abraser Includes

Auxiliary Weights 500g load & 1000g load
Specimen Holder (E100-125)
Hold Down Ring (E-100-101)
Refacing Discs (S-11)
Specimen Mounting Card Sample Package (S-36)
Calibrade® Abrading Wheel Set (CS-10)
Calibrade® Abrading Wheel Set (H-18)
Vacuum Unit with Suction Hose & Round Brush

Optional Accessories (sold separately)

Calibration / Verification Kit
Sample Cutter
Wheel Refacer
Quiet Cabinet
Grit Feeder
Scuffing Head Attachment
Multi-Media Attachment
Interchangeable Specimen Tables
Arm Height Extension Kit
Selection of Abrading Wheel Sets
Test Accessories, Haze Kit

Ordering Information

Rotary Abraser single head model 5135
Catalog number 10-48-00-0001

Rotary Abraser dual head model 5155
Catalog number 10-49-00-0001

Instrument Size

Model 5135 Single Platform

Dimensions D x W x H: 406 x 279 x 254 mm
(16 x 11 x 10 in) Weight: 20 kg (45 lb.)

Model 5155 Dual Platform

Dimensions D x W x H: 356 x 508 x 254 mm
(14 x 20 x 10 in) Weight: 41 kg (90 lb)

Connections

Electrical: 110/220V 50/60Hz operational

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