

RECIPROCATING ABRASER MODEL 5900



Wear and Scratch Testing

Unique design ensures simple instrument set-up

Test specimens are mounted to a sliding platform that moves in a horizontal, reciprocating motion under a stationary tool holder. A counterweight enables the operator to balance the test arm prior to applying the test load, thus ensuring the exact load will be applied. An adjustable gantry allows the test system to be positioned according to the height of the specimen. Test parameters such as stroke length, speed, and load are adjustable.

Optional attachments provide versatility to satisfy numerous test requirements

Incorporated at the end of the test arm is a tool holder to which optional attachments and weights are secured. Ideal for flat surfaces, the Taber Reciprocating Abraser can be configured to evaluate the susceptibility of a material surface to abrasion, scratch, scrape, rub, plus many other physical properties. With optional accessories based on GM test methods, this apparatus will also test the abrasion resistance of textile specimens using various friction media.



Maximize testing time with extra test arm assembly kits

Using additional test arm kits (sold separately), the Taber Reciprocating Abraser can test up to three specimens simultaneously to increase technician output or compare different product formulations at the same time.

Test Procedure

The Taber® Reciprocating Abraser (Model 5900) includes a counterbalanced arm which pivots on an adjustable height gantry system. The counterweight allows the user to balance the test arm, ensuring precise test load set-up regardless of the attachment. Incorporated at the end of the arm is a tool holder to which optional attachments and weights may be secured. A sliding specimen platform moves in a horizontal, reciprocating motion under the tool holder. Test parameters such as stroke length, speed and load are adjustable so optimal settings for each material can be established.

Stroke Length: 6 – 155mm (0.25” – 6”)

Speed: 3 – 75 cycles per minute

Test Load: 1N – 24N max (supplied weights include 1, 2, 2.5, 5, 10 & 24N)

Standard Features

- Adjustable stroke length (6 mm to 155 mm)
- Variable stroke speed (3 – 75 cycles per minute)
- Test load (1N – 24N with optional weight discs)
- Variable height adjustment (130mm maximum)
- Wearaser® Collet for vitrified or resilient Wearasers
- Counterweight balanced
- Programmable up to 999,999 cycles
- 115V / 230V switchable

Reciprocating Abraser Includes

- Testing Arm Assembly (1 set)
- Weight Set, 6 Piece (1N, 2N, 2.5N, 5N, 10N, 24N)
- Stainless Steel Wearaser Collet
- CS-10 Wearasers (pkg. 10)
- H-18 Wearasers (pkg. 5)
- Wearaser Depth Gauge Tool
- S-14 Refacing Strips (pkg. 50)
- Specimen Clamp (set of 2)
- Hex L-Key (set of 6)
- Hand Brush

