

# Reciprocating Abraser 5900

**TABER**<sup>®</sup>  
INDUSTRIES  
ISO 9001:2000 CERTIFIED

## 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.



# Reciprocating Abraser 5900

## Wear and Scratch Testing

### Standard Features:

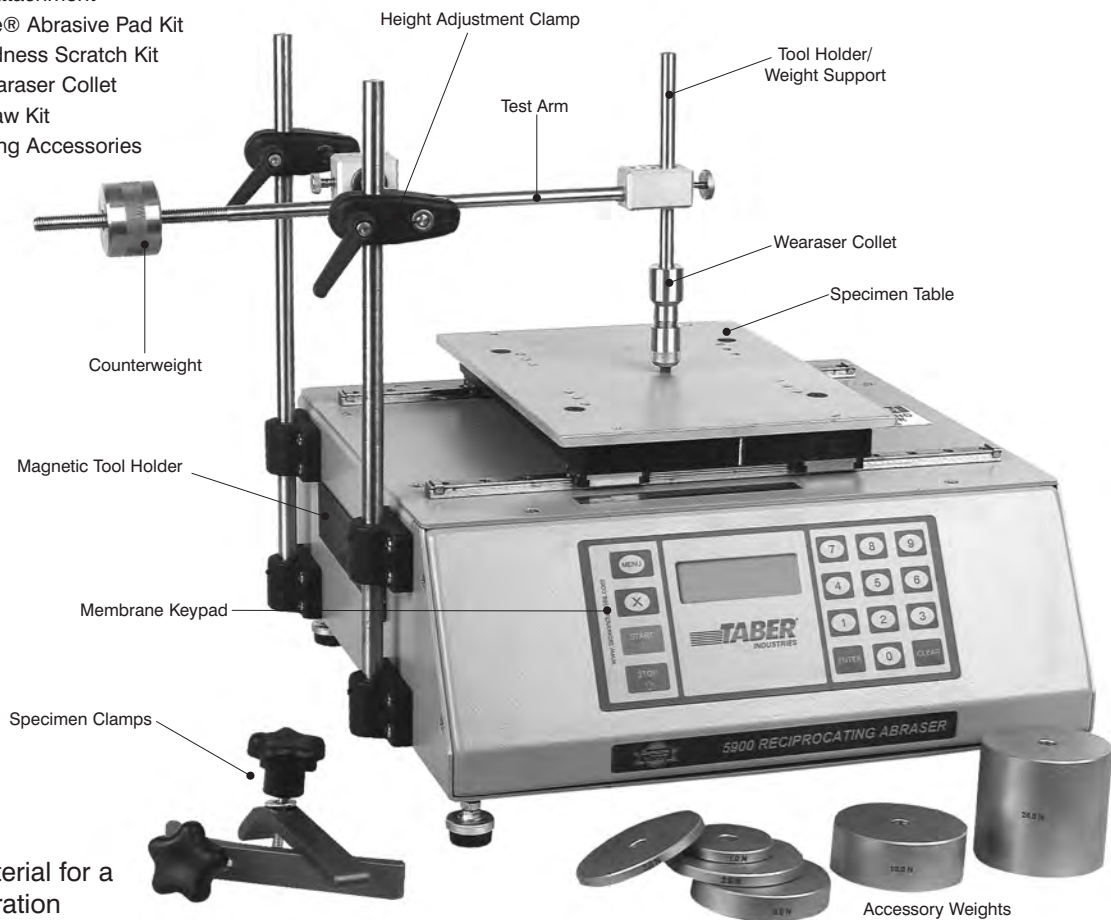
Adjustable stroke length (6 mm to 155 mm)  
Variable stroke speed (3 – 75 cycles per minute)  
Test load (1N – 24N with optional weight discs)  
Variable height adjustment (130 mm maximum)  
Wearaser® Collet for vitrified or resilient Wearasers  
Counterweight balanced  
Programmable up to 999,999 cycles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

### Optional Accessories (sold separately):

Additional Testing Arm Kit  
Wide selection of abrasants:  
Calibrase® CS-8, CS-10F, CS-10, CS-17  
Calibrade® H-10, H-18, H-22, H-38  
Scratch Tips (various configurations)  
Multi-Mar Scratch Attachment (45° or 90°)  
Universal Attachment  
ScotchBrite® Abrasive Pad Kit  
Pencil Hardness Scratch Kit  
Jumbo Wearaser Collet  
Scratch Claw Kit  
GM Abrading Accessories

### 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



Send us your material for a product demonstration

**TABER**  
INDUSTRIES

Setting the Industry Standard

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# TABER® Reciprocating Abraser

## Optional Accessories



Utilizing interchangeable test attachments, the Taber Reciprocating Abraser can provide tremendous versatility for conducting scratch and abrasion tests. The below accessories are currently offered or Taber can develop a custom attachment to satisfy your testing needs.

Auxiliary Weights		Wear & Abrasion Attachments		Scratch / Mar Attachments	
134972	Auxiliary Weight, 50g	130852	Wearaser Collet Kit, <i>stainless steel</i>	133566	90° Multi-Mar Scratch, <i>w/ loop stylus</i>
134972-1	Auxiliary Weight, 100g	131862	Wearaser Collet Kit, <i>jumbo</i>	133136	45° Multi-Mar Scratch, <i>w/ loop stylus</i>
134972-7	Auxiliary Weight, 150g	130572	Universal Attachment, <i>stainless steel 25.4mm dia.</i>	135025	Needle Stylus <i>(for MultiMar Scratch)</i>
134972-2	Auxiliary Weight, 200g	135430	Universal Attachment, <i>aluminum 50.8mm dia.</i>	133139	Hoffman Stylus <i>(for MultiMar Scratch)</i>
134972-3	Auxiliary Weight, 500g	132735	Precision Knuckle Attachment	133178	Copper Coin <i>(for MultiMar Scratch)</i>
134972-4	Auxiliary Weight, 1000g	130570	Crockmeter Kit <i>16mm dia.</i>	135447-1	Stainless Steel Coin <i>(for MultiMar Scratch)</i>
134972-5	Auxiliary Weight, 2000g	134571	Crock Block Kit w/holder <i>19mm x 25.4mm</i>	133553	Conical Scratch Tip, <i>0.10mm diameter</i>
134932	Auxiliary Weight, 2400g	134550	Rectangular Crock Block, <i>40mm x 85mm</i>	133555	Conical Scratch Tip, <i>0.25mm diameter</i>
134972-6	Auxiliary Weight, 5000g	134298	Special Crock Attachment, <i>stainless steel; R10mm</i>	135167	Conical Scratch Tip, <i>0.30mm diameter</i>
133814-1	Auxiliary Weight, 1N	135681	Rubbing Adapter C, <i>requires Crockmeter Kit</i>	133557	Conical Scratch Tip, <i>0.40mm diameter</i>
133814-2	Auxiliary Weight, 2N	134656	10mm Padded Square Finger Attachment	133559	Conical Scratch Tip, <i>0.50mm diameter</i>
133814-3	Auxiliary Weight, 2.5N	134658	20mm Padded Square Finger Attachment	135166	Conical Scratch Tip, <i>0.60mm diameter</i>
133814-4	Auxiliary Weight, 5N	134985	Steel Wool Holder Kit	135243	Conical Scratch Tip, <i>0.75mm diameter</i>
133814-5	Auxiliary Weight, 10N	133432	ScotchBrite™ Abrasive Pad Kit	134622	Conical Scratch Tip, <i>1.0mm diameter</i>
133814-6	Auxiliary Weight, 24N	133423	Test Wedge Kit, per GMW14125 <i>includes SiC P320 sandpaper</i>	135193	Hemisphere Scratch Tip, <i>1.0 mm dia. – steel w/HRC 60 - 66</i>
133814-7	Auxiliary Weight, 46N	134184	Brass Brush Holder Attachment, per GMW14125	132347	Hemisphere Scratch Tip, <i>1.0mm dia. – tungsten carbide</i>
134977	Weight Kit per ASTM F2496 <i>100g, 2x 200g, 500g, 1000g</i>	133424	Spherical Ball Holder Attachment, per GMW14125	135627	Hemisphere Scratch Tip, <i>3.0mm dia. – tungsten carbide</i>
134978	Weight Kit per ASTM D5178 <i>500g, 1000g, 2x 2000g, 5000g</i>	135017	Renault Marking Tool, 22mm	132348	Hemisphere Mar Tip, <i>7.0mm dia. – tungsten carbide</i>
		135018	Renault Marking Tool, 17mm	134672	Hemisphere Mar Tip, <i>15.0mm dia. – tungsten carbide</i>
		133197	Magnetic Stripe Abrasion Kit	132892	Diamond Tool Holder, <i>w/ 90° conical diamond tool</i>
		134598	Ratcheting Felt Head Attachment	132910	Diamond Tool Holder, <i>w/ 60° conical diamond tool</i>
				134981	Diamond Tool Holder, <i>w/ 60° conical diamond tool</i>
				133475	Scraper, 5mm per GMW14125
				133476	Scraper, 10mm per GMW14125
				131716-1, -2 or -3	Coin Holder Kit, <i>45; 60; or 75 degree</i>
				133453	Pencil Hardness Scratch Kit
				134471	Ramp Kit to satisfy ISO 1518

### NOTES:

- One or two optional Test Arm Kit Assemblies (p/n 134176) may be added to increase the number of tests performed simultaneously.
- The Weight Support (p/n 133554) may be used in conjunction with any of the Linear Abraser Auxiliary Weight Discs (10g – 250g).
- Specimens must be secured to the specimen platform by means of clamps or optional fixtures.

