

# Gardner-scrub

**New!**

## Abrasion Scrub Tester

Coated and uncoated surfaces need to be tested for resistance to abrasion caused by a brush, sponge, scouring pad, sand paper, and other means. Abrasion resistance can be tested by wet abrasion methods using scrub media or cleaning solutions. The most common applications are testing the scrub resistance of interior wall paints, floor tiles, shower stalls, and furniture surfaces. The abrasion tester can examine the washability of a coated surface for the removal of stains. Detergents and cleaning solutions can be tested and evaluated in a reproducible manner.



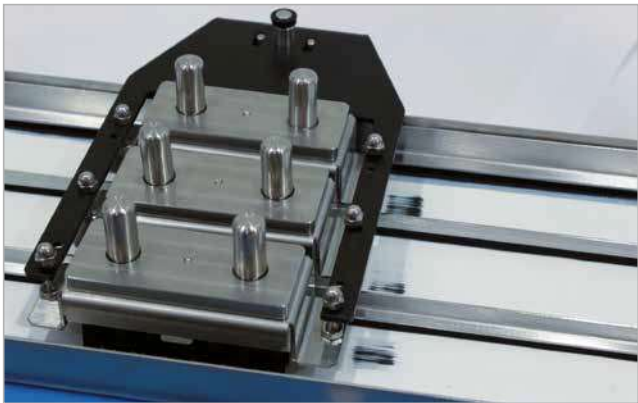
## Gardner-scrub Abrasion Tester

The Gardner-scrub abrasion tester offers a versatile design for abrasion and washability testing applications. The instrument arm is designed to hold from 1 - 3 brush holders. A large selection of accessories is available to customize your test requirements. An intuitive touch screen operation makes it easy to change test parameters. The Gardner-scrub has a durable chain drive mechanism for long-term reliable operation.



Gardner-scrub touchscreen display

- Reciprocating linear motion with a constant speed over the travel distance for repeatable results
- Compact design saves on counter space
- Easy to use touch screen display
- Instrument arm holds up to 3 brush or pad holders to increase output
- User selectable scrub rate from 6 - 60 cycle/minute
- Compliant with ASTM, DIN, and ISO methods with appropriate accessories
- Up to 4 kg (8.8 lbs) can be applied to the instrument arm
- Adjustable stroke length 22.9 - 27.9 cm (9 - 11 in.)
- Optional weighs for custom applications



Gardner-scrub three brush configuration with Lilly Frame

### Standards

<b>ASTM</b>	D1792, D2198, D2486, D3206, D3207, D3450, D4213, D4488, D4828
<b>ISO</b>	11998
<b>DIN</b>	53778, 13300
<b>Canadian Government Specification</b>	26-GP-3a
<b>Commonwealth of Pennsylvania Specification</b>	
<b>US Federal Specification</b>	P-C-431a, P-D-220A, P-R-201b, P-W-155, T-1279D, TT-P-18, TT-P-22, TT-P-23a, TT-P-26a, TT-P-29B, TT-P-30, TT-P-47a, TT-P-51d, TT-P-88a, TT-P-508
<b>FTMS</b>	141A, 6141, 6142
<b>US Military Specification</b>	MIL-C-3004, MIL-C-46057, MIL-E-11237, MIL-P-13340A, MIL-P-15422B
<b>US Navy Specification</b>	512C20C
<b>Rock Island Arsenal Specification</b>	RIX-268

Abrasion

**Labquip**  
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 TEL: (905) 475-5080 ext. 226  
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# Gardner-scrub Accessories

## Ordering Information

Cat. No.	Description
5060	Gardner-scrub, base
5061	Gardner-scrub, ASTM D2486
5062	Gardner-scrub, DIN 53778
5063	Gardner-scrub, ISO 11998

### Comes complete with:

#### Gardner-scrub, base

Instrument, Sample pan (5041), Power supply, Manual

#### Gardner-scrub, ASTM D2486

Base model (5060), 1-brush holder w/mat (5074), Nylon brush (5011), Lilly frame (5038), brass shim (6979), Glass panel (6980), scrub panels (5015)

#### Gardner-scrub, DIN 53778

Base model (5060), 1-Brush holder w/mat (5075), Hog Brush (5010), Pump (5037), Glass plate (6980), Scrub panels (5015)

#### Gardner-scrub, ISO 11998

Base model (5060), 1-Pad holder (5076), Scotch brite pads (5012), Glass plate (6980), scrub panels (5015)

### Note:

For two or three brush/pad operation additional accessories must be ordered separately.

## Technical Specifications

Comes with	
Instrument, Sample pan (5041), Power supply, Manual	
Base model (5060), 1-brush holder w/mat (5074), Nylon brush (5011), Lilly frame (5038), brass shim (6979), Glass panel (6980), scrub panels (5015)	
Base model (5060), 1-Brush holder w/mat (5075), Hog Brush (5010), Pump (5037), Glass plate (6980), Scrub panels (5015)	
Base model (5060), 1-Pad holder (5076), Scotch brite pads (5012), Glass plate (6980), scrub panels (5015)	
<b>Voltage</b>	100 - 240 V, 50/60 Hz
<b>Dimensions</b>	48.3 x 27.9 x 19.1 cm (19 x 11 x 7.5 in.)
<b>Weight</b>	14.5 kg (32 lbs)
<b>Scrub Rate</b>	6 - 60 cycles/minute
<b>Stroke Length</b>	25.4 cm (10 inch) standard setting* 22.9 cm (9 inch), 27.9 cm (11 inch) optional settings*

### \*Note:

Stroke length is measured from the center brush location. The stroke length measured from the brush end add 8.9 cm (3.5 inch) to the center stroke length. The optional stroke lengths must be set by instrument supplier.

## Ordering Information

Cat. No.	Description
5064	Accessory Kit, ASTM D 2486
5065	Accessory Kit, ISO 11998
5066	Accessory Kit, DIN 53778
5067	Accessory Kit, ASTM D 4213
5068	Accessory Kit, ASTM D 4828
5069	Accessory Kit, ASTM D 3450
5074	Brush Holder & Mat, ASTM
5075	Brush Holder and Mat, DIN
6979	Brass Shim
5011	Nylon Brush
5010	Hog Bristle Brush, DIN
5038	Lilly Frame
5037	Pump Assembly
5012	Scotch Brite Pads (pk of 50)
5076	Pad Holder

## Accessories

Information	
Includes: ASTM brush holder & mat (5074), Nylon brush (5011), Lilly frame (5038), Brass shim (6979), Glass plate (6980)	
Includes: Pad holder (5076), Scotch brite pads (pk of 50) (5012), Glass plate (6980)	
Includes: DIN Brush holder & Mat (5075), Hog Bristle brush (5010), Pump (5037), Glass plate (6980)	
Includes: Sponge Holder 450g (5072), Polyurethane sponge (5071), Scotch brite pad (5070), Lilly frame (5038), Glass plate (6980)	
Includes: Sponge holder 1000g (5073), Sponge (8116), Glass plate (6980)	
Includes: Sponge holder 1000g (5073), Weight 500g (5078), Sponge (8116), Glass plate (6980)	
Needed for ASTM D 2486, Dimensions: 1.5 x 3.5 inches (38.1 x 88.9 mm)	
Needed for DIN 53778	
Needed for ASTM D 2486	
Needed for ASTM D 2486	
Needed for DIN 53778	
Needed for ASTM D 2486; Designed for 1, 2, or 3 brush operation	
Needed for DIN 53778	
Needed for ISO 11998	
Needed for ISO 11998	



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## Additional Accessories

### Ordering Information

Cat. No.	Description
5072	Sponge Holder, 450g
5073	Sponge Holder, 1000g
5078	Weight, 500g
5079	Weight 1000g
8116	Sponge (pack of 6)
5077	Sponge, B (pack of 6)
5071	Sponge, Polyurethane (pack of 6)
5070	Scotch Brite Pad, ASTM
6980	Glass Plate
5041	Sample Pan
8129	Scrub Media, Abrasive 474 ml (1 pint)
8130	Scrub Media, Non-abrasive 474 ml (1 pint)
5015	byko-chart Black Scrub Panels P121-10N
5016	byko-chart White Scrub Panels, P122-10N
8113	Hog Bristle Brush, ANSI
8111	Hog Bristle Brush
8117	Sandpaper Attachment Kit
5058	Sandpaper Holder
8118	Weight, for Sandpaper Holder
2230	Dow Latex Applicator

### Accessories

Information
Needed for ASTM D 4213, Dimensions: 3.0 x 3.75 x 0.875 inch (76.2 x 95.3 x 22.2 mm)
Needed for ASTM D3450, D4828. Dimensions: 3 x 3.75 x 1.0 inch (76.2 x 95.3 x 25.4 mm)
Fits on top of Brush holders
Fits on top of Brush holders
Needed for ASTM D3450, D4828; Dimensions: 3.0 x 3.75 x 1.5 inch (76.2 x 95.3 x 38.1 mm)
Designed for Brush Holder 5074, Dimensions: 1.5 x 3.5 inch (38.1 x 88.9 mm)
Needed for ASTM D4213; 3.0 x 3.5 inch (76.2 x 95.3 mm)
Needed for ASTM D 4213, Dimensions: 3.0 x 3.75 inch (76.2 x 95.3 mm)
Needed for ASTM, ISO, DIN methods
Replacement; Comes standard with base model
Needed for ASTM D 2486
Needed for ASTM D 3450
Box of 100; Needed for ASTM, DIN, and ISO methods, Dimensions: 165 x 432 x 0.25 mm (6.56 x 17 x 0.01 in.)
Box of 100; Dimensions: 165 x 432 x 0.25 mm (6.56 x 17 x 0.01 in.)
Perforated back for ANSI method Z 124.1; Fits brush holder 5074
General use, 3.5 x 1.5 in. (8.9 x 3.8 cm); Fits brush holder 5074
Meets method MIL-E-11237 specification; Includes Sandpaper holder, Rubber mat, 10 yards (914 cm) x 2 inch (5.1 cm) of 1/0 and 3/0 emory cloth.
Designed to hold any flat, thin sheet or cloth-type material with a minimum sample size of 2 x 5 inch (50.8 x 127 mm). Weight: 1 lb (454 gm)
Weight: 3.5 lbs (1.59 kg)
Needed for ASTM D 2486.

## Ordering Information

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<b>Part No.</b>	<b>Description</b>	<b>Additional Information</b>
PB-8110	Brush Holder and Mat	Needed for ASTM D 2486; Holds brushes listed below; Dimensions 1.5 x 3.5 inches
PB-8111	Hog Bristle Brush	Non-perforated
PB-8112	Nylon Brush	Meets ASTM D 2486
PB-8113	Hog Bristle Brush	Perforated for ANSI method Z 124.1
PB-8115	Sponge Holder (7.6 x 9.5 cm)	Dimensions: 3 x 3.75 inches
PB-8116	Sponge	
PB-8129	Scrub Medium Abrasive, 1 pint	Needed for ASTM D 2486; Extremely uniform medium for performance of scrub tests; Simulates effect of commercial cleaning compounds; Abrasive medium contains silica for accelerating the tests.
PB-8130	Scrub Medium Non-abrasive, 1 pint	Needed for ASTM D 2486; Non-abrasive
PB-8119	Liquid Container	For containing wet solution for testing; 1200ml capacity; Comes with mounting stand
PB-8120	Lilly Frame	Needed for ASTM D 2486; For confining media to area of path of brush or sponge; Rubber gasket with adjustable width; Includes 4 "C" clamps; Length: 17.1 inches
PB-8121	Frame	Similar to Lilly Frame; Fixed path width for use with brushes only; Includes 4 "C" clamps
PB-8122	Brass Shim	Needed for ASTM D 2486; For attaching to middle of glass test plate under scrub panel; Dimensions: 6.5 in x 0.5 in x 10 mils