



Hands-Free Cleaning[®] **SWINGOBOT 1650**[™]

SCRUBBER - for hard surfaces

Ideal for Education | Retail | Healthcare | Manufacturing

A 29" (74 cm) disc scrubber. Improves cleaning consistency and reduces cleaning cost.



Cleaning just got easier:



Sensors provide a 360-degree view that allows scrubber to operate Hands-Free. Just prep, point and go.



Service components are easily accessible. Uses standard size industry brushes, pads and squeegees.



Uses up to 85% less water and cleaning solution per eight-hour shift. Accommodates most eco-friendly solutions.



No special training is required. The icon-based touchscreen prompts users through all functions, regardless of language or skill level.



Communicates with operator and generates detailed reports including login time, end of shift and areas cleaned.

The machines are operated by a unique icon-based touchscreen.



INTELLIGENT FEATURES

Main Computer	Monitors all functions; commands robot to perform stored cleaning routes
Drive Subsystem	Monitors and controls the robot's movement and position
Controls	Manual and autonomous
Navigation	15 sensors provide a complete, 360-degree view around robot
Front Touch Shield	Full width, ABS, touch-sensitive shield provides immediate braking
Rear Touch Shield	Full width, ABS, touch-sensitive shield provides immediate braking
Security	User-specific password protection to prevent unauthorized use
Safety Systems	Sonar obstacle detection, infrared floor sensors, touch shields, emergency stop button

SOLUTION RECYCLING SYSTEM

Solution Feed	Computer-controlled, adjustable flow rate to center of each brush
Solution Tank	Integral 14-gallon (53-liter) molded high-density polyethylene with easy-access lid
Recycling System	Four-stage automatic recycling system filters to 10 micron standard, 1 micron optional

BRUSHES AND SQUEEGEE

Pads	Two counter-rotating 15" (38.1 cm) drivers and pads; red and white pads available Machines accept any standard-sized brushes in place of pads
Brush Drive Motors	Two 24 VDC, 0.75 HP, 200 RPM, permanent magnet type, direct drive
Brush Head	Brushes/pads are changeable without removing head from machine
Scrubbing Width	29" (73.66 cm)
Scrubbing Pressure	100 lbs. (45.36 kg)
Squeegee	32" (81.28 cm), parabolic, self-centering swing style with plastic end rollers and quick change, four-edge, reversible gum rubber blade

DRIVE SYSTEM

Drive Motors	Two 24 VDC precision motors, built-in encoders, traction water displacement tread
Vacuum Motor	Single 67 CFM vacuum

PRODUCTION

Cleaning Rate*	Approximately 10,000 sq ft (approx. 929 sq m) per hour (avg.)
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BATTERY SYSTEM

Battery	Sealed gel cell deep cycle, 180 AH, 24 VDC output
Run Time	Approximately four hours
Optional Exchange Kit	Run time can be doubled with battery exchange kit that requires no heavy lifting
Charger Unit	20 amp, 24 VDC output, 115 VAC input with automatic shutoff

CONSTRUCTION

Frame	Powder-coated 5052 aluminum and stainless steel
Exterior	High-density, molded, seamless polyethylene
Machine Length	48" (121.92 cm)
Machine Width	32" (81.28 cm)
Machine Height	43" (109.22 cm)
Machine Weight	720 lbs. (326.6 kg)

ENVIRONMENT

Temperature	59° to 86° F (15° to 30° C) operation, -22° to 140° F (-30° to 60° C) storage
Humidity	20% to 75% relative humidity
Noise	65 dBA normal operation



* Cleaning rate may vary, depending on environment