



Hands-Free Cleaning[®]

DUOBOT 1850™

SWEEPER / SCRUBBER - for hard surfaces

Ideal for

Education | Healthcare | Retail | Warehouse | Manufacturing

Dual counter rotating brushes and large debris hopper allows DUOBOT 1850™ to thoroughly sweep and scrub in one pass.



Cleaning just got easier:



Sensors provide 360-degree view that allows sweeper/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.



Visit Handsfreecommercialcleaning.com or call **800.972.9622** to request a demo.



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
Vacuum Motor	Single 67 CFM vacuum

BRUSHES AND SQUEEGEE

Brushes	Two counter-rotating 25" (63.5 cm) cylindrical nylon bristle / plastic block, rotating at 800 RPM
Brush Drive Motors	Two 24 VDC, .5 HP, 200 RPM, permanent magnet type, belt drive
Brush Head	Brushes are changeable without removing head from machine
Debris Collection	1.15 gallon (4.4 L) molded high density polyethylene hopper
Scrubbing Width	25" (63.5 cm)
Scrubbing Pressure	50 lbs. (22.68 kg)
Squeegee	33.375" (84.77 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
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PRODUCTION

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

Battery Options	Sealed gel cell deep cycle, 180 AH, 24 VDC output
Run Time	Approximately four hours
Optional Exchange Kit	Double the run time with no heavy lifting using the optional battery exchange kit
Charger Unit	20 amp, 24 VDC output; available in 115 or 230 VAC input options

CONSTRUCTION

Frame	Powder-coated 5052 aluminum and stainless steel
Exterior	High-density, molded, seamless polyethylene
Machine Height	43" (109.22 cm)
Machine Width	32" (81.28 cm)
Machine Length	48" (121.92 cm)
Machine Weight	690 lbs. (312.9 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