

Minuteman **ES 2832** *Easy Scrub* *Automatic Scrubber*

Versatility.
Performance.

**One Innovative Design
Produces Four Versatile
Models. Choose From 28"
Or 32" Cylindrical Or
Rotary Disc Scrub Decks.**



Minuteman[®]

www.minutemanintl.com

Minuteman ES 2832 Easy Scrub Automatic Scrubber

Versatile Performer

With one chassis and four interchangeable scrub decks to select from, the ES 2832 Easy Scrub Automatic Scrubber provides four model choices in one machine. Adaptable to meet your cleaning needs, the ES 2832 is available with two sizes of interchangeable scrub decks in 28" or 32" coverage, disc or cylindrical, and optional accessories. Constructed of a steel frame and rotationally-molded polyethylene tanks and bumpers, the ES 2832 is built to last. The ES 2832 is ergonomically designed for operator comfort and ease of use with one button scrub-smart control and an excellent line of sight due to its low profile. With outstanding maneuverability and standard large pneumatic studded tires, the ES 2832 can make an effortless turn on its own axis while recovering all dispensed water.



Easy Maneuverability

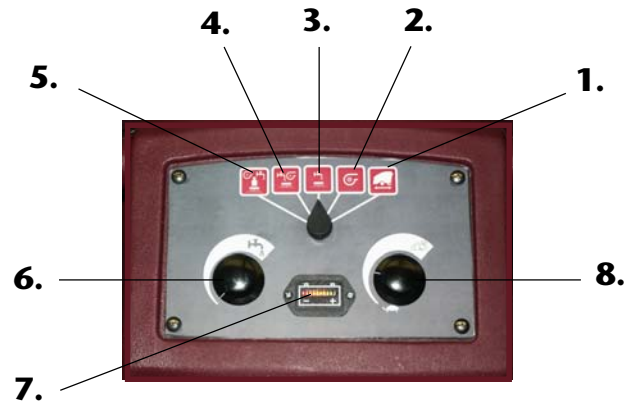
The Minuteman ES 2832 Scrubber is designed for operator comfort, safety and efficiency. User-friendly control panels and "comfort zone" hand bails are convenient, easy and safe to use. The hand bails allow the operator to hold the handle at any position, reducing hand fatigue. Due to the low profile design, the operator has an excellent line of sight to the floor in front of the machine. The ES 2832 reduces operator fatigue and provides maximum maneuverability and cleaning efficiency.

Safety and Technology

The ES 2832 is equipped with a "belly bar" that prevents the operator from being pinned behind the machine when in the reverse mode. Also standard is a color coded LED battery gauge that will let the operator know if any error code faults are coming from the on-board computer. This helps pinpoint any problem for easy and quick repair.

Easy-to-Read Control Panel

The ES 2832's control panel has five easy to understand icons, operated with the turn of a selector switch. A one-touch, directional lever, controls forward and reverse operation. The LED battery gauge lets the operator know when the batteries need to be charged.



- | | |
|------------------------------------|---|
| 1. Transport Mode | 5. Scrub & Vacuum Heavy Pressure |
| 2. Vacuum Only Mode | 6. Solution Flow Control |
| 3. Scrub Only Mode | 7. LED Battery Gauge/Error Code Display |
| 4. Scrub & Vacuum Regular Pressure | 8. Speed Control |

Easy-to-Adjust Rear Squeegee Assembly

The squeegee assembly utilizes a break-away design in case of impact. Removal of the assembly and the blades requires no tools and is quick and simple. The squeegee is self-tracking and picks up all dispensed water on every turn. The squeegee assembly automatically lowers when the machine is moving forward and raises automatically in reverse. Two caster wheels adjust to provide uniform blade deflection. The pitch of the assembly is also easily adjusted with a turnbuckle system. The front squeegee blade features a slotted and non-slotted blade for use on different floor types. The rear squeegee blade is four-sided for maximum extended use.



Durable Construction

The ES 2832 is made with a powder coated, epoxy painted, 11 gauge steel frame to resist corrosion. The tanks and bumper are constructed of a heavy-duty rotationally-molded polyethylene. Rugged construction and reliability, a Minuteman hallmark, means that the ES 2832 Scrubber is built to last.



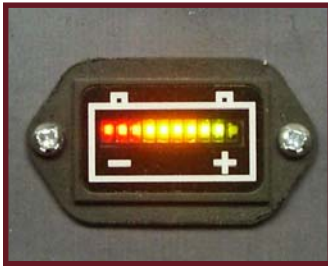
Easy-to-Use Optional On Board Off-Aisle Wand and Squeegee Tool

Minuteman's patented off-aisle wand is the key to cleaning hard to reach areas and is offered as an option on the ES 2832. The built in storage space makes the tool on-board, and ready to use. The telescopic wand adjusts for operator comfort. Compact and lightweight, the tool is conveniently attached to the side of the machine and is always available for use.



Easy-to-Interchange Decks

All four of the decks and brushes used on the ES 2832 are interchangeable with Minuteman's SCV™ 28/32 rider scrubber.



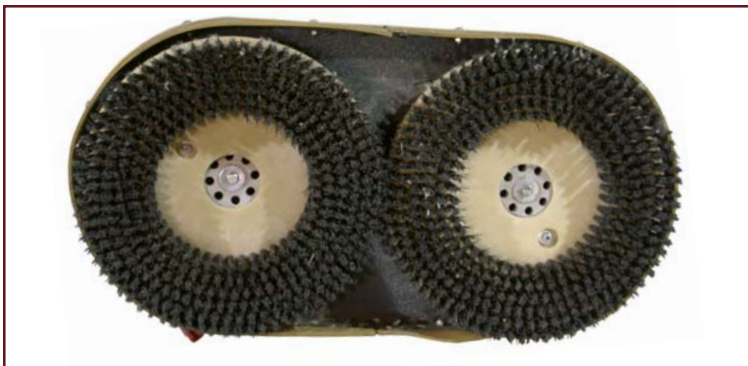
Easy-to-Read LED Battery Gauge/Error Code Display

The LED battery gauge also acts as an error code indicator. The error code can help speed up repairs by pinpointing a technical problem and minimizing troubleshooting time.

Choose From 28" or 32" Easy-to-Change Brush Deck Sizes and Two Types of Brush Systems

Disc Brush System

The disc brush system utilizes one 1.5 HP motor for the 28" deck or one 2 HP motor for the 32" deck, with offset right-angle gear boxes to drive the brushes. The brushes are 14" and 16" and counter-rotate at 300 RPM. Cleaning solution is center-fed to the disc brushes.



Cylindrical Brush System

The cylindrical brush system utilizes two 1 HP motors. Two brushes, either 28" or 32", rotate at 900 RPM. Five quick disconnect spray jets uniformly disperse cleaning solution to the brushes. In addition, the cylindrical brush deck has a wet sweeping debris tray.



In both systems, the brushes are computer controlled to follow the contour of the floor. The operator controls the two brush pressure settings from the control panel. Removal of the disc and cylindrical brushes is easy and fast.

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OUTSTANDING STANDARD FEATURES:

- **Easy-to-interchange four scrub decks on one chassis**
- **Easy-to-remove debris box on cylindrical scrub deck**
- **Fully variable solution flow rate**
- **Spray jets for cylindrical scrub deck, ensure uniform solution distribution on floor**
- **Disc brushes are center-fed to keep water & chemical contained with more contact time**
- **Easy-to-adjust two caster wheel adjustment insures proper squeegee setting**
- **One piece, double wall, rotationally molded bumper can be easily removed for brush head access**
- **Dirty water drain hose extends to five feet, allowing drainage at the side, rear or front of scrubber**
- **"Belly Bar" to prevent the operator from being pinned against a wall while machine is in reverse**
- **Large 12" pneumatic tires grip the surface**
- **Key switch to ensure authorized personnel use only**
- **Hour meter**
- **Easy-to-read LED battery gauge also acts as an error code warning system**
- **Large 31 gallon solution tank and 35 gallon recovery tank, provide for less emptying and refilling**
- **Squeegee swings from side to side, picking up all water on 180 degree turns**
- **Easy to clean out 4" access hole in recovery tank**

Specifications

	ES 28	ES 32
Scrub Path	28" (71 cm)	32" (81 cm)
Squeegee Width	47" (119 cm)	47" (119 cm)
Coverage Performance	25656 ft ² /hr (2383 m ² /hr)	33500 ft ² /hr (3112 m ² /hr)
Scrub Brush (Disc)	Disc: (2) 14" (35.5 cm)	Disc: (2) 16" (40.5 cm)
Scrub Brush (Cylindrical)	Cyl: (2) 27-1/4" Offset (69 cm)	Cyl: (2) 31-1/4" Offset (79 cm)
Brush Motor & RPM (Disc)	1.5 HP dual right angle 300 rpm	2 HP dual right angle 300 rpm
Brush Motor & RPM (Cyl)	(2) 1 HP 900 rpm	(2) 1 HP 900 rpm
Brush Pressure	2 settings: Regular & Heavy	2 settings: Regular & Heavy
Solution Tank	31 gallons (117 L)	31 gallons (117L)
Recovery Tank	35 gallons (132 L)	35 gallons (132 L)
Tank Construction	Polyethylene	Polyethylene
Dimensions	(L X W X H) 66" X 34" X 46" (167cm X 86cm X 116 cm) (L X W X H) 66" X 38" X 46" (167cm X 96cm X 116 cm)	
Drive System	1/2 HP Transaxle	1/2 HP Transaxle
Vacuum	3/4 HP 3-stage Tangential Bypass	3/4 HP 3-stage Tangential Bypass
Pump	60 PSI	60 PSI
Wheels	(2) 12" Pneumatic (30cm), (2) 5" Casters(13 cm)	(2) 12" Pneumatic (30cm), (2) 5" Casters (13cm)
Frame	11 Ga. Steel	11 Ga. Steel
Controls	5-mode selector, Speed control, Solution control, Directional	
Brush Lifting Mechanism	Actuator	Actuator
Battery Pack	(6) 6-volt, 275 AH	(6) 6-volt, 275 AH
Transport Speed	230 feet/minute (70 m/min)	230 feet/minute (70 m/min)
Weight	1020 lbs (462 kg)	1030 lbs (467 kg)
Charger	36 Volt, 20 Amp, 120 VAC/230 VAC	
Options for both 28 & 32	Wheels: 12" Foam-Filled or 12" Soft Ride Solid, Off-Aisle Wand, Linatex Squeegee, Spring Loaded Casters	