

# **Minuteman**<sup>®</sup>

Excellence Meets Clean



**OUR GOAL**  
IS TO MAKE YOUR  
**JOB EASIER**

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**Minuteman**<sup>®</sup>  
Excellence Meets Clean

**PowerBoss**<sup>®</sup>

**Multi-Clean**<sup>®</sup>

## NOT JUST CLEAN, IT'S GREEN

Minuteman offers a complete line of commercial and industrial maintenance products for today's cleaning industry. Our wide range of products includes walk-behind and ride-on auto scrubbers, critical filter vacuums, air vacuums, floor machines, battery and propane burnishers, commercial vacuums and industrial tank vacuums for dry or wet/dry application, carpet vacuums and extractors, and sweepers. There is a Minuteman machine for every application.

## AQUA STOP

Aqua-Stop Technology has been introduced and implemented at Minuteman International. Machines equipped with Aqua-Stop use 20% less water and chemical than machines not equipped with Aqua-Stop. This water and chemical reduction factor translated into economic gains for Minuteman customers as well as environmental benefits, with no loss in the cleaning effectiveness of the Minuteman scrubbers. On average, Aqua-Stop will save Minuteman customers a total of \$31.55 per thousand square feet of facility size per year. This can potentially save customers thousands of dollars per year.

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A Member of the Hako Group

Minuteman is a full line manufacturer of sweepers and scrubbers; as well as critical filter vacuums, industrial and commercial vacuums, floor and carpet machines designed for commercial and institutional facilities.

Come Visit our Website at  
[www.minutemanintl.com](http://www.minutemanintl.com)

# COMPACT FLOOR SCRUBBERS



**Port A Scrub 12**  
Cord or Battery



**Port A Scrub 14**  
Cord or Battery



**E14 Auto Scrubber**

**Minuteman floor scrubbers deliver impressive cleaning power in portable and compact machines that are easy to use by any type of operator**

Model	Port A Scrub 12 Battery	Port A Scrub 12 Cord
Machine Dimensions	15" L x 17" W x 44" H	15" L x 17" W x 44" H
Net Weight	49 lbs.	55 lbs.
Solution/Recovery Tank	1 gallon	1 gallon
Tank Construction	Polyethylene	Polyethylene
Brush Type	2, counter-rotating cylindrical	2, counter-rotating cylindrical
Brush Width	12"	12"
Brush RPM	400 RPM	650 RPM
Cleaning Path	13"	13"
Cleaning Rate	3,775 sq. ft./hr.	3,770 sq. ft./hr.
Sound Level	66 db (A)	69 db (A)
Brush Motor	.4 hp / 300 W	.4 hp / 300 W
Charger	On-board	NA
Battery Voltage	24V	NA
Power Cord	NA	40'

Model	PORT A SCRUB 14	E14BQP	E14115
Cleaning Path Width	14"	14"	14"
Squeegee Width	18"	16.5"	16.5"
Brush Speed	780 RPM	170 RPM	170 RPM
Brush Motor	.8 HP	250 W	250 W
Solution Tank	2.5 gallon	4.2 gallon	4.2 gallon
Recovery Tank	3 gallon	4.8 gallon	4.8 gallon
Solution Pump	30 PSI		
Vacuum	65 CFM		
Cord	40' or battery	Battery	50'
Rear Wheels	7"	8"	8"
Dimensions	27" L x 18" W x 21.5" H	28.3" L x 19.3" W x 25.4" H	28.3" L x 19.3" W x 25.4" H
Weight	97 lbs.	139 lbs. (w/ batteries)	88.2 lbs.

# 12 GALLON AUTO-SCRUBBERS



E17, E20 Disc, E20 SPORT\*



E20 Cylindrical



E26 ECO, E26 ECO SPORT\*

**Covers 17,000 up to 26,000 Sq. Ft. Per Hour**  
**Low Brush Deck Cleans Around & Underneath Obstacles**  
**Small, Compact Design for Tight Spaces**

**GREEN FEATURES**

- 20% WATER SAVINGS
- SOUND LEVEL <= 70dBs
- TOOL FREE BRUSH & SQUEEGEE REMOVAL
- MAINTENANCE FREE GEL BATTERIES

Advanced technology makes the 12 gallon E Series a part of the innovative walk-behind scrubber line. Easy-to-understand controls ensure that the machines are simple to operate.

The compact and sleek design results in total operator comfort by focusing on ergonomics and provides an excellent line of sight to the area to be cleaned. Available in cylindrical, disc, and hospital ready models. The adjustable handle and ergonomic hand bails offer superior handling of the machine and the traction drive models offer ergonomic, adjustable speed regulation with the turn of a dial.

The E Series has an on-board charger which is convenient and allows the machine to be charged anywhere and features simple brush loading and unloading. A parabolic squeegee is standard on all models and an option on the brush drive models. The squeegees are designed so that no operator adjustment is necessary.

Model	E17 Disc	E20 Disc*	E20 Cylindrical	E26 ECO*
Cleaning Path Width	17"	20"	20"	26"
Squeegee Width	33"	33"	33"	35.4"
Theoretical Productivity (BD)	12,750 ft <sup>2</sup> /hr	15,000 ft <sup>2</sup> /hr	NA	36,464 ft <sup>2</sup> /hr
Theoretical Productivity (TD)	23,188 ft <sup>2</sup> /hr	27,280 ft <sup>2</sup> /hr	27,280 ft <sup>2</sup> /hr	36,464 ft <sup>2</sup> /hr
Working Speed (BD)	1.7 mph	1.7 mph	N/A	3.1 mph
Working Speed (TD)	3.1 mph	3.1 mph	3.1 mph	3.1 mph
Rated Voltage	24 volts	24 volts	24 volts	24 volts
Vacuum Flow	65 cfm	65 cfm	65 cfm	65 cfm
Vacuum Waterlift	45 inches	45 inches	45 inches	45 inches
Vacuum Power	.60 HP	.60 HP	.60 HP	.60 HP
Drive Motor Power (TD)	1/5 HP	1/5 HP	1/5 HP	1/5 HP
Brush Type	Disc	Disc	Cylindrical	Disc
Brush Motor(s) Power	¼ HP	¼ HP	¼ HP	¼ HP
# of Brushes	1	1	1	2
Brush RPM	180 RPM	180 RPM	600 RPM	180 RPM
Solution Capacity	12 gallon	12 gallon	12 gallon	12 gallon
Recovery Capacity	13 gallon	13 gallon	13 gallon	13 gallon
Weight with Batteries (BD)	306 lbs.	313 lbs.	N/A	372 lbs.
Weight without Batteries (BD)	196 lbs.	203 lbs.	N/A	238 lbs.
Weight with Batteries (TD)	365 lbs.	372 lbs.	360 lbs.	372 lbs.
Weight without Batteries (TD)	231 lbs.	238 lbs.	238 lbs.	238 lbs.

\*Models available with SPORT technology. To learn more about the enhanced productivity of SPORT technology, speak to your Minuteman representative.

# 19 GALLON AUTO-SCRUBBERS



**E24 Cylindrical**



**E26 Disc**



**H26 for Hospitals**



**E30 ECO**

**Covers 24,000 up to 26,000 Sq. Ft. Per Hour**  
**Low Brush Deck Cleans Around & Underneath Obstacles**  
**Small, Compact Design for Tight Spaces**

**GREEN FEATURES**

- 20% WATER SAVINGS
- SOUND LEVEL <= 70dBs
- TOOL FREE BRUSH & SQUEEGEE REMOVAL
- MAINTENANCE FREE GEL BATTERIES

Model	E24 Cylindrical	E26 Disc	H26 Hospital	E30 ECO
Cleaning Path Width	24"	26"	26"	30"
Squeegee Width	35.4"	35.4"	35.4"	35.4"
Theoretical Productivity (BD)	32,736 ft <sup>2</sup> /hr	35,484 ft <sup>2</sup> /hr	35,464 ft <sup>2</sup> /hr	40,920 ft <sup>2</sup> /hr
Theoretical Productivity (TD)	32,736 ft <sup>2</sup> /hr	35,484 ft <sup>2</sup> /hr	35,464 ft <sup>2</sup> /hr	40,920 ft <sup>2</sup> /hr
Working Speed (BD)	3.1 mph	3.1 mph	3.1 mph	3.1 mph
Working Speed (TD)	3.1 mph	3.1 mph	3.1 mph	3.1 mph
Rated Voltage	24 volts	24 volts	24 volts	24 volts
Vacuum Flow	65 cfm	65 cfm	65 cfm	65 cfm
Vacuum Waterlift	65 inches	65 inches	65 inches	65 inches
Vacuum Power	.86 HP	.86 HP	.86 HP	.86 HP
Drive Motor Power (TD)	.42 HP	.42 HP	.42 HP	.42 HP
Brush Type	Cylindrical	Disc	Disc	Disc
Brush Motor(s) Power	1 HP	.75 HP	.75 HP	.75 HP
# of Brushes	2	2	2	2
Brush RPM	850 RPM	180 RPM	180 RPM	180 RPM
Solution Capacity	19 gallon	19 gallon	19 gallon	19 gallon
Recovery Capacity	19 gallon	19.5 gallon	19.5 gallon	19.5 gallon
Weight with Batteries (BD)	787 lbs.	677 lbs.	677 lbs.	472 lbs.
Weight without Batteries (BD)	346 lbs.	346 lbs.	346 lbs.	346 lbs.
Weight with Batteries (TD)	787 lbs.	677 lbs.	677 lbs.	472 lbs.
Weight without Batteries (TD)	346 lbs.	346 lbs.	346 lbs.	346 lbs.

Advanced technology makes the 19 gallon E Series a part of the innovative walk-behind scrubber line. Easy-to-understand controls ensure that the machines are simple to operate.

The compact and sleek design results in total operator comfort by focusing on ergonomics and provides an excellent line of sight to the area to be cleaned. Available in cylindrical, disc, and hospital ready models. The adjustable handle and ergonomic hand bails offer superior handling of the machine and the traction drive models offer ergonomic, adjustable speed regulation with the turn of a dial.

The E Series has an on-board charger that is convenient and allows the machine to be charged anywhere and features simple brush loading and unloading. A parabolic squeegee is standard on all models. The squeegees are designed so that no operator adjustment is necessary.

*Specifications subject to change without prior notice.*

## 30 GALLON AUTO-SCRUBBERS



E28 Cylindrical



E30 Disc



E3330 Disc

**Covers 28,000 up to 39,000 Sq. Ft. Per Hour**  
**Low Brush Deck Cleans Around & Underneath Obstacles**  
**Small, Compact Design for Tight Spaces**

**GREEN FEATURES**

- 20% WATER SAVINGS
- SOUND LEVEL <= 70dBs
- TOOL FREE BRUSH & SQUEEGEE REMOVAL
- MAINTENANCE FREE GEL BATTERIES

The E Series 30 gallon auto scrubbers deliver advanced technology in an innovative walk-behind scrubber line.

Easy-to-understand controls ensure that the machines are simple to operate. The compact and sleek designs result in total operator comfort by focusing on ergonomics and provides an excellent line of sight to the area to be cleaned. The adjustable handle and ergonomic hand bails offer superior handling of the machine and the traction drive models offer ergonomic, adjustable speed regulation with the turn of a dial.

The on-board chargers are convenient and allow the machines to be charged anywhere. Features easy brush loading and unloading and a parabolic squeegee is standard on the traction drive models. The squeegees are designed so that no operator adjustment is necessary.

Model	E28 Cylindrical	E30 Disc	E3330 Disc*
Cleaning Path Width	28"	30"	33"
Squeegee Width	37"	43"	44"
Theoretical Productivity (TD)	38,192 ft <sup>2</sup> /hr	40,920 ft <sup>2</sup> /hr	45,208 ft <sup>2</sup> /hr
Working Speed (TD)	3.1 mph	3.1 mph	3.1 mph
Rated Voltage	24 volts	24 volts	24 volts
Vacuum Flow	65 cfm	65 cfm	65 cfm
Vacuum Waterlift	65 inches	45 inches	65 inches
Vacuum Power	.86 HP	.86 HP	.86 HP
Drive Motor Power (TD)	.7 HP	.7 HP	.42 HP
Brush Type	Cylindrical	Disc	Disc
Brush Motor(s) Power	1 HP	.75 HP	.75 HP
# of Brushes	2	2	2
Brush RPM	850 RPM	180 RPM	180 RPM
Solution Capacity	23 gallon	30 gallon	30 gallon
Recovery Capacity	23 gallon	30 gallon	30 gallon
Weight with Batteries (TD)	1058 lbs.	915 lbs.	
Weight without Batteries (TD)	470 lbs.	470 lbs.	

\*Aqua-Stop Equipped

# MAX RIDE SERIES

**NEW**



**MAX RIDE 20**



**MAX RIDE 26**

The MAX Ride Series are the first compact micro rider scrubbers engineered with large rider durability in mind. Built on an extremely durable e-coated steel frame with large integrated solution and recovery tank capacities, the MAX Ride maximizes productivity at an exceptional value. These innovative Micro riders with a unique squeegee assembly to brush proximity offers best in class water pick up. Enhance the Max Ride 20 or 26 with the integration of Minuteman's SPORT technology (OPTIONAL).

Model	Max Ride 20 ECO OR SPORT*	Max Ride 26 ECO OR SPORT*
Scrub Head Type	Disc	Disc
Scrub Path	20 in (53 cm)	26 in (66 cm)
Solution Capacity	18 gal (68L)	21 gal (79L)
Recovery Capacity	18 gal (68L)	23.5 gal (89L)
Max Speed	3.1 mph (5 kh)	3.1 mph (5 kh)
Max Productivity	27,200 sq. ft/hr (2527 sq m / hr)	32,490 sq. ft/hr (3018 sq m / hr)
Actual Productivity	22,015 sq. ft./ hr (2045 sq m / hr)	24,562 sq. ft./ hr (2282 sq m / hr)
Brush Pressure	Floating- Locked-	Floating- Locked-74 lbs./102Nm
Brush Speed	185 RPM	175 RPM
Vacuum Airflow	69 cfm (32.4L/sec)	69 cfm (32.4L/sec)
Vacuum Waterlift	68" H2O (1717 mm H2O)	68" H2O (1717 mm H2O)
Sound Pressure	68 dB	68 dB
Water Flow	.45 gpm (1.7 L / min)	.45 gpm (1.7 L / min)
Power Source	Battery (2) 12V 140 Ah	Battery (2) 12V 210 Ah
Battery Charger	On Board	On Board
Maximum Run Time	3-3.5 hrs.	3-3.5 hrs.
Dimensions W/ Squeegee	47.5"L X 25.5"W X 45" H	52"L X 31"W X 45" H
Weight Without Batteries	342 lbs (155 kg) No Solution	437 lbs (198 kg) No Solution
Weight With Batteries	691 lbs. Full Solution and 140 AH battery pack	882 lbs. Full Solution and 140 AH battery pack



\*SPORT technology delivers variable 185/400 RPM brush speed. For more information on SPORT technology, speak with a Minuteman representative today.

## 27 to 38 GALLON RIDE ON FLOOR SCRUBBERS



**E RIDE 26, 26 ECO, and 26 SPORT**



**E RIDE 28 or SPORT**



**E RIDE 32 or SPORT**

**Covers 26,000 up to 45,450 Sq. Ft. Per Hour**  
**Automatic Scrubbing & Ergonomic**  
**Operator Comfort**  
**BIG Productivity In Compact Platform**

**GREEN FEATURES**

- 20% WATER SAVINGS**
- SOUND LEVEL <= 70dBs**
- TOOL FREE BRUSH & SQUEEGEE REMOVAL**
- MAINTENANCE FREE GEL BATTERIES**

The Minuteman E Ride Series Ride-on Automatic scrubbers boasts a 26" up to 32" scrub deck with easy to use ergonomic controls.

It's dual side entry, 180 degree view, and 360 degree turning radius on its own axis provides any operator the comfort and maneuverability to complete even the larger complex jobs in a fraction of the time. Scrubbing performance is matched with exceptional water pick-up with its low profile, stainless steel, urethane blade assembly.

Aqua Stop technology is also available as yet another productivity and cleaning enhancement feature. Interchangeable disc or cylindrical brush system is available on the 28" and 32" models.

MODEL	E RIDE 26 ECO OR SPORT*	E RIDE 28 OR SPORT*	E RIDE 32 OR SPORT*
Cleaning Width	26"	28"	32"
Working Speed	0-4 MPH	0-4 MPH	0-4 MPH
Vacuum Waterlift	70"	70"	70"
Vacuum Power	1 HP	1 HP	1 HP
Drive Motor Power	.75 HP	1.2 HP	1.2 HP
Brush Type	Disc	Disc	Disc or Cylindrical
Brush Motor Power	1.25 HP	1.5 HP	2 HP
Brush RPM	300 RPM	300 RPM	300/900 RPM
Front Wheel Diameter	(2) 10"	(2) 12"	(2) 12"
Rear Wheel Diameter	(2) 12"	(2) 14"	(2) 14"
Solution Capacity	27 gallon	32 gallon	32 gallon
Recovery Capacity	27 gallon	38 gallon	38 gallon
Aqua Stop	Yes	No	No

\*Available with optional SPORT technology. Speak with your Minuteman representative today for more information on SPORT technology enhancements.

# Brain-Enabled Max Ride 20 Autonomous Scrubber with EMMA Technology



The partnership with Brain Corp allows the implementation of the EMMA Navigation technology platform. EMMA - Environmental Monitoring And Measuring Application - navigation technology allows the MR20 to operate, through this technology, autonomously.

Brain Corp's revolutionary floor care technology significantly increases efficiency while also delivering sizable cost savings.

The Brain-enabled scrubber frees janitorial staff to focus on higher-value tasks and also teaches them to manage exciting new technology.

Model	Max Ride 20 Autonomous
Cleaning Path	20" Disc
Squeegee Width	25"
Brush Speed	200-350-450 RPM
Max. Grade	6%
Working Speed	3.1 mph (5 kh)
Max Productivity	27,200 sq. ft/hr (2527 sq m / hr)
Noise Level	68 dB
Dimensions	47.5" L x 25.5" W x 45" H
Weight	691 lbs.
Tank Capacity	18 gallon solution & recovery
Max. Run Time	3-3.5 hours

*\*SPORT technology delivers variable 185/400 RPM brush speed. For more information on SPORT technology, speak with a Minuteman representative today.*



## Robotic Features

<b>Control</b>	Manual & Autonomous
<b>Learning System</b>	Autonomous function is training by user to replicate multiple scrubbing routes.
<b>Navigation</b>	Multi-layer sensor system perceives environment, controlling vehicle and navigation.
<b>Security</b>	Password protected user interface.
<b>Safety</b>	Overlapping sensors detect and avoid people and obstacles. Equipped with auto-stop button. Remote monitoring capability.
<b>Support</b>	Robotic Operating Center (ROC), manned by Brain Corp technicians, provides remote supervision, fleet management analytics and first line customer service.

## Key Features

- Auto Load and Unload of Brush or Pad Driver
- On-board Charger
- Capable of turning 360 Degrees, providing exceptional maneuverability
- SPORT Technology (optional)



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# RESTORATIVE CARPET CLEANING

## RUSH SERIES

### This is why you need a Rush Extractor:

- Powerful cleaning performance with features like dual vacuums for optimum recovery and up to 500 psi all in a compact, easy to use design
- Unique external heater boosts cleaning performance, protects internal electrical components, and eliminates downtime
- Simple two screw access to components for easy maintenance and service
- Wand and hoses included in the package



Increase your productivity on those tough carpet restoration jobs with the NEW Rush portable extractors.

Models	Rush 100 Cold	Rush 100	Rush 500
Solution Tank	12 gallon	12 gallon	12 gallon
Recovery Tank	11 gallon	11 gallon	11 gallon
Vacuum Motors	Dual 2-stage	Single 3-stage	Dual 2-stage
Solution Pressure	100 psi	100 psi	500 psi
Water Lift	150"	117"	150"
Tank Construction	Polyethylene	Polyethylene	Polyethylene
Baseplate	¼" aluminum	¼" aluminum	¼" aluminum
Rear Wheels	10" non-marking	10" non-marking	10" non-marking
Casters	4" locking	4" locking	4" locking
Power Cord	50 ft. detachable	50 ft. detachable	Dual 50 ft. detachable
Dimensions	35"H x 31"L x 18"W	35"H x 31"L x 18"W	35"H x 31"L x 18"W
Weight	78 lbs.	90 lbs.	106 lbs.
Shipping Weight	94 lbs.	106 lbs.	123 lbs.
Shipping Dimensions	36.5"H x 31.5"L x 19"W	36.5"H x 31.5"L x 19"W	36.5"H x 31.5"L x 19"W
Electrical Draw	13.5 amps	18.8 amps	17.1 amps/15.9 amps
Heater	No Heat	Detachable – 1000 W	Detachable – 2000 W
Vacuum/Solution Hose	15'	15'	25'
Carpet Wand	Single Jet – Stainless Steel	Single Jet – Stainless Steel	Dual Jet/S-bend Stainless Steel

## GOTCHA SPOTTER & UPHOLSTERY

The Gotcha! is designed for quick and easy spot removal and carpet maintenance operations that require maneuverability, efficiency, power and hassle-free, one-person operation. 2 gallon capacity provides ample solution for cleaning multiple spots and compact size and easy-to-use controls make the Gotcha the ideal solution for quick and effective cleanup.



Models	Gotcha
Capacity	2 gallons
Voltage	115 / 240 Volts
Vacuum Motor	1.12 HP - 2-Stage
Waterlift	71"
Air Flow	80 CFM
Solution Pump	50 psi
Cable	25' 18-3 wire with GFCI
Construction	Rotationally molded polyethylene
Hand Tool	4" clear injection molded construction
Solution/Vac Hose	8'
Switch	2 position
Dimensions	19"L x 8.75"W x 17"H
Weight	19 lbs.
Wheel Diameter	(2) 4"

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# SELF-CONTAINED CARPET EXTRACTORS

## X17 SERIES



The X17 Series combines powered brush agitation with high pressure spray and a wide 17" vacuum shoe for unparalleled maintenance cleaning of carpets in offices, schools, hotels, medical centers, retail centers and more.

The patented ozone system on the CFS equipped units provide strong, chemical free deodorizing and sanitizing capability.

## AMBASSADOR SERIES



The Ambassador Series can clean up to 2,500 sq. ft. per hour with brush agitation, solution injection and an effective vacuum system that does it all in one pass. Available in 14" and 17" wide models to meet your carpet cleaning needs. These self-contained carpet extractors are operator friendly and built tough with a non-corrosive polyethylene body and tanks and moisture resistant switches.

Models	Ambassador Jr.
Vac Motor	1 HP, 3-stage
Waterlift/CFM	85"/95CFM
Brush Motor	1/8 HP
Voltage	115/240 V
Solution Pump	50 psi
Capacity	6 gallon
Brush Speed	1800 RPM
Cleaning Width	14"
Cord	50'
Wheels	8"
Weight	75 lbs.
Spray Jets	3 Quick Dis.
Dimensions	34.5"H x 14"W x 36"L

Models	X17/X17 HP	X17 CFS	X17 Plus/ Plus HP	X17 Plus CFS
Cleaning Path Width	17" (43 cm)	17" (43 cm)	17" (43 cm)	17" (43 cm)
Solution Tank	9 gallon (34 lt.)	9 gallon (34 lt.)	11 gallon (42 lt.)	11 gallon (42 lt.)
Recovery Tank	7.5 gallon (28.4 lt.)	7.5 gallon (28.4 lt.)	10 gallon (37.9 lt.)	10 gallon (37.9 lt.)
Vacuum Motors	2 HP 3-stage	2 HP 3-stage	2 HP 3-stage	2 HP 3-stage
Solution Pressure	50 psi / 100 psi	50 psi	50 psi / 100 psi	50 psi
Brush Motor	1/6 HP	1/6 HP	1/6 HP	1/6 HP
Tank Construction	Polyethylene	Polyethylene	Polyethylene	Polyethylene
Rated Voltage	Available in 115V and 230V			
Rear Wheels	10" non-marking	10" non-marking	10" non-marking	10" non-marking
Waterlift	118"	118"	118"	118"
Power Cord	50 ft.	50 ft.	50 ft.	50 ft.
Brush Speed	1800 RPM	1800 RPM	1800 RPM	1800 RPM
CFM	99	99	99	99
Spray Jets	Dual jet	Dual jet	Dual jet	Dual jet
Options	Scrub wand, ET tool, 15' vac hose			

Convenient control panel right on the handle!



## X RIDE 28 RIDER CARPET EXTRACTOR



When you have a lot of carpet to clean, the X Ride 28 is the ultimate carpet cleaning solution in a rider carpet cleaner.

Cylindrical scrubbing action cleans both sides of the carpet fiber and a wide 28" cleaning path helps you get the job done quickly. Large 27 gallon capacity, easy operation, 100 psi pump and powerful vacuum provide up to 9,060 sq. ft. per hour of carpet cleaning performance while the operator rides in comfort.

Models	X Ride 28
Cleaning Path	28"
Theoretical Productivity	9,060 ft <sup>2</sup> / hour
Working Speed	65 fpm
Rated Voltage	36 Volts
Vacuum Flow	152 CFM
Waterlift	70"
Vacuum Power	(2) 36 Volt 1 HP
Drive Motor (TD)	3/4 HP
Brush Type	Cylindrical
Brush Motors	(2) 3/4 HP
Number of Brushes	2
Solution Pump	100 psi
Solution Tank Capacity	27 gallon
Recovery Tank Capacity	24.5 gallon
Number of Spray Jets	1/interim or 4/restorative
Front Wheels	3" x 10" polyurethane
Rear Wheels	3" x 12" soft ride cross hatch
Battery	AGM 36 Volt 210 Ah
Weight With Batteries	1,315 lbs.
Weight w/out Batteries	475 lbs.

Specifications subject to change without prior notice.

## Model A3S - Air Mover



A3S floor dryers are designed to create and channel airflow while maximizing CFM. A 1 HP motor provides the power and they can be operated at a pitch of 45 or 90 degree angles to circulate airflow where you need it. Three speeds provide versatility and the stackable, light-weight design makes the A3S easy to use.

Models	A3S
Power	115 V / 60 Hz
Amps	2.8 / 2.3 / 2.1
Safety	ETL Listed
Cord Length	25 ft.
Airflow	1100 CFM
Weight	28.7 lbs.
Dimensions	18.11"L x 16.73"W x 18.9"H
Material	ABS
Motor	1/3 HP

Specifications are subject to change without notice.

## Phenom 15 & 18 Commercial Vacuums

The Phenom is brushing and vacuuming all in one operation – that means deep, thorough and gentle carpet cleaning.

The Phenom brushes thoroughly and quickly removes dirt that clings to the individual carpet fibers and ensures an optimum cleaning result, even on areas subject to heavy wear. The telescopic suction pipe and the flexible suction hose make it possible to vacuum curtains and furniture problem free. Clean sensitive areas with the germ-reducing Fibro filter (standard).



Models	Phenom
Application	Dry
Voltage	115V
Air Flow	104 CFM
By-Pass Motor	No
Sound Level	68 dB
Dust Bag Capacity	1 gallon
Weight	17 lbs.
Cable Length	50 ft.
Suction Hose	5 ft.
Nominal Width Accessories	1.5"
Vac Motor	1 HP
Brush Motor	1/4 HP
RPM	5,000 RPM

Specifications subject to change without prior notice.

## BPV PRO BACKPACK VACUUM

Designed for vacuuming carpet, hard floors and upholstery. Worn on the back to allow for easy and quick vacuuming while walking. Ideal for hallways, airplanes and commercial spaces.

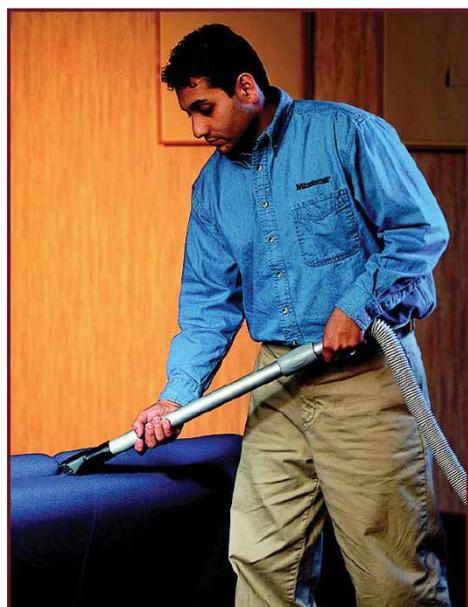
The BPV has a lightweight ergonomic design, with a cushioned backpack that fits the curve of any operator's back. The comfortable shoulder and waist belt design reduces fatigue, making work easier.

Available in a HEPA model.

Model	BPV PRO	BPV PRO HEPA
Capacity	10 Quarts	10 Quarts
Airflow	150 CFM	150 CFM
Power	1340 Watts	1340 Watts
Motor	1.5 HP, Single-Stage	1.5 HP, Single-Stage
dB	67	67
Amps	11.5	11.5
Volts	115	115
Static/Lift	95	95
Weight	10 lbs.	10.5 lbs.
Height	23"	23"



## MPV 31 WIDE AREA VACUUM



Minuteman's MPV®-31 Wide Area Vacuum commands powerful suction to clean large carpeted spaces with efficiency, speed, effortless maneuverability and quiet operation. Durable constructed of rotationally molded polyethylene, the MPV-31 will endure the rigors of heavy use. The lightweight, low-profile design combined with powerful brush action enables the MPV-31 to glide across carpet with ease and delivers impressive results.

Sweeping a wide 30" path, the MPV-31 cleans up to 25,000 sq. ft. per hour and greatly reduces labor time.

Model	MPV 31
Construction	Roto-molded polyethylene
Brush Housing	Stainless steel
Brush	30" x 3" nylon, chevron design
Brush Speed	1,550 RPM
Brush Motor	1/4 HP
Brush Adjustment	4-position foot lever
Air Flow	212 CFM
Vacuum Motor	(2) 1.1 HP (802 Watts)
Sound Level	72 dB
Power Cable	75' 12-3 gauge, built-in cord wrap
Power	115 V, 60 Hz
Bag Volume	1.2 bushels
Built-in Hose	1-1/4" diameter, extends 24"
Built-in Wand	26"x40" aluminum, telescopic
Handle	Steel tubing, fully adjustable
Front Casters	(2) 2" non-marking
Rear Wheels	(2) 12" non-marking
Dimensions	17.5"L x 31"W x 37"H
Weight	130 lbs.

Specifications subject to change without prior notice.

## 747 WIDE AREA CARPET VACUUMS



Clean faster, save labor! A wider sweeping path, combined with Minuteman's powerful vacuum system lets you clean up to 25,000 sq. ft. per hour - ideal for big cleaning jobs with wide areas. These battery and electric operated vacuums are durably constructed, yet lightweight in design, so they are easy to maneuver. The powerful brush action of the 747 provides easy glide across the carpet quickly, quietly and efficiently.

Model	747 ELECTRIC	747 BATTERY
Dimensions	24"H x 38"L x 29.5"W	24"H x 38"L x 29.5"W
Brush Width	26.5"	26.5"
Air Flow	200 CFM	200 CFM
Brush Type	Nylon	Conductive Nylon
Bag Volume	9 ft <sup>3</sup>	9 ft <sup>3</sup>
Cord Length	75'	None
Motor	1 HP, 115 V	3/4 HP, PM, 24 VDC
Rear Wheels	16"	16"
Front Casters	4"	4"
Weight	145 lbs.	154 lbs. (no batteries)

## KLEEN SWEEP 27 - WALK-BEHIND SWEEPER



The Kleen Sweep 27 is an ideal replacement for manual sweeping. It picks up dirt quickly without leaving dust behind and is light-weight, convenient, and virtually indestructible.

Great for workshops, outdoor areas, paths, machine shops, stockrooms, parks, small yards, parking areas and loading ramps. The Kleen Sweep 27 goes where large sweepers cannot.

Model	KS25
Cleaning Path Width	27"
Hopper Capacity	
Main Broom	
Side Broom	
Broom Material	Synthetic
Dust Filter	99.97% efficient at 3 microns
Filter Shaker	Manual
Filter Material	Polyester
Filter Removal	No tools necessary.
Flaps	Non-marking
Battery	
Charger	On-board
Noise Level	63 dB

## KLEEN SWEEP 25 - WALK-BEHIND SWEEPER



The Kleen Sweep 25 is an ideal replacement for manual sweeping. It picks up dirt quickly without leaving dust behind and is light-weight, convenient, and virtually indestructible.

Great for workshops, outdoor areas, paths, machine shops, stockrooms, parks, small yards, parking areas and loading ramps. The Kleen Sweep 25 goes where large sweepers cannot.

Model	KS25
Cleaning Path Width	25"
Hopper Capacity	1.06 cubic feet
Main Broom	16"
Side Broom	11"
Broom Material	Synthetic
Dust Filter	99.97% efficient at 3 microns
Filter Shaker	Manual
Filter Material	Polyester
Filter Removal	No tools necessary.
Flaps	Non-marking
Battery	24V, 40 Ah gel battery (4)
Charger	On-board
Noise Level	63 dB

## KLEEN SWEEP 28 - WALK-BEHIND SWEEPER



The Kleen Sweep 28 is an ideal replacement for manual sweeping. It picks up dirt quickly without leaving dust behind and is light-weight, convenient, and virtually indestructible.

Great for workshops, outdoor areas, paths, machine shops, stockrooms, parks, small yards, parking areas and loading ramps. The Kleen Sweep 28 goes where large sweepers cannot.

Model	KS28
Cleaning Path Width	28"
Hopper Capacity	1.23 cubic feet
Main Broom	20.1"
Side Broom	15.8"
Broom Material	Synthetic
Dust Filter	99.97% efficient at 3 microns
Filter Shaker	Manual
Filter Material	Polyester
Filter Removal	No tools necessary.
Flaps	Non-marking
Battery	12V maintenance free battery system
Charger	On-board
Noise Level	63 dB

## KLEEN SWEEP 32R - RIDER SWEEPER



When considering the dust-free cleaning of small and medium-sized areas, you can't do better than the KS32R. The robust, Steel frame construction is heavy-duty quality which means the Minuteman Kleen Sweep 32R is a machine for professional use that can clean surfaces thoroughly and efficiently. The Kleen Sweep 32R offers operators simple conveniences such as maintenance free batteries, on-board charging station, wet sweep bypass, large hopper capacity and quiet operation.

Model	KS32R
Drive Motor	0.8 HP / 24W
Brush Motor	0.8 HP / 24W
Battery System	24v Maintenance Free Batteries / On-Board Charger
Sweeping Width	26"
Width w/Broom	35" or 43.7"
Sweeping Speed	3.7 mph
Productivity	57,479 ft <sup>2</sup> per hour
Hopper Capacity	2 x 6.6 gallons
Filter & Filter Shaker	Yes
Weight	620 lbs.
Dimensions	50.4"L x 35.7"W x 47.6"H

## KLEEN SWEEP 40 - RIDER SWEEPER



The Kleen Sweep 40R is designed for heavy duty commercial use. This unique sweeper is extremely maneuverable with up to four hours of non-stop run time. A solid channeled steel frame tough and built to last with easy access for serviceability.

The powerhouse can be used for sweeping hard floors or carpeted floors and is comfortable and easy to operate.

Model	KS40R
Sweeping Width	40"
Main Broom	28"
Productivity	61,354 sq. ft. per hour
Hopper Capacity	2.1 cubic feet
Turning Radius	70"
Sweeping Speed	4 mph
Climbing Ability	12%
Length w/Side Broom	59"
Dimensions	59"L x 38"W x 52"H
Weight w/Batteries	970 lbs.

## KLEEN SWEEP 47 - RIDER SWEEPER



The Kleen Sweep 47R is designed for heavy duty commercial use. This unique sweeper is extremely maneuverable with up to four hours of non-stop run time. A solid channeled steel frame tough and built to last with easy access for serviceability.

The powerhouse can be used for sweeping hard floors or carpeted floors and is comfortable and easy to operate.

Model	KS40R
Sweeping Width	50"
Main Broom	28"
Productivity	77,500 sq. ft. per hour
Hopper Capacity	2.1 cubic feet
Turning Radius	70"
Sweeping Speed	4 mph
Climbing Ability	12%
Length w/Side Broom	59"
Dimensions	59"L x 38"W x 52"H
Weight w/Batteries	970 lbs.

## FRONTRUNNER LOW & DUAL SPEED FLOOR MACHINES

The Frontrunner Series are durable steel and stainless steel floor machines in both low speed and dual speed configurations. Available in 17" and 20" diameters with non-marking PVC bumpers to prevent marking furniture or walls. Powered by a durable 1.5 HP 66 Frame motor with triple planetary gears to get you through those tough scrape-offs with ease.

Model	Frontrunner 17	Frontrunner 20	Frontrunner DS
Head Size	17" Head	20" Head	20" Head
Head Speed	175 RPM	175 RPM	180/320 RPM
Motor	1.5 HP 66 frame Motor	1.5 HP 66 frame Motor	1.5 HP 66 frame Motor
Gears	Triple planetary steel gears	Triple planetary steel gears	Triple planetary steel gears
Weight	95 lbs.	98 lbs.	92 lbs.
Brush Cover	Black Powder Coated	Black Powder Coated	Black Powder Coated
Shipping Weight	112 lbs.	115 lbs.	112 lbs.
Handle	Anti-fatigue Handle Grips	Anti-fatigue Handle Grips	Anti-fatigue Handle Grips
Power Cord	50'	50'	50'
Amperage Draw	14.4 Amps	14.4 Amps	14.4 Amps
Shipping Dimensions	48"H x 26.5"L x 23"W	48"H x 26.5"L x 23"W	48"H x 26.5"L x 23"W



## MIRAGE HIGH SPEED BURNISHERS

Mirage burnishers simplify bringing a smooth, super high-gloss luster to any hard floor surface. They have a flexible pad driver with threaded pad centering device that conforms to the floor to give you an even and consistent shine. These durable steel and stainless steel burnishers are available in 1500 or 2000 RPM models with non-marking PVC bumpers to prevent making furniture or walls.

Models	Mirage 1500	Mirage 2000
Head size	20" Head	20" Head
Head Speed	1500 RPM	2000 RPM
Motor	1.5HP 66 Frame DC Rectified Motor, Belt Driven	1.5HP 66 Frame DC Rectified Motor, Belt Driven
Brush Cover	Black Powder Coated	Black Powder Coated
Weight	96 lbs.	96 lbs.
Handle Grips	Anti-fatigue Handle Grips	Anti-fatigue Handle Grips
Power Cord	75'	75'
Amperage Draw	15 Amps	15 Amps
Warranty	2 year	2 year
Shipping Weight	108 lbs.	108 lbs.
Shipping Dimensions	54"h x 31"L x 22.5" W	54"h x 31"L x 22.5" W



## PROPANE BURNISHER



The Propane Burnisher from Minuteman is a power-house polisher with a wide 28" cleaning path and 1700 RPM ultra speed performance with productivity at 33,000 sq. ft. per hour. The 18 HP Kawasaki engine is propane fueled and frees the operator up the tethering of a cord operated burnisher.

Model	M220028K17X
Pad Size	27"
Engine	18hp EnviroGard Kawasaki 603cc V-Twin Propane Engine
Pad Speed	1,800 RPM
Propane Cylinder	20 lb. capacity
Hour Meter	Standard
Sound Level	87-89 dB
Productivity	33,000 sq. ft. per hour
Weight	208 lbs.
Certifications	EPA, CARB, CE
Catalytic Muffler	Standard
Dimensions	54"L x 31"W x 47"H

## LUMINA 20 & 20TD BURNISHER



Engineered for exceptional performance, Minuteman's Lumina™20 and Lumina 20TD Battery Burnishers utilize a 2.5 hp pad drive motor and Minuteman's exclusive patented PAMS® (Passive Air Management System) Dust Control System. PAMS helps to reduce the need for dust mopping after burnishing by capturing finish compound and dust particles. The result –innovative battery burnishers that provide high productivity, solid performance and increased labor savings benefits.

The Lumina 20 and Lumina 20TD battery burnishers are ideal for environments that require a high productivity burnisher such as hospitals, hotels, schools, office buildings and retail stores.

Model	LUMINA
Circuit Breakers	70 amp & 50 amp
Power Supply	35.4"
Charger	36 Volts
Pad Size	20"
Pad Motor	2.5 HP
Pad Pressure	Adjustable
Pad RPM	2000 RPM
Weight	445 lbs.
Front Wheels	8" non-marking
Rear Wheels	3" non-marking
Dimensions	35"L x 18"W x 35.5"H

# TRS - TOTAL RESTROOM SYSTEM

Model	TRS17-115
Solution Tank	17 gallon
Recovery Tank	15 gallon
Vacuum Motor	Single 3-stage
Pump	600 psi/.85 GPM – 450 psi nozzle
Water Lift	120"
Tank Construction	Polyethylene
Baseplate	¼" aluminum
Rear Wheels	10" non-marking
Casters	4" locking
Power Cord	50 ft.
Dimensions	39"H x 37"L x 22"W
Weight	108 lbs.
Electrical Draw	14.5 amps
Vacuum/Solution Hose	25'
Wand	Swivel wand with squeegee/brush head
Pressure Gun	Included
Fixture Drying Hose	25' x 1.5" Diameter



The TRS is a touch-free restroom cleaning system that deep cleans restrooms where mop and bucket fail. A built-in chemical metering system evenly applies cleaning solution, a high pressure pump pressure washes and deep cleans all surfaces and a powerful vacuum system quickly removes waste and water for a better clean. The TRS is equipped with a smart hose and tool management system and comes complete with all the tools to hit the ground running.

## Key Features:

- Touch-free system deep cleans restrooms where mop and bucket fail
- 600 psi pump provides effective cleaning into the porous tile and grout lines and hard to reach places
- Simple two screw access to components for easy maintenance and service
- Wand, spray gun, and hoses included in the package
- Auto chemical feed for high productivity
- Wand, gun, and hose caddies for easy transport

## Standard Tools



45' stretch exhaust hose with cuff, blower tool and mesh carrying bag



45' vacuum hose with suction tool



Dual Head, Dual Purpose wand with FLIP System



50' high pressure solution line

Squeegee & Vac

Sink fill adapter hose kit



SCRUB with brush head



Durable High/Low Pressure Spray Gun



## 290 WET/DRY VACUUM



- 6-15 gallon tank sizes available
- Wet/dry tool kit
- Optional wide area Big Gulp™ Squeegee
- Simple one-switch operation
- Heavy duty, 14-3 jacketed power cord
- Drain port located at base of the machine
- Available in 220 V
- UL listed (not all models)

## 390 WET/DRY VACUUM



- 15 or 55 gallon tank sizes available
- Available in polyethylene or stainless steel
- Optional wide area Big Gulp™ Squeegee
- Self-seating intake for a positive vacuum seal
- Easily adaptable to any tool kit
- Self-cleaning cloth filter bag
- Full bag indicator light
- UL listed (not all models)

## 705-6 AIR VACUUM



- 6 gallon tank size
- 3.5 gallon wet capacity
- .46 cu. ft. dry capacity
- Air operated, non-electric optional HEPA filtration
- No moving parts to replace
- Silenced down to low 80 dB
- 180" of waterlift
- Ideal where standard voltage is not available
- Uses compressed air & the Venturi Principle to create high flow & static lift
- Lifts or moves extensive variety of solid or liquid materials
- Tool kits available for commercial or industrial use

## 705-15 AIR VACUUM



- 15 gallon tank size
- 10 gallon wet capacity
- 1.86 cu. ft. dry capacity
- Air operated, non-electric optional HEPA filtration
- No moving parts to replace
- Silenced down to low 80 dB
- 180" of waterlift
- Ideal where standard voltage is not available
- Uses compressed air & the Venturi Principle to create high flow & static lift
- Lifts or moves extensive variety of solid or liquid materials
- Tool kits available for commercial or industrial use

## 705-55 AIR VACUUM



- 55 gallon tank size
- 45 gallon wet capacity
- 7.16 cu. ft. dry capacity
- Air operated, non-electric optional HEPA filtration
- No moving parts to replace
- Silenced down to low 80 dB
- 180" of waterlift
- Ideal where standard voltage is not available
- Uses compressed air & the Venturi Principle to create high flow & static lift
- Lifts or moves extensive variety of solid or liquid materials
- Tool kits available for commercial or industrial use

## 829 SERIES WET/DRY HEPA VACUUM



- 6-15 gallon tank sizes available
- Safe recovery of asbestos, lead, mold & other hazardous materials
- Operates at 72 dB
- Polyethylene tanks are durable, non-corrosive & dent proof
- UL listed (not all models)
- Patented, self-sealing intake ensures a positive vacuum seal
- Patented safety interlock system ensures filter is properly installed

## CRV™ CLEAN ROOM VACUUM



- 4 gallon tank size
- ULPA filtration
- 99.999% efficient at 0.12 microns
- UL listed (not all models)

## EXPLOSION PROOF DUST IGNITION PROOF VACUUM



- 15 gallon tank size
- Pick-up of hazardous material such as flammable liquids, finely pulverized dust & more
- Class I - Group D
- Class II - Group F & G
- Static conductive casters & wheels
- Available in 2 models
- Optional HEPA filtration
- 22-gauge, non-sparking stainless steel tank
- Operates at 72 dB
- 50' STWA safety cable
- UL listed

## LEAD VACUUM



- 6 gallon tank size
- .46 cu. ft. dry capacity
- Recovers lead, dust, paint chips & other hazardous materials
- Operates at 72 dB
- 50' STWA safety cable
- UL listed
- Dry recovery unit vacuums directly into a disposable collection bag

## FLAMMABLE LIQUID RECOVERY VACUUM



- 55 gallon tank size
- 45 gallon wet capacity
- 7.16 cu. ft. dry capacity
- Air operated, non-electric safe recovery of hazardous liquids
- Standard lid assembly
- No moving parts to replace
- Locking lid latches
- Standard explosion-proof tool kit with 14" floor squeegee tool
- Sturdy all-steel dolly with 5" conductive wheels for easy transporting
- UL listed

## MERCURY RECOVERY SYSTEM



- 6 & 15 gallon tank sizes
- Available in 5 models
- Optional HEPA filter
- Safe clean-up of liquid mercury & mercury contaminated soil & air
- Large capacity activated carbon filter
- Standard with tool kit
- U.L.P.A. filters are 99.999% efficient at 0.12 microns

800.323.9420

MINUTEMANINTL.COM

## MINUTEMAN INTERNATIONAL

### MINUTEMAN

Minuteman offers a complete line of commercial and industrial maintenance products for today's cleaning industry. Our wide range of products includes walk-behind and ride-on auto scrubbers, critical filter vacuums, air vacuums, floor machines, battery and propane burnishers, commercial vacuums and industrial tank vacuums for dry or wet/dry application, carpet vacuums and extractors, and sweepers. There is a Minuteman machine for every application.

### POWERBOSS

PowerBoss is a full line manufacturer of sweepers, scrubbers and combination sweeper/scrubbers for industrial applications. PowerBoss has been an innovator and leader in the industrial market since 1984. The PowerBoss full line of industrial sweepers and scrubbers will handle your most challenging jobs. Whether you have a congested area inside, or wide open spaces outside, our products meet your needs.

### MULTI-CLEAN

Multi-Clean is a manufacturer of high performance cleaning and floor maintenance products, incorporated since 1946, with a history of producing quality janitorial chemicals, including floor finish, floor strippers, cleaners, disinfectants, sanitizers, restroom cleaning products, carpet cleaners and stain removers. Multi-Clean also offer concrete sealers, industrial degreasers, wood gym floor finish, and a complete line of liquid hand soap and foam soap. Multi-Clean is a Green Cleaning Leader through green products, knowledge, education and training.

### MISSION STATEMENT

***To provide a complete range of cleaning equipment and solutions for commercial and industrial applications that deliver exceptional VALUE and exceed customer desires.***

### INNOVATION & TECHNOLOGY

Minuteman prides itself on understanding the needs and wants of the industry and being able to provide innovative solutions. With this in mind, we offer the Aqua-Stop system, maintenance free gel batteries, on-board chargers, simplified controls and many other advancements that support our customers and the green movement.

### SERVICE & SUPPORT

We're here to help. Our knowledgeable and friendly staff members, from customer service, product managers, service technicians and sales, are here to support you from selection of equipment to after sales support.

# S.P.O.R.T.

## SCRUB | POLISH | OR | REMOVE | TOP TWO COATS

All of the features and the advanced technology that make the E-series an outstanding daily auto scrubber are only enhanced by the integration of the SPORT technology. SPORT (Scrub Polish or Remove Top Two Coats) can easily and economically provide users with the means to perform chemical free surface preparation and/or the removal of floor finish to effectively clean, polish, and restore floors.

- SPORT technology is the newest inclusion to the highly regarded Minuteman E series line of Auto Scrubbers.
- The SPORT technology can easily and economically provide users with the means to perform chemical free surface preparation and/or the removal of floor finish to effectively clean and restore floors.
- Easy to understand controls ensure that our machines are simple to operate.
- The compact and sleek designs result in total operator comfort by focusing on ergonomics and provides an excellent line of sight to the area to be cleaned.
- Ergonomic designs offer superior handling of our machines and the traction drive models offer even more ergonomic advantages such as adjustable speed regulation with the turn of a dial.





***Minuteman***<sup>®</sup>

*Excellence Meets Clean*



**COMMERCIAL, INDUSTRIAL  
& INSTITUTIONAL  
CLEANING EQUIPMENT**

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