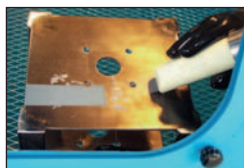


High production dry stripping cabinet with media reclaimer.

I n t e g r a t e d   S u r f a c e   F i n i s h i n g   S y s t e m s

The RAM 31 plastic media and starch media blast (PMB) cabinet gives you a spacious dust-free direct pressure blasting chamber to efficiently strip and clean small components and large workpieces.

Engineered for plastic and starch media, the RAM 31's outstanding flexibility yields superb performance with any fine or coarse media, except steel and iron. Built for rugged, continuous applications, the self-contained blast system can easily handle three-shift operations. Designed for cost-effective operation, the reclaiming section yields optimum production life from each pound of blasting media by automatically recovering, cleaning, and reclaiming media.



The optional FanBlast Cabinet Nozzle offers high speed wide path stripping to cut production time in half.

### Powerful, fast, efficient cleaning and finishing

Built for non-stop production, the RAM 31 cabinet provides the optimum in finishing of components and parts with plastic and starch media, whose unique characteristics allow it to remove coatings without etching, marring, or damaging most substrates, thus preserving vital surface integrity.

### Reclaim media — reduce costs

Fine tuneable reclaiming of media yields optimum production from each pound. After striking the work surface, media and debris fall through the work deck and are pneumatically conveyed to the reclaiming section for cleaning.

Inside the reclaiming section a controlled cyclonic action spirals the media and debris, throwing good media and heavier particles to the outer walls, where they spiral down through a dual adjustable air wash system offering independent controls for air wash volume and velocity, which enhances the separation of dust and fines from the reusable media.

A vibrating screen below the air wash traps oversized debris, allowing correctly sized, reusable media to pass through to the storage hopper. Dust and fines are

pulled from the center of the cyclone and the air-wash and pneumatically conveyed to the dust collector. A magnetic separator traps ferrous particles.

Each time blasting stops, the pressure vessel is automatically refilled with clean reclaimed

media. A Dense Particle Separator is an available option.

### Direct pressure blasting without interfering with other operations

The RAM 31 dry stripping cabinet provides a self-contained and highly productive blast area that does not pose a toxic hazard to the environment as is caused by liquid chemical strippers. Surface finishing operations including deburring, deflashing, peening, etching, stripping and cleaning can go on around-the-clock without interfering with other operations or personnel.

### Optimum working environment improves productivity

We improved your working environment so you can improve productivity. Brilliant lighting allows operators to work more productively on small components as well as large parts. 260 footcandle (280 dekalux) lighting level at the cabinet floor provides exceptional light for exceptional operator performance.

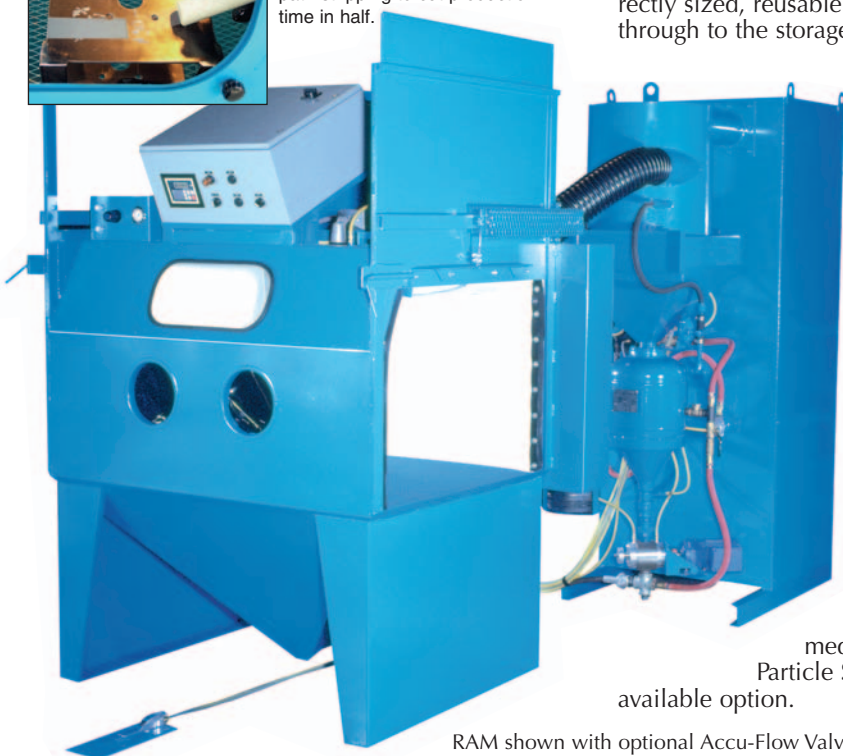
What's more, working on detailed parts is easier as a continuous rush of fresh air sweeps through the cabinet providing excellent visibility. Dust laden air is carried to a set of dust collector cartridges for high efficiency filtering. Cleaning is via reverse pulse air jet.

The large 60"W x 48"D x 36"H (152 cm x 122 cm x 91 cm) blast chamber accommodates a wide variety of workpieces. And to increase productivity, many accessories are available.

### Choose the exact style and option for your application

Already packed with many standard features, the RAM 31 is available in several models and options to custom tailor a cabinet to your exact application.

Options include: Right and left hand counterbalanced doors; explosion-proof motor, starter and lights; 500 and 1000 pound capacity base mounted turntable; work car with inside and outside tracks plus turntable; electronic automatic pulse jet operation; Dense Particle Separator; Closed Cycle Dust Free External Blast Gun; Tumble Basket. At a minimum, PSI strongly recommends a base mounted turntable for ease of positioning small and large parts.



RAM shown with optional Accu-Flow Valve.

## RAM 31 Dry Stripping Cabinet

- Dust free dry stripping and cleaning in spacious, well lighted and ventilated cabinet
- Eliminates hazardous liquid chemical paint stripper and the associated health risks, environmental damage, and waste disposal
- Complies with latest regulations (as of 1991) from California South Coast Quality Management District (SCAQMD), Rule 1401, requiring "T-BACT", Best Available Control Technology for Toxics (The California SCAQMD is, to our knowledge, the most stringent AQMD in the nation)
- Significant reduction in cost and time of stripping compared to chemicals - up to 90% savings
- Designed specifically for plastic and starch blast media. Also functions superbly with glass, aluminum oxide, and other non-metallic abrasives
- Newly engineered from the ground up for maximum blast and media recycling efficiency with the new generation of plastic and starch; most definitely not a "repainted and renamed" conventional glass bead/aluminum oxide machine
- The only machine with smooth, non-pulsing media flow for absolute process repeatability control - protects delicate substrates
- External vacuum return, dust free, closed cycle gun option
- Many other options and features

### SPECIFICATIONS

In accordance with our program of product improvement, specifications are subject to change at any time without notice.

<b>Stock Number</b>	494-070-01 complete cabinet dry stripping system with two hinged doors, 60 Hz
<b>Options</b>	Counterbalanced door(s); 50 Hz; explosion proof electrical specs
<b>Overall Dimensions</b>	Cabinet 65" wide x 49" deep x 76" high (165 cm x 125 cm x 194 cm). Power Pack 63" deep x 40" wide x 91" high
<b>Shipping Data</b>	1500 lbs (682 kg) - two pallets. Cabinet: 71" wide x 55" deep x 81" high (181 cm x 140 cm x 206 cm). Power Pack: 46" wide x 72" deep x 94" high (117 cm x 183 cm x 239 cm)
<b>Work Compartment Door</b>	60" wide x 48" deep x 36" high (152 cm x 122 cm x 91 cm)
<b>Door Opening</b>	Two hinged doors standard. Counterbalanced doors optional
<b>View Window</b>	41" wide x 36" high (104 cm x 78 cm)
<b>Ventilation</b>	10.5" x 22" (27 cm x 56 cm)
<b>Lighting</b>	840 CFM (23.8 CMM) 14 air changes/minute
<b>Compressed Air Requirement</b>	3 each, 150 watt incandescent. 260 footcandles (280 dekalux) at floor With 1/4" (6.4 mm) nozzle and vibrating screen: 44-51 CFM @ 100 psi (1.3-1.4 CMM @ 7 bar). With 5/16" (8 mm) nozzle and vibrating screen: 66-77 CFM (1.9-2.2 CMM). With 3/8" (9.5 mm) nozzle and vibrating screen: 80-146 CFM (2.3-4.1 CMM)

### RECLAIMER

Two stage cyclone separator/air wash, vibrating screen and media storage hopper.

<b>Air Volume</b>	840 CFM (23.8 CMM) recovery and reclaim
<b>Storage Hopper</b>	1.5 ft <sup>3</sup> (42 liters)
<b>Vibrating Screen</b>	Consumes 4 CFM @ 100 psi (0.11 CMM @ 7 bar)
<b>Magnetic Separator</b>	Included (in pressure vessel discharge)

### BLAST GENERATOR

<b>Diameter</b>	14" (36 cm)
<b>Bottom Cone</b>	60 degree included angle with media fluidizing bed
<b>Volume</b>	1 ft <sup>3</sup> (28 liters)
<b>Foot Control</b>	RC100P, Lo-Pro Feathertouch®
<b>Door Interlocks</b>	Included. Prevent blasting start-up with door open
<b>Moisture Separator</b>	3/4" (19 mm) NPT with manual drain
<b>Air Pressure Regulator</b>	3/4" (19 mm) NPS, remote controller and gauge mounted on cabinet control panel

<b>Media Valve</b>	M15 valve with adjustable flow control, clean-out port, and media quick dump feature for fast media change without tools. Features straight through media flow
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<b>Magnetic Separator Aeration</b>	Included with easy removal and clean-out port Media fluidizing bed assures smooth non-pulsing media flow, in conjunction with 60° cone and straight through media valve
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### DUST COLLECTOR

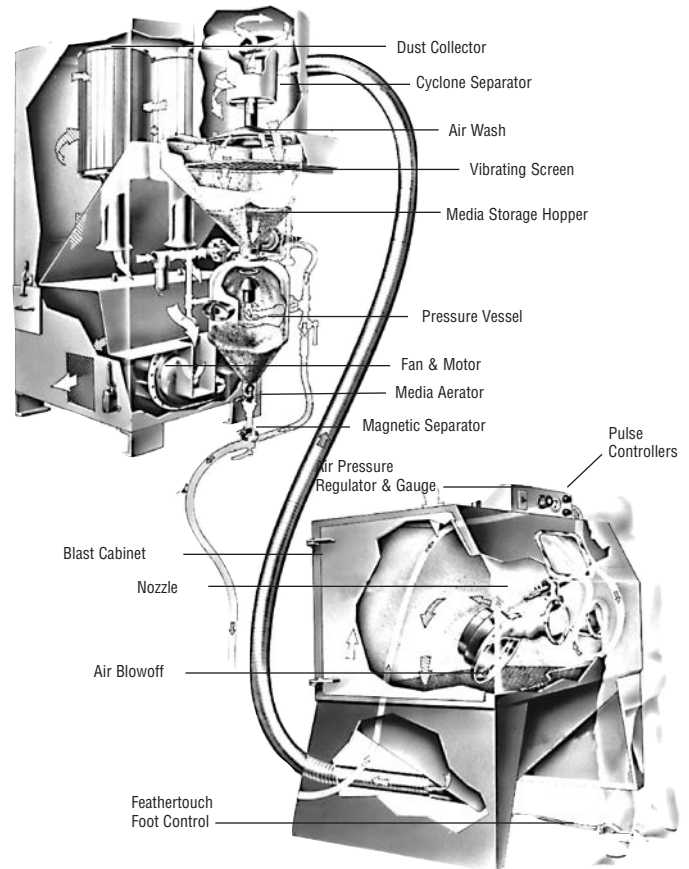
<b>Volume Rating</b>	840 CFM (23.8 CMM)
<b>Filtration</b>	2 cartridges, each 225 ft <sup>2</sup> (21 m <sup>2</sup> ) - total 450 ft <sup>2</sup> (42 m <sup>2</sup> ) of filter area

<b>Filter Cleaning</b>	Reverse pulse air jet cleaning activated via pulse controllers on cabinet control panel
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### MOTOR/BLOWER

<b>Motor</b>	2 hp, 3450 RPM, TEFC
<b>Electrical</b>	Standard 208-230/460 volt, 3 phase, 60 Hz Optional: other voltages, phases, 50 Hz
<b>Motor Starter</b>	Manual in NEMA 1 enclosure
<b>Motor Current</b>	6.0-5.6/2.8 amps, 60 Hz

In accordance with our program of continued product improvement, specifications are subject to change at any time without notice.



### OPTIONS

Highly recommended for all machines for ease of part handling during blasting is a 28" (71 cm), 500 lb (227 kg) base mounted turntable

For heavy parts counterbalanced doors recommended with these options

- Work car and inside track: provides a mobile base for turntable, 1000 lb (455 kg) capacity
- Turntable: 40" (102 cm) diameter, 1000 lb (455 kg) capacity, base mounted
- Track extension: 6 ft (2 m) of outside track to ease loading of parts

### Options - other

- FanBlast Cabinet Nozzle: 6" (15 cm), 1-1/4" NPS, part number 427-205-66
- Rubber lined HD cyclone. Rubber lined cabinet (recommended with aluminum oxide)
- HEPA filter system
- Electronic automatic pulse controller for dust collector
- Explosion proof electronic automatic pulse DC, lights, motor, starter
- Adjustable position nozzle holder
- Tumble basket: 6 RPM, 1/20 hp, 120 v motor
- External gun kit for vacuum return dust free blasting outside the enclosure
- View window(s) in hinged door(s), for ease of demonstration or supervision of process
- Magnahelic pressure differential gauge, to monitor dust collector filter condition
- Manual media control at cabinet operator station, for time saving "at hand" operator control
- Electronic media control with screw feeder
- Electronic air pressure controller
- Vestibules on doors to permit "pass through" of long parts
- Dense Particle Separator with 2 screen, 3 deck vibratory separator and automatic cleaning DPS fluidized bed for the ultimate in clean media. Easily meets U.S. Military and Boeing specifications for media cleanliness
- 6' wide cabinet and two operator stations
- "Stealth" cabinet option - 76 dba (at 6' (2 m)) while blasting. Quieter than most machines

### WARNING: NEVER USE WITH SAND ABRASIVE

WARNING: ALL ABRASIVE BLASTING CREATES BREATHABLE PARTICLES OF DUST WHICH MAY INCLUDE SILICA AND WHICH MAY LEAD TO VARIOUS DISEASES INCLUDING SILICOSIS, A LUNG DISEASE THAT CAN BE FATAL. ABRASIVE REBOUND OR DIRECT BLAST MAY ALSO INJURE AN UNPROTECTED OPERATOR. THEREFORE, SAFETY REQUIRES THAT THOSE PERSONS IN THE AREA OF ABRASIVE BLASTING ALWAYS WEAR PROPERLY SELECTED AND MAINTAINED GOVERNMENT APPROVED RESPIRATORY EQUIPMENT AND FULL PROTECTIVE CLOTHING, FROM HEAD TO FOOT. IF YOUR PAINT OR PROCESS DUST IS HAZARDOUS, AN OPTIONAL HEPA FILTER MAY BE REQUIRED. BEFORE USING MACHINE GET APPROVAL FROM YOUR SAFETY DEPARTMENT.



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