PAULI SYSTEMS

Integrated Surface Finishing Systems

RAM49 SatinStrip

A complete closed cycle system for composite and metal substrates

Now double your production rate and visually control the coating removal process.

RAM 49 SatinStrip is a tool engineered for damage free dry media paint stripping in a closed cycle dust free environment.

In addition to dust free coating removal, RAM 49 SatinStrip offers Operators visual process control with wide path stripping that can double production rates.

It's remarkable performance is due to the successful integration of 3 components:

- The VCC-2000 visual closed cycle dust free blast system with illuminated blasting chamber for Operator viewing and control.
- FanBlast™ wide path nozzle for vastly superior surface protection and higher stripping speed.
- AccuFlow™ computerized media flow valve for gradual non-surge start up, combined with unmatched media flow rate control.

Viewable blasting

Included, is the VCC-2000 Closed Cycle Blast Head with viewing window that enables real time visual process control. A powerful media return system within the illuminated visual blasting chamber vacuums spent media and paint chips to provide perfect visibility for the Operator.

Clean and efficient blasting

The RAM 49 SatinStrip combines the benefits of direct pressure dry stripping with automatic vacuum recovery, cleaning and recycling of the media.

Plastic and starch media blasting allows you to safely remove all coatings and contaminants from surfaces without exposure to hazardous liquid chemical stripping. Without etching or damaging substrates, dry stripping with a RAM 49 SatinStrip preserves surface integrity.

FanBlast wide path stripping

A FanBlast nozzle powers the RAM 49 VCC-2000 SatinStrip Blast Head providing a wide uniform blast pattern enabling faster, more efficient surface stripping.

FanBlast reduces media consumption, cuts production time in half in addition to eliminating overblasting and 'hot spots' common with conventional nozzles.

Save money, save time

Get two times the production rate on tough polyurethane coatings. And with the FanBlast Nozzle inside the VCC-2000, you require less compressed air and media in addition to less time and labor. You save money and time.

Blast and vacuum simultaneously without interfering with other operations

By containing the blasting operation RAM 49 SatinStrip's dust-free blasting strips coatings and vacuums dust simultaneously, and effectively eliminates clean up. You avoid interfering with nearby work processes and ensure a productive environment for workers.

Lower your costs by recycling media

With RAM 49 SatinStrip, all blasting media is recycled and cleaned within the unit. Depending on media choice and surface treating, blasting media can be recycled several times.

Choose from all air or air/electric models with options tailored to your application

The RAM 49 SatinStrip is available in air or air/electric powered models to fit your requirements. The all air powered unit consumes 340 CFM @ 100 psi (9.6 CMM @ 7 bar). The air/electric unit consumes 122 CFM @ 100 psi (3.5 CMM @ 7 bar).

Included in the standard RAM 49 SatinStrip package is a one cubic foot (28 liter) ASME coded pressure vessel with 60 degree conical bottom and fluidizing section. Also provided is a two stage cyclone reclaimer with air wash, vibrating screen and enclosed dust collector.

SPECIFICATIONS

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

Stock Number	495-080-20 RAM 49 SatinStrip air powered vacuum pump 495-080-21 RAM 49E SatinStrip electric, 60 Hz 495-080-22 RAM 49E SatinStrip electric, 50 Hz
Overall Dimensions	RAM 49: 68" long x 36" wide x 86" high (173 cm x 91 cm x 218 cm) RAM 49E: 88" long x 36" wide x 86" high (224 cm x 91 cm x 218 cm)
Weight	RAM 49: 860 lbs (387 kg) RAM 49E: 920 lbs (418 kg)
Total Media Capacity	1 cubic foot (28 liters)
Usable Blast Medias	Primarily designed for plastic and starch blast media.
Air Requirement	340 CFM @ 100 psi (9.6 CMM @ 7 bar) blasting with 3/8" nozzle (9.5 mm) (FBN 6). Electric model requires 122 CFM @ 100 psi (3.5 CMM @ 7 bar)

BLAST GENERATOR

Diameter	14" (36 cm)
Bottom Cone	60 degree included angle
Piping	1" NPT
Volume	1 ft³ (28 liters)
Remote Controls	RCV-100 air inlet valve and Feathertouch® control
Remote Control Hose	Poly Air Cable twin line yellow/gray attached to media hose
Blast Hose	3/4" ID x 25 ft (19 mm x 7.6 m)
Moisture Separator	3/4" (19 mm) NPT with manual drain
Air Pressure Regulator	3/4" (19 mm) NPT, 0-160 PSI
Media Aeration	Fluidizing bed in lower portion of pressure vessel for smooth non-pulsing media flow
Magnetic Separator	Included with easy to remove clean-out port
Media Valve	AccuFlow, computer controlled

RECLAIMER

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

Air Volume	340 CFM (9.6 CMM) recovery and reclaim
Air Wash	Adjustable independently for both volume and velocity
Hopper Volume	1 ft³ (.03 m³)
Vibrating Screen	Consumes 4 CFM @ 100 psi (0.11 CMM @ 7 bar)
Vacuum Pump	Air powered (Electric optional)
Vacuum Hose	2" x 25 ft (51 mm x 7.6 m)

DUST COLLECTOR

Air Volume	320 CFM (9.1 CMM)
Filter Area	7 tubular dust bags with 35 ft² (3.3 m²) filter area
Filter Cleaning	Manual bag shaker installed in dust collector enclosure
Optional Electric Motor	7.5 HP (5.7 kw) electric motor/blower
Blower Electric Controls	Blower electric motor controlled with a manual starter in NEMA 1 enclosure for optional electric model

VCC-2000 BLAST HEAD

Stock Number	265-051-00 (110 volts, 60 Hz, battery charger) 265-051-01 (220 volts, 50-60 Hz, battery charger)
Battery Charger	110 volts, 60 Hz (or 220 volts, 50-60 Hz)
Weight	3.6 lb (1.6 kg)
Overall Dimensions	12" (30 cm) long x 8" (20 cm) wide x 12" (30 cm) high
Vacuum Requirements	Pauli Systems' RAM 45, RAM 21, or RAM 31 with VR Kit. (or equivalent)

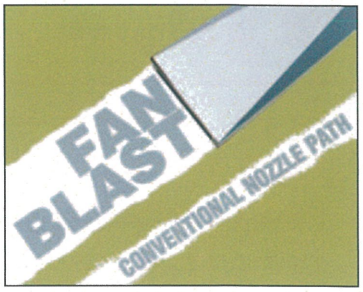
FANBLAST NOZZLE FBN-6

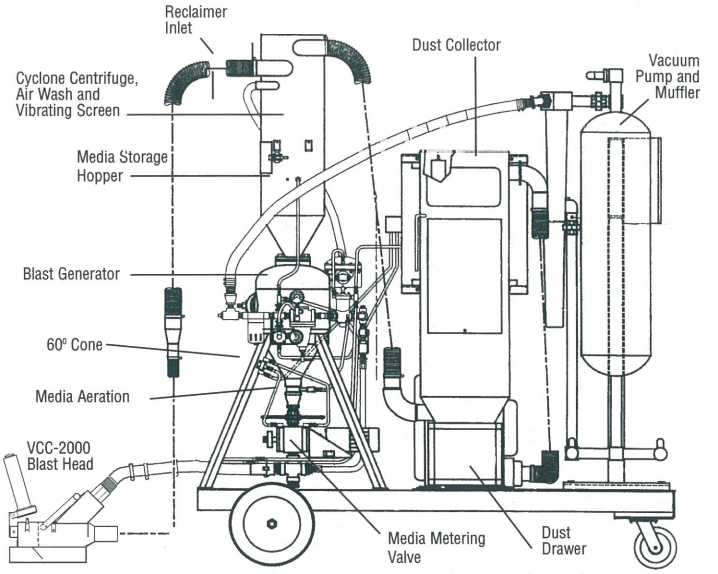
Stock Number	427-205-06
Weight	1.4 lb (.64 kg)
Length	9" (23 cm)
Blast Pattern Width	1.6" (4.1 cm)
Equivalent Size	Media and air consumption same as 3/8" (9.5 mm) conventional round nozzle
Usable Blast Media	Designed for lower aggression media such as starch and plastic media.
Thread	1-1/4" NPS
Liner	Stainless steel heat treated to Rockwell Rc 44-47

FanBlast wide path stripping

FanBlast nozzles provide a wide uniform blast pattern enabling faster, more efficient surface stripping.

Patented state of the art technology makes Pauli Systems FanBlast nozzle an industry breakthrough in high speed surface stripping. The 3/8 inch (9.5 mm) equivalent FanBlast FBN-6 Nozzle has a 1.6 inch (4.1 cm) wide coating removal path that distributes particle energy evenly across a wide rectangular area.





ACCUFLOW MEDIA VALVE

- Positive displacement metering
- High mass flow rate capability, far beyond gravity flow valves
- Controllability of 0.002 lbs/min (1 gm/min)
- Engineered for starch and plastic media, effective with most media
- Unlike auger valves, high horsepower not required
- AccuFlow works with starch media, unlike auger valves
- No sliding friction as found in auger valves
- Unlike auger valves, there is no blow-by when turned off, enabling low flow range controllability
- Unlike conventional systems, AccuFlow delivers exact media mass flow rates independent of blast system pressure
- High repeatability throughout a wide range for extremely tight process control
- Dust double sealed out of bearings, increasing operating life
- Prevents dust from escaping to the atmosphere (OHSA and EPA compliance)
- Media mass flow repeatability of +/- 0.2%
- +/- 0.2% mass flow setting accuracy
- Simple design for easy disassembly and reassembly
- Patented design allows sampling and mass flow calibration

WARNING: NEVER USE WITH SAND ABRASIVE

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. RESPIRATORS MUST BE SUPPLIED WITH GOVERNMENT APPROVED QUALITY BREATHING AIR. BEFORE USING THIS EQUIPMENT GET APPROVAL FROM YOUR SAFETY DEPARTMENT.

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1820 Walters Court
Fairfield, California 94533 USA
TEL (707) 429-2434
FAX (707) 429-2424
E-MAIL info@paulisystems.com
WEB www.paulisystems.com

PAULI SYSTEMS

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VCC-2000

Closed cycle blast head with visual control and FanBlast™ wide pattern nozzle.

Now – visual control for high performance closed cycle blasting.

Typical vacuum return blast heads prevent Operators from seeing the work area. Operators using these systems don't see the result until after it's done.

Now, Pauli Systems' new VCC-2000 visual control closed cycle vacuum return blast head enables Operators to see the coatings they remove in an illuminated blast chamber.

This allows Operators to precisely view and control the process. Perfect for stripping paint from thin skin and composite substrate when you need absolute control.

VCC-2000 includes Pauli Systems' FanBlast Nozzle with wide path stripping and production rates more than double competitors' systems.

Clearly a better way

Other blasting systems have difficulty properly removing paint from thin skin and composite substrates. First, they incorrectly blast at 90 degrees; second, the Operator cannot see the process in real time; third, round pattern nozzles are used which are grossly inefficient compared to FanBlast flat pattern nozzles.

VCC-2000 brings to the industry a completely new solution that is clearly better. Not only is the VCC-2000 blast nozzle fixed at the correct 45 degree angle but the Operator has visual control of the coating removal process.

What's more, the FanBlast nozzle provides a wide uniform blast pattern enabling faster, more efficient surface stripping. Reason, indeed, why the VCC-2000 meets tough OEM demands.

Viewable blasting

The blasting chamber viewing window enables real time visual process control. A powerful media return system within the illuminated visual blasting chamber vacuums spent media and paint chips to provide perfect visibility for the Operator.

Light up your work

The light source mounts directly to the blast head providing a bright beam into the blast chamber and onto the work surface. Operators can see and control their work. To reduce the cost of operation the system uses rechargeable batteries. Batteries and charger are included with the system.

Get a solid grip

Operators have complete control of the process. Two large handles give Operators a solid grip on the blast head. A single thumb push-button conveniently placed in the handle controls the system. Through the viewing port the Operator has a clear view and complete control of the coating removal process.

A solution with a future

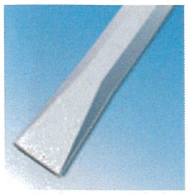
Designed for today and the future, VCC-2000 improves the coating removal process in virtually all closed cycle vacuum return applications. Designed to operate with lower aggression media such as starch and plastic media the process provides EPA compliance and lowers your cost of operation.

Save money, save time

Get 2 times the production rate with VCC-2000 on tough polyurethane coatings. And with the FanBlast Nozzle inside the VCC-2000, you require less compressed air and media in addition to less time and labor. You save money and time.

FanBlast wide path stripping

FanBlast powers the VCC-2000 and provides a wide uniform blast pattern enabling faster, more efficient surface stripping.



Maintenance facilities appreciate FanBlast nozzle's ability to reduce media consumption, cut production time in half in addition to eliminating overblasting and "hot spots" common with conventional nozzles.

Patented state of the art technology makes Pauli Systems FanBlast nozzle an industry breakthrough in high speed surface stripping. The 3/8 inch (9.5 mm) equivalent FanBlast FBN-6 Nozzle has a 1.6 inch (4.1 cm) wide coating removal path that distributes particle energy evenly across a wide rectangular area.

Works with conventional systems

VCC-2000 operates with conventional vacuum return systems such as RAM 45, RAM 21 and RAM 31 with vacuum return option or equivalent. Upgrade your equipment cost effectively by simply adding VCC-2000 to your existing vacuum return system.

Spot strip without interfering

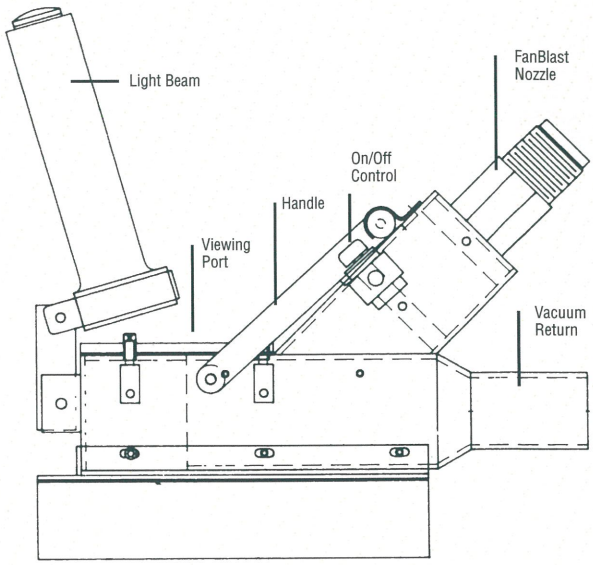
Chemical stripping often calls for shutting down normal work operations. With the VCC-2000 Closed Cycle Vacuum Return Blast Head the process is self contained. Operators strip selected areas without interfering with other work operations.

Strip paint with EPA compliance

Strip paint with a VCC-2000 System, be 100% environmentally clean and comply with EPA and OSHA emissions regulations. Within the VCC-2000 Blast Head, blast media strips paint and vacuums the residue without exposing the Operator or environment to emissions.

Complete composite stripping package

The RAM 45 Vacuum Blast System with VCC-2000 and FanBlast Nozzle is a complete composite paint stripping system. Perfect for stripping paint from thin skin and composite substrate, the RAM 45 system includes blast generator, reclaimer, dust collector and hoses. With this closed cycle vacuum return system, spent media is continuously conveyed from the VCC-2000 blast head to the reclaiming system where it is cost effectively cleaned and recycled for reuse.



SPECIFICATIONS

VCC-2000

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FanBlast Nozzle FBN-6

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Thread	1-1/4" NPS
Liner	Stainless steel heat tread to Rockwell Rc 44-47

NOZZLE AIR CONSUMPTION TABLE

Discharge in cubic feet and cubic meters of free air per minute

PSI (atmos)	CFM (CMM)
60 (4.1)	122 (3.5)
50 (3.4)	106 (3.0)
40 (2.7)	90 (2.5)
30 (2.0)	74 (2.1)

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