

High capacity PMB dry stripping and reclaiming, convenient portability, plus easy add-on flexibility.

ntegrated Surface Finishing Systems

The RAM 21 system offers operators high performance Plastic Media and Starch Blasting (PMB), convenient portability, and the flexibility to add-on extended capabilities like closed-cycle dust-free blasting, and a quick connect add-on blast cabinet.

Engineered for simultaneous blasting and reclaiming of media with minimum air consumption, the RAM 21 yields optimum productive use from each pound of media. Included in the system is the RAM blast generator, remote control, complete recovery, reclaim, cyclone separator, air wash, vibrating screen and magnetic separator, dust collector, and electric motor powered high static blower, all mounted on a rugged carriage with heavy duty wheels and tow hitch.



Reduces media cost by recycling.

Media is cost effectively reclaimed and reused, not wasted as it is by other systems. Spent media is easily loaded into the hopper (or into the optional Low Profile recovery hopper), then pneumatically conveyed to the cyclone centrifuge, dual adjustable air wash, vibrating screen and magnetic separator which rapidly separate reusable abrasive from dust and debris. The large 24 cubic feet (680 liters) of media storage space in the hopper and blast generator expand blasting time substantially before reclaiming.

Simple operation, consistent performance.

RAM 21 makes paint removal and media recycling a breeze. The operator masks areas not to be stripped and proceeds to strip coatings from the surface using a light-weight Feathertouch" remote control.

Spent media is pneumatically conveyed from the hopper to the cyclone centrifuge, dual adjustable air wash, vibrating screen and magnetic separator, which rapidly separate reusable abrasive from dust and other fines. Media and debris fall to a vibrating screen, which captures the debris, and allows reusable, correctly sized media to



Cabinet Option with Accu-Flow Valve provides precise control for surface preparation of small parts.

fall through to the storage hopper. Dust is pulled from the center of the cyclone and pneumatically conveyed to a high efficiency dust collector with filtered air exhausted into the atmosphere.

Straight-through media valve, 60 degree angled blast generator dis-



Dust free vacuum blasting is easy with the RAM 21 closed cycle option.

charge, and fluidizing metering valve, transport media for smooth, responsive non-pulsing nozzle performance.

Closed cycle option provides dust free vacuum blasting.

If you need to comply with closed cycle paint removal regulations, cut down on clean-up time, or simply make less dust, add the Closed Cycle Blast Kit to your RAM 21. Perfect for in-plant and small area blasting, the portable system provides dust-free blasting that strips and vacuums dust simultaneously, and effectively eliminates clean up.

Choose the RAM 21-2 and double your productivity.

If you need to double your production, choose the RAM 21-2 with two blast generators and hose systems. At twice the productivity of the RAM 21, the RAM 21-2 allows two operators to work simultaneously.

Add-on a cabinet for blasting with precise control.

Plug in more capability to your RAM 21 with this quick connect cabinet. The unit provides precise control for surface preparation of smaller parts in a brilliantly illuminated sealed cabinet that keeps dust and debris out of the workplace.

RAM 21 - the high capacity PMB dry stripping and reclaiming system with easy add-on flexibility includes:

- RAM 11 Blast Generator, 6 ft3 (170 l) volume and 600 cone discharge with fluidized metering.
- Accessories: RC150P 1-1/4" RC system, 66 ft (20 m) hose system with 50 ft of 1-1/4" blast hose and 16 ft of 3/4" whip hose for maximum operator ease.
- Recovery System with optional Lo-Pro or standard recovery hopper.
- 900 CFM (25 CMM) Cyclone Reclaimer with vibrating screen, plus four air gates and adjustable internal cones — a fine-tunable, two stage air wash system; continuous media reclaiming rate of 6400 lbs/hr (2900 kg/hr); magnetic separator.
- Dust collector with 7-1/2 HP TEFC motor and high static blower. Dust collector bags with a total of 140 ft 2 (13 m 2) of filter area. Manual externally activated bag rapper for rapid cleaning
- · Maintenance platform, ladder and hand rail for easy access to reclaimer.
- 24 ft3 (680 I) total media capacity.
- Media recovery hopper with 25 ft (7.6 m) of 5" ID (13 cm) reinforced vacuum hose. (Up to 50 ft (15.2 m) may be used)
- . Optional Lo-Profile hopper to speed media loading; available at additional cost
- Steel chassis with wheels and towbar

Note: Flow rates are given for plastic media with 1.5 specific gravity. (58 lb/ft3) When using the lighter 1.2 media, such as Type V, use 80% of stated value. Starch media 1.45 sp gr, flow rates approximately same as 1.5 media.

Stock Number 494-000-04

 48° wide x 100" long x 161" high (122 cm x 254 cm x 409 cm) (standard unit on Note: Optional muffler adds 36" (91 cm) to Overall Dimensions

overall height, wheeled carriage)Optional: less wheels and carriage reduces height by 16" (41 cm). New overall height 145" (368 cm). Loading Hopper: 24" wide x24" deep x 24" high (61 cm x 61 cm x 61 cm x 61 cm) Optional Lo-Profile.

Weight 2500 lbs (1134 kg) with wheels and carriage 2200 lbs (1000 kg) without wheels and carriage

Wheels and Carriage Full rated capacity wheels. 12" (30 cm) OD. Carriage with pintle

eye hitch. Maximum speed rating of 2 mph (3 kph) empty

Total Media Canacity 1390 lbs (630 kg) for 58 lb/ft3 media. 24 ft3 (680 l) **Usable Blast Media** Primarily designed for plastic and starch blast media. Also

functions superbly on glass, aluminum oxide or other common abrasive, except metals. For aluminum oxide an optional rubber lined HD cyclone is recommended

 $550\ lbs/hr$ (362.9 kg/hr) with 1/2" (13 mm) nozzle; 1.5 sp gr media. (450 lb/hr for 1.2 sp gr media) Media Flow Rate

Nozzle Hours/Charge 3 hours 20 minutes (lean); 2+30 (average), 1+40 (rich) 6400 lbs/hr (2900 kg/hr) for media with 1.5 sp gr **Media Recovery Rate**

220 CFM @ 100 psi (6.2 m3 /min @7 kg/cm2) for 1/2" nozzle Air Requirement

and operator breathing air

Tubular Dust Bags 30 bags with 140 ft2 (13 m2) filter area

Motor TEFC 7-1/2 HP, 3450 rpm, 3 phase, 208-230/460 volt 60 hz motor

with high static blower. Optional: 50 hz and other voltages

Motor Starter Included **BLAST GENERATOR**

24" (61 cm) Diameter

Bottom Cone 60 degree included angle Piping 1-1/4" (32 mm) Volume 6 ft3 (170 I)

Remote Controls RCP150P w/Feathertouch, auto refill on shutdown **Remote Control Hose** Poly Air Cable twin line yellow/gray attached to media hose Open Blast:: Tungsten Carbide BMLV-8, 1/2" (12.7 mm) Super Nozzles Venturi nozzle with thermoplastic jacket

Open Blast: 50 ft (15 m) long 1-1/4" ID (31.8 mm) x 1-7/8 OD (47.6 mm) plus 16 ft (4.9 m) of 3/4" ID (19 mm) x 1-1/2" OD Blast Hoses

(38 mm) whip hose for maximum operator ease

Moisture Separator Included 1-1/4" (31.8 mm) NPT continuous drain, #415-000

Air Pressure Regulator Included

Ahrasive Diverter Included 240-030-05

Media Aeration Fluidized bed in lower portion of pressure vessel

M-70 Mixing Valve **Magnetic Separator** Included

RECLAIMER

Cyclone separator, air wash, vibrating screen, storage hopper

900 CFM recovery system air flow (25 CMM) Air Volume Air Wash Adjustable independently for both volume and velocity

Hopper Volume 18 ft3 (510 I)

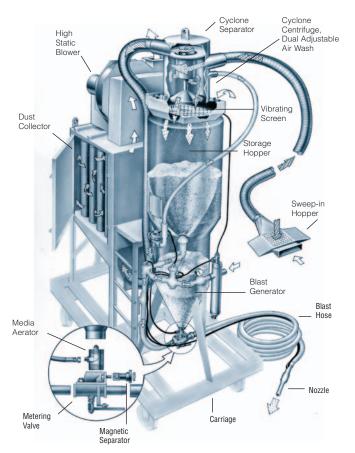
Pick Up Hopper

Pneumatically powered loading and recovery hopper with vibrating screen 24" wide x 24" deep x 24" high (61 cm x 61 cm x 61 cm). Optional Lo-Profile Media Recovery Hopper

for ultimate recovery sweep-in convenience. Active area 32" x 24" x 4" high (81 cm x 61 cm x 10 cm high)

Media Recovery Hose 25 ft x 5" (7.6 m x 13 cm)

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



DUST COLLECTOR

900 CFM air flow (25 CMM) Air Volume

36" wide x 36" deep x 124" high (92 cm x 92 cm x 315 cm) Dimensions 7-1/2 HP, 208-230/460 volt, 3 phase, 60 hz, TEFC. 50 hz optional **Flectric Motor** 10 HP, 2000 RPM, requires air supply of 280 CFM at 100 psi **Optional Air Motor** (8 CMM @ 7 bar)

Blower High static 30 inch (75 cm) water gauge Filter Area 30 dust bags with 140 ft2 filter area (13 m2)

Blower electric motor controlled with a manual starter in **Electric Controls**

NFMA 1 enclosure

RECOMMENDED OPERATOR PROTECTION PACKAGE

Protective helmet system with cape, inner and outer lens, 25 foot (8 m) air hose assembly, NIOSH approved 478-012-02 Extension air hose 25 feet (7.6 m) long for above helmet (total of 35 feet (10.7 m) NIOSH approved 280-095-02

478-012-12 Outer lens, package of 100 620-100-30 Tee, Valve and Hose Assembly includes pipe fitting, 1/2" valve,

10 ft (3 m) length of 1/2" I.D. air hose, coupled (purpose to connect air supply to breathing air filter) (Use approved

breathing air)

240-010-05 Breathing air filter, two outlet (Use approved breathing air)

478-013-06 Leather gloves 478-012-18 Air Conditioner 120-060-01 CO Monitor/Alarm 326-010-01 Leather jacket 469-015-02 Leather overalls

RAM 21-2 (494-000-02) Same RAM 21 except for 2 RAM blast generators and hose systems. Total media capacity 30 fts (850 l). Overall dimensions 135" x 48" x 172" high (3.43 m x 1.22 m x 4.37 m). Overall height with muffler 208" (5.28 m). Weight 3,000 lbs (1,364 m).

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.

