

The RAM DPS 3000 is a machine that allows you to separate and remove dense particles such as sand and metal chips from plastic or starch-based blast media.

Eliminating dense contaminants from media prevents these heavier particles from causing crack and fatigue initiation sites in metallic aircraft structures and allows the user to meet aircraft manufacturers and military specifications for media cleanliness, which are 200 ppm (0.02%) and 300 ppm (0.03%) respectively.



The DPS 3000 loads plastic media easily with the Sweep-In Lo Profile Hopper.

Controls particle contamination.

In large abrasive blast rooms and aircraft hangar systems, media can become contaminated. Even with the best cyclone separators, non-ferrous, non-magnetic materials and sand can be mixed with the media. The DPS 3000 was developed to separate good media from contaminants that can damage the surfaces being depainted.

RAM machines always reclaim media.

RAM Dry Stripping Machines have rapid and highly efficient media recovery and reclaim systems. The reclaiming process consists of aerodynamic separation via a cyclone centrifuge, a dual adjustable air wash, a vibrating screen and a magnetic separator. Paint, debris and other foreign matter are removed and routed to disposal containers. Cleaned media is then ready for reuse. Although this system has been highly efficient for most operations, it will not remove non-magnetic dense particles like sand that can occur in airframe hangar and large booth systems. In such systems, large objects are cleaned using an open blast nozzle with the abrasive falling to the floor. The possibility of non magnetic, non-ferrous dense particle contamination of the media being recovered from the floor has led to the development of the DPS 3000.

When super-clean recycled media is needed.

The DPS 3000 provides high volume dense particle separation. The unit is a processing device in which media continuously enters a chamber where it is mixed with air to form a fluidized dry mixture. Dense particles such as sand and metal chips sink to the bottom of the cleaning chamber. A specially designed gate mechanism on the bottom of the chamber is activated intermittently to discharge heavy particles. Extensive testing has proven the DPS 3000 is capable of removing 80% and more of the dense particles from typical plastic media. For example, media contaminated to the level of 200 ppm (0.02%) when processed in the DPS 3000 exits with a contamination level of only 40 ppm (0.004%).

Your application please.

The RAM DPS 3000 is available to recycle plastic or starch-based media used to clean parts and strip coatings from aircraft, auto, truck, railcar and bus bodies. For further information about the DPS 3000, contact Pauli Systems, Inc. We will be pleased to provide a recommendation for your application.

Pauli Systems RAM DPS 3000 Specifications

Model	DPS 3000
Height	17'8" (5.4 m) - Can vary to fit location or to accommodate different size storage hoppers.
Floor Space Required	12' x 9' (approximate) (3.7 m x 2.7 m)
Air Consumption	80 CFM at 100 psi (2.3 CMM at 7 bar)
Recovery Cyclone, Air Wash and Storage Rate	100 lb/minute (45 kg/min)
Dense Particle Removal Processing Rate	40 lb/minute (2,400 lb/hour) (18 kg/min, 1,100 kg/hr) Varies with media density & size
Electrical Circuit Required	20 amp at 460 volt, 3 phase, 60 hz 40 amp at 230 volt, 3 phase, 60 hz Optional - Other voltages, phases & hertz.

Features

- Lo Profile loading hopper
- 3000 lb (1,360 kg) bulk storage hopper with ladder and platform
- 900 CFM (25.5 CMM) cyclone separator and air wash
- Airlock feeder valve
- 900 CFM (25.5 CMM) dust collector with automatic bag shaker
- 30" (76 cm) vibratory screen separator, dual screen three deck
- 900 CFM (25.5 CMM) high static blower with 7 1/2 HP TEFC motor (10 kw)
- Media filter (dense particle removal section)
- Control panel with fused disconnect switch in NEMA 12 enclosure
- Level Sensor for bulk hopper overfill protection

Specifications may change at any time.

Customized size for any application



C5 departing system with high volume dense particle separation.

