

# FIGHTER AIRCRAFT DRY STRIPPING FACILITY



Media Reclaim Sub-System with Pauli Patented Dense Particle Separator.



Clean Media Transfer Dust Collector, Clean Media Hopper, Four Stripping Generators.



One of Two Dust Collectors Ventilating the Facility.



Facility Bi-Fold Doors.



Portable RAM 21-2 and Training Aircraft



PAULI SYSTEMS THANKS THE LADIES AND GENTLEMEN OF LOCKHEED MARTIN AERONAUTICS COMPANY IN FORT WORTH, TEXAS, EMVATIS S.A. IN ATHENS, GREECE, AND HELLENIC AEROSPACE INDUSTRY IN SCHIMATARI, GREECE, FOR THEIR LEADERSHIP AND SUPPORT DURING THE CREATION OF THIS "FIVE-MONTH MIRACLE" AS IT WAS DESCRIBED BY THE CUSTOMER.



Integrated Surface Finishing Systems

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

©2009 Pauli Systems Inc. DPSFLMHAI



Integrated Surface Finishing Systems



# FIGHTER AIRCRAFT DRY STRIPPING FACILITY



F-16 Before Stripping



F-16 After Stripping

- **Training Approved by US Military**

Pauli Systems not only designs, manufactures and installs Dry Paint Stripping Facilities, but trains your Operators to strip aircraft according to strict military technical orders. Pauli Systems understands that the best equipment in the world is not useful without skilled technicians to supervise and operate the system. That is why initial and recurrent training is available world-wide from Pauli Systems.

- **Patented FanBlast™ Nozzle**

Available only from Pauli Systems, FanBlast™ doubles the area stripped per minute, and is the only nozzle in the world that equally distributes particle energy across the stripping path.

- **In-Floor Media Recovery**

Pauli Systems' unique media recovery systems don't plug because they are designed from the ground up for this exact application. Pauli Systems does it right the first time, every time. You can stack a ton of media on a Pauli Systems floor recovery section, and there will be no plugging of the pneumatic conveying process—guaranteed.

- **Media Reclaim Systems**

Media reclaim is important because the economics of dry media paint stripping lies in using blast media several times before disposal. Pauli Systems unmatched engineering and patented equipment ensure that owners of its systems receive maximum benefit from every pound of media purchased. During stripping, new media is contaminated with paint particles from the aircraft, plus sand and debris from the ramp area as well as bits of tape and paper, metal flakes and so on. The reclaim section of a dry paint stripping facility must remove these contaminants, returning only clean media to the blast generators supplying the stripping nozzles.

This Pauli Systems facility reclaims media via a rigorous series of processes including:

- Centrifugal separation via latest generation high-velocity cyclone. This eliminates much of the “fines,” the unusable small, light particles.
- Air wash separation with exclusive dual-adjustable (independent adjustment of air wash velocity and volume) to fine tune the point at which fines are further separated and removed.
- Magnetic separator to remove ferrous particles.
- Ionization to prevent particles from agglomerating.
- Vibratory screen separation, a mechanical separation using gyrating screens to remove both oversized and undersized particles from the working mix. Correctly sized material leaving the vibratory separator now consists of reusable blast media and dense particle contaminants such as sand and metal. Removing these contaminants is the job of the final stage of separation.
- Dense Particle Separation. This is important because dense contaminants may be harmful to aircraft structure and must be removed to generally, a level no greater than 0.02%. This is the job of the Dense Particle Separator (DPS). Pauli Systems patented DPS works with unparalleled efficiency due to its

exclusive fluidized bed, microprocessor control, and operational independence from Operator input, humidity, temperature, altitude and a multitude of variables that affect other systems. The Pauli Systems DPS has documented success over a huge range of aerospace customers and has published its findings. The Pauli Systems DPS is a purpose-designed, supremely reliable engineering marvel that quietly does its job 24/7. This is not an agricultural seed/stone separator, but “the real deal.”

- **Massive Ventilation**

Two large Pauli Systems dust collectors provide ventilation in the working environment, ensuring good Operator visibility in a well lit dust-free environment. Good Operator visibility plus the right tools allow maximum production rates and aircraft stripped to the highest standard.

- **Excellent Lighting**

A brightly illuminated stripping facility with a light grey reflective floor coating and wall covering gives Operators every advantage in performing their stripping duties.

- **Supervisory Control Room**

Overlooking the stripping bay via a large window in the back wall is the Dry Paint Stripping Facility Control Center. From this position, separated from the equipment room and the stripping bay, supervisory personnel can oversee job progress and adjust stripping process parameters (nozzle air pressure and media mass flow rate) to engineering requirements for any aircraft.

- **Equipment Room**

This is the “engine” that drives the process. In this area lie the master control panel, floor recovery selector systems, recovered media intermediate storage, media reclaim including DPS, clean media transfer system to clean media hopper, dry stripping blast generators, and delivery hoses from the blast generators back in to the nozzles in the stripping enclosure.

- **Compressed Air Nook**

A clever cutout in the building eliminates the need for a forced air ventilation system to keep a compressor room cool.

- **Unique All-In-One Compressor**

The compressed air system is unique in that its sound-proofed enclosure contains a 250 HP air compressor, air cooled intercooler and refrigerant dryer in a single package.

- **Pauli System Proprietary Dust Collector**

Pauli Systems manufactures its own dust collectors because standard units can't do the job as well, or as economically. And these dust collectors are the only units in our industry that allow dust cartridges to be bagged and secured prior to removal, an extra safety benefit for operators.