MSG Group

Innovation for a Cleaner Tomorrow

Lets build the future of aviation together

GET IN TOUCH

We welcome inquiries, visits and collaboration opportunities.

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THE WORLD'S FIRST AUTOMATED SYSTEM FOR DE-SAND / WASHING OF AIRPLANES

An aviation industry Game changer

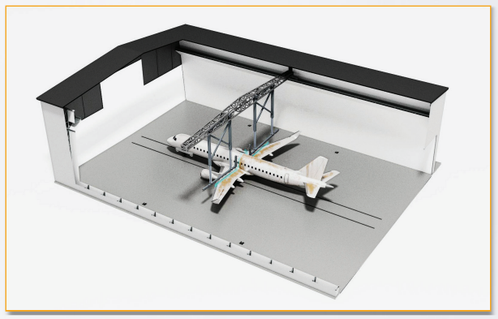
MSG presents the world's first automated, touchless aircraft treatment system, setting a new global standard for how aircraft are washed, de-sanded, flushed, inspected, and de-iced. This groundbreaking technology replaces slow, manual routines with a faster, safer, and more sustainable approach - built for the real-world challenges of modern aviation.

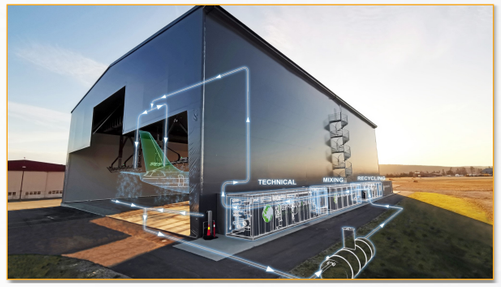
In sand-heavy and coastal environments, wind-blown particles can quickly wear down aircraft surfaces. The Multi Solution Gate allows operators to flush and clean aircraft in just minutes, helping maintain performance, reduce damage, and minimize costly downtime

Clean Efficiency - Clear profit

MSG's fully automated system brings a new era of speed, precision, and sustainability to aircraft maintenance.

Traditional aircraft cleaning is slow, resource-intensive, and causes costly downtime. The Multi Solution Gate performs a complete, touchless wash in as little as 20 minutes, significantly reducing ground time and improving operational efficiency.
With easier access and higher capacity, airlines can clean more often - reducing aerodynamic drag, improving fuel efficiency, and lowering emissions.





Our brush-free system protects paint, minimizes engine ingestion erosion, and helps extend the lifespan of aircraft exteriors - reducing the frequency of costly repainting and structural maintenance.

MSG uses a closed-loop system that captures, filters, and recycles water and cleaning fluids - preventing chemical runoff and dramatically reducing water consumption.
Better for your bottom line. Better for the environment

Core Advantages

- **Touchless Technology – No brushes. No damage.**
- **Eco-friendly – Closed-loop system collects and recycles all chemicals**
- **Time-saving – 20-minute wash cycles**
- **Cost-saving – Reduced labor and maintenance costs**
- **Fuel-efficient – Maintains smooth surfaces, saving up to 2% on jet fuel**
- **Corrosion prevention – Increases aircraft lifespan and paint durability**

One machine, Multiple functions

Hardware – Touchless Robotic System



AIRCRAFT WASHING

Dirty surfaces create additional resistance, making it harder for the aircraft to move through the air. By keeping the exterior clean, the aerodynamic profile of the aircraft is optimized, resulting in smoother airflow and reduced drag. Reduced aerodynamic drag directly translates to improved fuel efficiency.



DE-SANDING

Certain geographical areas are characterized by dry climates with blowing dust and sand. Sand and dust quickly form a layer over the entire aircraft.
A de-sanding process is needed to reduce surface drag and fuel consumption.



INSPECTION

Inspections are regularly scheduled and weekly performed on aircrafts as a part of the maintenance schedule after a specific number of flight hours.
Important for safe flying.



ENGINE FLUSH

The aircraft engine must be flushed as it accrues desposits of hydrocarbons over time.If not done, it leads to lower performance and higher fuel consumption.



DE-ICING

De-icing and anti-icing is performed to remove and/or prevent snow and ice from accumulate on the wings and tail on airplanes. A necessity and requirement for safe flying.



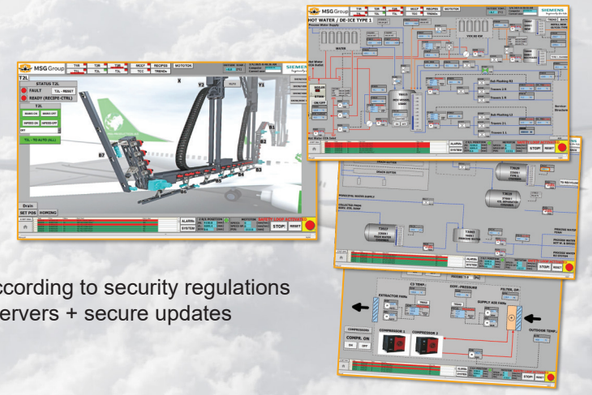
ADDITIONAL FEATURES

The facility is available with the capability to perform washing and de-sanding of Ground Support Equipment (GSE) and buses, providing customers with an efficient and effective maintenance solution.

Software – Fleet management system

SECURE AUTOMATION

- Cleanliness of aircraft body
- Cleanliness of engines
- Inspection
- Digital history of an aircraft
- AI progressive improvement



CLOUD AGNOSTIC

- Integration into cloud solutions according to security regulations
- Hybrid storage approach - local servers + secure updates
- Full remote system management

Efficient and eco-friendly ways of treating aircrafts