With our automated sealant dispensing solutions, the sky is the limit for aircraft production.
That’s where Nordson’s dedication to innovation can help. Our automated systems have been revolutionizing automotive production lines for decades. And now we’re doing the same for the aerospace manufacturing industry, by accelerating production with zero compromise on quality.

Our systems are purpose-built to meet and exceed the demanding standards of the aerospace industry. With the most comprehensive range of dispense valves and meter mix solutions, our technology can be configured to meet the most demanding production specifications, however stringent.

From aircraft doors to overhead lockers, our specialists design a custom process from the ground up, to help make your production more predictable and controllable than ever. So you can rely on the same product, finished to exactly the same standard, with minimum material waste or inconsistency.

We think it’s the kind of technological advance that’s precisely what aerospace manufacturers have been waiting for.

Aerospace manufacturing and assembly solutions

The aerospace industry moves fast. And with ever-increasing demands on production and faster turnaround times demanded by customers, manufacturers need to work smart to stay up to speed.

Automation innovation

We’re the industry leaders in production automation, working in partnership with material suppliers and integrators to design the perfect dispensing system. So every mixing and dispensing process automatically becomes more efficient.

Faster production

Need to speed up production with no compromise on quality? Not a problem. Streamline any production process requiring sealant mixing and dispensing, with a system that always applies precisely the right amount, in precisely the right place.

Improved quality means 100% consistency

With less chance of human error, quality levels are improved and product consistency becomes more reliable and predictable than ever. All of which means less waste, minimized rejects and maximized efficiency.
Nordson. The only name for automated dispensing in the aerospace industry

From wings and spars to external doors, overhead components and flight control gears, Nordson mixing and dispensing technology plays a crucial part, wherever precision is required.
Our application capabilities

Aerospace adhesive & sealant manufacturing

We provide a simplified manufacturing process for dynamic mixing of syntactic adhesives or sealants, in a compact bench-top system. Exactly what’s required if you need to improve quality and production when manufacturing compressible or difficult to mix sealant materials. From polysulfides to 2 component epoxies or low density void fillers, this means less production waste, easier maintenance and improved mix quality.

Applications:
• Bulk container unloading
• Pre-mixed frozen (PMF) cartridge material metering and mixing
• Bulk container, cartridge, syringe and pre-formed cap filling

Solution components:
• Power Mixer
• Rhino AB and Rhino AC Bulk Unloaders

Composite part edge sealing

Our systems enable accurate automated dispensing of two component epoxies to seal unfinished edges of fiber-reinforced composite structures. Left unsealed, these structures are susceptible to moisture ingress which can compromise structural integrity. With precision dispensing technology employed, these surfaces can be accurately sealed to exceed aviation requirements in half the time of manual application.

Applications:
• Floor and structural reinforcements
• Brackets and clips
• Interior cabin components

Solution components:
• 801 Series meter or Pro-Meter C2K
• 093 Series valves or 545 Series valves
• Rhino 5 gallon Bulk Unloader

Pre-mixed cartridge dispensing

Where manual application can result in inconsistent bead profiles that require rework and exceed weight specification, automated application of sealant from pre-mixed cartridges gets the job right first time, every time. JetStream features an articulating cartridge holder to load and unload pre-mixed cartridges. Its built-in volumetric dispense valve assembly eliminates material supply hoses and increases the accuracy of bead, volume and placement through automation.

Applications:
• Wing and spar sealing
• Fuselage sealing
• External door sealing

Solution components:
• JetStream Cartridge Dispenser
  – Sealing applicator
  – Brush applicator

Mix-on-demand dispensing

Reduce material handling complexities and prevent material damage by dynamically mixing wide ratio, two component materials at point of application. Mix-on demand enables bulk material supply and utilizes dynamic mixing technology for difficult to handle materials, ensuring a homogeneous blend from start to finish. All with the cost and efficiency benefits of moving away from cartridge dispensing for large volume applications.

Applications:
• Floor and structural reinforcements
• Brackets and clips
• Interior cabin components

Solution components:
• Rhino 5-gallon Bulk Unloader
• Robotic mount power mixer

Our range includes:

From our extensive portfolio of 1 and 2 component dispense valves, to bulk material supply, automation and precision metering solutions, Nordson Sealant Equipment has all the capabilities you need.
Nordson expertise is always here when you need it

In highly competitive manufacturing markets, productivity is vital and performance is essential. That’s why we apply both to everything we do, whether it’s our products, expertise or outstanding customer service. We’ll always be there to help maintain the new standards you’ve set, with expert local service and support delivered through our teams working across the globe.

This unique Nordson approach helps you reach new levels of production, while working more accurately, efficiently and competitively than ever. Precisely why manufacturers who demand quality, can rely on Nordson.

Nordson SEALANT EQUIPMENT

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