

Water Jet Solutions for Removing Pavement Markings and Runway Rubber



*The Leader in High-Pressure
Water Jet Technology*

NLB water jets put you miles ahead

If you want to remove road or runway markings faster and more thoroughly than abrasive methods — without damaging the pavement — you need an NLB water jetting system. Contractors, DOTs and airports agree that water jetting:

- completely removes coatings, membranes, thermal epoxies, and rubber build-up... even from grooved pavement
- leaves concrete and asphalt undamaged
- creates a stronger bond for restriping
- eliminates dust and debris, with optional vacuum recovery
- saves labor, since fewer operators are needed

- won't expose the environment or operating personnel to abrasive media or chemicals.

NLB delivers the power of ultra-high pressure water (up to 40,000 psi, or 2,800 bar) in automated and semi-automated systems. For long-line jobs, the STARJET™ removes up to 7,000 linear ft./hr., while our compact STRIPEJET™ is specially designed for short-line jobs, like parking decks and intersections.

Each includes our patented rotating nozzle assembly with an ULTRA-CLEAN 40® pump unit and water tank; and vacuum recovery of water and debris is usually recommended.



In one pass, markings are completely removed and the surface is prepared for recoating.

“It’s the most economical and efficient means of road preparation we have found. We highly recommend NLB.”

– Sue Willman
Willams and Willman Line Painting, Inc.
Kittanning, PA

Water Jetting



Water jetting completely removes stripes, without damaging the underlying pavement, better than any other method.

Grinding



Grinding can leave ruts in the pavement as well as traces of striping.

STARJET™ — the top choice for highways and runways

NLB's integrated STARJET™ system quickly and thoroughly removes stripes and other markings from long expanses of pavement.

Water jetting also results in a better surface over time. In Waterloo, Iowa, for example, water jetting was used to remove markings on one stretch of road, and grinding on another stretch. Both were then coated with epoxy, and after five years, much more striping remained on the water jetted surface. Similar results have been obtained in other states, where contractors report that waterjetting has improved their productivity and profitability.

Airport Applications

In addition to removing countless miles of highway stripes, NLB water jetting is increasingly popular with airports for rubber removal and runway maintenance. Controlling the build-up of rubber and other residues that reduce airplane traction helps keep runway friction values within the accepted FAA range, maintaining airport efficiency.

NLB can provide fully-automated or semi-automated UHP water jet systems. They have many advantages over traditional rubber removal methods like corrosive chemicals and mechanical "scrubbing":

- faster and more thorough
- less runway wear and downtime
- does not create messy residue
- cleans deep into the runway grooves
- minimal environmental impact

Typical STARJET™ features

Optional in-cab video lets driver focus on the road

Complete on-board system (UHP pump, water tank, vacuum recovery with reusable strainer basket)



The STARJET™ is a self-contained system that makes short work of long runs.

Optional dual heads for twice the coverage



A VORTEX™ quickly removes pavement markings from runways, and includes vacuum recovery (see back page).

Remove runway rubber with a STARJET™ or STRIPEJET™.



Unsurpassed productivity

StarJet™

NLB custom-engineers complete STARJET™ systems to meet customer needs. Each incorporates all the UHP water jetting components (NLB rotating nozzle assembly and pump unit, water tank, and optional vacuum system) on a heavy-duty truck. The nozzles are mounted to the front of the truck and operated from the cabin. Key specifications are shown here, with some typical configurations.

The driver hydraulically raises and lowers the nozzle assembly, which can be positioned to the left or right of the cab. A video system on the nozzle assembly lets him monitor progress from inside the cab while keeping his attention on the road.

As the most experienced manufacturer — and the only one who designs and builds everything in-house — NLB is your best source of water jet systems for pavement applications. Please contact us for further details and application advice.



STARJET™ system with: extra-large water tank, and 24" nozzle assembly, and on-board vacuum recovery with debris separation



STARJET™ system with: fresh water and pump unit, configured for optional vacuum unit trailer



STARJET™ system with: tow-behind vacuum recovery

StripeJet™

For areas with limited access (parking lots, garages, intersections), you'll appreciate maneuverability of the STRIPEJET™. It has a short wheelbase and tight turning radius, and maintains a smooth, consistent speed in forward or reverse.

Like the STARJET™, the STRIPEJET™ offers optional vacuum recovery and multiple nozzle assemblies, for cleaning paths from 8" to 24".



The STRIPEJET™ is compact and maneuverable.

ty & flexibility

FEATURES AND SPECIFICATIONS

Nozzle Assembly

- Front-mounted assembly hydraulically swings left-to-right, and up-and-down
- Rotating heads available for cleaning paths of 8", 10", 14", 15", or 24"
- Dual rotating heads available for even greater coverage
- Speed variable to 3,000 rpm with hydraulic drive and closed-loop proportional control
- Video observation system mounted on head
- Optional vacuum recovery attachment

Truck

- Hydrostatic drive maintains a consistent speed, 0-3 mph (4.8 km/h)
- Video display allows driver to monitor progress without leaning out of cab
- ULTRA-CLEAN 40® pump, water tank, and vacuum system mounted on truck bed
- Reverse removal mode

Controls

- Single control panel at driver's seat, plus remote pendant
- PLC-based for simplicity and reliability

Vacuum (optional)

- 1,000 cfm @ 6-8" of mercury
- 44 hp (33 kw) diesel engine
- Mounted on truck bed; trailer- and skid-mounting available



STARJET™ system with:
large water reservoir
below pump unit

"The STARJET™ leaves no dust, requires no extra equipment, and is twice as fast as sandblasting, shot-blasting or grinding for our applications."

– Sue Willman, Willams and Willman
Line Painting, Inc., Kittanning, PA

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Nozzle Assembly

- Front-mounted assembly hydraulically swings left-to-right, and up-and-down
- Rotating heads available for cleaning paths of 8", 10", 14", 15", or 24"
- Rotation speed variable to 3,000 rpm with hydraulic drive and closed-loop proportional control

- Optional vacuum recovery attachment

Vehicle

- Size: 10'-2" x 4'-0" (310 cm x 120 cm)
- Weight: 2,360 lbs. (1,070 kg)
- Speed: 0-12 mph forward; 0-5 mph reverse (19 km/h, 8 km/h)

Driver's Controls

- Nozzle rotation speed and stop/start, UHP water stop/start, speed, and cruise control

Vacuum (optional)

- 1,000 cfm @ 6-8" of mercury
- 44 hp (33 kw) diesel engine
- Trailer- or skid-mounted

THE NLB ADVANTAGE

Pavement marking removal is another innovative use of water jetting by NLB Corp., a leader in the technology since 1971. Contractors and industrial companies around the world depend on NLB pumps and accessories to solve difficult challenges in product removal, surface preparation, hydrodemolition, and much more.

Water jetting is fast and productive, and avoids exposing employees (and the environment) to chemicals or contaminants. It also simplifies clean-up and leaves a clean, dry surface. NLB helps you get the most out of water jetting, with a complete package that includes:

- pumps from 2,000 to 40,000 psi (140 to 2,800 bar), with a wide range of flows;
- diesel and electric models, with various horsepower and mounting options;
- dedicated, in-house engineering and R&D;
- unsurpassed selection of accessories and customizing options;
- advanced controls architecture, integrating the latest in controls hardware;
- purchase, rent or lease, from convenient regional offices;
- toll-free parts ordering, from the largest inventory in the industry;
- a global network of full-service distributors.

VORTEX™ for smaller jobs

For jobs that cannot justify an automated system, yet are too big to do manually, the VORTEX™ 36-9950-15A is the ideal tool. This lawn-mower-style unit removes pavement markings, floor coatings (thick or thin films) or runway rubber build-up with NLB's patented SPIN JET® technology, while an operator simply walks behind it.



The VORTEX™ is lightweight (138 lbs.) and features vacuum recovery.



Hard rubber wheels accommodate a variety of surfaces.

Reliable UHP pumps



- Over a dozen models to choose from
- Up to 40,000 psi (2,800 bar)
- Slow-running pump minimizes wear
- Built for continuous duty
- Truck, trailer, skid, or dolly mounting

NLB. The Contractor's Choice.



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