

SALES - CJ Spray is a full service company specializing in equipment to spray and apply fluids. From off-the-shelf solutions to fully customized and integrated solutions, we can configure equipment to fit your needs.

RENTAL - Our large rental fleet of spray equipment (single and plural component) and abrasive cleaning is ready whenever you need it.

SERVICE - CJ Spray eliminates downtime and keeps your equipment up and running with factory certified technicians and one of the nation's largest inventory of parts and equipment. Technical support is available in-house, on-site and over the phone.

SUPPORT - Starting with concept and design, through implementation and training, continued with service and technical support; partner with CJ Spray to help build your competitive advantage.

Industries Served

- Architectural Coatings
- Spray Foam
- Protective Coatings
- Paint Finishing
- Sealant & Adhesive
- Grout & Mortar
- Cleaning
- Lubrication
- Pavement Maintenance



Capabilities

- Custom Packages & System Engineering
- Material and Application Testing
- Service & Technical Trouble shooting
- Nationwide On-site Training or at Our 1st-class Training Facility
- Nationwide Rental
- Same Day Shipping
- Huge Inventory of New and Factory Reconditioned Equipment



Types of Equipment

- Personal Protection
- Air Drying & Control
- Pressure Washers
- Air Compressors
- Trailers
- Meters
- Fabrication
- Drum Handling Equipment
- Spray Guns
- Generators
- Filtration
- Pumps
- Automation
- Gun Washers
- Tanks, Containers, IBC's
- Fittings
- Air Hose
- Hose Reels
- Breathable Air Systems
- Abrasives
- Agitators
- Fluid Hose





Turn-key Plural Component Spray Solutions



Custom Packages to Spray High Solids, Quick-Setting Protective Coatings

Designed to Perform. Built to Last.

Engineered Customized Packages for the Latest Coating Technologies



Purchase pre-engineered packages from CJ Spray and take the guess work out of configuring your own solution.

Turn-key Solutions

CJ Spray has designed equipment packages to spray hundreds of different coatings, including some of the most difficult to spray coatings in the world.

Work out of the box

Pre-assembled packages come configured with electrical wiring and air/fluid plumbing already installed.

Reduce material and solvent waste

Properly configured equipment allows you to mix closer to the tip, reducing mixed material and solvent waste.

Simplified operation and training

Centralized control panels with well-labeled knobs and switches simplifies operation.

Minimize human error

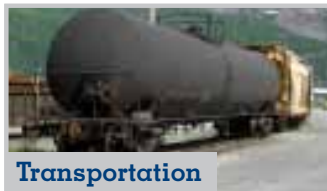
Easier operation means less mistakes. Optional warnings and alarms will shut down the machine if problems occur.

Applications



Infrastructure

- Water towers
- Wastewater facilities



Transportation

- Railcar
- Shipping
- Marine



Roadways

- Bridges
- Highways
- Manhole and Sewer



Utilities and Power

- Electrical Utilities
- Nuclear
- Wind
- Coal



Oil and Gas

- Tank storage facilities
- Pipelines
- Fireproofing
- Off-shore
- Gas processing and LNG
- Secondary Containment



Building and Construction

- Roof Coatings
- Structural Steel
- Rust Proofing
- Floor Coatings
- Waterproofing
- Air Vapor Barrier



Production and Manufacturing

- Heavy Equipment
- Steel Structure
- Walkway and Mezzanine
- Tank/Container
- Pipe



Mining

- Extraction
- Processing
- Infrastructure

Features and Benefits of Graco XP Proportioning Technology

Engineered Specifically for Two-component Coatings

NXT Air Motor

- Standard anti-icing feature means production won't stop due to motor icing
- Modular design for easier maintenance
- Rugged body armor won't rust or dent

Outlet manifold and valves

- Fluid pressure gauges to monitor pump output
- Provides automatic overpressure relief
- Includes circulation back to the supply for pump priming, purging, or relieving outlet pressure
- Allows fluid warm-up circulation when optional heaters are used

Mix Manifold

- Provides simple fluid control for mixing or flushing
- Accurately dispenses A and B fluids to the static mix tube
- Handles high-solids coatings with large ports and low pressure drop
- Choose to use mix manifold remote to reduce solvent and material waste

High-pressure to handle high-viscosity coatings

- Rated up to 7250 psi (500 bar, 50 MPa) to handle viscous materials and long hose lengths

Compact cart-mounted

- Designed for easy handling by one person
- Can be floor mounted after removing wheels
- Easy mounting of optional flush pump and heaters

Material Hoppers

- Side-mounted 7-gal (26 liter) hoppers hold A and B components until it's time to spray
- Made of rugged polyethylene — unaffected by harsh solvents
- Optimized for direct pump feed

Xtreme Pump lowers

- Standard Severe Duty® coating on rods and cylinder maximizes wear life
- Quick knockdown design and throat seal cartridges provide fast and easy maintenance
- Multiple sizes available to provide various fixed mix ratios
- Easily change one or both lowers to get desired mix ratio



Features and Benefits of CJ Spray XP Systems

Engineered Specifically for Two-component Coatings

Master Electrical Control Panel

- All electrical components come pre assembled and wired to best practice industry standards
- Panel is well labeled with illuminated switches for easy operation and training
- Optional digital controls for set-it and forget-it temperature control

Air Control Panel

- All pneumatic components come pre assembled and plumbed
- Panel comes well labeled with regulator and gage for each component simplifying operation and training

Auto Fill Panel

- Automatically fill heated hoppers from larger bulk containers
- Allows for continuous spraying by adding material in small volumes (*reducing temperature drop of product in hopper*)

Solvent Flush Pump

- Integrated flush pump quickly flushes mixed material from mix manifold through integrated hose and spray gun
- Integrated air regulator and gauge allows operator to easily increase fluid pressure up to 4,500 psi to flush the thickest protective coatings
- Optional Solvent Flush Pump Auxiliary Air Tank provides dedicated air source to flush in the event air source is disrupted

Inlet Y-Strainer

- Filters incoming material reducing downtime



Material Supply Systems

- Pressure feed material to the proportioner inlet to avoid risk of cavitation causing an off-ratio condition
- Packages for hoppers, 5-gallon pails, 55-gallon drums and bulk tanks
- Agitators, elevators, heat, auto-fill, meters, and level sensors are options to improve efficiencies

Heated and Unheated 25 and 35 gallon Hoppers

- Large volume hoppers with optional heaters to precondition material
- Durable carbon steel design. Powder coated blue (A component) and green (B component) for easy identification
- Immersion heaters available in standard or explosion proof design
- Easily mounts to Graco XP cart or CJ Spray custom frames

Auto Fill Sensors

- Low, Full and Over Fill Level Sensors on hoppers works in tandem with the Auto Fill panel to automatically keep the hoppers filled from a bulk supply container (i.e., 55 gallon drum or other bulk container)
- As material is dispensed out of hoppers the Auto Fill kit automatically turns on feed supply pumps. It adds approximately 35% of tank volume per fill. This dosing amount prevents the remaining pre-conditioned material from being overly cooled causing potential issues with mil coverage
- Over Fill Level Sensor signals operator at panel in event Full Level Sensor fails — preventing overfilling

Power Unit

- Electric Hydraulic (shown) — available in single or three phase to power Graco XP-h
- Pneumatic — Graco's reliable NXT air motor design standard on XP

CJ Spray Frames

- Heavy-duty powder coated frames allow easy access to key components for maintenance and repair
- Optional wheel kit available (not shown)
- Forklift pockets accessible from all four sides with D-Ring lift hooks

Single Air Inlet and Electrical Connection

- Quick and easy setup with single air and electrical connection



XP Pneumatic-driven Proportioners



Mix Ratio by Volume	Max Fluid Pressure (psi)	Flow Rate at 40cpm (gpm)
XP70*		
1:1	7250	1.91
1.5:1	7250	1.52
2:1	7250	1.84
2.5:1	6500	2.14
3:1	6800	2.04
4:1	7250	1.91
XP50*		
1:1	4500	3.06
1.5:1	5500	2.55
2:1	4800	2.87
2.5:1	5200	2.68
3:1	4500	3.06
4:1	4500	2.87
XP35*		
1:1	3800	1.91
2:1	4000	1.84
2.5:1	3400	2.14
3:1	3600	2.04
4:1	3800	1.91

**Other mix ratios available*

Benefits of Pneumatic-Driven XP Proportioner:

- Utilize your own air source to power the proportioner (80 - 140 scfm depending on options)
- Lower initial cost than Hydraulic system
- Easy operation and minimal maintenance

Three Models to Choose From:

- XP70 — Extreme pressure (up to 7,250 psi) to handle high viscosity epoxy coatings up to 100% solids content
- XP50 — Same equipment as XP70 but with larger volume displacement pumps. Ideal for high volume applications when extreme pressure is not required
- XP35 — Uses smaller NXT 3400 air motor which is optimal for lower viscosity coatings. Lower 3,500 psi pressure rating is ideal for mix-at-gun applications.



XP-h Hydraulic-Driven Proportioner



Mix Ratio by Volume	Max Fluid Pressure (psi)	Flow Rate at 40cpm (gpm)
XP-h 70*		
1:1	7250	1.9
2:1	7250	1.8
2.5:1	6786	2.1
3:1	7100	2
4:1	7250	1.9
XP-h 50*		
1:1	4700	3.1
2:1	5050	2.9
2.5:1	5430	2.7
3:1	4700	3.1
4:1	5000	2.9
XP-h 35*		
1:1	3150	4.6
2:1	3150	4.6
2.5:1	3384	4.3
3:1	3500	4.1
4:1	3800	3.8

**Other mix ratios available*

Benefits of Hydraulic-Driven XP Proportioner (Industrial):

- Eliminate freeze-up issues associated with pneumatic motors
- Electric/Hydraulic power unit is more energy efficient than compressed air lowering operating cost
- Less operating noise compared to pneumatic XP

Benefits of Hydraulic-Driven XP Proportioner (Mobile):

- Eliminate freeze-up issues associated with pneumatic motors
- Eliminates the need for a large air compressor making more room in a mobile trailer/truck
- Reduce diesel fuel consumption
- Easy operation and minimal maintenance

Power Unit Options:

- Electric — Available in 240 V or 480 V. Single or three phase
- Gasoline — Air or liquid cooled
- Diesel — Liquid cooled
- PTO Takeoff — From vehicle or generator engine



Material Feed Supply

Plastic 7 gallon non-heated hoppers

- Manually filled from pails
- Made of polyethylene and unaffected by harsh solvents
- Color coded



Metal heated hoppers

- For temperature conditioning of high viscosity materials
- 25 gallon and 35 gallon double-walled fluid hoppers
- Comes standard with agitator
- Set up for gravity or accommodates supply pump (2:1, 5:1, 10:1)
- Three heat options:
 - Immersion heater with thermostat (non-hazardous)
 - Explosion proof immersion heater with thermostat (hazardous)
 - Viscon in line heaters
- Porting to accommodate circulation from heated hose and/or proportioner
- Manually filled from pails or bulk container using pump
- Automatically filled from bulk supply with optional Auto-Fill kit
- Can be mounted to Graco's standard XP cart or CJ's custom skid and cart



Auto Fill System

- Automatically fill heated hoppers from larger supply container (55 gallon or tank)
- Fills hoppers more often in smaller dosing amounts preventing delays during application while waiting for material to come up to temperature
- Overflow sensor provides extra layer of protection against overflow if main fill sensor fails. Indicator light alerts applicator of failure
- Manual Fill Override easily allows applicator to top off hoppers at end of day



55 gallon drum supply

- Can configure for open and tight head drums
- Supply pumps include 1:1, 2:1, 5:1 and 10:1 options
- Agitators
 - Bung mount Twistork (screw) or expandable blade
 - Back-gearred paddle agitators for higher viscosity materials
- Drum heaters
- Elevators for open head drum applications
- Drum return tubes for circulation kits with optional desiccant dryer cartridges




Bulk tank supply


- Dimple-jacketed stainless steel heated tanks (hot glycol flows through dimple-jacket)
- Polyurethane bulk tanks
- Pressure tanks in various sizes



Primary Heaters


- ☞ Condition the A/B material providing a consistent spray pattern and consistent mil coverage control
- ☞ In remote mixing applications, independent heaters and temperature controls help balance the fluid back pressures at the mix manifold to assure mix ratio accuracy
- ☞ Reduce the component viscosities allowing the mixed materials to be applied using lower fluid pressures

	<p>Graco Viscon® HP</p> <ul style="list-style-type: none">• Models available for hazardous and non-hazardous locations• 7250 psi maximum fluid working pressure• 2300 watt models available in 120VAC, single phase• 4000 watt models available in 200, 240, 380 and 480VAC, single phase• Set-it-and-forget-it temperature controls available with "Advanced" control panel
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	<p>Graco Viscon® HF</p> <ul style="list-style-type: none">• Supports high production flow rates — 7250 psi maximum fluid working pressure• Models available for non-hazardous locations• 5400 watt thermostat controlled or externally controlled RTD feedback model available• Cleanable heater core design• Set-it-and-forget-it temperature controls available with "Advanced" control panel
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Remote Mix Manifold and Static Mixers

- ☞ Reduce material waste and solvent costs by locating the mix manifold close to the spray gun. This minimizes the amount of mixed coating and solvent required to flush. Also, required for coatings with short pot lives. Manifold meters A/B material into downstream static mixers that thoroughly blend the two mixed materials for spraying

	<p>Optional Carriage</p> <ul style="list-style-type: none">• Standard single-flush mix manifold is mounted on sprayer and can be removed and remote mounted using an optional carriage
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	<p>Quick-Set Manifold</p> <ul style="list-style-type: none">• Quick-set mix manifold includes independent A/B solvent flush ports (<i>dual-flush</i>), carriage, gauges and static mixers
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Heated and Unheated Hose

Ⓞ Maintains primary heater set-point temperature.



Graco Water (glycol)-jacketed Heated Hose

- Uses Graco Husky diaphragm pump and Viscon heater to circulate glycol to heat hose
- Faster temperature rise than electrical heated
- More uniform heat over length of hose without "hot-spots" for more consistent spray pattern and mil coverage (*pressure ranges up to 7250 psi*)
- Approved for hazardous environments



Graco Low-Voltage Heated Hose

- Graco Low-Voltage Heated Hose (*pressure ranges up to 5000 psi*)
- Not approved for hazardous environments
- Uniform and even heated material, however "hot-spots" arise when hose overlap occurs
- Large transformer controller required to convert high voltage to low voltage



WIWA High-Voltage Heated Hose

- Pressure ranges up to 8100 psi
- Approved for hazardous environments
- Digital controller available for hazardous and non-hazardous environments
- Uniform and even heated material, however "hot-spots" arise when hose overlap occurs



Unheated Hose

- Pressure ranges up to 7250 psi
- Custom and pre-configured sizes and lengths
- Insulation and scuff jacket available to help better maintain fluid temperatures



Spray Guns



Graco XTR 5 (5,000 psi) and XTR 7 (7,250 psi)

- Two and four-finger trigger options
- Insulated and non-insulated handles
- Built-in hose swivel
- Change tip sizes in seconds without removing the tip guard housing



Binks Airless 75 (shown) and 75 Direct Connect (7,500psi)

- Airless 75 equipped with large fluid tube inlet
- Airless 75 Direct-Connect utilizes spray hose connecting to gun inlet
- Both models ideal for high solids and filled materials due to low inlet restriction
- Heated material does not pass through handle for operator comfort
- Change tip sizes in seconds without removing the tip guard housing



Graco XHF Spray Gun (7,250 psi)

- High-flow, high pressure gun
- Easily handles high-viscosity coatings, fiber filled materials and epoxy intumescent materials
- Reduced clogging means more uptime



Binks Airless 43P (3,500 psi)

- Two-component mechanically operated spray gun
- Solvent purge
- Equal and off-ratio mix ratio available



Graco Probler P2 (3,500 psi)

- Two component air-operated spray gun
- Air purge
- Equal and off-ratio mix available



MP

Graco Fusion MP and AP (3,500 psi)

- Two component air-operated spray gun
- Mechanical Purge MP / Air Purge AP
- Equal and off-ratio mix available



AP

Other manual and automatic spray gun models available. Optional accessories are also available including tips, extensions, swivels, RAC tips and pole guns.

Optional Equipment



Graco Pressure Monitor

- Monitors A/B spray pressure and shuts down sprayer if conditions occur such as running out of material, pump cavitation, packing failures, leaks in valves and fittings or plugged filters
- Provides better overall productivity — projects are done on time!
- Reduced labor and rework costs — confidence in end results and quality



Graco Merkur 45:1 Solvent Flush Pump

- Higher output pressure allows spraying out of mixed material reducing waste
- Easily mounts on slotted holes of Graco XP cart



Data Track

- Material usage
- Runaway protection
- Pump Diagnostics



Stroke Counter

- Totalizer and resettable job counter
- Inexpensive proximity sensor design
- No moving parts
- Does not come into contact with fluid



Graco Gun Splitter

- Allows two spray guns with XP proportioner systems improving production
- Can independently clean and flush one gun while the other remains in use
- Optional mixed material through port for third gun



CJ Spray Custom Frame Assemblies

- Provided completely assembled and ready for use (*optional wheel kit available*)
- Rugged, durable frame construction
- Panel controls centrally located for ease of use
- Equipment accessible for easy service and repair
- Single electrical and pneumatic connection

Integrated Controls

Electrical Enclosure

Graco electric heaters come without electrical wiring leaving it up to the end user to safely wire an electrical control enclosure and associated wiring. CJ Spray's optional electrical enclosures come pre configured using industry best practices for safety and equipment protection. Available in 240 or 480 Volt power source.

CJ Spray electrical enclosure features:

- All electrical equipment comes pre-wired to control panel reducing setup time and cost
- Clearly labeled controls and illuminated switches simplify operation
- Each electrical component is safely protected by a dedicated circuit breaker
- Main on/off disconnect for incoming power to enclosure
- Emergency Stop (e-stop) shuts down all pumps and electrical components

Basic Electrical Enclosure (*not for explosive atmospheres*):

Clearly labeled controls simplifies employee training and reduces operator error. Package comes completely wired and ready to accept a single incoming power source. Power cord and plug styles are available upon request. Packages include NEMA 4 enclosure with main on/off power disconnect, individual on/off illuminated switches per heater, circuit breakers, and vapor-tight connections.

The basic electrical configuration provides best practice electrical design and the on/off electrical function for the heaters only. The temperature setting is controlled at the thermostat knob on each individual heater.

- Primary heater
- Heated hose (electrically heated or Graco water (glycol)-jacketed heated hose)
- Heated Hoppers

Advanced Electrical Configuration (*not for explosive atmospheres*) — "Set-It and Forget-It Controls":

This package makes "dumb" Graco heaters "smart" by providing controls to monitor and maintain a fluid temperature set-point.

Digital controllers work with:

- Graco Viscon family of primary heaters
- Graco water (glycol)-jacketed heated hose — monitors product temperature and controls glycol temperature to maintain product temperature set-point.
- WIWA electric heated hose
- Immersion heaters used on heated hoppers

Explosion-proof control panel (*for use in explosive atmospheres*):

Same functionality as basic electrical enclosure package but configured with a Class 1, Division 2 electrical control box for hazardous duty environments. Use in combination with hazardous duty Viscon heaters and hazardous duty immersion tank heaters.



Questions? Need advice? Call CJ Spray toll-free today! 1-888-CJSPRAY (1-888-257-7729)

Pneumatic Controls

Air Control Panel

Simplify operation and setup using CJ Spray's pre configured pneumatic control panel.

CJ Spray pneumatic control panel features:

- All pneumatic equipment comes pre-plumbed to control panel providing single air inlet attachment for the system
- Clearly labeled regulators and gauges all in one place simplifies operation
- Single 3/4" vented inlet air valve quickly shuts off all pneumatic equipment in case of emergency (not used with e-stop configured electrical control panel)

Independently control:

- Each feed pump
- Hose heat pump (water-(glycol) jacketed hose only)
- Solvent flush pump
- Agitator on/off valve (tamper-proof regulator and needle valve used to control agitators)



Auxiliary Solvent Flush Pump Air Tank

Dedicated air source to solvent flush pump allowing applicator to flush integrated hose even if air source is interrupted.

XM Plural Component Sprayer



For more info check out the XM Sprayer Brochure

Variable Ratio Control with the Push of a Button

Be more flexible with your coatings by investing in a system that can quickly and accurately change ratios from 1:1 to 10:1. Go to www.cjspray.com/graco-xm for more information and configure your own XM.



Premium Mobile Spray Rigs



- The Lineup**
- 16 ft Bumper-Pull Trailer
 - 20 ft Bumper-Pull Trailer
 - 28 ft Gooseneck Trailer
 - Custom Box Truck



Turn-key Trailer and Truck Installations

CJ Mobile Rigs are designed specifically for the protective coatings market. We understand what it takes to make a successful, portable spray system. Our rigs are completely turn-key with the spray system, generator, air compressor, air drying equipment, fresh air supply, heaters, air conditioners and circulation systems. Go to www.cjspray.com/mobile-foam-spray-rig for more information.

For more info check out the *Mobile Spray Rig Brochure*

Standard Features



Fully Insulated

CJ Spray Mobile Rigs are fully insulated with sprayed polyurethane foam for the best insulation while adding structural strength to the trailer.



Heated Hose Wrap

Holds up to 410 ft. of hose. Designed with no sharp edges to tear or fray protective scuff jacket. Includes mounting bracket for heated hose circulation manifold.



Work Bench and Cabinet

Galvanized steel work bench with vise, grinder and overhead white aluminum locking cabinets.



Generator/Air Compressor

All rigs come with generators and air compressors from leading manufacturers and are approved installations backed by warranty.



Fit and Finish

Interior lined with white laminated plywood. White aluminum trim in corners keeps the fluid and air hoses concealed for professional look.



Trailer Specs

Manufactured by United Trailers w/ 7.5' interior height, double I-beam construction w/ support studs on 16" centers. Backed with a 5-year warranty.



Barrel Braces

Engineered to hold two or three sets of material securely for a mobile application.



Separated Utility Room

Generator is installed in separate utility compartment, sealed from the spray/work space — reducing noise and exposure to emissions.