



# Ask the Experts

## How to Improve Your Operations with Spray Technology

Whatever your industry or spray application — food processing, chemical processing, pollution control, steel production, paper production, metalworking or fire protection — optimizing your spray system can improve your product quality and increase the efficiency.

**Spraying Systems Co.** — the world's leading expert in spray technology offers a wide range of spray solutions including:

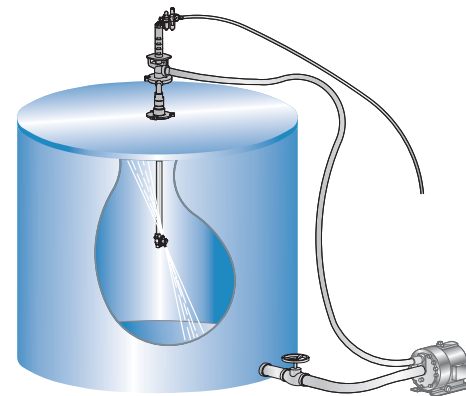
- Thousands of different spray nozzles to provide the exact performance you need
- Custom-built spray lances, manifolds and shower headers
- Turnkey systems to monitor and control your application
- Advanced spray research and testing to optimize your system

Listed here are just a few of the applications we have helped customers optimize. For more information on how we can help you, visit [www.spray.com](http://www.spray.com) or contact your local Spraying Systems Co. sales engineer.

### Cleaning

- Tank and vessel cleaning
- Sanitation in food processing plants
- Car and truck washing
- Descaling steel
- Etching printed circuit boards
- Cleaning screens and filters
- High pressure washing
- Cabinet- and tunnel-type parts washers
- Animal carcass washing
- Washing cans and bottles before filling

**Spray Tip:** Automated tank cleaning saves time, increases worker safety and cleans more effectively.



### Coating

- Tablet coating
- Coating meat for pathogen protection
- Coating baked goods with egg wash, butter or glazes
- Microencapsulating active ingredients
- Applying special coatings on paper
- Glazing of bricks and tile
- Internal coating of food and beverage cans
- Bread pan oiling
- Coating glass to prevent breakage

**Spray Tip:** Spray controllers can automatically adjust flow rate and coating weight based on line speed.



### Cooling

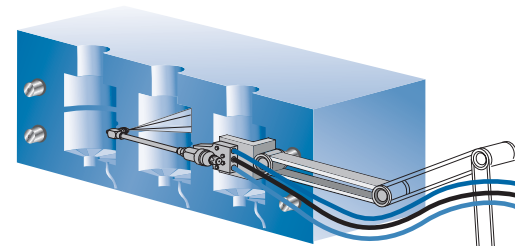
- Cooling steel in continuous casters
- Quenching metals after heat treating
- Roll cooling in steel mills
- Cooling food jars after processing
- Zoned cooling of roofing materials
- Evaporative cooling for livestock and poultry
- Cooling extruded PVC pipe
- Spray ponds to cool water from heat exchanger

**Spray Tip:** Drop size has a significant effect on heat transfer cooling efficiency.

### Lubrication

- Lubricating molds and dies
- Lubricating conveyer chains and gears
- Hydraulic press oiling
- Applying lubricants and protective oils to metal sheets and strips
- Lubricating cutting blades
- Lubricating conveyor chains
- Lubricating carpet and textile fibers to prevent breakage
- Spraying lubricant on tires for mounting to rims

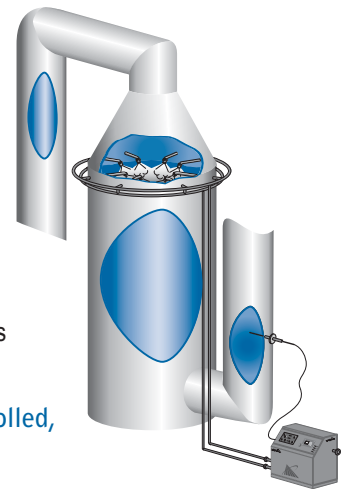
**Spray Tip:** Reduce die wear, misting, and over application of lubricants by using high transfer efficiency spray guns.



## Gas Conditioning & Dust Control

- Cooling and humidification prior to electrostatic precipitation
- Gas scrubbing in ducts and scrubbing towers
- Aqueous ammonia injection for NO<sub>x</sub> control
- Humidification of lime slurry for SO<sub>2</sub> removal
- Coal and ore dust control at dumping, loading and conveyor transfer points
- Controlling iron oxide dust in steel rolling mills
- Dust containment at cement plants
- Dust suppression in grain bin loading
- Centrifugal wet dust collector
- Fly ash discharge from stacks and incinerators
- Air washers in air conditioning systems
- Odor control in tire manufacturing processes and smokestacks

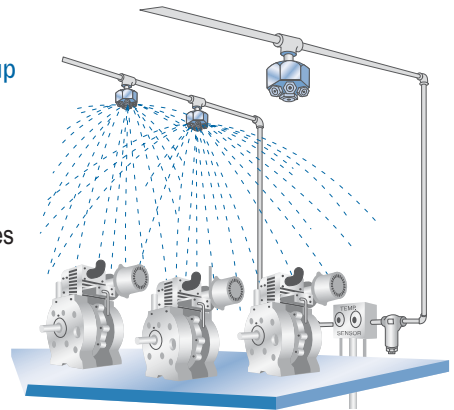
**Spray Tip:** Ensure optimal spray nozzle performance by using a temperature controlled, closed-loop, gas conditioning spray system.



## Marking

- Marking flaws in non-woven products
- Marking nail lines on roofing materials
- Marking products for identification
- Spraying bar codes

**Spray Tip:** Improve marking accuracy with automatic spray nozzles that cycle up to 10,000 times/minute.



## Fire Protection

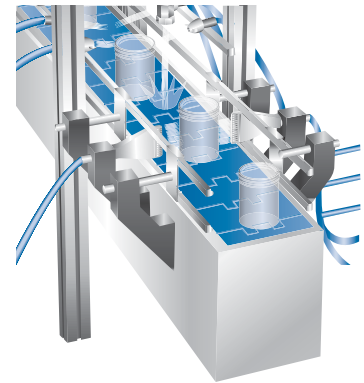
- On ships and submarines
- Industrial kitchen appliances and exhaust hoods
- Telecommunication and computer racks
- Petrochemical storage tanks
- Pipe tunnels in steel mills and refineries
- Rocket and missile launch pads
- Offshore oil rigs

**Spray Tip:** Choose spray nozzles that produce a very fine water mist to absorb heat in areas where combustion may occur.

## Humidifying & Fogging

- Humidifying printing plants
- Sanitizing food processing equipment
- Preventing cross-contamination during pharmaceutical manufacturing
- Humidifying greenhouses
- Eliminating static electricity in PCB manufacturing
- Humidifying clean rooms

**Spray Tip:** Protect sensitive equipment from static electricity by controlling the humidity level.



## Air Control

- Bottle and can drying
- Blowing off excess liquid after parts washing
- Removing liquid from aluminum sheets
- Drying printed circuit boards
- Creating air curtains in multi-stage parts washers

**Spray Tip:** Air knives can greatly reduce compressed air costs and noise by using the lowest possible flow to achieve the desired result.



Easily specify and order your nozzles online at [www.spray.com/ispray](http://www.spray.com/ispray).



**Spraying Systems Co.**  
Experts in Spray Technology



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Control



Spray  
Analysis



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