

Uni-Spray
Systems Inc.



PRECISION COMPONENTS FOR THE FOOD & BEVERAGE INDUSTRY

**Filler Seals, Conveyor Grippers,
Spraying Equipment and High-Quality,
Long-Life Wear Parts**

uni-spray.com

Uni-Spray Packaging Machinery Components

Uni-Spray offers an extensive line of wear components and spray equipment for the food and beverage industry.

Our replacement parts are manufactured from the highest-quality materials to provide customers with products that are not only superior in performance but also capable of withstanding wear and tear or decay.

Long-lasting parts mean fewer replacements, which mean fewer shutdowns and significant savings for our customers around the world.



Elevator-Lowerator Grippers, Chains and Carriers



Conveyor Grippers, Chains and Carriers Used to Raise, Lower, Rinse, Sterilize and Invert Products

Uni-Spray's high-quality grippers are made from cutting-edge thermoplastics that offer many benefits over standard rubber components. Our lightweight, FDA-approved materials reduce wear and extend chain and drive life. These high-performance products are available in several designs to suit your application.

Lubrication and Cleaning



Conveyor Lubrication

Conveyor systems require proper greasing to reduce friction, which saves time, energy and money. **C1-MC2** flat-spray nozzles and **E1** atomizers are ideal for accurately applying a wide variety of lubricants.



Mold Lubrication

Correct lubrication of the mold is key to successful baking. The **MX-CX-PA1** hydraulic atomizers deliver precise, uniform spraying specifically adjusted to the mold's dimensions.



Conveyor Belt Cleaning

Conveyor belt and box cleaning is essential in the food industry. For deep-cleaning action on dirt or residue, choose flat-spray options such as our **CD4** or **CD3** deflection nozzles. For lite-duty applications, our easy-to-clean, full-cone **MBE-MB2** is ideal.



Fruit and Vegetable Cleaning

Fruit and vegetable cleaning improves produce esthetics and ensures compliance with safety and hygiene protocols. The flat-spray nozzles **C1-MC2-MC3E** offer low-profile action that delivers high-impact cleaning.



Bottle and Can Cleaning



Bottle and Can Cleaning

During production, all cans and bottles are cleaned and disinfected. The most suitable nozzles are the flat-spray **MC3E-CD3** and full-cone **B7-BB7** due to their triangular and circular spray patterns.



Rinser Gripper and Bottle Washer Components

Uni-Spray's high-wear, long-life rinser grippers keep packages secure when they are inverted for cleaning prior to filling. These products are available in many styles and custom designs to suit your application. We offer an extensive line of high-quality replacement parts designed specifically for each of the major OEM bottle washers. Our line includes backrests, roller shafts, soaker pockets and rinser cups, all of superior design and composition. Our products also eliminate many of the ongoing issues found in the parts originally supplied with your equipment.

Filler Seals | Centering Cups | Valve Components



Bottle Filler Seals

Uni-Spray manufactures high-quality FDA-approved TPU and TPE seals molded to exacting standards in extremely wear-resistant material and available in various colors, materials and durometers (**35-95 Shore A**).

Valve Components

Uni-Spray produces a variety of components that fit inside filling valves. Made from high-strength, high-temperature materials, these components perform flawlessly during hot CIP.



Centering Cups

Uni-Spray custom manufactures a range of centering cups to fit many machines in a variety of different designs. Our specialty is a two-piece centering cup with snap-in polyurethane insert seals. The hard delrin cup is molded or machined to fit our seals impeccably for an extremely sanitary cup.

One-Piece Seal System

Uni-Spray is home to the One-Piece Seal System. In this system, the seal replaces the centering cup, sealing rubber and often the retaining clips. Replacement takes seconds: simply snap the seal into the holder by hand. Seals are color coded and can be manufactured in various designs to accommodate plants with multiple lines or multiple products run on one line.



Can and Keg Filling Seals

Uni-Spray manufactures can filler and keg seals used during filling and cleaning. Made from high-strength thermoplastic elastomers, these seals wear well even when in contact with high-pressure steam. Our can and keg seals are available for several brands of equipment and fit a variety of applications.

Capper and Labeller Components



Capper and Labeller Pads

Uni-Spray offers a unique line of capper and labeller pads that provide wear characteristics unattainable from typical rubber components. The material composition of our pads resists severe compression, which results in longer life span and fewer changeovers. Our manufacturing process and design considerations ensure our customers a superior product at very competitive prices.



Torque Seals and Neck Knives

When threaded caps are installed on bottles, our high-quality torque seals will not lose grip and our neck knives will keep the package secure. These products can be custom designed to suit your specific application.

Coating, Scoring and Moistening



Coating

Depending on the product you're spraying and the desired finish, several different nozzles can be used. Pneumatic atomizers and flat-spray nozzles are perfect for coating, while hydraulic atomizers and Speedyjet nozzles are ideal for the precise and uniform spraying of oil, butter, syrups and other dressings.



Scoring

Cutting and scoring can be carried out by using spray nozzles and pressurized water to make incisions in the paste. This automated method reduces time and waste.



Moistening

Baking products are often moistened with water to aid adhesion, for example, when applying seeds. For basic applications, low-flow, flat-fan nozzles provide uniform distribution. A good example is our **MC2** nozzle.



Pasteurization



Pasteurization

One of the last production steps is thermic treatment in a pasteurizer. The **MBE-BANV-MB2** full-cone nozzle ensures wide and uniform coverage during this process.



Uni-Spray Clip-On

Uni-Spray's Clip-On full-cone nozzles are the perfect solution for pasteurizing systems. These high-quality, economical nozzles are easy to install, work well in large systems and last for years. Uni-Spray nozzles are corrosion- and heat-resistant and impervious to most chemicals. The tip design resists clogging and buildup due to its smooth shape and low coefficient of friction. Uni-Spray can also custom design piping systems to maximize the capacity of your new or existing equipment.

Drying and Humidification



Drying: Bottles, Cans and Labels

After washing or pasteurizing, compressed air removes residual liquid from surfaces. Air nozzles **C5-A41WJY-P1WJY** are ideal for this application.



Sorting and Discarding

Compressed air can be used to sort, convey or remove any item from production. The **P1WJR15Y-MSA** air nozzles are perfect for this application.



Humidification Systems

After years of experience in the production and sale of atomizers, we developed an automatic system that can be used in applications ranging from humidifying baking ovens and storage spaces to cooling. These systems maintain constant humidity in industrial sectors; such as the textile, food and paper industries.

Cleaning, Sanitization and Mixing



Tank and Container Washing

Effective tank cleaning depends on choosing the most suitable nozzle for your application. With our wide range of fixed, rotating, and retractable cleaning heads, we offer the best nozzle for almost any application.



Cleaning and Sterilization

Sterilization is vital in the food industry. Your choice of nozzle will depend on your application. For the application shown, the micro-cleaning heads **M6LSD-LSMOD1** are perfect because they can fit inside the vial.



Mixing

Mixing or blending fluids and ingredients is common in the food and beverage industry. Tank Mixing Eductors (TMEs) enable small pumps to circulate large tanks. The suction produced by the venturi action of the eductor greatly amplifies the pump's mixing capacity. Solids in the tank are kept from settling by the discharge plume's velocity. The eductors maintain critical velocity of the solid particles.

Liquid Filtration



High-Flow, Self-Cleaning Filters

For this application, our self-cleaning filters remove solids ranging in size from as small as 40 microns in diameter. These devices are easy to install and allow continuous filtration. A self-cleaning filter is particularly important for applications where continuous filtration is required.



Static Filters

Static filters do not self-clean but they are a lower cost and filter solid particles from 50µ in size. For your static filter needs, the **ALSF3-PSF3-P-SF8** delivers high-operating efficiency, thanks to the particular ratio between the inlet surface and the filtering surface.



UNI-SPRAY SYSTEMS INC.

World-Class Product Lines | Cutting-Edge Manufacturing Technologies

Uni-Spray Systems Inc. is an ISO-9001 certified full-service, high-precision manufacturing company that provides its worldwide clients in over 60 countries with a single source for molded plastic parts and assemblies.

The Uni-Spray product range is highly diverse and includes four core product lines: our proprietary range of pre-treatment and spraying systems that is the foundation of the Uni-Spray name; our exclusive range of Amerispray-branded spray nozzles; our ever-expanding line of packaging machinery wear parts; and our extensive custom injection molding, design and engineering services.



Our Four Division Solutions for the Most Demanding Applications

1

Uni-Spray™ Brand Spray Equipment

Global Leader in Industrial Pre-treatment Systems

- Spray Nozzle Systems
- Quick Disconnects
- Saddles
- Eductors
- Complete Piping Systems

2

Amerispray™

Nozzles for every industry exclusively from Uni-Spray Systems Inc.

- Spray Nozzles
- Atomizers
- Filters
- Tank Cleaning

3

Packaging Machinery Components

High-Quality, Long-Life Wear Parts and Spraying Equipment

- Filler Seals
- Conveyor Grippers
- Spray Systems for the food and beverage industry

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Custom Injection Molding

Full-Service Custom Injection Molding

- High-Volume Manufacturing
- Engineering
- Design
- Prototypes and 3D Printing

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