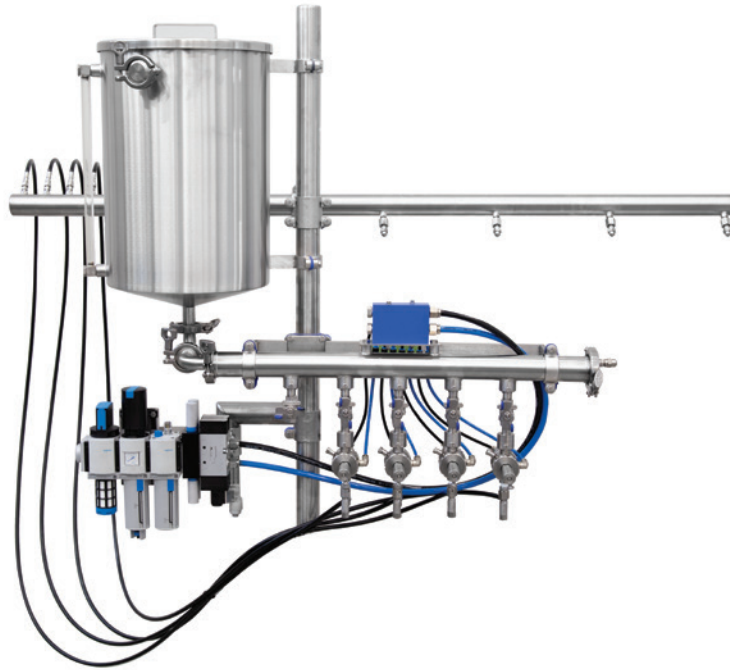




## MS-I Pulse Oil Spray Applicator



### Applications

- \_ Bakery foods
- \_ Breakfast cereal
- \_ Cheese
- \_ Snack foods and chips
- \_ French fries
- \_ Meat, poultry, and seafood
- \_ Nuts
- \_ Pet food and treats
- \_ Pasta

### Consistently deliver a metered liquid coating without excessive overspray and waste

The MS-I accurately applies a wide variety of liquid coatings such as oils, tack, and release agents evenly and reliably. It utilizes a complete gravity fed, pulse operating "airless" spray system. The self-adjusting positive shut-off nozzles evenly apply liquid coatings within a coating drum or in over-the-belt applications.

#### Metered "airless" oil spray application

"Airless" spray application allows for precise metering of oil to the product or targeted pan cavity without excessive overspray. Piston pump design and pulse operation provides for large turndown ratio. Multi-nozzle spray bar design expands the coating zone in drum applications and allows for target coating of each product piece within the liquid coating zone.

#### Variable liquid application rates up to 250 pulses/minute

Application rate adjusts with variances in product throughput to ensure product remains evenly coated and the recipe is maintained.

#### Positive displacement pumps

Adjustable micrometer mechanism combined with variable pulsation rate of up to 250 pulses per minute provides a wide range of output. "Airless" spray application does not aerate liquid coatings, allowing for targeted, consistent measure of applied liquid.

#### Remote nozzle spray bar

Multi-nozzle design maximizes the liquid coating zone and allows for precise targeted spray application when used within a coating drum.

### Flexible design

The applicator is highly adaptable for coating drum and over-the-belt applications, such as cavity oiling or applying belt release oils. Can be upgraded to a heated system for hydrogenated and partially hydrogenated oils.

### Stainless steel liquid supply reservoir

An onboard reservoir with a sight gauge to easily monitor liquid level always contains a ready supply of liquid coatings.

### 304 stainless steel construction

The applicator is constructed with 304 stainless steel and is washdown-ready, providing sanitary operation with a long-lasting, robust design.

### Robust design

Reliable performance—built to the highest fabrication standards.

### Ease of operation

Tools-free operation and easy to startup, to operate, to maintain, and to clean. Simplifies operation and maximizes production while minimizing downtime.

### Options

- \_ Heated manifold, spray arm, and supply tank
- \_ 316 stainless steel nozzles in various sizes and spray widths



Positive displacement product pumps with adjustable micrometer settings.



Remote nozzle spray bar with self-adjusting poppet nozzles. Achieve precise targeted spray application when used within a coating drum.



Airless spray application reduces overspray assuring accuracy in oil application rate.



The MS-I Pulse Oil Spray Applicator as part of the Two-Stage Coating System.

### FAQ

#### Q: Why is the "airless spray" feature so important when spraying oil?

**A:** When using compressed air or other external air supply methods to apply oil, the droplet size becomes so small that it will generate a fogging effect of oil. Once the tiny oil droplets become airborne, they are subject to any existing air currents in the environment and can be carried beyond the desired area for oil application. If using this type of system, operators typically enlarge the targeted area to achieve the actual applied amount.

#### Q: Why use multiple nozzles to apply the liquid coating.

**A:** Using multiple nozzles within a coating drum allows the gradual application of the targeted amount of liquid to the product as it travels through the liquid coating zone. The goal of drum-based coating is to expose each piece of base product to the surface to make sure the product is coated evenly.

