



SP-3Xi

Automated Solenoid Based

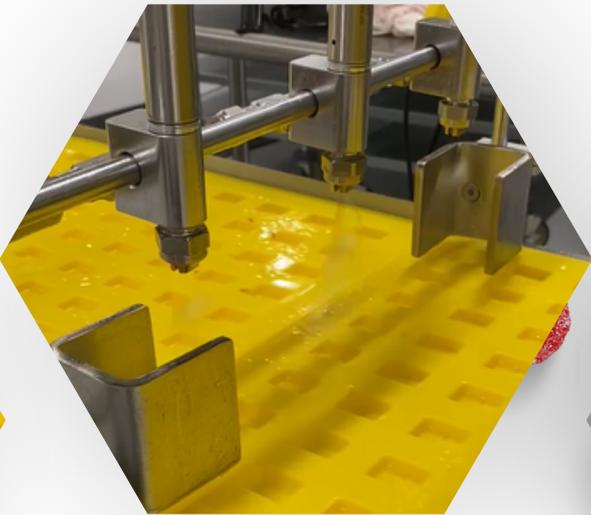
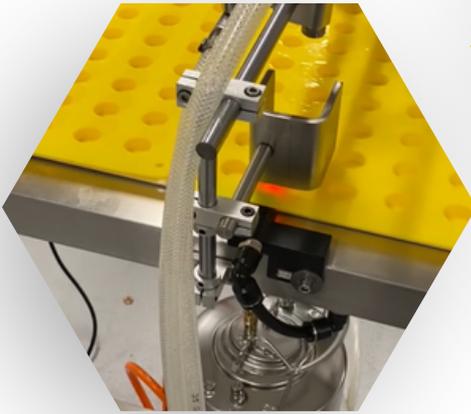
Mold Oil Spray System

The **SP-3Xi Automated Mold Oil Spray System** is a high-precision, conveyor-based lubrication solution engineered for efficiency, consistency, and flexibility. Designed with solenoid frequency-driven actuation and a pressurized oil canister, the system delivers accurate, airless micro-deposits of oil with adjustable frequency and conveyor speed control. This ensures uniform coverage while minimizing waste and overspray.

Originally developed for the confectionery industry to pre-lubricate gummy molds and simplify demolding, the SP-3Xi's capabilities extend well beyond gummy production. Its hygienic stainless-steel design, tool-less spray tip replacement, and integrated self-cleaning oil catch system make it equally suited for a wide range of food and industrial applications requiring reliable mold release or precision oil application.

Portable, CIP-washdown ready, and capable of lubricating up to **48,600 cavities per hour with ± 0.01 g accuracy**, the SP-3Xi delivers a fast return on investment through reduced labor, optimized oil usage, and improved product quality.





SPECIFICATIONS

Dimension & Weight		Capacity & Throughput	
Length	60 in (1524 mm)	Supported Mold Size	Ideally suited for 15 in wide molds.
Width	17 in (432 mm)	Mold Capacity	Accommodates up to 5 molds at any given time
Height	36 in (914 mm)	Throughput (6x9 configuration)	900 molds/hour 48,600 mold cavities/hour
Weight	75 lbs (34kg)	Spray Consistency	±0.001g (oil viscosity dependent)
Wheels	5 in locking castor wheels for portability	Operation & Controls	
Construction	Stainless steel 304 with PU food-grade removable belt	Conveyor	Inline 5ft conveyor with adjustable speed
Electrical & Air Specifications		Drive System	Chainless stainless steel motorized drum roller (low maintenance, long life)
Voltage	120VAC, 60Hz, 2.5A	Spray System	3 pneumatic solenoid heads, frequency-driven for precise micro mist application
Power Cord	10ft cord, grounded plug	Nozzles	Tool-less replaceable spray tips. Available with different spray patterns and volumes
Air Requirements	90 PSI (oil-free, regulated)	Oil System	2.5l 120psi rated canister with 100psi pressure relief, 50 micron filter, quick connect fittings
Safety Features		Overspray Management	Equipped with shields & oil catch tray with wiper (self-cleans belt during operation)
Emergency Stop Button, resettable breaker		Mold Cavity Detection	Fiber optic mold cavity detection
90 PSI fixed pressure regulator – for consistent and repeatable results			
Pressure Relief Valve ensures oil canister is not over pressurized beyond its limits			
End of line fiber optic mold detection automatically stops operation ensuring molds do not fall to floor.			
IP67-rated controls enclosure & IP67 drum motor (suitable for full CIP washdown)			
Consistent, automated mold lubrication eliminates manual spraying, minimizing worker strain			



Backed by a One Year Warranty



ORDERING INFORMATION



P/N: SP-3Xi

Inline automated oil spray system on a 5 ft inline conveyor. Complete system, without molds.



P/N: SP-8001SS-80

Replacement spray tip. Tapered edge flat spray for uniform coverage. Corrosive resistant stainless steel, 80-degree spray angle, provides finest application performance. Available in a variety of spray patterns and orifice size.



P/N: 9010648-60

Replacement food grade PU belt for 5 ft conveyor. Stainless steel 304 clipper lacing for ease of installation



P/N: SP-CN-2.5I

Stainless steel 2.5l oil canister. Pressure rated to 120 PSI. Equipped with 100 PSI Pressure Relief Valve (PRV), lid and plastic handle and base.