Aerosol Filling Equipment

Semi-Automatic & Fully Automatic Lines

1-Inch | Bag-on-Valve (BOV) | Cartridge Gas | Medical Oxygen

From 600 to 3,600 cans/hour

Nanjing Syncmiles Trading Co., Ltd.

Your Trusted Partner for Aerosol Filling Solutions from China

1 Company Profile

Nanjing Syncmiles Trading Co., Ltd. is a specialized exporter of aerosol filling equipment based in Nanjing, China. We partner exclusively with Jinhu Fuda Machinery Co., Ltd. - a member of the China Aerosol Packaging Industry Group and a holder of multiple national patents in aerosol filling technology.

With manufacturing facilities located in Jinhu County, Jiangsu Province (approximately 130 km from our Nanjing headquarters), our partner factory has been designing and producing aerosol filling equipment for over two decades. Their equipment is currently operating in 20+ countries and regions, including the United States, United Kingdom, Germany, France, Russia, Canada, Japan, India, Pakistan, South Korea, Southeast Asia, and Africa.

We offer the full spectrum of aerosol filling solutions - from semi-automatic benchtop units for R&D and small-batch production to fully automatic high-speed lines capable of 3,600+ cans per hour. Both 1-inch traditional systems and Bag-on-Valve (BOV) systems are available. Custom configurations and OEM-branded equipment are supported.

Why Source Through Syncmiles?

- Direct Factory Partnership: Factory-direct pricing with Syncmiles handling all export logistics, documentation, and quality inspection.
- Engineering Support: Custom tank sizes, filling capacities, and line configurations available. Not limited to catalog specifications.
- Proven Export Experience: Equipment operating in 20+ countries. We handle FOB/CIF shipping, customs documentation, and after-sales parts.
- CE Certification: Equipment meets EU safety and EMC requirements. Other certifications (e.g. ATEX for explosive atmospheres) available upon request.

2 Product Line Overview

The following table summarizes the complete product range. Detailed specifications for each model follow in subsequent sections.

Category	Models	Capacity	Throughput
Semi-Automatic Liquid Fillers	FD9201 - FD9206	3-500 ml	600-1,600 cph
Semi-Automatic Crimpers	FD9206A - FD9207	O20 / 1"	10-20 cpm
Semi-Automatic Sealers	FD9301 - FD9302	1" valve	1,200-1,500 cph
Semi-Automatic Gas Fillers	FD9401A - FD9404	5-250 ml	1,200-1,500 cph
Booster Pump	FD9405	30 L/min	0.8-1.6 MPa
2-in-1 Combos	FD9501 - FD9502	30-500 ml	800-1,200 cph
3-Station Split System	FD9601 - FD9602	30-500 ml	1,000-1,600 cph
3-in-1 Compact (Patented)	FD9603	30-500 ml	1,000-1,600 cph
4-in-1 Pneumatic Drive	FD9604	30-500 ml	800-1,300 cph
Cartridge Gas Filler	FD901K	30-500 ml	10-15 cpm
Medical Oxygen Filler	FD902Y	50-1,000 ml	300-500 cph
Welding Gas Filler	FD904H	30-1,000 ml	6-10 cpm
Semi-Auto BOV Series (4 models)	FD9605 - FD9608	N2 / Air	600-1,200 cph
Full-Auto 1" Lines (3 models)	FD9801 - FD9803	50-900 ml	1,600-3,600 cph
Full-Auto Cartridge Gas Line	FD9804	50-750 ml	1,200-1,600 cph
Full-Auto BOV Lines (4 models)	FD9901 - FD9904	N2 / Air	30-50 cpm
Auxiliary Equipment (8 types)	FD9951 - FD9958	-	-

cph = cans per hour | cpm = cans per minute | All specifications subject to confirmation with manufacturer.

3 Semi-Automatic Liquid Fillers

Designed for compact footprint and low shipping volume - ideal for export. These benchtop and desktop units handle a wide range of media viscosities, from thin solvents to viscous creams and pastes.

FD9201 - Benchtop Small-Volume Liquid Filler

Compact design optimized for export freight. Handles thin liquids (kerosene, paint), viscous liquids (facial cleanser, PU foam), cosmetics (sunscreen, hair spray), and pharmaceuticals (Yunnan Baiyao, oral sprays).

Filling Capacity	3-50 ml
Filling Accuracy	<= +/-1%
Can Diameter	35-66 mm
Can Height	80-330 mm
Throughput	1,200-1,600 cans/h
Packed Dimensions	330 x 500 x 805 mm; 48 kg

FD9202 - Benchtop Medium-Volume Liquid Filler

Same compact export-friendly design as FD9201 with extended filling range. Suitable for all media types: thin liquids, viscous products, cosmetics, and pharmaceuticals.

Filling Capacity	50-250 ml (50-500 ml optional)
Filling Accuracy	<= +/-1%
Can Diameter	35-66 mm
Can Height	80-330 mm
Throughput	1,200-1,500 cans/h
Packed Dimensions	330 x 500 x 805 mm; 65 kg

FD9203 - Desktop Small-Volume Filler (Dual Can Type)

Designed for small doses with high precision. Compatible with both O20-35 mm external-crimp cans (35-155 mm height) and standard 35-66 mm aerosol cans (80-330 mm height).

Filling Capacity	3-50 ml
Filling Accuracy	<= +/-1%
Can Diameter	O20-35 mm ext. crimp OR 35-66 mm standard
Can Height	35-155 mm OR 80-330 mm
Throughput	1,200-1,600 cans/h
Packed Dimensions	1,050 x 590 x 1,440 mm; 80 kg

FD9204 - Desktop Liquid Filler

Simple adjustment, high filling accuracy, fast production speed. Handles thin liquids, viscous products, cosmetics, and pharmaceuticals. Custom filling capacities available.

Filling Capacity	3-250 ml (50-450 ml or custom)
Filling Accuracy	<= +/-1%
Can Diameter	35-66 mm
Can Height	80-330 mm
Throughput	1,200-1,500 cans/h
Packed Dimensions	1,050 x 590 x 1,440 mm; 85 kg

FD9205 - Desktop Dual-Head Liquid Filler

Two FD9204-class filling heads mounted on one desktop for tandem operation by two operators. Doubles throughput without proportional increase in floor space.

Configuration	2 x FD9204 filling heads on shared desktop

Same technical specifications as FD9204. Contact us for detailed parameters.

FD9206 - High-Pressure Liquid Filler (BOV Compatible)

Designed for filling liquid into already-sealed 1-inch or BOV aerosol cans under pressure. Simple adjustment, high filling accuracy. Suitable for all media types.

Filling Capacity	30-250 ml (custom sizes available)
Filling Accuracy	<= +/-1%
Can Diameter	35-66 mm
Can Height	80-330 mm
Throughput	600-900 cans/h
Packed Dimensions	1,050 x 590 x 1,550 mm; 95 kg

4 Semi-Automatic Crimpers & Sealers

4.1 O20 mm / 1-Inch External Crimping Machines

FD9206A - Benchtop O20 mm External Crimper

Ultra-compact design for export. Crimps aluminum and PET aerosol cans with O20 mm valves. Also available in 1-inch valve version (FD9206B). Applied in cosmetics and food aerosol sectors.

Valve Type	O20 mm (FD9206A) / 1" (FD9206B)
Can Diameter	20-35 mm (1" valve: other diameters available)
Can Height	35-155 mm (1" valve: other heights available)
Throughput	10-20 cans/min
Packed Dimensions	330 x 500 x 805 mm; 63 kg

Also available as BOV external crimper - contact us for details.

FD9207 - Desktop O20 mm / 1-Inch External Crimper

Desktop version of the external crimper. Suitable for aluminum and PET aerosol cans used in cosmetics and food applications. BOV crimping version available.

Valve Type	O20 mm
Can Diameter	20-35 mm
Can Height	35-155 mm
Throughput	10-20 cans/min
Packed Dimensions	1,050 x 590 x 1,440 mm; 90 kg

4.2 1-Inch Valve Sealers (Capping Machines)

FD9301 - Benchtop 1-Inch Sealer

Designed for high-integrity sealing of 1-inch aerosol valves. The sealing jaw - the critical wear component - is manufactured from Cr12 tool steel with hardness >= 48 HRC. Maintains gas-tight seal even under harsh environmental conditions. Widely used in cosmetics, pharmaceuticals, construction materials, automotive care, and household products.

Valve Type	1 inch (25.4 mm)
Can Diameter	35-66 mm
Can Height	80-330 mm
Throughput	1,200-1,500 cans/h
Packed Dimensions	1,050 x 590 x 1,550 mm; 95 kg

FD9302 - Compact Benchtop 1-Inch Sealer

Same sealing performance as FD9301 in a more compact package. Cr12 sealing jaw with hardness >= 48 HRC. Ideal where floor space is limited and for export shipments.

Valve Type	1 inch (25.4 mm)
Can Diameter	35-66 mm
Can Height	80-330 mm
Throughput	1,200-1,500 cans/h
Packed Dimensions	500 x 330 x 800 mm; 60 kg

5 Semi-Automatic Gas Fillers & Booster Pump

FD9401A - Benchtop Gas Filler (Compressed Gases)

Ultra-compact design for export. Designed for filling compressed air, nitrogen (N2), and carbon dioxide (CO2). For liquefied propellants (LPG, DME, Freon), add the FD9405 Booster Pump - this variant is designated FD9401B.

Filling Capacity	30-250 ml
Filling Accuracy	<= +/-1%
Can Diameter	35-66 mm
Can Height	80-330 mm
Throughput	1,200-1,500 cans/h
Packed Dimensions	330 x 500 x 805 mm; 51 kg

For LPG/DME/Freon: specify FD9401B (includes integrated booster pump).

FD9402 - Desktop Gas Filler (Liquefied Propellants)

Primarily designed for liquefied propellant gases (LPG, DME, Freon). The integrated booster pump automatically pressurizes the liquefied propellant and maintains a constant pressure parameter for precise volumetric filling. Also handles compressed gases (air, N2, O2, CO2).

Filling Capacity	30-250 ml
Filling Accuracy	<= +/-1%
Can Diameter	35-66 mm
Can Height	80-330 mm
Throughput	1,200-1,500 cans/h
Packed Dimensions	1,050 x 590 x 1,540 mm; 108 kg

FD9403 - Desktop Small-Volume Gas Filler

Same functionality as FD9402, optimized for small filling volumes. Compatible with both O20-35 mm external-crimp cans and standard 35-66 mm aerosol cans.

Filling Capacity	5-50 ml
Filling Accuracy	<= +/-1%
Can Diameter	O20-35 mm ext. crimp OR 35-66 mm standard
Can Height	35-155 mm OR 80-330 mm
Throughput	1,200-1,500 cans/h
Packed Dimensions	1,050 x 590 x 1,540 mm; 103 kg

FD9404 - Desktop Dual-Head Gas Filler

Dual-head configuration for doubled throughput. Handles liquefied propellants (LPG, DME, Freon), compressed gases, and specialty applications such as lighter refills and camping gas cartridges.

Filling Capacity	30-250 ml
Filling Accuracy	<= +/-1%
Can Diameter	35-66 mm
Can Height	80-330 mm
Throughput	1,200-1,500 cans/h x 2
Packed Dimensions	1,050 x 590 x 1,540 mm; 181 kg

5.1 FD9405 - Pneumatic Reciprocating Booster Pump

The FD series pneumatic double-acting reciprocating piston pump is an in-house innovation by our manufacturing partner. It uses compressed air as the power source to deliver liquefied gases and flammable chemical liquids safely and reliably.

All metal parts in contact with the medium are 304 stainless steel. Dynamic seals are PTFE (polytetrafluoroethylene). High-pressure hoses are nylon-reinforced. The pump is self-priming and produces no sparks during operation, making it suitable for flammable and explosive materials.

Cylinder Bore	80 mm
Stroke	178 mm
Delivery Rate	30 L/min
Operating Air Pressure	0.4-0.8 MPa
Max. Air Consumption	0.6 m3/min
Output Pressure	0.8-1.6 MPa

Applications:

- LPG filling, transfer, and pressurization
- Butane booster/transfer pump for lighter factories
- LPG/DME/R22 booster for EPE foam (pearl cotton) production
- Refrigerant (R134a, R22, R410A) filling and repackaging
- Heptafluoropropane (FM200) fire suppression agent filling
- General aerosol industry booster pump

6 Specialty Semi-Automatic Machines

FD901K - Semi-Automatic Cartridge Gas Filling Machine

Integrates vacuum evacuation, sealing, and volumetric gas filling on a single workstation. One-operator design. Ideal for laboratories and small-scale production.

Valve Type	1 inch
Filling Capacity	30-500 ml
Filling Accuracy	<= +/-1%
Can Diameter	35-66 mm
Can Height	80-330 mm
Throughput	10-15 cans/min
Packed Dimensions	1,050 x 590 x 1,540 mm; 168 kg

FD902Y - Semi-Automatic Medical Oxygen Filling Machine

Integrates vacuum evacuation, sealing, and volumetric oxygen filling. Uses a delayed-fill method for controlled oxygen charging. One-operator design with high precision and stability.

Valve Type	1 inch
Filling Capacity	50-1,000 ml
Filling Accuracy	<= +/-1%
Can Diameter	35-66 mm
Can Height	80-330 mm
Throughput	300-500 cans/h
Packed Dimensions	1,050 x 590 x 1,540 mm; 158 kg

FD904H - Semi-Automatic Welding Gas Filling Machine

Integrates vacuum evacuation and volumetric gas filling on a single workstation. The canister is first evacuated then precisely charged with gas. Fast, accurate, and safe operation.

Filling Capacity	30-1,000 ml
Filling Accuracy	<= +/-1%
Vacuum Level	0 to -60 kPa
Throughput	6-10 cans/min
Packed Dimensions	1,050 x 590 x 1,540 mm; 158 kg

7 Semi-Automatic Multi-Station Combinations

FD9501 - 2-in-1: Liquid Filler + Sealer

Combines liquid filling and 1-inch sealing on a single desktop. The liquid filling section features a redesigned cylinder that rapidly evacuates air, enabling bubble-free filling through a near-vacuum channel. The sealing jaw uses German-imported steel with proprietary heat treatment for high wear resistance and extended service life.

Valve Type	1 inch
Filling Capacity	30-450 ml
Filling Accuracy	<= +/-1%
Can Diameter	35-66 mm

Can Height	80-330 mm
Throughput	800-1,200 cans/h
Packed Dimensions	1,050 x 590 x 1,540 mm; 166 kg

FD9502 - 2-in-1: Sealer + Gas Filler

Combines 1-inch sealing and gas filling. Can operate as independent stations or in linked mode. Sealing jaw uses German-imported steel. The gas filling section handles liquefied propellants (LPG, DME, Freon) and compressed gases (air, O2, N2, CO2).

Valve Type	1 inch
Filling Capacity	30-500 ml
Filling Accuracy	<= +/-1%
Can Diameter	35-66 mm
Can Height	80-330 mm
Throughput	800-1,200 cans/h
Packed Dimensions	1,050 x 590 x 1,540 mm; 168 kg

FD9601 - 3-Station Split System: Fill + Seal + Gas

Three independent semi-automatic units (liquid filler, sealer, gas filler) combined into a coordinated workstation. Ideal for manufacturers seeking higher output with moderate investment. Also available in O20/1-inch external crimp configuration (FD9602).

Valve Type	1 inch
Filling Capacity	30-450 ml (custom)
Gas Filling Capacity	30-500 ml
Filling Accuracy	<= +/-1%
Can Diameter	35-66 mm
Can Height	80-330 mm
Throughput	1,000-1,600 cans/h
Filler Dims	1,050x590x1,440 mm; 80 kg
Sealer Dims	1,050x590x1,550 mm; 95 kg
Gas Filler Dims	1,050x590x1,550 mm; 108 kg

FD9603 - 3-in-1 Compact: Fill + Seal + Gas (Patented)

Patented design (awarded September 2009) - the first of its kind in the Chinese aerosol industry. Integrates liquid filling, 1-inch sealing, and gas filling on a single workstation. Any station can operate independently, in pairs, or all three in sequence. Available in micro, standard, and large-capacity variants.

Valve Type	1 inch
Filling Capacity	30-450 ml (custom)
Gas Filling Capacity	30-500 ml
Filling Accuracy	<= +/-1%
Can Diameter	35-66 mm
Can Height	80-330 mm
Throughput	1,000-1,600 cans/h
Packed Dimensions	1,050 x 590 x 1,550 mm; 180 kg

2009 national patent. Industry-first 3-in-1 design.

FD9604 - 4-in-1 Pneumatic-Drive System

Uses a dedicated pneumatic cylinder to index cans through liquid filling, 1-inch sealing, and gas filling stations. Significantly faster than manual-transfer semi-automatic configurations. Equipped with pressure gauges for main air supply, working air, and propellant output - enabling full process monitoring.

Valve Type	1 inch
Filling Capacity	30-450 ml (custom)
Gas Filling Capacity	30-500 ml
Filling Accuracy	<= +/-1%
Can Diameter	35-66 mm
Can Height	80-330 mm
Throughput	800-1,300 cans/h
Packed Dimensions	1,100 x 660 x 1,550 mm; 283 kg

Pneumatic can indexing. Full-process pressure monitoring.

8 Semi-Automatic Bag-on-Valve (BOV) Series

All BOV models use touchscreen + PLC control to integrate compressed air (or N2) filling and sealing in one station, followed by product filling in a separate station. An integrated pressure sensor verifies the set pressure is reached before sealing, ensuring consistent can pressure across the entire batch. 304 stainless steel construction is standard - suitable for cosmetics, pharmaceuticals, and food-grade applications.

FD9605 - Semi-Auto BOV Filler - Base Model

Touchscreen + PLC controlled. Fills compressed air or N2, then seals, then fills product. Adjustable gas pressure. 304 stainless steel construction.

Valve Type	1 inch BOV
Gas Filling Throughput	800-1,200 cans/h
Liquid Filling Throughput	600-800 cans/h
Gas Filling Accuracy	+/-0.03 MPa
Liquid Filling Accuracy	+/-1%
Max. Initial Gas Pressure	0.6 MPa (adjustable)
Packed Dimensions	1,220 x 650 x 1,550 mm; 268 kg

FD9606 - Semi-Auto BOV Filler - Digital Pressure Display

Same core BOV technology with digital pressure display and detection. The system only initiates sealing after confirming the target pressure is reached. Ideal for cosmetics, pharma, food, and portable fire extinguishers.

Valve Type	1 inch BOV
Gas Filling Throughput	800-1,200 cans/h
Liquid Filling Throughput	600-800 cans/h
Gas Filling Accuracy	+/-0.03 MPa
Liquid Filling Accuracy	+/-1%
Max. Initial Gas Pressure	0.6 MPa (adjustable)
Final Can Pressure	0.5-1.1 MPa (adjustable; custom available)
Packed Dimensions	1,220 x 650 x 1,550 mm; 256 kg

FD9607 - Semi-Auto BOV Filler - Cosmetics & Pharma Grade

Optimized for water-based aerosol products in cosmetics, pharmaceutical, and food applications. Touchscreen + PLC with digital pressure monitoring.

Valve Type	1 inch BOV
Gas Filling Throughput	800-1,200 cans/h
Liquid Filling Throughput	600-800 cans/h
Gas Filling Accuracy	+/-0.03 MPa
Liquid Filling Accuracy	+/-1%
Max. Initial Gas Pressure	0.6 MPa (adjustable)
Packed Dimensions	1,220 x 650 x 1,550 mm; 238 kg

FD9608 - Semi-Auto BOV Filler - Lightweight

Same BOV functionality in a lighter package. Touchscreen + PLC with digital pressure monitoring. Designed for water-based products in cosmetics, pharma, and food sectors.

Valve Type	1 inch BOV
Gas Filling Throughput	800-1,200 cans/h
Liquid Filling Throughput	600-800 cans/h
Gas Filling Accuracy	+/-0.03 MPa
Liquid Filling Accuracy	+/-1%
Max. Initial Gas Pressure	0.6 MPa (adjustable)
Packed Dimensions	1,220 x 650 x 1,550 mm; 194 kg

9 Fully Automatic 1-Inch Aerosol Production Lines

Full-automatic production lines for 1-inch standard aerosol cans. All lines include can unscrambler, conveyor, and packing table as standard. Optional modules can be added to raise automation levels: automatic valve inserter, checkweigher, hot water bath leak tester, automatic actuator placer, automatic over-cap placer, and inkjet coder.

FD9801 - Full-Auto 1" Line - Entry Level

Compact footprint - approximately 6 meters. Includes can unscrambler, main machine (2-head liquid filler, sealer, 2-head gas filler with 2 booster pumps), conveyor, explosion-proof motor, and packing table. Ideal for SMEs producing 10,000+ cans/day.

Valve Type	1 inch
Liquid Filling Capacity	50-900 ml (custom)
Gas Filling Capacity	50-500 ml
Filling Accuracy	<= +/-1%
Can Diameter	35-66 mm
Can Height	80-330 mm
Throughput	1,600-2,000 cans/h
Dimensions	~6 m (L) x 1.1 m (W); ~900 kg

FD9802 - Full-Auto 1" Line - Mid-Range

Split design with separate gas filling room capability. Machine 1 handles 3-head liquid filling, valve alignment, and sealing. Machine 2 handles 3-head gas filling with booster pumps. Total length approximately 12 meters.

Valve Type	1 inch
Liquid Filling Capacity	50-900 ml (custom)
Gas Filling Capacity	50-500 ml
Filling Accuracy	<= +/-1%
Can Diameter	35-66 mm
Can Height	80-330 mm
Throughput	1,800-2,400 cans/h
Dimensions	~12 m (L) x 1.2 m (W); ~1,500 kg

FD9803 - Full-Auto 1" Line - High Speed

Top-tier 1-inch production line: can unscrambler, all-stainless-steel conveyor, 3-head automatic liquid filler, automatic valve inserter, 3-head automatic sealer + gas filler, and 2 booster pumps. Handles LPG, DME, N2, and other propellants. Optional: glass bead auto-feeder, nozzle crimper, over-cap crimper, inkjet coder, checkweigher, water bath.

Valve Type	1 inch
Liquid Filling Capacity	50-750 ml
Propellant Filling Capacity	50-750 ml
Filling Accuracy	<= +/-1%
Cap Sealing Accuracy	<= 1%
Can Diameter	35-65 mm
Can Height	80-330 mm
Throughput	2,400-3,600 cans/h
Working Pressure	0.65-1 MPa

Max. Air Consumption	3 m3/min
Dimensions	~15 m (L) x 1.2 m (W); 1,950 kg

FD9804 - Full-Auto Cartridge Gas Filling Line

Designed for cartridge-style gas canisters. Includes can unscrambler, main machine (vacuum, sealing, 3 gas fillers), automatic red-cap placer, conveyor, explosion-proof motor, and packing table. Optional: valve inserter, checkweigher, water bath leak tester, nozzle press, over-cap press, inkjet coder.

Valve Type	1 inch
Liquid Filling Capacity	50-750 ml
Propellant Filling Capacity	50-750 ml
Filling Accuracy	<= +/-1%
Cap Sealing Accuracy	<= 1%
Throughput	1,200-1,600 cans/h
Working Pressure	0.65-1 MPa
Max. Air Consumption	3 m3/min
Can Diameter	35-65 mm
Can Height	80-330 mm
Dimensions	~10 m (L) x 1.2 m (W); 1,350 kg

10 Fully Automatic BOV (Bag-on-Valve) Production Lines

Full-automatic BOV lines integrate compressed air or N2 filling under the cap, sealing, and product filling. Touchscreen + PLC control throughout. 304 stainless steel construction. All models include sensors that stop the line when no can is detected at the infeed or when a jam occurs at the outfeed, with fault indicators on the display.

FD9901 - Full-Auto BOV Line - Entry Level

Incorporates advanced international design principles. Under-cap compressed air/N2 filling and sealing integrated, followed by product filling. Accepts optional: checkweigher, water bath leak tester, actuator placer, over-cap placer, inkjet coder. 304 stainless steel.

Valve Type	1 inch BOV (25.4 mm)
Gas Filling Throughput	30-40 cans/min
Liquid Filling Throughput	30-40 cans/min
Gas Filling Accuracy	<= +/-0.03 MPa
Liquid Filling Accuracy	<= +/-1%
Dimensions	~6 m (L) x 1.2 m (W); 960 kg

FD9902 - Full-Auto BOV Line - Mid-Range

Incorporates Swiss and US aerosol filling machine design principles. Electromechanical integrated design. Two gas-fill/seal stations and two liquid-fill stations. Premium domestic and international control components. Auto-stop with fault display.

Valve Type	1 inch BOV (25.4 mm)
Gas Filling Throughput	30-40 cans/min
Liquid Filling Throughput	30-40 cans/min
Gas Filling Accuracy	<= +/-0.03 MPa
Liquid Filling Accuracy	<= +/-1%
Dimensions	~6 m (L) x 1.2 m (W); 1,240 kg

FD9903 - Full-Auto BOV Line - Quick Changeover

Electromechanical integrated design. One gas-fill/seal station + two liquid-fill stations. Features sample-can height positioning for rapid changeover between different can heights. Premium control components. Auto-stop with fault display.

Valve Type	1 inch BOV (25.4 mm)
Gas Filling Throughput	30-40 cans/min
Liquid Filling Throughput	30-40 cans/min
Gas Filling Accuracy	<= +/-0.03 MPa
Liquid Filling Accuracy	<= +/-1%
Dimensions	~6 m (L) x 1.2 m (W); 875 kg

FD9904 - Full-Auto BOV Line - High Speed (Dual-Index)

Flagship high-speed BOV line. Dual-can indexing - two cans per cycle. Two gas-fill/seal stations and six liquid-fill stations. Imported control components. Digital pressure display with auto-verification before seal initiation. Auto-stop with fault display.

Valve Type	1 inch BOV (25.4 mm)
Gas Filling Throughput	40-50 cans/min
Liquid Filling Throughput	40-50 cans/min
Gas Filling Accuracy	<= +/-0.03 MPa
Liquid Filling Accuracy	<= +/-1%
Dimensions	~10 m (L) x 1.2 m (W); 2,086 kg

11 Auxiliary Equipment for Automatic Lines

The following modules can be integrated into any FD98xx or FD99xx full-automatic production line. They are also available as standalone units.

FD9951 - Automatic Valve Inserter (Aluminum Valves)

A rotating disc self-selects valves, which are conveyed pneumatically to the insertion head on the main line. Automatically places and presses the valve into the can opening.

Valve Type	1 inch (25.4 mm)
Throughput	40-60 cans/min
Disc Motor	AC 380 V, 0.37 kW

FD9952 - Automatic Valve Inserter (Tinplate Valves)

Uses magnetic disc to select and hold tinplate valves, then pneumatic conveyance to the insertion head. Automatically places and presses the valve, with self-checking and correction of valve positioning.

Valve Type	1 inch (25.4 mm)
Throughput	50-70 cans/min
Disc Motor	AC 380 V, 0.37 kW

FD9953 - Automatic Glass Bead / Ball Inserter

Stepper-driven main unit with top-mounted hopper. Automatically adjusts to dispense 1-4 glass beads (or other spherical media) and drops them into the can.

Throughput	40-60 cans/min
Motor	AC 380 V, 0.37 kW

FD9954 - Automatic Checkweigher

Weighs every can. Out-of-tolerance cans are automatically rejected via alarm and separation mechanism. Siemens and Festo control components. Display records per-shift production count and reject count.

Max. Weighing Capacity	2.5 kg
Weighing Accuracy	<= +/-3 g (user-adjustable)
Throughput	40-50 cans/min
Power Supply	AC 220 V

FD9955 - Automatic Water Bath Leak Tester

Explosion-proof variable-speed drive indexes cans into the water bath via a hanging chain conveyor system. Cans travel through the heated water bath for 3-5 minutes. Leaking cans are visible through the inspection window. Post-bath: valve cup air knife, bottom air nozzle, and dual side air knives remove residual water.

Temperature Control	+/- 1 deg C
Heating Power	30 / 40 kW
Water Tank Capacity	1.1 m3 / 2.0 m3
Max. Air Consumption	0.6 m3/min @ 0.6 MPa
Throughput	45-90 cans/min
Main Motor	0.75 / 1.5 kW
Immersion Time	3-5 min
Drying Fan Power	3.8 / 5.5 kW

FD9956 - Automatic Actuator (Spray Button) Placer

Vibratory bowl feeder sorts and orients actuators, delivering them to a waiting position. As each can rises on the cam-driven star wheel, a pneumatic cylinder presses the actuator onto the valve stem.

Can Diameter	35-66 mm
Can Height	70-330 mm
Working Pressure	0.6-0.8 MPa
Max. Air Consumption	0.5 m3/min
Throughput	40-60 cans/min

FD9957 - Automatic Over-Cap Placer

PLC-controlled system with cap unscrambler and pressing station. Automatically orients and places over-caps onto filled cans. High speed, low noise.

Power Supply	AC 380 V, 0.75 kW
Throughput	40-50 cans/min
Max. Air Consumption	0.6 m3/min

FD9958 - Automatic Clamping Conveyor + Inkjet Coder

Explosion-proof motor drives dual synchronized conveyor belts that grip the can and transport it through the inkjet coding zone for bottom coding (other positions available). Adjustable speed, quick diameter changeover, no can rotation or tipping.

Power Supply	AC 220 V, 0.35 kW
Throughput	40-60 cans/min
Max. Air Consumption	0.6 m3/min

12 Contact & Ordering Information

This catalog presents representative models from our product range. Custom configurations, capacities, and can size compatibility are available - please contact us with your specific requirements.

Nanjing Syncmiles Trading Co., Ltd.

Address: Nanjing, Jiangsu Province, China

Website: www.syncmiles.com

Email: info@syncmiles.com

Contact: Ryan Xu, Founder

Manufacturing Partner

Jinhu Fuda Machinery Co., Ltd. - Jinhu County, Jiangsu Province, China
Member, China Aerosol Packaging Industry Group | Multiple National Patents