SYNCMILES

TRADING

AEROSOL FILLING EQUIPMENT

Semi-Automatic & Fully Automatic Solutions

Comprehensive Range — Laboratory to Full Production

20+ Years Manufacturing Excellence

Semi-Automatic Liquid Fillers

FD9201

Benchtop Small-Dose Liquid Filler

Designed with export logistics in mind, the FD9201 features a compact, lightweight construction that significantly reduces shipping costs while maintaining high filling precision and speed. Suitable for a wide range of media including thin liquids (kerosene, paint), viscous liquids (facial cleanser, PU foam), cosmetics (sunscreen, hair spray), and pharmaceuticals (Yunnan Baiyao, oral sprays).

Technical Specifications	
Filling Capacity	3–50 ml
Filling Accuracy	≤ ±1%
Can Diameter	35–66 mm
Can Height	80–330 mm
Production Speed	1,200–1,600 cans/h
Packed Dimensions	330 × 500 × 805 mm
Weight	48 kg

FD9202

Benchtop Liquid Filler (Medium Capacity)

Sharing the same export-friendly benchtop design as the FD9201, this model offers extended filling capacity for medium-volume applications. Handles thin liquids, viscous products, cosmetics, and pharmaceutical formulations with consistent ±1% accuracy.

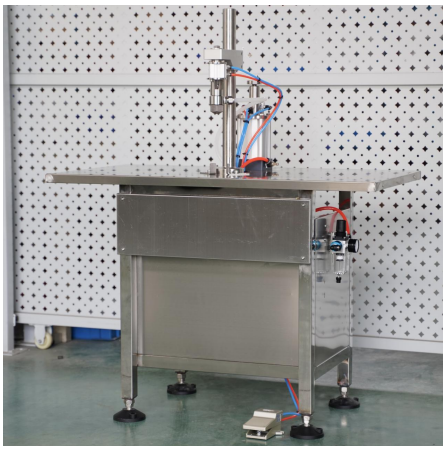
Technical Specifications	
Filling Capacity	50–250 ml (50–500 ml optional)
Filling Accuracy	≤ ±1%
Can Diameter	35–66 mm
Can Height	80–330 mm
Production Speed	1,200–1,500 cans/h
Packed Dimensions	330 × 500 × 805 mm
Weight	65 kg

FD9203

Desktop Small-Dose Liquid Filler

Purpose-built for small-dose applications, this desktop model delivers precision filling for both standard aerosol cans (35–66 mm) and Ø20 external-crimp containers. Ideal for cosmetics, pharmaceuticals, and specialty chemical products requiring tight volume control.

Technical Specifications	
Filling Capacity	3–50 ml
Filling Accuracy	≤ ±1%
Can Diameter	Ø20–35 mm (crimp) or 35–66 mm (standard)
Can Height	35–155 mm (crimp) or 80–330 mm (standard)
Production Speed	1,200–1,600 cans/h
Packed Dimensions	1,050 × 590 × 1,440 mm
Weight	80 kg



FD9204

Desktop Liquid Filler

A versatile desktop liquid filler with simple adjustment, high accuracy, and fast production. Handles the full spectrum of aerosol media — thin and viscous liquids, cosmetics, and pharmaceutical products. Custom filling capacities available upon request.

Technical Specifications	
Filling Capacity	3–250 ml (50–450 ml, or custom)
Filling Accuracy	≤ ±1%
Can Diameter	35–66 mm
Can Height	80–330 mm
Production Speed	1,200–1,500 cans/h
Packed Dimensions	1,050 × 590 × 1,440 mm
Weight	85 kg

FD9205

Desktop Dual-Head Liquid Filler

Two FD9204 filling heads mounted on a single desktop workstation, enabling two operators to work simultaneously for doubled throughput. Same precision and versatility as the FD9204.

Technical Specifications	
Filling Capacity	3–250 ml per head
Filling Accuracy	≤ ±1%
Can Diameter	35–66 mm
Can Height	80–330 mm
Production Speed	2,400–3,000 cans/h (dual operator)
Configuration	Dual FD9204 heads on shared desktop

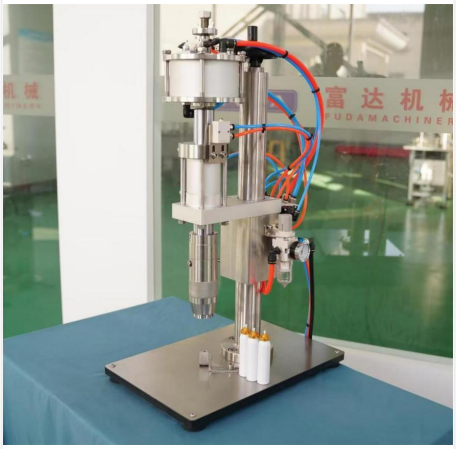
FD9206

BOV High-Pressure Liquid Filler

Designed for filling pre-gassed and sealed 1-inch or BOV (Bag-on-Valve) aerosol cans. Features simple adjustment, high filling accuracy, and rapid production speed. Compatible with thin liquids, viscous products, cosmetics, and pharmaceuticals.

Technical Specifications	
Filling Capacity	30–250 ml (custom available)
Filling Accuracy	≤ ±1%
Can Diameter	35–66 mm
Can Height	80–330 mm
Production Speed	600–900 cans/h
Packed Dimensions	1,050 × 590 × 1,550 mm
Weight	95 kg

Semi-Automatic Crimping & Sealing Machines



FD9206A

Benchtop Ø20 / 1" External Crimping Machine

Compact benchtop crimper designed for export — reduced size and weight minimize freight costs. Suitable for aluminum aerosol cans, PET containers, and PET + valve external crimping. Widely used in cosmetics and food-grade aerosol applications. Available for both standard (1-inch) and BOV (Bag-on-Valve) configurations.

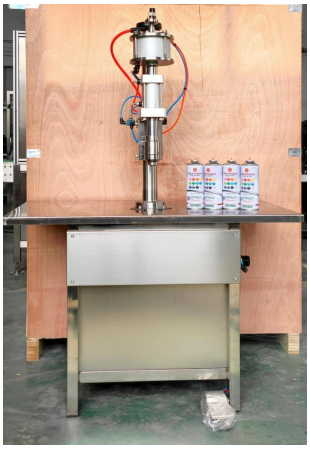
Technical Specifications	
Valve Size	Ø20 mm (FD9206A) or 1" (FD9206B)
Can Diameter	20–35 mm (1" valve: other diameters supported)
Can Height	35–155 mm (1" valve: other heights supported)
Production Speed	10–20 cans/min
Packed Dimensions	330 × 500 × 805 mm
Weight	63 kg

FD9207

Desktop Ø20 / 1" External Crimping Machine

Desktop version of the external crimping machine with simple operation, fast speed, and excellent sealing performance. For aluminum and PET aerosol cans with external valve crimping. BOV-compatible version available.

Technical Specifications	
Valve Size	Ø20 mm
Can Diameter	20–35 mm
Can Height	35–155 mm
Production Speed	10–20 cans/min
Packed Dimensions	1,050 × 590 × 1,440 mm
Weight	90 kg

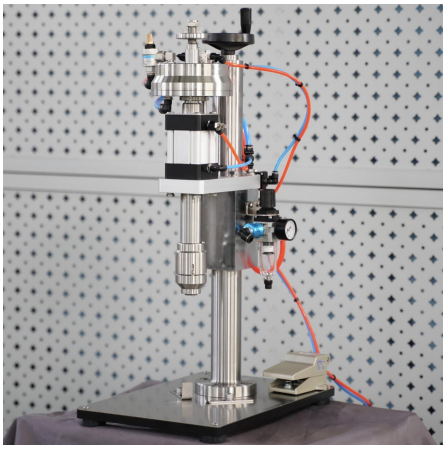


FD9301

Benchtop 1" Sealing (Capping) Machine

Specialized for sealing 1-inch aerosol can valves with exceptional airtightness — maintains seal integrity even under harsh environmental conditions. The core sealing jaw is made of Cr12 steel with hardness ≥48 HRC, ensuring long service life. Widely adopted in cosmetics, pharmaceuticals, furniture/building materials, automotive care, and industrial products worldwide.

Technical Specifications	
Valve Size	1 inch (25.4 mm)
Can Diameter	35–66 mm
Can Height	80–330 mm
Production Speed	1,200–1,500 cans/h
Sealing Jaw Material	Cr12 steel, hardness ≥48 HRC
Packed Dimensions	1,050 × 590 × 1,550 mm
Weight	110 kg



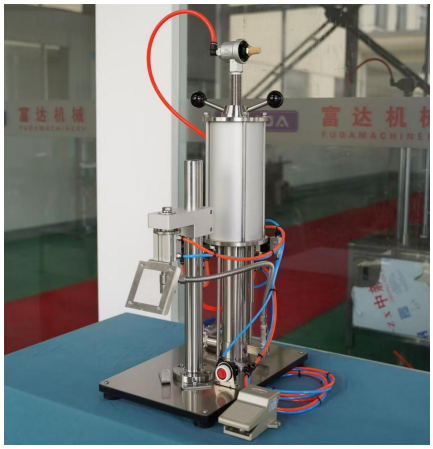
FD9302

Desktop 1" Sealing (Capping) Machine

Desktop sealing machine for 1-inch aerosol valves. Compact, easy to operate, and delivers consistent, high-integrity seals. Ideal for small to medium production batches.

Technical Specifications	
Valve Size	1 inch (25.4 mm)
Can Diameter	35–66 mm
Can Height	80–330 mm
Production Speed	1,200–1,500 cans/h
Packed Dimensions	500 × 330 × 800 mm
Weight	60 kg

Semi-Automatic Gas (Propellant) Fillers



FD9401A

Benchtop Gas Filler

Compact benchtop propellant gas filler designed for export with reduced dimensions and weight. Features high filling accuracy, fast speed, and easy transport. Suitable for various propellant types across all aerosol product categories.

Technical Specifications	
Filling Capacity	30–250 ml
Filling Accuracy	≤ ±1%
Can Diameter	35–66 mm
Can Height	80–330 mm
Production Speed	1,000–1,500 cans/h
Packed Dimensions	330 × 500 × 805 mm
Weight	51 kg

FD9401B

Gas Filler with Integrated Dosing

An upgraded version with built-in quantitative dosing system. Delivers precise propellant volumes while maintaining the compact benchtop form factor.

Technical Specifications	
Filling Capacity	30–250 ml
Filling Accuracy	≤ ±1%
Can Diameter	35–66 mm
Can Height	80–330 mm
Production Speed	1,000–1,500 cans/h
Packed Dimensions	330 × 500 × 805 mm
Weight	55 kg

FD9402

Desktop Gas Filler

Desktop propellant gas filler with straightforward operation, high precision, and rapid production. Suitable for all standard aerosol propellant applications.

Technical Specifications	
Filling Capacity	30–250 ml
Filling Accuracy	≤ ±1%
Can Diameter	35–66 mm
Can Height	80–330 mm
Production Speed	1,000–1,500 cans/h
Packed Dimensions	1,050 × 590 × 1,550 mm
Weight	85 kg

FD9403

Desktop Small-Dose Gas Filler

Optimized for small-dose propellant filling. Suitable for both external-crimp (Ø20–35 mm) and standard (35–66 mm) aerosol cans. Delivers precise gas volumes for specialty and sample-batch production.

Technical Specifications	
Filling Capacity	5–50 ml
Filling Accuracy	≤ ±1%
Can Diameter	Ø20–35 mm (crimp) or 35–66 mm (standard)
Can Height	35–155 mm (crimp) or 80–330 mm (standard)
Production Speed	1,000–1,400 cans/h
Packed Dimensions	1,050 × 590 × 1,550 mm
Weight	85 kg

FD9404

Desktop Dual-Head Gas Filler

Two independent gas filling heads on a single desktop unit, doubling throughput. Each head operates independently for flexible production scheduling.

Technical Specifications	
Filling Capacity	30–250 ml per head
Filling Accuracy	≤ ±1%
Can Diameter	35–66 mm
Can Height	80–330 mm
Production Speed	2,000–2,800 cans/h (dual head)
Packed Dimensions	1,100 × 650 × 1,550 mm
Weight	150 kg

Booster Pump

FD9405

Aerosol Industry Booster Pump

Self-priming booster pump designed for aerosol propellant transfer. Produces no sparks during operation — safe for flammable and explosive materials. All product-contact metal components are 304 stainless steel; dynamic seals are PTFE; hoses are high-pressure nylon. Suitable for mildly corrosive media. Applications include LPG, DME (dimethyl ether), R134a, CO_2 propellant transfer, as well as various solvents and chemical raw materials.

Technical Specifications	
Cylinder Bore	80 mm
Cylinder Stroke	178 mm
Delivery Rate	30 L/min
Max Inlet Pressure	0.6 MPa (adjustable)
Max Discharge Pressure	0.5–1.1 MPa (adjustable; custom available)
Product-Contact Materials	304 SS + PTFE seals + Nylon hose
Safety	Spark-free operation, explosion-proof

Specialty Filling Machines

FD901K

Semi-Automatic Cartridge Gas Filler

Combines vacuum evacuation, sealing, and quantitative gas filling on a single workstation — operable by one person. Delivers high filling accuracy, reliable sealing, and consistent speed.

Technical Specifications	
Filling Capacity	30–300 ml
Filling Accuracy	≤ ±1%
Can Diameter	35–66 mm
Can Height	80–330 mm
Production Speed	10–15 cans/min
Packed Dimensions	1,050 × 590 × 1,540 mm
Weight	168 kg

FD904H

Semi-Automatic Welding Gas Filler

Designed for filling welding gas into aerosol canisters. Features vacuum evacuation, quantitative gas filling, and precision sealing in a compact, single-operator workstation.

Technical Specifications	
Filling Capacity	30–300 ml
Filling Accuracy	≤ ±1%
Can Diameter	35–66 mm
Can Height	80–330 mm
Production Speed	6–10 cans/min
Vacuum Level	0 to –60 KPa
Packed Dimensions	1,050 × 590 × 1,540 mm
Weight	158 kg

FD902Y

Semi-Automatic Medical Oxygen Filler

Specialized for filling medical-grade oxygen into aerosol canisters. Precision filling with safety-focused design for medical applications.

Technical Specifications	
Valve Size	1 inch
Filling Capacity	30–450 ml
Filling Accuracy	≤ ±1%
Can Diameter	35–66 mm
Can Height	80–330 mm
Production Speed	300–500 cans/h
Application	Medical oxygen aerosol canisters

Semi-Automatic 2-in-1 / 3-in-1 Combination Machines

FD9501

2-in-1: Liquid Filling + Sealing

Combines liquid filling and valve sealing in a single compact unit. Ideal for small to medium production runs where space and budget efficiency are priorities.

Technical Specifications	
Filling Capacity	30–500 ml
Filling Accuracy	≤ ±1%
Can Diameter	35–66 mm
Can Height	80–330 mm
Production Speed	1,000–1,600 cans/h
Packed Dimensions	1,050 × 590 × 1,550 mm
Weight	180 kg

FD9502

2-in-1: Sealing + Gas Filling

Combines valve sealing and propellant gas filling in one workstation. Streamlines the post-filling process for semi-automatic production lines.

Technical Specifications	
Gas Filling Capacity	30–500 ml
Can Diameter	35–66 mm
Can Height	80–330 mm
Production Speed	1,000–1,600 cans/h
Packed Dimensions	1,050 × 590 × 1,550 mm
Weight	180 kg

FD9601

3-Station Split System: Fill + Crimp + Gas

Three independent stations for liquid filling, valve crimping (Ø20 or 1"), and propellant gas filling. Modular design allows flexible workflow configuration and easy maintenance.

Technical Specifications	
Filling Capacity	30–500 ml
Filling Accuracy	≤ ±1%
Gas Filling Accuracy	≤ ±0.03 MPa
Can Diameter	35–66 mm
Can Height	80–330 mm
Production Speed	800–1,300 cans/h
Packed Dimensions	1,100 × 660 × 1,550 mm

Technical Specifications	
Weight	283 kg

FD9603

3-in-1: Micro / Standard / Large-Capacity Filler

Versatile 3-in-1 machine covering micro, standard, and large-capacity filling ranges. Suitable for diverse production requirements without equipment changeover.

Technical Specifications	
Filling Capacity	3–600 ml (3 ranges)
Filling Accuracy	≤ ±1%
Can Diameter	35–66 mm
Can Height	80–330 mm
Production Speed	600–800 cans/h
Configuration	Fill + Crimp + Gas, 3-in-1

Semi-Automatic Combination Machines

FD9604

4-in-1 Aerosol Filling Machine

All-in-one semi-automatic machine integrating liquid filling, valve crimping, propellant gas filling, and booster pump functions. Compact footprint with comprehensive production capability — ideal for startups and SMEs.

Technical Specifications	
Filling Capacity	30–500 ml
Filling Accuracy	≤ ±1%
Can Diameter	35–66 mm
Can Height	80–330 mm
Production Speed	600–900 cans/h
Packed Dimensions	1,200 × 650 × 1,550 mm
Weight	220 kg

Semi-Automatic BOV (Bag-on-Valve) Systems

FD9605

BOV Semi-Auto Filler — Type A (Basic)

Entry-level BOV (Bag-on-Valve) filling system. Under-cap gassing with compressed air or N_2, followed by liquid filling and sealing. Simple, reliable, cost-effective.

Technical Specifications	
Filling Capacity	30–500 ml
Gassing Medium	Compressed air / N_2
Can Diameter	35–66 mm
Can Height	80–330 mm
Production Speed	500–800 cans/h

FD9606

BOV Semi-Auto Filler — Type B

Mid-range BOV filling system with enhanced gassing control and faster cycle times. Suitable for cosmetics, pharmaceutical, and food-grade BOV products.

Technical Specifications	
Filling Capacity	30–500 ml
Gassing Medium	Compressed air / N_2
Can Diameter	35–66 mm
Can Height	80–330 mm
Production Speed	600–1,000 cans/h

FD9607

BOV Semi-Auto Filler — Type C

Advanced BOV system with dual gassing stations and programmable controls. Higher throughput with maintained precision for demanding production requirements.

Technical Specifications	
Filling Capacity	30–500 ml
Gassing Medium	Compressed air / N_2
Can Diameter	35–66 mm
Can Height	80–330 mm
Production Speed	800–1,200 cans/h

FD9608

BOV Semi-Auto Filler — Type D (High-Capacity)

Highest-capacity semi-automatic BOV system. Multi-station gassing and filling for maximum throughput in a semi-automatic configuration.

Technical Specifications	
Filling Capacity	30–600 ml
Gassing Medium	Compressed air / N_2
Can Diameter	35–66 mm
Can Height	80–330 mm
Production Speed	1,000–1,500 cans/h

Fully Automatic Aerosol Production Lines (1-Inch / Standard)

FD9801

Full-Auto Standard Line — Type A (Basic)

Entry-level fully automatic 1-inch aerosol filling line. Comprises: can unscrambler, 2-head liquid filler, sealing machine, 2-head gas filler (with two booster pumps), conveyor, explosion-proof motor, and packing table. Compact footprint, stable operation, low investment — ideal for SMEs targeting 10,000+ cans per day. Optional add-ons: automatic valve inserter, checkweigher, hot water bath, automatic actuator placer.

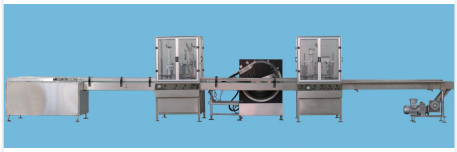
Technical Specifications	
Liquid Filling Heads	2
Gas Filling Heads	2
Booster Pumps	2 included
Production Speed	15–25 cans/min (900–1,500 cans/h)
Conveyor	Stainless steel, explosion-proof motor
Footprint	Compact — ideal for SMEs

FD9802

Full-Auto Standard Line — Type B

Upgraded line with 3-head liquid filler, automatic valve correction, sealing machine, and three independent gas fillers with booster pumps in a dedicated gas-filling room. Higher throughput with separate gas room for enhanced safety.

Technical Specifications	
Liquid Filling Heads	3
Gas Filling Stations	3 (independent gas room)
Booster Pumps	3 included
Production Speed	25–35 cans/min (1,500–2,100 cans/h)
Valve System	Automatic correction + insertion



FD9803

Full-Auto Standard Line — Type C

Premium configuration: can unscrambler, full stainless steel conveyor, 3-head automatic liquid filler, automatic valve insertion, 3-head automatic sealing + gas filling machine, two booster pumps. Full automation from can feeding to finished product.

Technical Specifications	
Liquid Filling Heads	3 (automatic)
Sealing + Gas Filling Heads	3 (combined)
Booster Pumps	2 included
Conveyor	Full stainless steel
Valve System	Automatic insertion

Technical Specifications	
Production Speed	30–40 cans/min (1,800–2,400 cans/h)

FD9804

Full-Auto Cartridge Gas Filling Line

Dedicated automatic line for cartridge gas canister filling. Includes can unscrambler, main machine (vacuum evacuation + sealing + three gas fillers), automatic cap conveyor, explosion-proof motor, and packing table. Optional: auto valve inserter, checkweigher, auto hot water bath leak tester, auto actuator placer, auto cap placer.

Technical Specifications	
Gas Filling Stations	3
Functions	Vacuum + Seal + Gas Fill (integrated)
Production Speed	15–25 cans/min
Conveyor	Automatic cap feed system

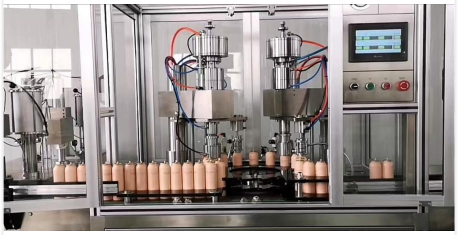
Fully Automatic BOV (Bag-on-Valve) Production Lines

FD9901

Full-Auto BOV Line — Type A (Basic)

Basic fully automatic BOV line with touchscreen + PLC control. Under-cap filling of compressed air (or N_2), followed by sealing and liquid filling. Incorporates international advanced technology for reliable BOV production.

Technical Specifications	
Gassing Medium	Compressed air / N_2 (under-cap)
Control	Touchscreen + PLC
Production Speed	20–30 cans/min
Configuration	Gassing + Sealing + Filling



FD9902

Full-Auto BOV Line — Type B

Designed with Swiss and US aerosol filling technology. Electro-mechanical integrated design with two gassing/sealing machines and two liquid fillers. Premium domestic and international control components for reliability and durability.

Technical Specifications	
Gassing/Sealing Machines	2
Liquid Fillers	2
Control System	PLC + servo
Production Speed	30–40 cans/min

FD9903

Full-Auto BOV Line — Type C

Electro-mechanical integrated BOV line with one gassing/sealing machine and two liquid fillers. Features sample-can positioning for quick height adjustment across multiple can sizes. Premium control components for long service life and high speed.

Technical Specifications	
Gassing/Sealing Machines	1
Liquid Fillers	2
Height Adjustment	Sample-can positioning (quick change)
Production Speed	25–35 cans/min

FD9904

Full-Auto BOV High-Speed Line — Type D

High-speed electro-mechanical BOV line — two cans per cycle. Two gassing/sealing machines and six liquid fillers. Imported premium control components for maximum reliability, durability, and throughput.

Technical Specifications	
Gassing/Sealing Machines	2
Liquid Fillers	6
Feed System	2-can simultaneous feed
Production Speed	40–60 cans/min (2,400–3,600 cans/h)
Control Components	Imported premium brands

Auxiliary Equipment for Automatic Lines

FD9951

Automatic Valve Inserter — Aluminum Valves

Rotary disc automatically selects and orients aluminum valves, then delivers them via pneumatic tube to the insertion station on the automatic filling line. High speed, reliable orientation, seamless integration.

Technical Specifications	
Valve Type	Aluminum
Feed Method	Rotary selection + pneumatic delivery
Speed	Synchronized with main line
Integration	Direct mount on automatic lines

FD9953

Automatic Glass Ball Dispenser

Stepper-motor-driven hopper system automatically dispenses 1–4 glass balls (or other spherical media) into aerosol cans. Adjustable quantity and speed.

Technical Specifications	
Ball Quantity	1–4 (adjustable)
Drive	Stepper motor
Hopper	Upper-mounted, automatic feed
Speed	Synchronized with main line

FD9954

Automatic Checkweigher

Per-can automatic weighing with real-time pass/fail detection. Non-conforming cans trigger an alarm and are automatically separated from the line. Siemens and Festo control components ensure precision and reliability. Digital display records per-shift production counts and reject statistics for production management.

Technical Specifications	
Weighing Method	Per-can, in-line
Reject System	Automatic alarm + separation
Control System	Siemens + Festo
Data Logging	Per-shift production + reject statistics

FD9955

Automatic Hot Water Bath Leak Tester

Explosion-proof motor drives the main shaft and spiral can separator, feeding cans from the conveyor into the tester. Cans travel through the heated water bath for 3–5 minutes on a suspended chain system — operators can observe cans through the protective window for leak detection. Automatic discharge of tested cans.

Technical Specifications	
Bath Duration	3–5 minutes
Drive	Explosion-proof, variable speed
Can Transport	Suspended chain conveyor
Observation	Protective window for visual inspection
Water Temperature	55–65°C (standard)

FD9956

Automatic Actuator (Spray Head) Placer

Vibrating hopper and feed track sort and deliver actuators to the placement position. As the can rises on a cam-guided rotary table, the waiting actuator is aligned with the valve stem — a pneumatic cylinder presses the actuator into place in a single smooth motion.

Technical Specifications	
Feed System	Vibrating hopper + track
Placement Method	Pneumatic press, cam-guided can lift
Speed	Synchronized with main line
Actuator Types	Standard spray heads, various geometries

FD9957

Automatic Cap (Overcap) Placer

PLC-controlled system comprising cap sorting hopper and pressing station. Automatically sorts and feeds overcaps, then presses them onto the aerosol can. High speed, low noise, high degree of automation.

Technical Specifications	
Control	PLC
Components	Cap sorter + press station
Speed	Synchronized with main line
Noise Level	Low

FD9958

Automatic Gripper Conveyor + Inkjet Coder

Explosion-proof motor drives dual synchronized grip belts that hold and transport aerosol cans through the coding zone. Can bottom (or other position) is inkjet-coded with clear, smudge-free characters. Adjustable speed, easy diameter changeover, no can rotation during coding — eliminates tipping and can damage.

Technical Specifications	
Conveyor Type	Dual-belt synchronized gripper
Coding Position	Can bottom (other positions available)
Drive	Explosion-proof motor, variable speed
Can Handling	No rotation — stable, no tipping
Diameter Adjustment	Quick-change, tool-free

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