



Smart Pharmaceutical Dispensing Solution

FOR DRUG R&D, TRIAL PRODUCTION AND PILOT TEST



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DCSmart Wireless Capping Machine



Introduction

DCSmart is equipped with functions such as recipe version management, audit trail, batch management, electronic signature, and user management. The device connects wirelessly to the operator interface, enabling broader application environments. To ensure operational safety, a dual-trigger design is implemented. The system supports electronic batch report generation via Ethernet or USB, and provides real-time audit trails through Ethernet, enhancing traceability throughout the production process.

Applications

Specifically designed for sealing of pharmaceutical vials with aluminum caps or aluminum-plastic caps.

Features

- Full 316L stainless steel, VHPS resistant
- Dual-trigger control to guarantee operator safety
- Segmented torque capping, digitally adjustable
- Wireless connection to HMI
- Fully servo-drive, digital adjustment
- Complies with 21 CFR Part 11 and GAMP

Functions

- One-click debugging, and one-click cap size identification
- Recipe versioning, audit trail, batch records, e-signatures, and user management
- Protect vials from exploding
- PDF report generation and export for printing
- Alarms indication

Technical Parameters

Power Supply	220V	Capacity	420~600 vials/h
Power	0.6kW	Cap Range	8-33mm
Weight	35Kg	Dimensions	455mmx325mmx650mm (LxWxH)

DSF01 Pre-filled Syringe Stoppering Machine



Introduction

DSF01 is specially designed for process development of prefilled syringes and cartridges. It features vacuum stoppering and supports a wide range of prefilled syringe package materials.

Features

- Suitable for sensitive drugs
- Suitable for variety of package materials
- Vacuum stoppering to prevent damage
- Fully servo-drive with digital adjustment for flexible stoppering
- Digitally adjustable vacuum level to avoid air bubbles
- Large touchscreen for simple operation
- Hygienic design enables thorough cleaning
- Quick fit design for fast and reliable mold replacement
- Complies with 21 CFR Part 11 and GAMP

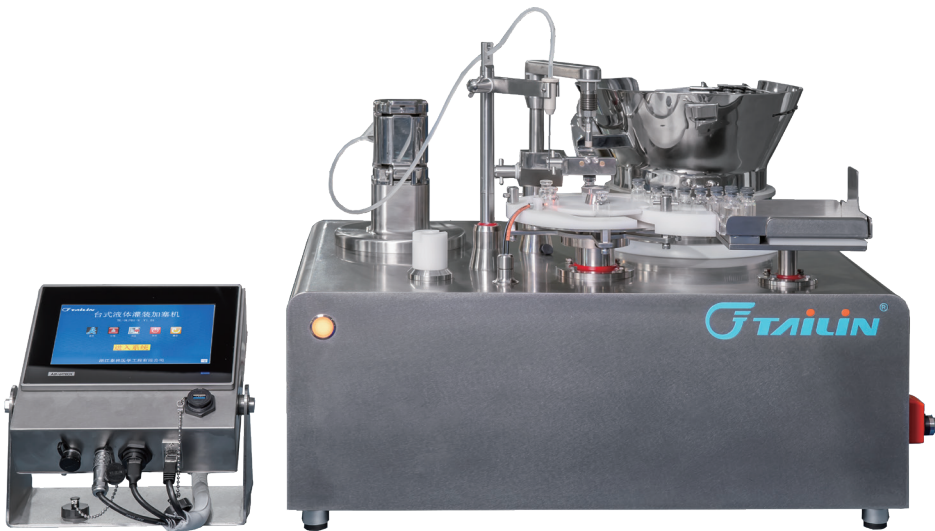
Functions

- User can create the batch record including the summary information, recipe, audit trails, alarms, etc
- Recipes and versions management
- Electronic signatures and records
- Original data can be backup with the help of maintenance tools
- Reports could be exported in PDF format

Technical Parameters

Power Supply	220V	Vacuum Range	-1~-98Kpa
Power	0.5kW	Application	Prefilled syringes and Cartridges
Weight	35kg	Dimensions	430mmx330mmx690mm (LxWxH)
Capacity	≥200 units/h		

DLF01 Vial Stoppering Machine



Introduction

DLF01 is a compact desktop machine integrating precision filling and flexible stoppering. After manual vial loading, the machine automatically performs filling and stoppering with high accuracy. Equipped with a servo-driven system and vacuum stopper pickup, it supports full and half stoppering modes. The photoelectric sensors ensure safety logic: no vial, no filling; no position, no stoppering. The built-in high-precision peristaltic pump enables accurate filling from 0.1 mL to 50 mL. Its modular quick-change design allows for seamless adaptation to various pharmaceutical forms, including vaccines, biologics, and lyophilized powder injections.

Applications

Applicable for filling and stoppering of vials in various sizes.

Features

- High-precision filling as low as 0.1 mL
- Superior repeatable filling accuracy of $\pm 0.5\%$
- Servo-driven control for precise positioning
- Rubber stopper-contact parts are resistant to high heat and humidity sterilization
- Quick-change design for parts, easy to operate
- No parameter settings required, foot pedal operation
- Complies with 21 CFR Part 11 and GAMP
- Full 316L stainless-steel pump head and body, resistant to VH2O2 sterilization

Functions

- Features emptying, suck-back, and precise filling
- Manual bottle loading; automatic vial filling, stoppering, and collection
- Rubber stoppers automatically fed via tray
- PDF report generation and export for printing
- Recipe versioning, audit trail, batch records, e-signatures, and user management

Technical Parameters

Power Supply	220V, 50Hz	Air Source	≥0.4MPa
Power	0.8kW	Application	Vials
Weight	≈45kg	Dimensions	645mm×470mm×500mm (LxWxH)
Capacity	500 vials/h		

DF01 Vial Stoppering Machine



Introduction

DF01 is a flexible and reliable desktop device. It features manual vial loading and automatic stoppering, with a no-vial-no-stop function. Servo-driven for precise positioning, it uses vacuum pick-up and gentle stoppering, supporting both full and half stoppering. Simple to operate and easy to learn. The device can be integrated with the user's peristaltic pump filling system to enable combined filling and stoppering.

Applications

Applicable for filling and stoppering of vials in various sizes.

Features

- Servo-driven control for precise positioning
- Rubber stopper-contact parts are resistant to high heat and humidity sterilization
- Compact size, compatible with biosafety cabinets
- Quick-change design for parts, easy to operate
- Supports data exchange with filling pumps for integrated functionality
- No parameter settings required, foot pedal operation

Functions

- With user's filling machine for automatic filling
- Automatic vial stoppering
- Rubber stoppers automatically fed via
- Manual bottle loading, automatic discharge, and collection with tray

Technical Parameters

Power Supply	220V, 50Hz	Air Source	≥0.4MPa
Power	0.6kW	Application	Vials
Weight	≈40kg	Dimensions	475mm×456mm×481mm (LxWxH)
Capacity	500 vials/h		

DL01 Desktop Liquid Filling Machine



Introduction

DL01 is a multi-functional compact filling machine. The hardware adopts an advanced and reliable algorithm of the pharmaceutical large filling line, with the pump-needle linkage function, avoiding the splashing liquid and bubbles.

Applications

Used for high-precision filling of various containers such as vials, cryovials, prefilled syringes, and ampoules.

Features

- Pump-needle linkage function avoiding the splashing liquid and bubbles
- Emptying and sucking-back to avoid waste
- Timed filling, online backup and disaster recovery
- Recipe versioning, audit trail, batch records, e-signatures, and user management
- PDF report generation and export for printing

Functions

- High-precision filling as low as 0.1 mL
- Superior repeatable filling accuracy of ±0.5%
- Complies with 21 CFR Part 11 and GAMP
- Full 316L stainless-steel pump head and body, resistant to VH2O2 sterilization
- HD multi-touch screen, glove-friendly
- Easy-to-use, quick-swap carrier design
- Convenient independent trigger button

Technical Parameters

Power Supply	220V	Filling Range	0.1ml-2200ml/min
Power	0.85kW	Repeat Fill Accuracy	±0.5%
Capacity	500 units/h	Dimensions	425mmx335mmx680mm (LxWxH)

DLSmart Filling Pump



Introduction

DLSmart is a flexible and reliable desktop compact filling machine with a simple & powerful user interface and fully servo-drive. The single-turn resolution is up to 20 million pulses. To guarantee the dosing accuracy, the motion curve is dynamically adjusted in real-time based on time and position information feedback and integrated with a high-speed dynamic suck-back algorithm. It especially did optimization for the tube made by Dow Corning and Saint-Gobain.

Applications

Used for high-precision filling of various containers such as vials, cryovials.

Features

- Compact size for integration into isolators and biosafety cabinets
- Equipped with an interface to connect to scales for 100% weighing
- 316L stainless steel and aluminum alloy anodized material, VH2O2 sterilization resistant
- Complies with 21 CFR Part 11 and GAMP
- Push button and touch control
- Various communication interface

Functions

- Emptying, sucking-back and timed filling
- Recipe versioning, audit trail, batch records, e-signatures, and user management
- Online backup and disaster recovery
- PDF report generation and export for printing

Advantages

- 0.1mL high filling accuracy
- Repeatability filling accuracy is within $\pm 0.5\%$
- Ergonomic design, more convenient operation
- Zero-waste dispensing, no tubing residue
- HD multi-touch screen, glove-friendly
- Patented OS
- Complies with regulations and GMP standards
- Connectable to external devices (e.g. scales, printer) for error-free calibration and batch printing

Technical Parameters

Power Supply	220V, 50Hz	Max. Flow Rate	2200mL/min
Power	0.6kW	Filling Range	0.1-2200ml/min
Weight	20kg	Dimensions	370mmx296mmx350mm (LxWxH)
Repeat Fill Accuracy	$\pm 0.5\%$		

DLW01 Pouch Filling Machine



Introduction

DLW01 is specifically developed for soft pouch filling processes, enabling pouch filling, nitrogen flushing, exhaust, and heat sealing. It offers high filling accuracy, with the entire filling process conducted through sterile closed piping to minimize contamination risks and reduce repetitive manual operations. This saves time and costs while improving dosing accuracy.

Applications

Used for filling biologics such as blood, cells, vaccines, and viruses.

Functions

- Flow detection and automatic filling
- Automatic exhaust
- Nitrogen flushing protection
- Automatic heat sealing
- Recipe management with version control
- E-signature
- Batch records and audit trail functions; users can create batch records with summaries, recipes, and alarm info; reports exportable as PDF
- Complies with 21 CFR Part 11 and GAMP

Technical Parameters

Applications	EVA、PVC Pouches	Power Supply	220V, 50Hz
Number of bags	Single	Power	0.7kW
Pouch Size	25mL、50mL、100mL、200mL	Weight	$\leq 35\text{kg}$
Repeat Fill Accuracy	$\pm 3\%$	Air Source	$\geq 0.4\text{MPa}$
Residual Oxygen	$\leq 3\%$	Dimensions	445mmx440mmx530mm (LxWxH)

DC01 Desktop Capping Machine



Introduction

DC01 is a capping machine for the vials and infusion bottles. It can be used as a stand-alone machine or in combination with filling machines and dispensing machines.

Features

- Suitable for a cap size range of 13 ~ 20mm made of aluminum and aluminum-plastic
- Capping seal integrity meets CDE requirements for injectable packaging
- Reliable operation, easy to use, flexible replacement of the components
- Compact size, smooth surface, integrable into biosafety cabinets or isolators
- Robust and durable with long service life

Functions

- Applicable to pharmaceutical, agriculture, food, cosmetics, and chemical industries
- The height of the capping cylinder can be adjusted
- Easy operation and reliable for capping different sizes of containers
- Visualized operation with three color indicators

Technical Parameters

Capacity	600 units/h	Power Supply	220V, 50Hz
Applicable	Φ13~20mm aluminum and aluminum-plastic caps	Air Source	≥0.6Mpa
Bottle Diameter	≤55mm	Power	100W
Bottle Height	≤110mm	Dimensions	210mmx150mmx500mm (LxWxH)

RS-01 Refrigerated Shaker



Introduction

RS-01 operates through the coordinated action of a cooling system and a shaking mechanism. The cooling system uses thermoelectric modules and temperature control to maintain low temperatures, while the shaker system, driven by a motor, gearbox, and pressing components, gently compresses bagged samples for uniform mixing. This setup enables effective low-temperature mixing, ideal for preparing chilled products.

Features

- Intelligent temperature control with high precision
- Adjustable pressing frequency for efficient mixing

Applications

Widely and importantly used in fields such as medicine, biology, molecular science, pharmaceuticals, food, and cell and gene therapy. It is mainly designed for mixing liquid samples in culture bags, especially for low-temperature storage and liquid formulation applications.

Technical Parameters

Dimensions	356×380×580(mm)	Power Supply	AC220V/50Hz
Cold Plate Dimensions	220×160(mm)	Power	200W
Shaking Frequency	30-110 cycles/min	Temp. Range	2-8℃
Weight	25kg		