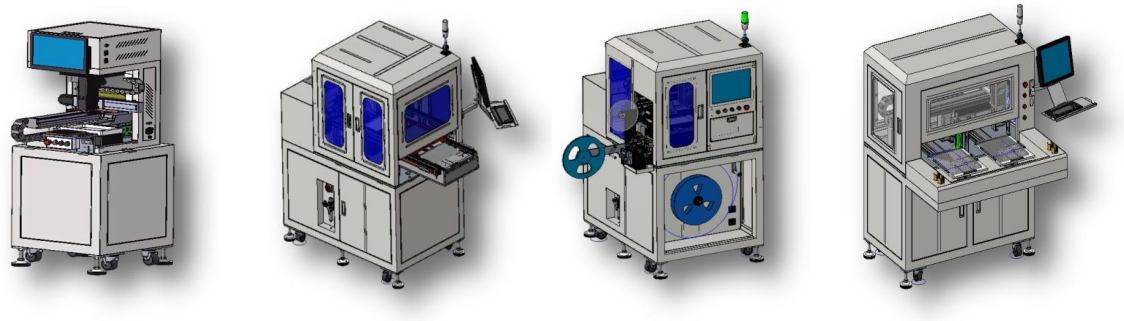
Guangdong Lingchuang Intelligent Equipment Co., Ltd.

AI Vision Flexible Feeding Equipment

Professional Solutions to Automated Feeding Challenges

Flexible Feeding Equipment	**Flexible Tray Loading Equipment**	**Flexible Tape-and-Reel Equipment**
Standard Models	**Volume Production**	**Direct from the Manufacturer**



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2026-1 Edition

Company Introduction



Guangdong Lingchuang Intelligent Equipment Co., Ltd. was founded in 2021 and is a National High-Tech Enterprise. It is located in the CAS (Huinan) Intelligent Manufacturing Innovation and Entrepreneurship Base in the Shuibei Industrial Zone, Huizhou, Guangdong Province. The company was founded by a technical team with more than ten years of front-line R&D experience in the non-standard automation industry. Guided by the philosophy of “creating lasting value for customers through solid technology and unconditional service,” the company maintains independent and controllable core technologies.

At present, the company has mastered three core technologies: **flexible vibratory feeder technology, AI machine vision technology, and industrial robot technology**. Its principal products include **flexible vibratory feeders, flexible feeding modules, flexible feeding workstations, flexible tray loading equipment, flexible tape-and-reel equipment, and vision inspection equipment**.

Leveraging its strengths in AI vision software, core algorithms, and intelligent deep learning, the company focuses on developing flexible, universal intelligent feeding automation equipment that efficiently addresses the pain points of frequent changeovers and high changeover time and cost in **high-mix**, **low-volume** production. Its in-house developed integrated control software enables one-click changeover. Adhering to the core principles of “innovation, quality, and service,” the company is fully committed to helping manufacturing customers achieve automation and intelligent transformation and upgrading.

Company Qualifications







[Translation of the certificates shown above: a High-Tech Enterprise plaque (issued by the Department of Science and Technology of Guangdong Province, the Department of Finance of Guangdong Province, and the Guangdong Provincial Tax Service of the State Taxation Administration; issued 2023, valid for three years); a National Science and Technology-Based SME plaque (Enterprise Name: Guangdong Lingchuang Intelligent Equipment Co., Ltd.; Certificate No. 2024441302AB032492; Supervisory Authority: Department of Science and Technology of Guangdong Province; November 27, 2024); an invention patent certificate; utility model patent certificates; a design patent certificate; a trademark registration certificate; and computer software copyright registration certificates.]

Selected Customers

500+ Customers Served



Application Fields

5,000+ Successful Cases

Flexible feeding and tray loading enables automated feeding and tray loading of **tiny, irregularly shaped, and fragile** parts. With the advantages of high flexibility and high consistency, it significantly reduces **changeover costs** and **production defect rates**. It is suitable for numerous fields, including **3C electronics, semiconductors, new energy, optical communications, automotive components, medical, injection molding, rubber, connectors, precision hardware, MIM powder metallurgy, magnetic materials, and jewelry and toys**.

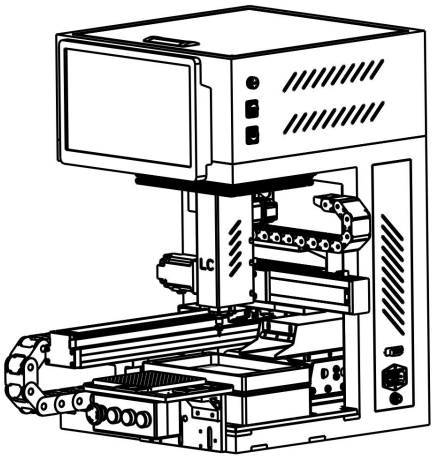
 Powder Metallurgy (MIM) Parts Tray Loading	 Chip Feeding and Tray Loading	 Connector Pins	 Type-C Connector Feeding and Tray Loading
 Battery Nickel Strip Feeding	 FPC Flat Cable Feeding	 Inductor Terminal Feeding	 Capacitor and Resistor Taping
 Automotive Component Feeding	 Metal Accessory Tray Loading	 Cutting Tool Feeding and Tray Loading	 Buzzer Feeding and Tray Loading
 LED Lamp Bead Tray Loading	 SIM Card Tray Loading	 Shield Can Inspection and Taping	 Micro Switch Component Feeding
 Injection-Molded Nut Insert Feeding	 Pin and Rivet Feeding	 Eyeglass Nose Pad Tray Loading	 Medical and Dental Components
 Spring Feeding and Tray Loading	 Fishhook Feeding and Tray Loading	 Mosquito Coil Holder Feeding	 Clock Hand Feeding
 Label Feeding and Tray Loading	 Pump Cup Seal Feeding	 O-Ring Feeding	 Toy Feeding and Tray Loading

Product Range

Because We Focus, We Are Professional

AI Vision Flexible Intelligent Manufacturing

Feeding Series	Feeding for shaping machines, stamping presses, tapping machines, labeling machines, laser engraving machines, laser welding machines, laser marking machines, and dispensing machines; can also interface with rotary-table and conveyor-line assembly machines, etc.
Tray Loading Series	Tray loading of precision hardware parts into jigs and fixtures, powder metallurgy parts before and after sintering, connector pins, blister trays, etc.
Tape-and-Reel Series	Tape-and-reel packaging of electronic components such as chips, resistors, capacitors, inductors, PCBs, and shield cans, as well as precision hardware parts.
Inspection Series	Vision inspection for mixed-part sorting, foreign-variety sorting, product deformation, dimensional anomalies, missing features, appearance defects, etc.



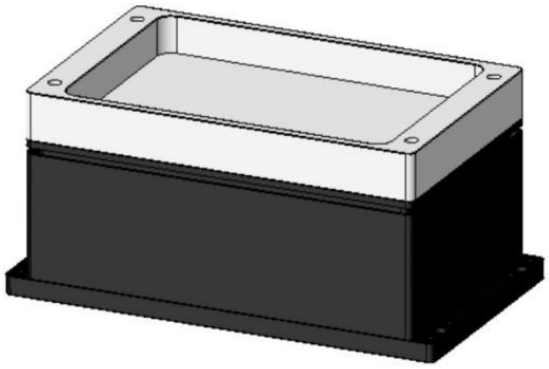
Machine components: Monitor; Gantry Module; Camera and Light Source; Tray Loading Area; Flexible Feeder Plate.



Suitable for Various Material Types

Product Advantages



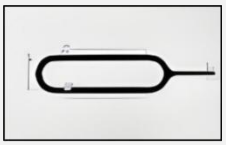


Traditional Feeding	Flexible Feeding
Incompatible Feeding tracks are designed specifically for each part's shape and material.	**Excellent Part Compatibility** Suitable for a wide variety of complex, irregularly shaped parts.
No Changeover Capability Feeder bowls are not interchangeable, and changeover hardware costs are high.	**Fast Changeover** Universal for multiple part types, with quick switching and part clearing.
High Jamming Risk For parts with complex shapes, the risk of jamming during conveyance is very high.	**Never Jams** The open, unobstructed plate surface prevents jamming.
Severe Part Wear Friction between the moving parts and the vibrating surface makes parts prone to wear.	**No Part Damage** Customized polymer trays cause no damage to parts.

Multi-Variety Compatibility	Quick Changeover	Simple and Efficient	Safe and Reliable	Durable

AI Vision Integrated Control Software System



 Dimensional Measurement	 Pick-up and Bonding Alignment	 Feature Recognition	 2D Code Recognition

AI Intelligent Algorithm

A proprietary AI algorithm that self-learns the correct and incorrect orientations of parts, automatically locates part features, and improves the stability of feature-point recognition.

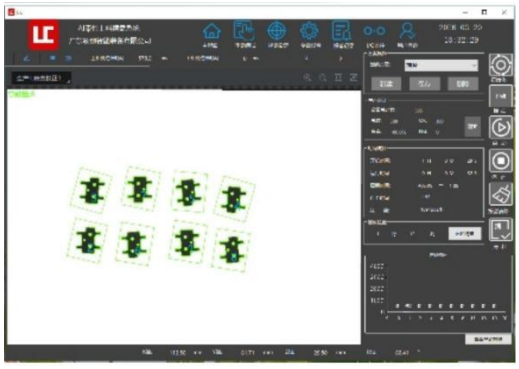
Suitable for applications involving parts with minimal distinguishing differences.

Without AI	With AI
Differences identified by the human eye Templates set manually	Multi-sample, self-learning Features located automatically

Simple and Efficient

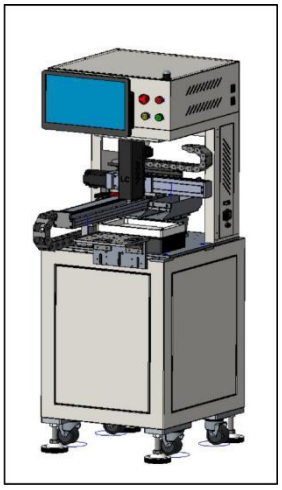
Installation, configuration, and commissioning are guided by graphical step-by-step instructions, lowering the barrier to using vision systems. One-click calibration of the transformation relationship between the robot and the image makes the process efficient and fast.

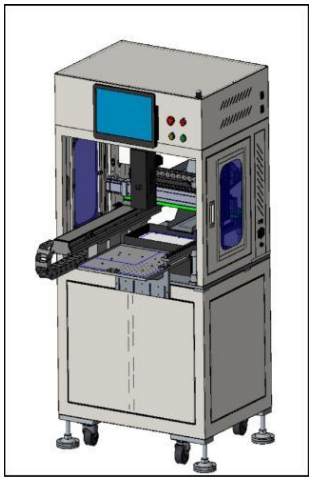
Product Changeover: 5 min

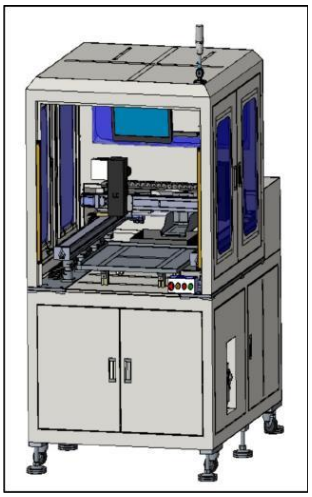


Software interface: Clear Steps, Straightforward Operation

Flexible Feeding and Tray Loading Machine





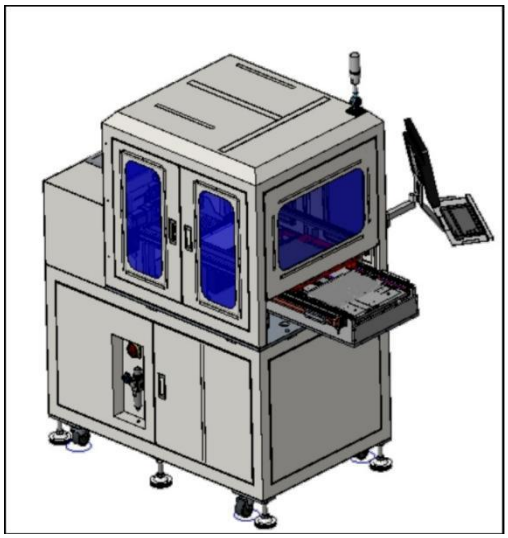


Air Pressure	Capacity	Accuracy	Applicable Part Size
0.5–0.7 MPa	**2,000–4,000 UPH**	**±0.02 mm**	**< 50 mm**

No.	Model	Tray Loading Area	Number of End Effectors	Camera Configuration		Machine Dimensions
1	Model 200	200 × 200 mm	1 / 2	Upper Camera	0.10 mm	800 × 550 × 1500 mm
2				Dual Camera	0.02 mm	800 × 650 × 1500 mm
3				Triple Camera	0.02 mm	800 × 650 × 1500 mm
4	Model 300	300 × 300 mm	1 / 2 / 4	Upper Camera	0.10 mm	900 × 750 × 1700 mm
5				Dual Camera	0.02 mm	1000 × 750 × 1700 mm
6				Triple Camera	0.02 mm	1000 × 750 × 1700 mm
7	Model 400	400 × 400 mm	2 / 4 / 6	Upper Camera	0.10 mm	1000 × 1000 × 1700 mm
8				Dual Camera	0.02 mm	1100 × 1000 × 1700 mm
9				Triple Camera	0.02 mm	1100 × 1000 × 1700 mm
10	Model 500	500 × 500 mm	2 / 4 / 6 / 8	Upper Camera	0.10 mm	1100 × 1600 × 1800 mm
11				Dual Camera	0.02 mm	1100 × 1600 × 1800 mm
12				Triple Camera	0.02 mm	1100 × 1600 × 1800 mm
13	Model 600	600 × 600 mm	2 / 4 / 6 / 8 / 10	Upper Camera	0.10 mm	1200 × 1700 × 1800 mm
14				Dual Camera	0.02 mm	1200 × 1700 × 1800 mm
15				Triple Camera	0.02 mm	1200 × 1700 × 1800 mm

Dual-Tray Switching Flexible Feeding and Tray Loading Machine

Component	LC300E	Remarks
Storage Hopper	10 L	Standard
Flexible Vibratory Feeder	LC300	Standard
Vision Control Software	LCVISON V10	Standard
Flexible Feeder Camera	20 MP + light source	Standard
Precision Positioning Lower Camera	6 MP + light source	Optional
Upper Light Source	High-brightness large-area light	Optional
Suction Nozzle / Gripper	Custom (non-standard)	Optional
Placement Platform	300 × 300 mm placement size	Customizable



Integrated Software and Hardware	User-Friendly Interface	Easy Operation	Wide Range of Applications

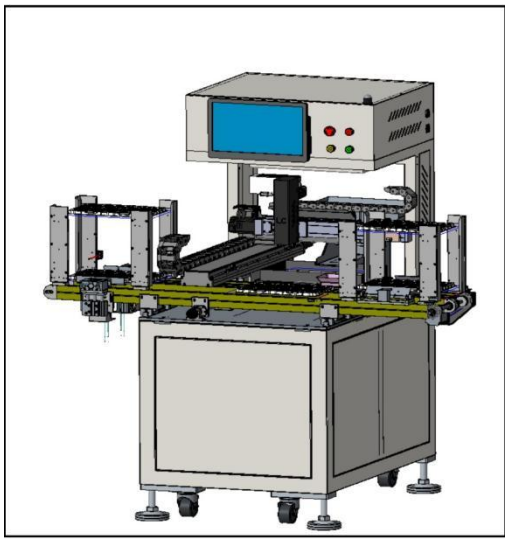
Air Pressure	Capacity	Accuracy	Applicable Part Size
0.5–0.7 MPa	**2,000–4,000 UPH**	**±0.02 mm**	**< 50 mm**

Suitable for automated feeding and tray loading of all types of small precision parts, including 3C electronics, mobile phone components, precision hardware, plastic inserts, and FPC flexible boards. The machine integrates accurate part counting and production data storage and management functions, effectively solving the production challenges of tiny, irregularly shaped parts that are difficult to load into trays, low efficiency of manual operation, and persistently high labor costs, enabling efficient automated production.

- **Flexibility:** Damage-free feeding via the flexible vibratory feeder effectively reduces friction and wear on workpieces.
- **Versatility:** Universal compatibility across all application scenarios; one-click changeover for high-mix, low-volume production.
- **Adaptability:** High-precision CCD vision recognition accurately determines the position and orientation angle of each workpiece.
- **Automation:** Unattended, fully automatic loading and unloading enables long-term, continuous production line operation without downtime.

Fully Automatic Flexible Feeding and Tray Loading Machine

Component	LC300D	Remarks
Storage Hopper	8 L	Standard
Flexible Vibratory Feeder	LC300	Standard
Vision Control Software	LCVISON V10	Standard
Flexible Feeder Camera	20 MP + light source	Standard
Precision Positioning Lower Camera	6 MP + light source	Optional
Upper Light Source	High-brightness large-area light	Optional
Suction Nozzle / Gripper	Custom (non-standard)	Optional
Placement Platform	320 × 230 mm placement size	Customizable



Integrated Software and Hardware	User-Friendly Interface	Easy Operation	Wide Range of Applications

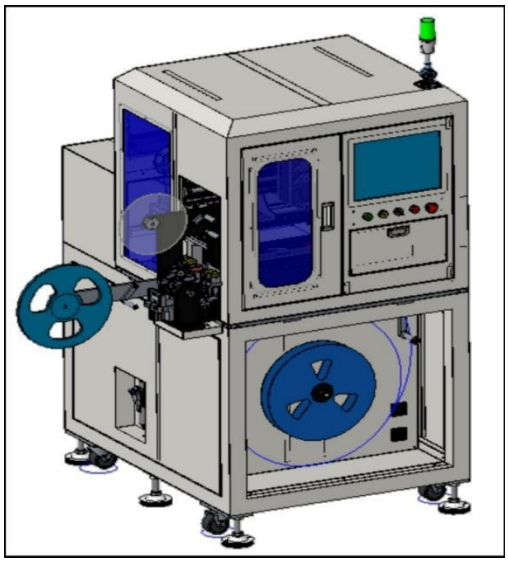
Air Pressure	Capacity	Accuracy	Applicable Part Size
0.5–0.7 MPa	**2,000–4,000 UPH**	**±0.02 mm**	**< 50 mm**

Suitable for automated feeding and tray loading of all types of small precision parts, including 3C electronics, mobile phone components, precision hardware, plastic inserts, and FPC flexible boards. The machine integrates accurate part counting and production data storage and management functions, effectively solving the production challenges of tiny, irregularly shaped parts that are difficult to load into trays, low efficiency of manual operation, and persistently high labor costs, enabling efficient automated production.

- **Flexibility:** Damage-free feeding via the flexible vibratory feeder effectively reduces friction and wear on workpieces.
- **Versatility:** Universal compatibility across all application scenarios; one-click changeover for high-mix, low-volume production.
- **Adaptability:** High-precision CCD vision recognition accurately determines the position and orientation angle of each workpiece.
- **Automation:** Unattended, fully automatic loading and unloading enables long-term, continuous production line operation without downtime.

Fully Automatic Flexible Tape-and-Reel Machine

Component	LC200B / LC300B	Remarks
Storage Hopper	3 L / 10 L	Standard
Flexible Vibratory Feeder	LC200 / LC300	Standard
Vision Control Software	LCVISON V10	Standard
CCD Camera	Upper positioning 20 MP + lower positioning 6 MP + re-inspection 2 MP	Optional
Suction Nozzle / Gripper	Custom (non-standard)	Optional
Reel Size	7" / 13"	Optional
Sealing Method	Heat sealing / Self-sealing	Standard
Positioning Accuracy	±0.1 mm	Standard



Integrated Software and Hardware	User-Friendly Interface	Easy Operation	Wide Range of Applications

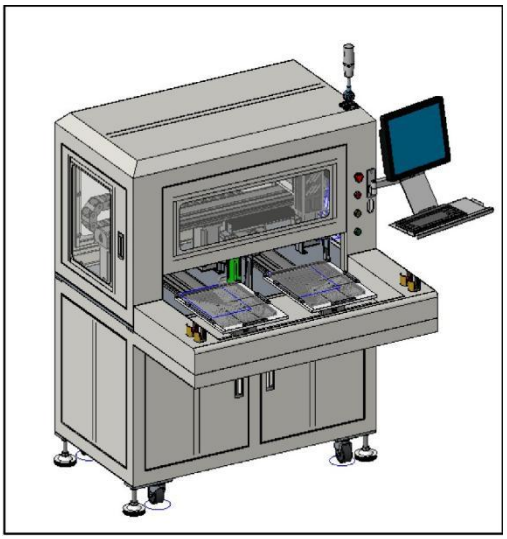
Air Pressure	Capacity	Accuracy	Applicable Part Size
0.5–0.7 MPa	**2,000–4,000 UPH**	**±0.02 mm**	**< 50 mm**

Purpose-built for automated tape-and-reel packaging of precision miniature components, this machine handles a wide range of materials, including 3C electronics, precision hardware, and small semiconductor parts. Based on flexible feeding technology, it balances versatility with part protection. Paired with a high-definition vision system, it delivers high-precision positioning and quality inspection throughout the entire process. Its modular software and hardware architecture allows flexible expansion to meet diverse tape-and-reel packaging needs, significantly improving production line automation efficiency and reducing labor costs.

- **Fully flexible compatibility:** product changeover in just 5 minutes; flexible feeding eliminates scratching and damage to workpieces.
- **High-definition CCD imaging:** two-stage (coarse and fine) precise positioning, with built-in pre-taping inspection for all wrong-part and missing-part defects.
- **Fully modular architecture:** quick-change suction nozzles; fully compatible with both heat-sealing and cold-sealing processes.
- **Intelligent host-computer control:** accurate part counting and statistics; production data is fully traceable and archived.

Tray Transfer and Loading Equipment

Component	LC666	Remarks
Placement Platform	400 × 300 mm placement size	Customizable
Vision Control Software	LCVISON V10	Standard
Upper Camera	20 MP + light source	Standard
Precision Positioning Lower Camera	6 MP + light source	Optional
Upper Light Source	Optional	Optional
Suction Nozzle / Gripper	Custom (non-standard)	Optional



Integrated Software and Hardware	User-Friendly Interface	Easy Operation	Wide Range of Applications

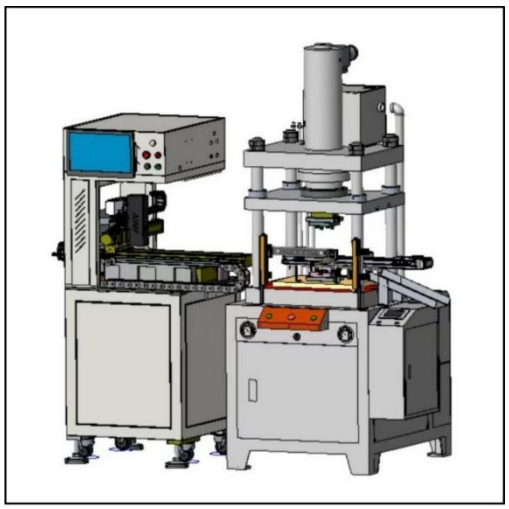
Air Pressure	Capacity	Accuracy	Applicable Part Size
0.5–0.7 MPa	**2,000–4,000 UPH**	**±0.02 mm**	**< 50 mm**

Suitable for automated feeding and tray loading of all types of small precision parts, including 3C electronics, mobile phone components, precision hardware, plastic inserts, and FPC flexible boards. The machine integrates accurate part counting and production data storage and management functions, effectively solving the production challenges of tiny, irregularly shaped parts that are difficult to load into trays, low efficiency of manual operation, and persistently high labor costs, enabling efficient automated production.

- **Damage-free flexible operation:** tray loading customized for precision, fragile, and scratch-sensitive products.
- **Universal for all part categories:** quick switching between different part layout schemes.
- **High-precision CCD vision inspection:** accurate pick positioning, with clear and efficient part sorting.
- **Intelligent cross-tray transfer:** fully automatic part transfer and loading between Tray A and Tray B.

Flexible Feeding Equipment – Stamping and Shaping Industry

Component	LC200A / LC300A	Remarks
Storage Hopper	10 L	Standard
Flexible Vibratory Feeder	LC200 / LC300	Standard
Vision Control Software	LCVISON V10	Standard
Flexible Feeder Camera	20 MP + light source	Standard
Precision Positioning Lower Camera	6 MP + light source	Optional
Upper Light Source	High-brightness large-area light	Optional
Suction Nozzle / Gripper	Custom (non-standard)	Optional
Robot	Linear module / 4-axis robot	Optional



Integrated Software and Hardware	User-Friendly Interface	Easy Operation	Wide Range of Applications

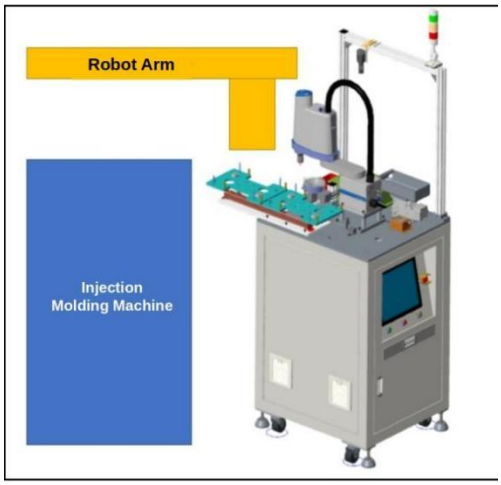
Air Pressure	Capacity	Accuracy	Applicable Part Size
0.5–0.7 MPa	**1,500–3,000 UPH**	**±0.02 mm**	**< 50 mm**

Purpose-built for automated loading and unloading in precision hardware stamping and workpiece shaping processes, this equipment handles a wide range of workpieces, including automotive structural parts, precision stamped parts, irregularly shaped hardware, and small non-standard metal parts. Based on flexible vibratory feeding technology, it is universally adaptable to many types of parts. Paired with a high-definition CCD vision system, it delivers high-precision orientation recognition and position location throughout the entire process, meeting diverse stamping loading and unloading requirements while greatly improving efficiency and reducing labor costs.

- **Flexibility:** Damage-free feeding via the flexible vibratory feeder effectively reduces friction and wear on workpieces.
- **Versatility:** Universal compatibility across all application scenarios; one-click changeover for high-mix, low-volume production.
- **Adaptability:** High-precision CCD vision recognition accurately determines the position and orientation angle of each workpiece.
- **Automation:** Unattended, fully automatic loading and unloading enables long-term, continuous production line operation without downtime.

Flexible Feeding Equipment – Injection Molding Industry (Metal Insert Loading)

Component	LC200G	Remarks
Storage Hopper	10 L	Standard
Flexible Vibratory Feeder	LC200	Standard
Vision Control Software	LCVISON V10	Standard
Flexible Feeder Camera	12 MP / 20 MP + light source	Optional
Precision Positioning Lower Camera	6 MP + light source	Optional
Upper Light Source	Optional	Optional
Suction Nozzle / Gripper	Custom (non-standard)	Optional
Robot	Linear module / 4-axis robot	Optional



Integrated Software and Hardware	User-Friendly Interface	Easy Operation	Wide Range of Applications

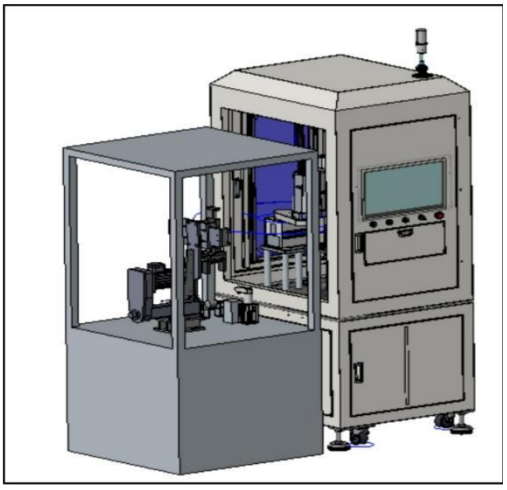
Air Pressure	Capacity	Accuracy	Applicable Part Size
0.5–0.7 MPa	**1,500–3,000 UPH**	**±0.02 mm**	**< 50 mm**

Purpose-built for the loading of metal inserts in the automatic pre-embedding process of injection molding, this equipment handles a wide range of workpieces, including various metal inserts, precision hardware inserts, and small non-standard structural parts. Based on flexible vibratory feeding technology, it is universally adaptable to materials of many specifications. Paired with a high-definition CCD vision system, it performs high-precision orientation recognition and accurate positioning, meeting diverse automated insert-loading requirements for injection molding while greatly improving efficiency and reducing labor costs.

- **Flexibility:** Damage-free feeding via the flexible vibratory feeder effectively reduces friction and wear on workpieces.
- **Versatility:** Universal compatibility across all application scenarios; one-click changeover for high-mix, low-volume production.
- **Adaptability:** High-precision CCD vision recognition accurately determines the position and orientation angle of each workpiece.
- **Automation:** Unattended, fully automatic loading and unloading enables long-term, continuous production line operation without downtime.

Flexible Feeding Equipment – Drilling and Tapping Industry

Component	LC300F / LC400F	Remarks
Storage Hopper	10 L	Standard
Flexible Vibratory Feeder	LC300 / LC400	Optional
Vision Control Software	LCVISON V10	Standard
Flexible Feeder Camera	20 MP + light source	Standard
Precision Positioning Lower Camera	6 MP + light source	Optional
Upper Light Source	High-brightness large-area light	Optional
Suction Nozzle / Gripper	Custom (non-standard)	Optional
Robot	Linear module / 4-axis robot	Optional



Integrated Software and Hardware	User-Friendly Interface	Easy Operation	Wide Range of Applications

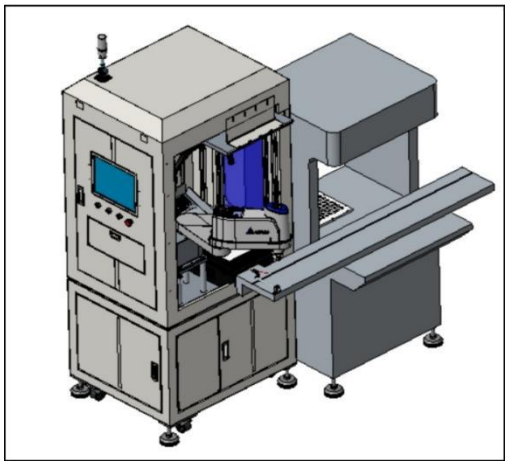
Air Pressure	Capacity	Accuracy	Applicable Part Size
0.5–0.7 MPa	**1,500–3,000 UPH**	**±0.02 mm**	**< 50 mm**

Purpose-built for automated flexible feeding in precision hardware drilling and tapping processes, this equipment handles a wide range of workpieces, including various shaft-type parts, stamped hardware parts, and small non-standard structural parts. Based on flexible vibratory feeding technology, it is universally adaptable to materials of many specifications. Paired with a high-definition CCD vision system, it performs high-precision orientation recognition and accurate positioning, meeting diverse automated drilling and tapping feeding requirements while greatly improving efficiency and reducing labor costs.

- **Flexibility:** Damage-free feeding via the flexible vibratory feeder effectively reduces friction and wear on workpieces.
- **Versatility:** Universal compatibility across all application scenarios; one-click changeover for high-mix, low-volume production.
- **Adaptability:** High-precision CCD vision recognition accurately determines the position and orientation angle of each workpiece.
- **Automation:** Unattended, fully automatic loading and unloading enables long-term, continuous production line operation without downtime.

Flexible Feeding Equipment – Labeling Industry

Component	LC300F / LC400F	Remarks
Storage Hopper	10 L	Standard
Flexible Vibratory Feeder	LC300 / LC400	Optional
Vision Control Software	LCVISON V10	Standard
Flexible Feeder Camera	20 MP + light source	Standard
Precision Positioning Lower Camera	6 MP + light source	Optional
Upper Light Source	High-brightness large-area light	Optional
Suction Nozzle / Gripper	Custom (non-standard)	Optional
Robot	Linear module / 4-axis robot	Optional



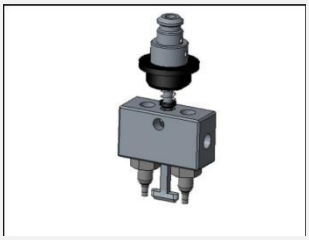
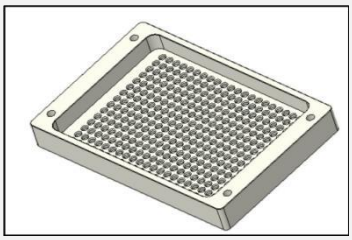
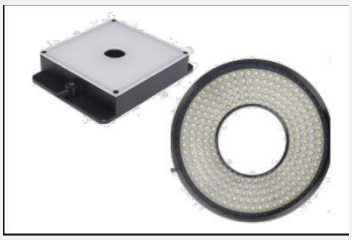
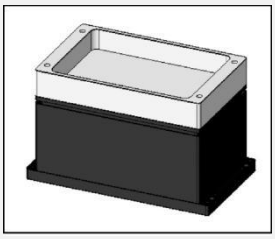
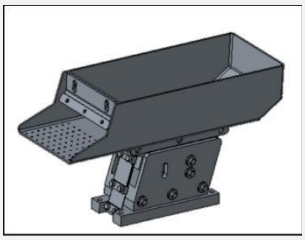
Integrated Software and Hardware	User-Friendly Interface	Easy Operation	Wide Range of Applications

Air Pressure	Capacity	Accuracy	Applicable Part Size
0.5–0.7 MPa	**1,500–3,000 UPH**	**±0.02 mm**	**< 50 mm**

Purpose-built for flexible feeding in automatic labeling processes for all types of components, this equipment handles a wide range of workpieces, including metal accessories, plastic structural parts, small 3C electronic parts, and non-standard irregularly shaped parts. Based on flexible vibratory feeding technology, it is universally adaptable to materials of many specifications. Paired with a high-definition CCD vision system, it performs high-precision orientation recognition and accurate positioning, meeting diverse automatic labeling feeding requirements while effectively improving production line efficiency and reducing manual labor costs.

- **Flexibility:** Damage-free feeding via the flexible vibratory feeder effectively reduces friction and wear on workpieces.
- **Versatility:** Universal compatibility across all application scenarios; one-click changeover for high-mix, low-volume production.
- **Adaptability:** High-precision CCD vision recognition accurately determines the position and orientation angle of each workpiece.
- **Automation:** Unattended, fully automatic loading and unloading enables long-term, continuous production line operation without downtime.

Accessory Products

 High-Precision Suction Nozzle	 Custom Gripper	 Custom Suction Nozzle
 Custom Tray	 Camera and Lens	 Vision Light Source
 High-Performance Industrial PC	 Flexible Vibratory Feeder	 Storage Hopper
 Counterweighted Linear Vibratory Feeder	 Standard Linear Vibratory Feeder	 Linear Vibratory Feeder Controller

Cooperation Process

Step 1 Submit Project Technical Requirements	**Step 2** Technical Feasibility Assessment	**Step 3** Solution Design	**Step 4** Testing and Validation of Key and Difficult Points
Step 5 Joint Solution Review and Technical Agreement Signing	**Step 6** Quotation and Commercial Negotiation	**Step 7** Contract Signing	**Step 8** Progress Reporting, Acceptance, and Delivery

After-Sales Service Commitment

Full-Responsibility Installation	**Professional Commissioning**	**Rapid Trial Production**	**Free Training**
Prompt Response	**Lifetime Service**	**Remote Assistance**	**Rapid On-Site Arrival**

Headquarters: Huizhou, Guangdong



By air

Beijing: 3 hrs

Shanghai and Taiwan: 2 hrs

Japan: 4 hrs

By road

High-speed rail station: 30 min

Airport: 20 min

Guangzhou: 2 hrs

Hong Kong: 2 hrs

Shenzhen and Dongguan: 1.5 hrs

Business Scope

Flexible Feeding Equipment	**Flexible Tray Loading Equipment**	**Flexible Tape-and-Reel Equipment**
Flexible Vibratory Feeders	**AI Machine Vision**	**Assembly and Inspection Equipment**

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