



Flexible Manufacturing System

— Flexible Feeding Product Manual —



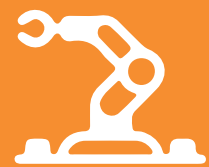
Standardization



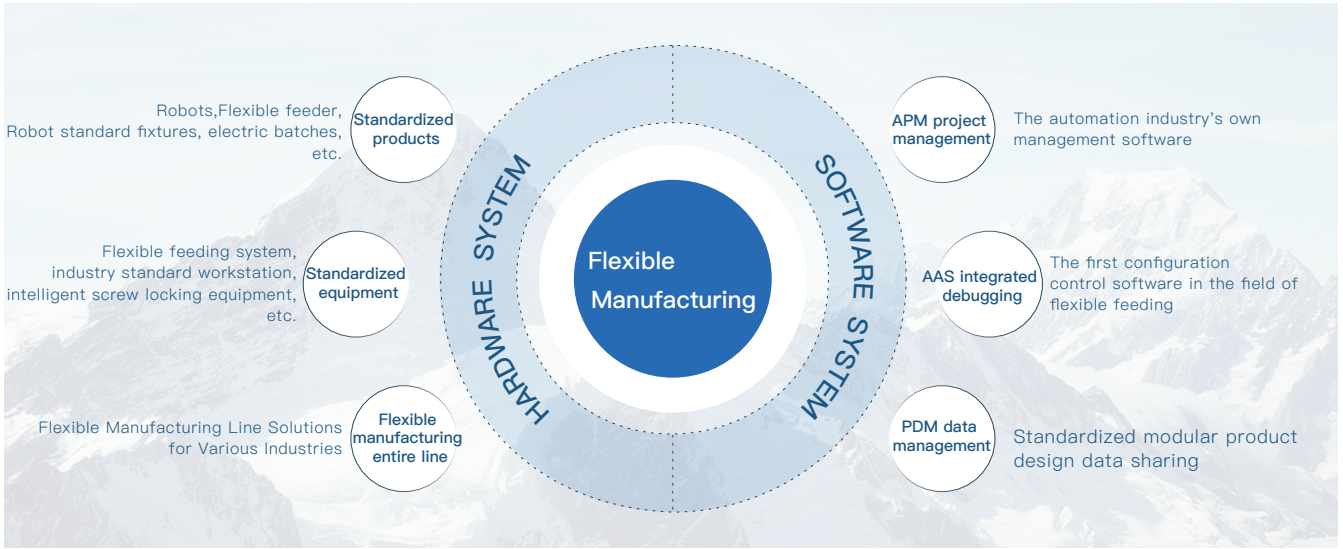
Modularization



Intelligence



Flexible Manufacturing Ecosystem



Why Choose Flexible Feeding?

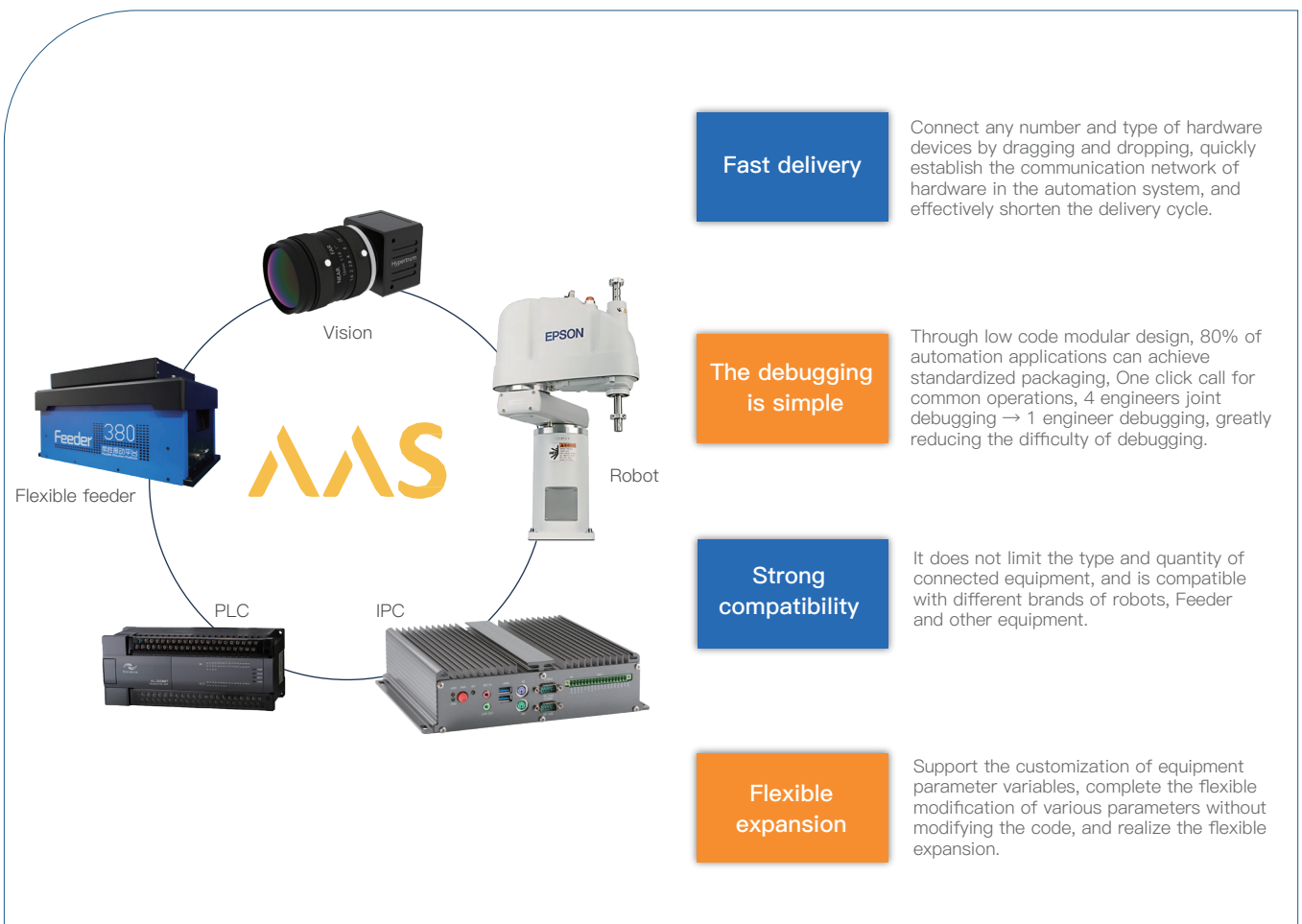
	Flexible Feeding	Traditional Feeding
Color / Shape Sorting	Feasible	Not Feasible
Feeding method	No fixed runner	Fixed runner
Product replacement cycle	One machine for multiple purposes, short replacement cycle	It needs to be redesigned and the replacement cycle is long.
Stuck condition	No	Many
Wear condition	NO	Many
Compatibility	99% compatible	Only one
Vibration frequency	Regulated by servo motor, very stable	Regulated by current, unstable

Advantages Of Modular Production Line



AAS Automation Integration Software

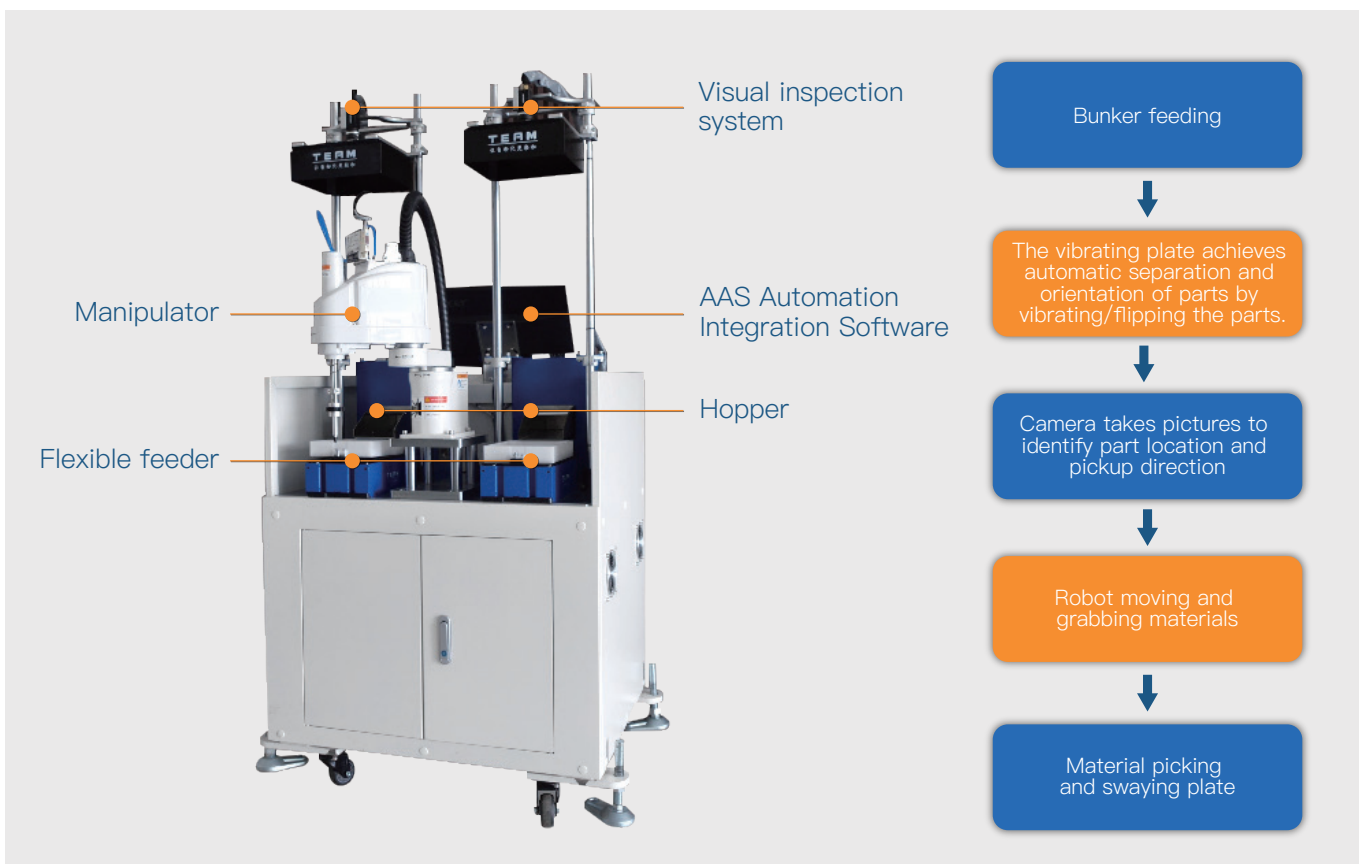
AAS (Automatic Assemble Software) is an integrated software developed, vision, Feeder, robot, industrial computer and other key communication, quickly build automation applications. Using AAS to integrate automation equipment can greatly reduce the integration cycle and debugging difficulty of flexible feeding system, and reduce the integration cost of feeding unit.



Flexible Feeding Workstation



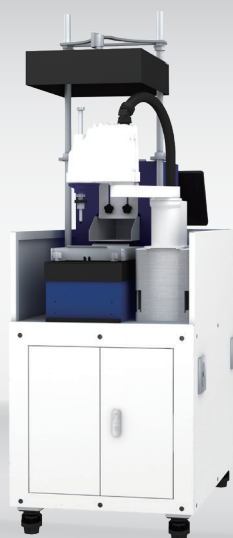
Product Analysis & Workflow



SINGLE-CHANNEL SERIES (one robot + one standard flexible feeding unit + visual inspection system)



With rack rendering



Product model:

FFW-S-240D FFW-S-380D
FFW-S-530D

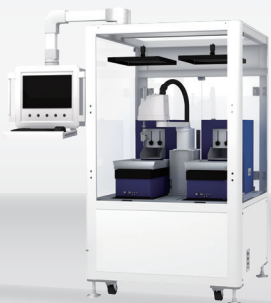
Selection case:

FFW-S-240D

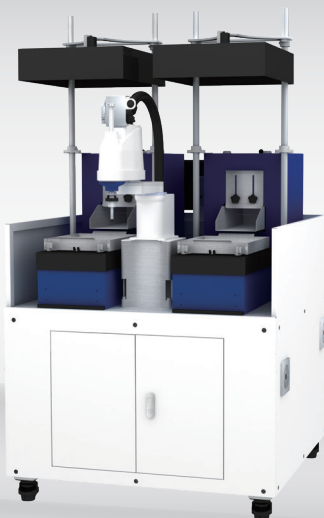
① ② ③

- ① Flexible feeding workstation
- ② Single flexible feeding unit
- ③ Flexible feeder model

DUAL-CHANNEL SERIES (one robot + two standard flexible feeding units + visual inspection system)



With rack rendering



Product model:

FFW-D-120D FFW-D-240D
FFW-D-300D FFW-D-380D
FFW-D-530D

Selection case:

FFW-D-240D

① ② ③

- ① Flexible feeding workstation
- ② Dual flexible feeding unit
- ③ Flexible feeder model

Efficiency	Air pressure	Accuracy	AAS software
1.2~1.5s/pcs	0.5~0.7mpa	0.1mm	VR3.0

Optional

Robot	Mouthpiece	CCD with industrial PC	Ract	Downward light source	Clamping jaw
EPSON / INOVANCE / ESTUN / KUKA	2~15mm		Non-standard customized		

Flexible Feeding Unit



Standard flexible feeding unit, integrated with flexible vibrating plate, silo, camera holder and light source, as a standard module, can be directly applied to automation equipment.

(customization is supported)

Vision System

High-precision visual recognition, Accurate positioning, high efficiency.

HOPPER

The vertical hopper has a larger volume to meet the feeding requirements of customers.

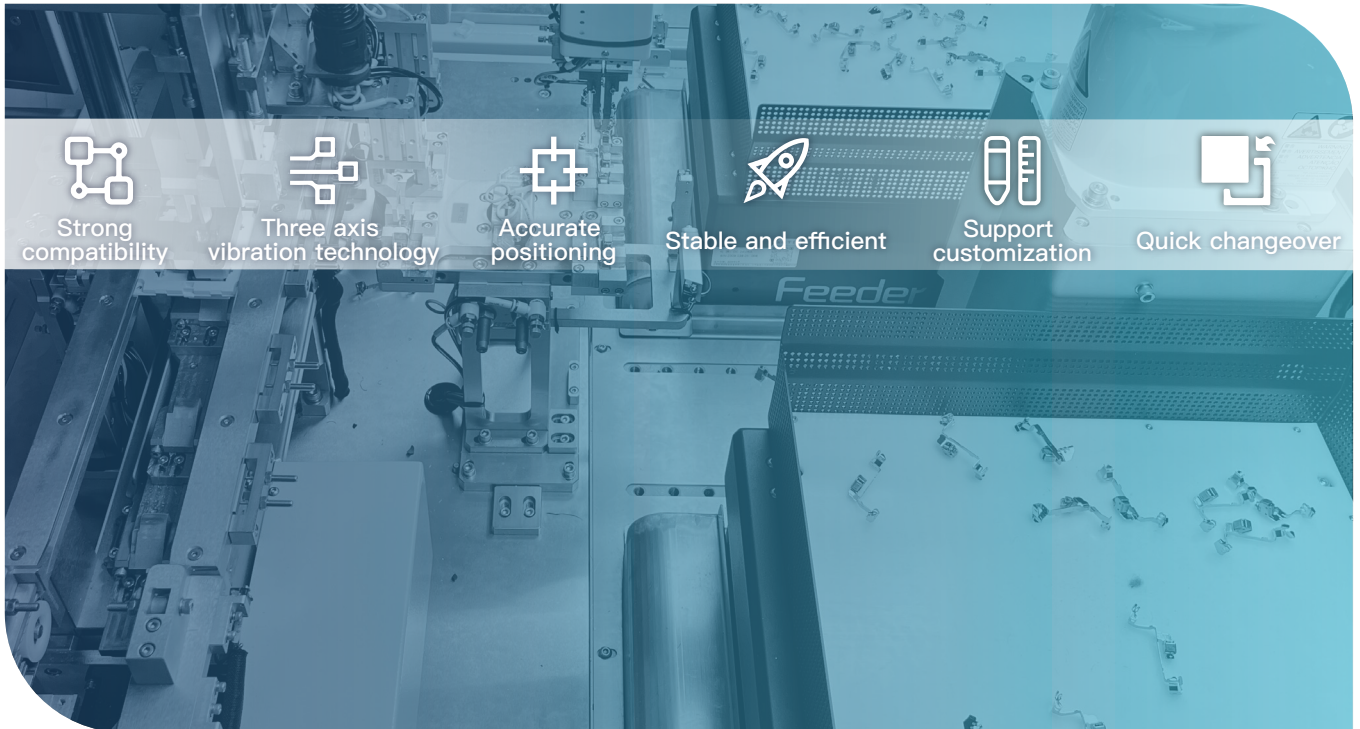
Flexible Vibratory Bowl Feeder

It applies three-axis vibration technology to solve the pain points of traditional loading and unloading.

Dust Cover

Transparent and visible, dustproof and moisture-proof.

Flexible Feeder



Strong compatibility



Three axis vibration technology



Accurate positioning



Stable and efficient



Support customization



Quick changeover

Strong compatibility

Suitable for a variety of parts, 99% of parts such as complex geometric shapes, surface coatings for fear of scratches, thin sheets, special-shaped parts are compatible.

Precise positioning

Independent research and development of industrial vision positioning technology, integrated backlight structure (optional), can accurately locate and grasp parts.

Flexible Production

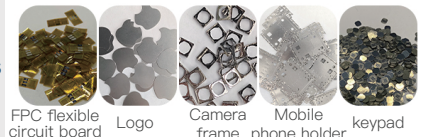
The feeding system does not need to replace hardware, and the program switches production varieties with one key to meet the needs of flexible production of small batches and multiple varieties.

No jamming and low wear

Based on the three-axis vibration technology, the vibration amplitude and frequency are adjustable, the parts are fed gently, there is no long-term vibration, the surface damage is minimized, and there is no hidden danger of material jamming.

Application Industry

3C Electronics



FPC flexible circuit board Logo Camera frame Mobile phone holder keypad

Electronic semiconductor



Chip Relay Electronic component Trumpet capacitive resistance

Powder metallurgy



Profiled Gear components Fixings Brace retainer Link piece

Hardware parts



Hardware sheet Stamping sheet Special-shaped spring

Rubber and plastic

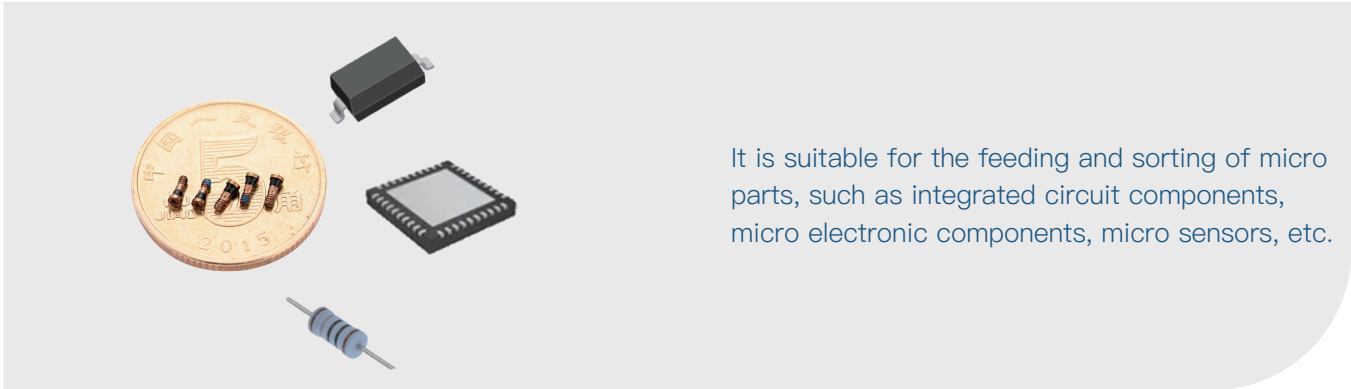


O-ring silica gel Plastic Rubber parts Rubber sheet

FF75 / FF120D

Note:

1. D indicates the enhanced version of the motor;
2. If the size does not meet the demand, you can contact the business for customization.



It is suitable for the feeding and sorting of micro parts, such as integrated circuit components, micro electronic components, micro sensors, etc.



Overall Dimensions	129*96*77.5 mm
Panel Dimensions	63*36 mm
Weight	1.2 kg
Weight-bearing capacity	0.2 kg
Applicable part size	0.5~7 mm



Overall Dimensions	229*101*129.5 mm
Panel Dimensions	109*74 mm
Weight	3 kg
Weight-bearing capacity	0.2 kg
Applicable part size	2~15 mm

Operating noise	Vibration frequency	Driver	Interface
≤ 40 db	0~100Hz	Integrated type	TCP/IP、 IO

Optional

Visual inspection system	Integrated LED backlight	Detachable platform	Panel style	Automatic material cleaning
<input type="checkbox"/> None	<input type="checkbox"/> White	<input type="checkbox"/> None	<input type="checkbox"/> Plane	<input type="checkbox"/> None
<input type="checkbox"/> TEAM AAS	<input type="checkbox"/> Red / Green / Blue	<input type="checkbox"/> Have	<input type="checkbox"/> Hole/Slot/Nesting	<input type="checkbox"/> Have

FF240D / FF300D



It is suitable for the feeding and sorting of small parts, such as small and medium sized screws, steel sheets, small springs, small and medium-sized connectors, etc.



Overall Dimensions	315*175*129 mm
Panel Dimensions	195*150 mm
Weight	6 kg
Weight-bearing capacity	0.4 kg
Applicable part size	5~40 mm



Overall Dimensions	418*235*168.5 mm
Panel Dimensions	264*200 mm
Weight	9 kg
Weight-bearing capacity	0.8 kg
Applicable part size	10~45 mm

Operating noise	Vibration frequency	Driver	Interface
≤ 40 db	0~100Hz	Integrated type	TCP/IP、IO

Optional

Visual inspection system	Integrated LED backlight	Detachable platform	Panel style	Automatic material cleaning
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FF380D / FF530D



It is suitable for the feeding and screening of large irregular materials, such as toy building blocks, medical equipment, automotive parts, etc.

FF380D



Overall Dimensions	475*292*247 mm
Panel Dimensions	326*256 mm
Weight	26 kg
Weight-bearing capacity	1 kg
Applicable part size	15~60 mm

FF530D



Overall Dimensions	620*409*268 mm
Panel Dimensions	464*371 mm
Weight	43 kg
Weight-bearing capacity	1 kg
Applicable part size	30~150 mm

Operating noise	Vibration frequency	Driver	Interface
≤ 40 db	0~100Hz	Integrated type	TCP/IP、IO

Optional

Visual inspection system	Integrated LED backlight	Detachable platform	Panel style	Automatic material cleaning
<input type="checkbox"/> None	<input type="checkbox"/> White	<input type="checkbox"/> None	<input type="checkbox"/> Plane	<input type="checkbox"/> None
<input type="checkbox"/> TEAM AAS	<input type="checkbox"/> Red / Green / Blue	<input type="checkbox"/> Have	<input type="checkbox"/> Hole/Slot/Nesting	<input type="checkbox"/> Have

Hopper



Stable vibration source

Electromagnetic direct vibration drive, stable vibration, can realize stable feeding.

Cost-effective

Stable operation and high cost performance

Integrated design

Integrated design, large volume, low noise.

Flexible vibration mode

The vibration mode can be adjusted in real time according to different materials.

Product Model & Parameters

FB120

Size	205*126*172 mm
Volume	0.15 L
Controller	Split type

FB240

Size	367*230*362 mm
Volume	2 L
Controller	Integrated type

FB300

Size	413*260*398 mm
Volume	3 L
Controller	Integrated type

FB380

Size	486*341*569 mm
Volume	10 L
Controller	Integrated type

FB530

Size	526*318*604 mm
Volume	20 L
Controller	Integrated type

More Products



Screw tight



SCARA Fixture

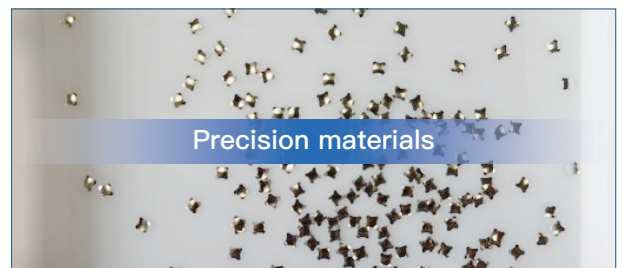
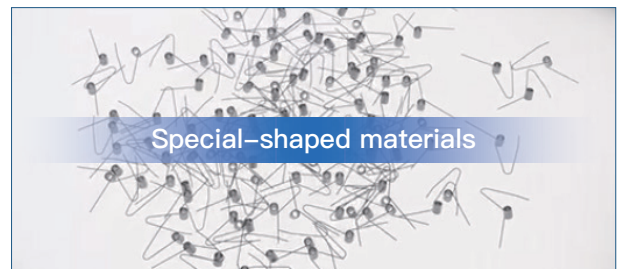
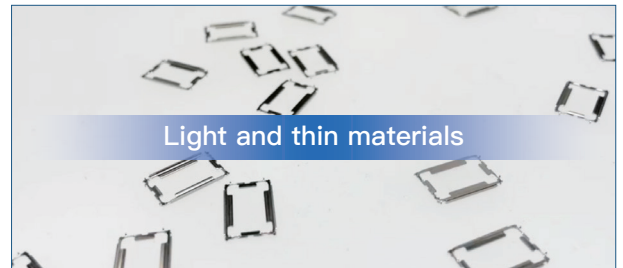


Robot

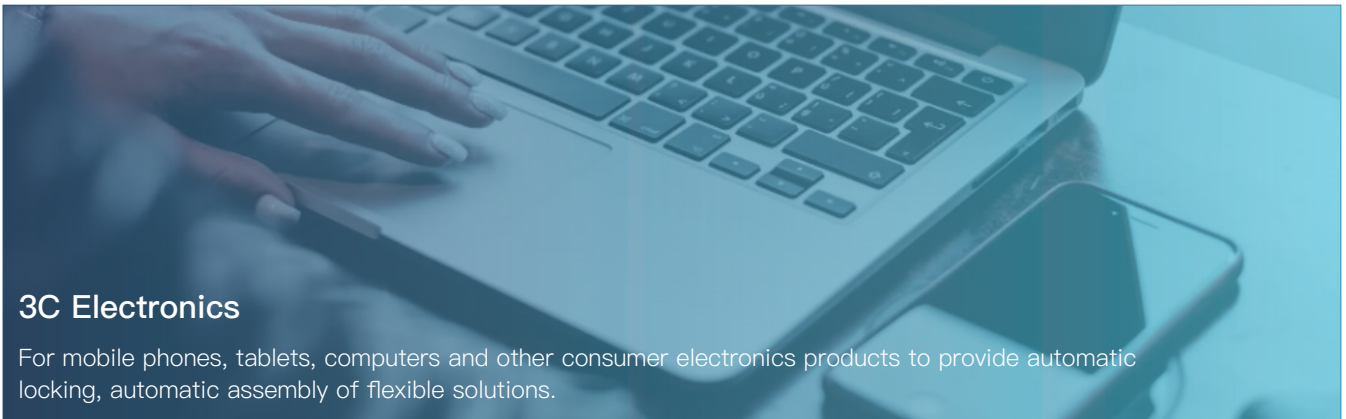


Scan the code and
add to get
more product information

Part Of The Application Photo

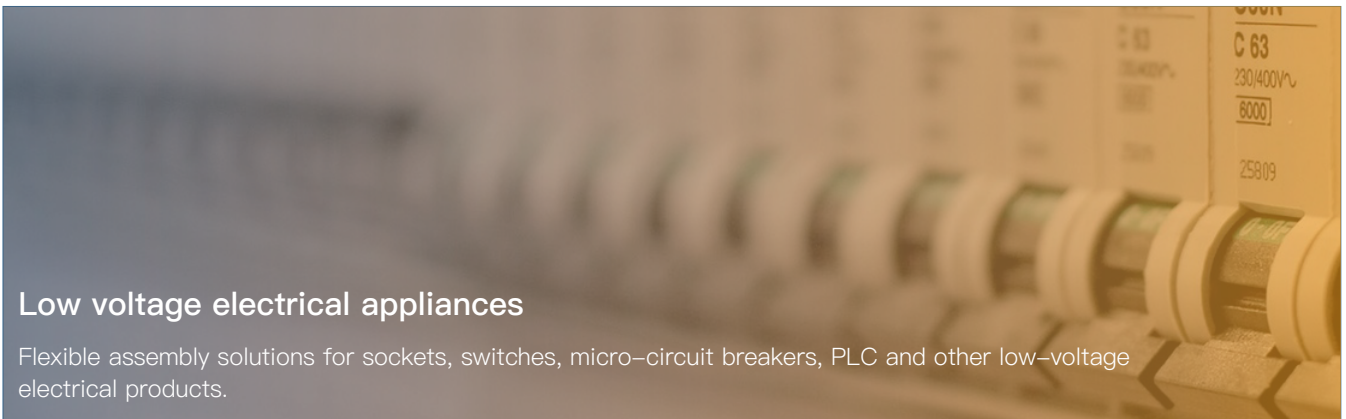


Application Industry



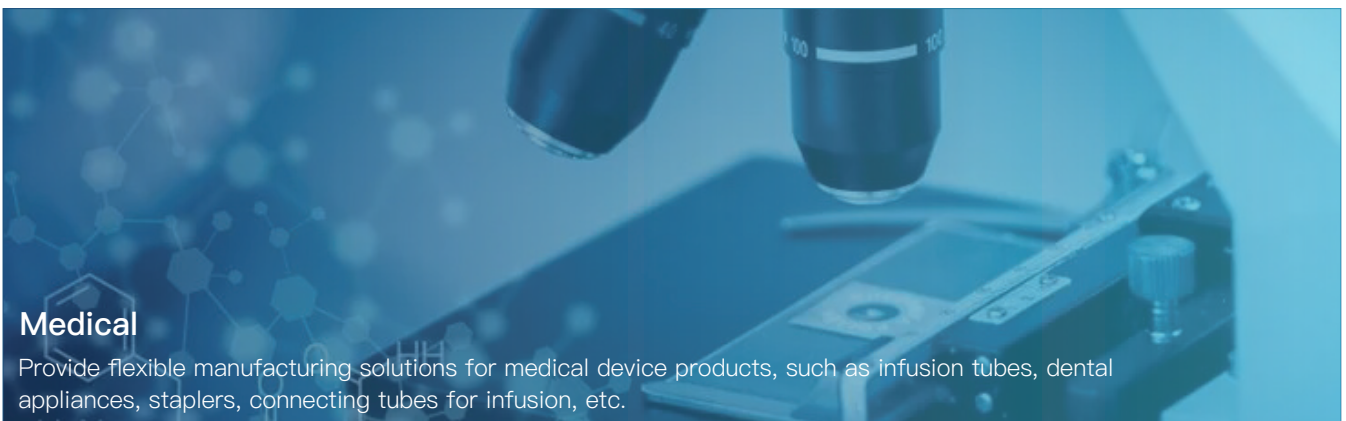
3C Electronics

For mobile phones, tablets, computers and other consumer electronics products to provide automatic locking, automatic assembly of flexible solutions.



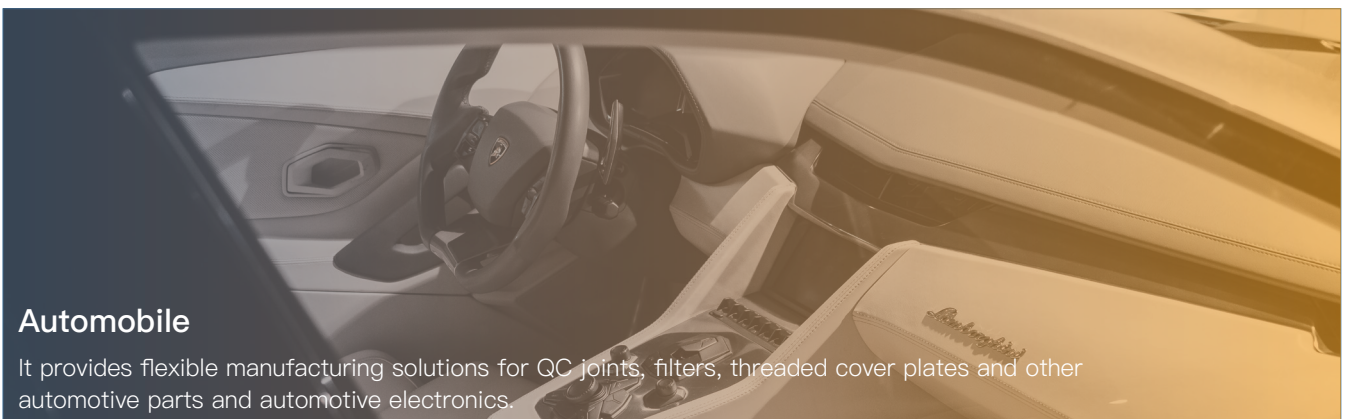
Low voltage electrical appliances

Flexible assembly solutions for sockets, switches, micro-circuit breakers, PLC and other low-voltage electrical products.



Medical

Provide flexible manufacturing solutions for medical device products, such as infusion tubes, dental appliances, staplers, connecting tubes for infusion, etc.



Automobile

It provides flexible manufacturing solutions for QC joints, filters, threaded cover plates and other automotive parts and automotive electronics.



Take flexible manufacturing as the core to help the global factory industry 4.0 landing

Partners

