

THIM3

INSERTION THROUGH HOLE



Solucinde

Radial and Axial Inserter machine

Next-Generation Upgrade — More Performance, Same Price

The new generation features a streamlined design with an advanced motion-control wiring system and custom high-end servo drivers:

50% fewer sensors than the previous generation — fewer failure points, greater stability, easier maintenance

Smarter software control — faster response and higher forming precision

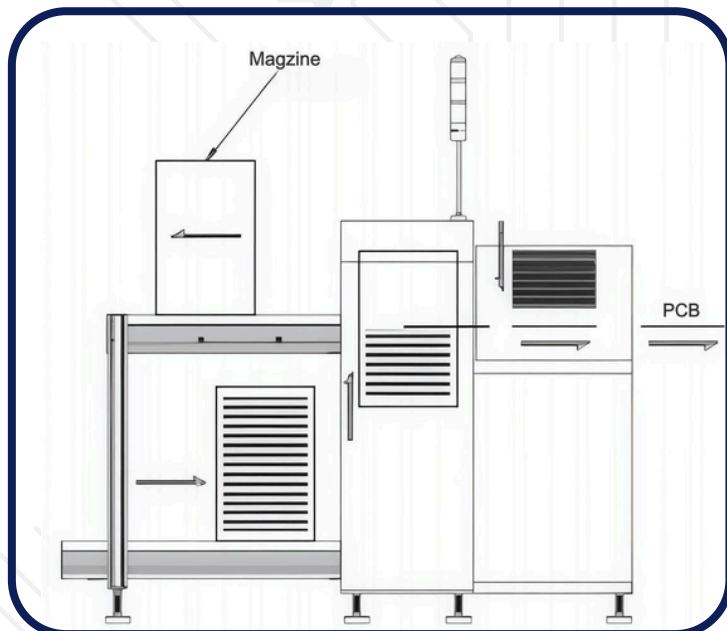
40% higher throughput — more output in the same production time

Lower failure rate — less downtime, more peace of mind

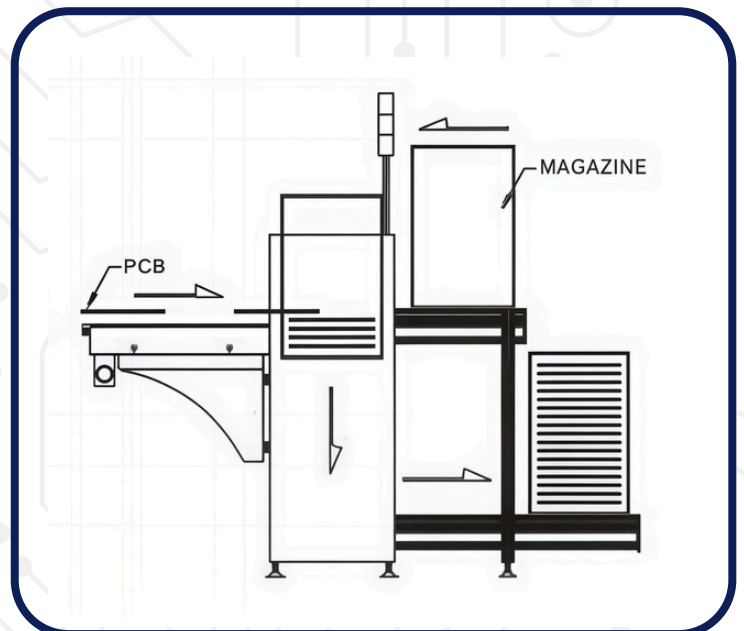
Same price as the previous version — a full performance upgrade at zero extra cost



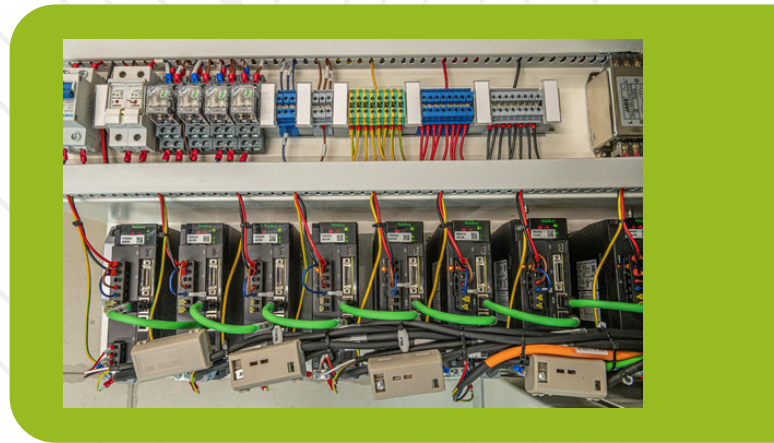
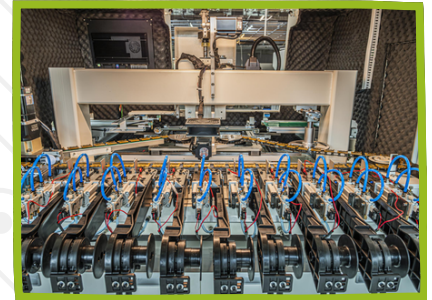
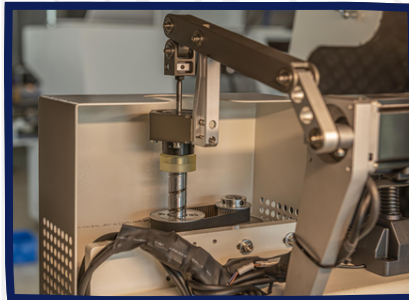
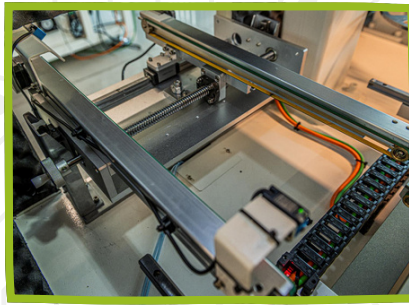
Radial Inserter machine



Magazine & vacuum combo loader



Magazine Unloader



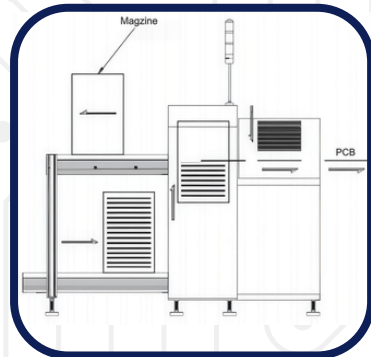
User-Friendly Design for Effortless Maintenance

Slide-out electrical cabinet: The entire electrical module pulls out smoothly on rails — Servo Drive, terminal blocks, and wiring all at a glance. Engineers can service the machine standing up, without reaching deep inside.

Front-mounted pneumatics: The air preparation unit and solenoid valves are positioned within easy reach — pressure adjustment,

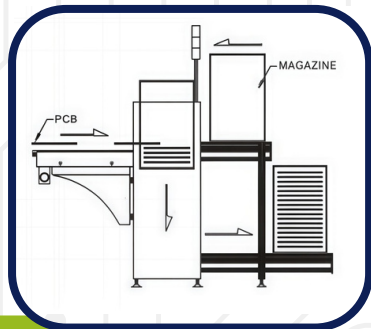
Separated zones, clearly labeled wiring: Pneumatic and electrical sections are independently laid out with neat routing and wire markers on every line, making troubleshooting fast and frustration-free.

HIGH END AUTOMATIC FOLDING LOADER



Magazine&vacuum combo loader

Model	I4R-250	I4R-330	I4R-390	I4R-460
Dimension(mm)	1850*855*1250	2185*935*1250	2320*994*1250	2865*1230*1250
PCB Size(mm)	50*80-330*250	50*80-445*330	50*80-460*390	80*80-530*460
Rack Size(mm)	355*320*563	460*400*563	535*460*563	535*530*563
No. of magazine	Upper Conveyor: 1magazine; Lower Conveyor: 2magazine			
Indexing pitch	10 . 20 . 30 . 40mm or specify			
Maximum PCBs capacity	400pcs(0.6mm thick PCB)			
Cycle Time	Approx. 12 seconds or specify			
Power Supply	AC 1P 110V/220V; Max 300VA			
Air Pressure	4-6bar, 30ltr/min Max			
Transport Height	900±20mm(or customized)			
Transport Direction	From left to right or right to left			
Weight(KG)	190	220	260	350

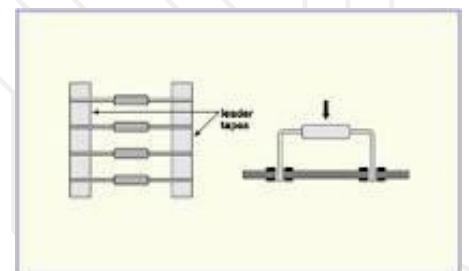


Magazine Unloader

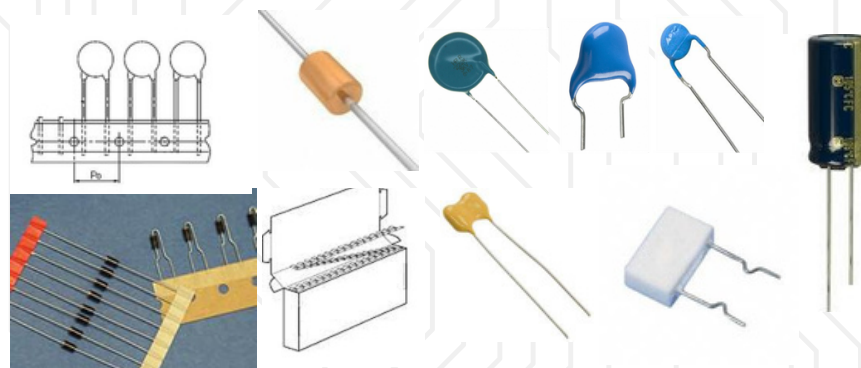
Model	I4R-250	I4R-330	I4R-390	I4R-460
Dimension(mm)	1825*773*1170	2080*853*1170	2327*987*1250	2370*1050*1250
PCB Size(mm)	80*80-330*250	80*80-445*330	80*80-530*390	80*80-530*460
Rack Size(mm)	355*320*563	460*400*563	535*460*563	535*530*563
No. of Magazine	Upper:1, Lower:2			
Time Feed PCB	Lower board for 10 seconds			
Magazine Replacement Time	Approx.30 seconds or specify			
Indexing Pitch	10.20.30.40mm or specify			
Power Supply	AC 1P 110V/220V; Max 300VA			
Air Pressure	4- 6bar,10ltr/min Max			
Transport Height	900±20mm(or customized)			
Transport Direction	From left to right or right to left			
Weight(KG)	160	220	280	320

Components

Axial



Radial



Lead Clipper Interference

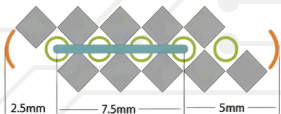
THIM3-R



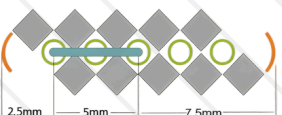
2.5/5.0/7.5/10mm
Three Trimming Span Clipper



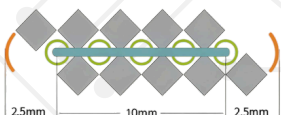
2.5mm Trimming Span Clipper Work



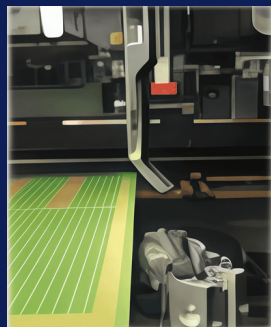
7.5mm Trimming Span Clipper Work



5.0mm Trimming Span Clipper Work

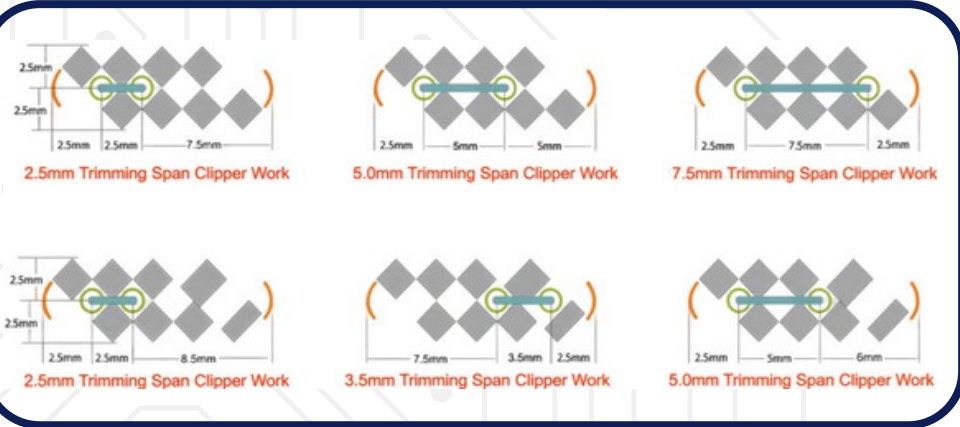


10mm Trimming Span Clipper Work



2.5/5.0/7.5mm
Three Trimming Span Clipper

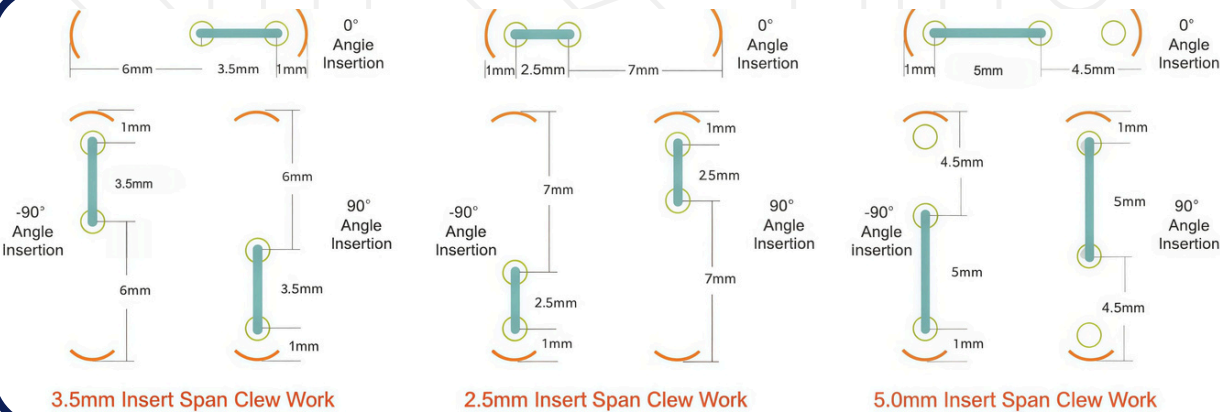
2.5/3.5/5.0mm
Three Trimming Span Clipper



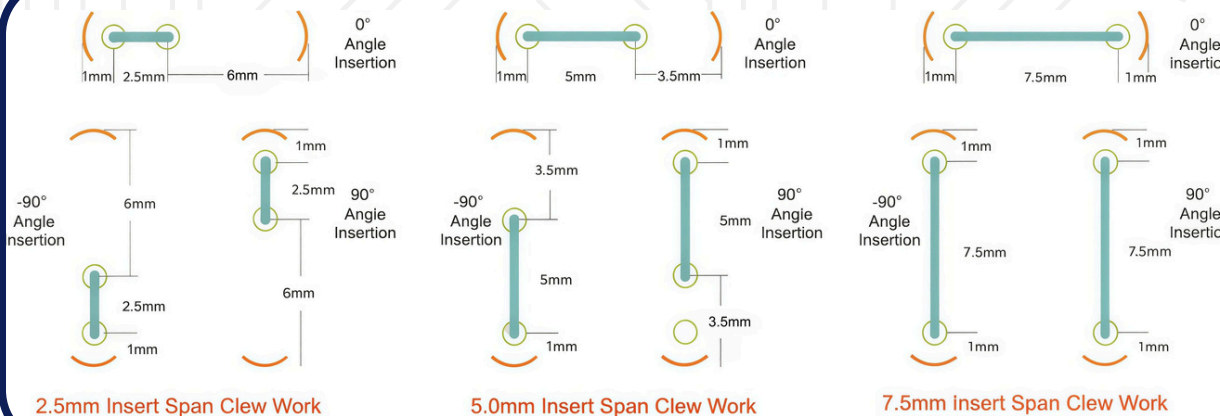
Radial Claw Interference



2.5/3.5/5.0mm
Three Insert Span Claw

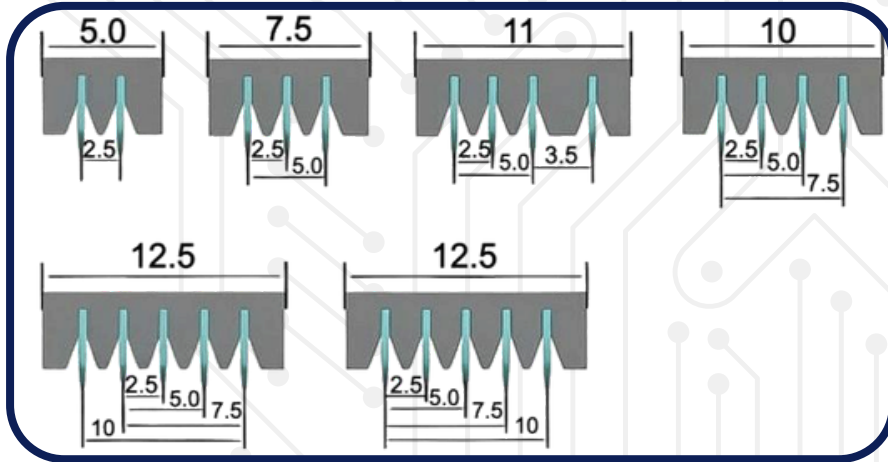


2.5/5.0/7.5mm
Three Insert Span Claw



RADIAL INSERT INTERFERENCE

Claw Width Interference:

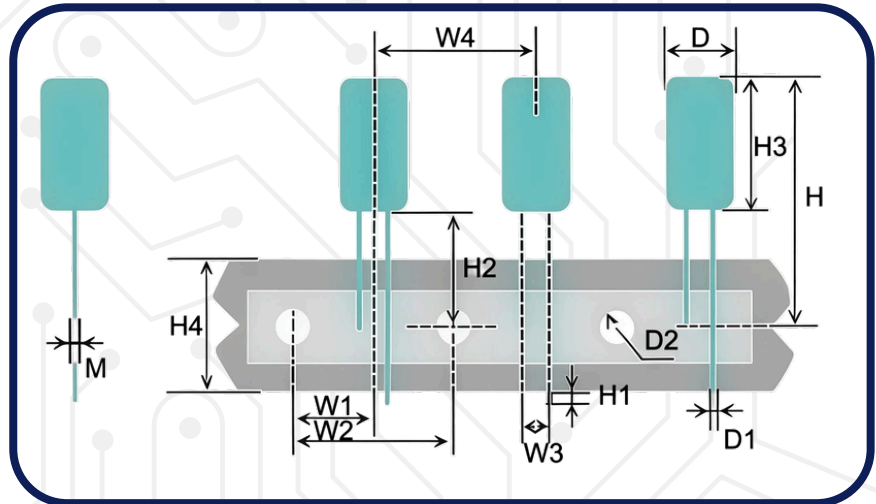


Six Types of Inserter Claws

- Single Insert Span: 2.5mm
- Two Types Insert Span: 2.5/5.0mm
- Three Types Insert Span: 2.5/3.5/5.0mm
- Three Types Insert Span: 2.5/5.0/7.5mm
- Four Types Insert Span A/B Models: 2.5/5.0/7.5/10mm

Even if the span of the component is 2.5mm, the entire main claw mechanism follows and completes the plug-in action together. Pay attention to the width interference of the main claw.

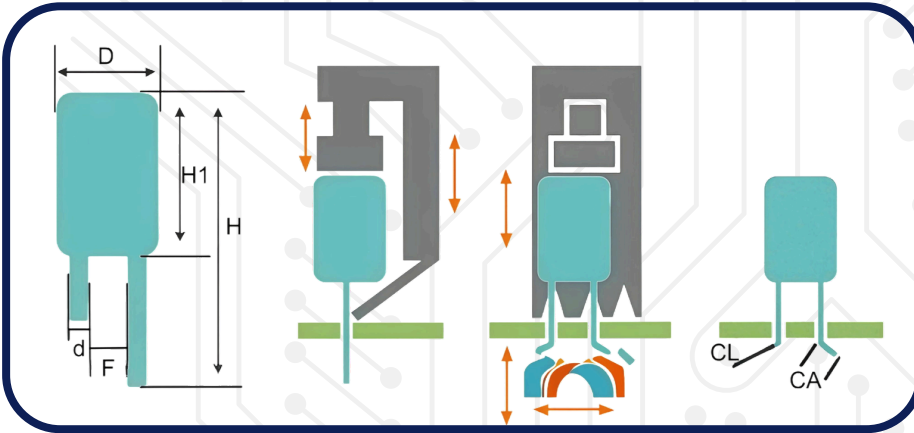
Radial Insertion



Radial Taping Specification:

Markers	Content	Parameter
W1	Tape hole center to component center	6.35mm
W2	Pitch of holes	12.7/15mm
W4	Pitch of components	12.7/15mm
H1	Pin wire protruding length	0
H2	Tape center to component base	18mm
H4	Components taping width	18mm
H	Tape center to component top	$H2+H3 \leq 41\text{mm}$
D1	Pin wire diameter	$0.4 \leq D1 \leq 0.75\text{mm}$
D2	Hole diameter	$4 \pm 0.2\text{mm}$
M	Tape thickness	$M \leq 1.2\text{mm}$

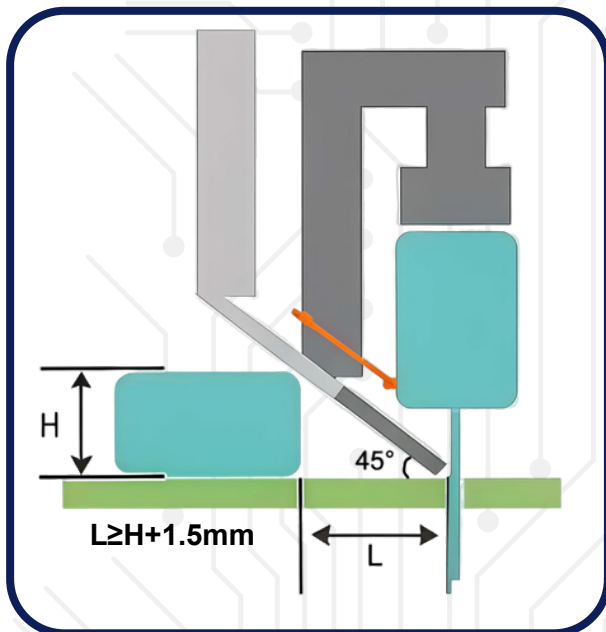
Radial Component Specification



Insert the radial components into the preset holes on the PCB with a fixed span, and cut and bend the bottom component pins. The rivet shape on the printed board is shown in the figure.

Trimming Length and Bending:

Markers	Content	Parameter
D	Body diameter	$D \leq 13\text{mm}$
H	Body height	$H \leq 23\text{mm}$
F	Pitch of pin wire	$2.5/3.5/5.0/7.5/10\text{mm}$
d	Pin wire diameter	$0.4 \leq d \leq 0.75\text{mm}$
CA	Trimming length	$CL = 1.2 \sim 2.2 \pm 0.3\text{mm}$
CL	Bending angle	$CA = 5 \sim 45^\circ$ to be adjustable



Radial Insert Interference

Claw Back Interference :

The angle of the claw is 45° , and after the insert is completed, it should be noted that the height and distance of the inserted components behind the claw and the patch components interfere with each other.

Insert Interference

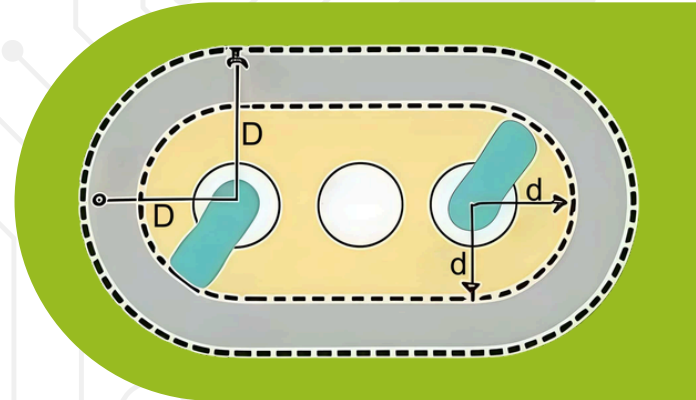
Claw interference + component leadclipperinterference

Due to the presence of space volume in the cutting tools and fixtures of the device, there may be spatial interference during insertion and foot cutting operations. No other components should be installed in the safety area to avoid tool collisions and PCB board damage.

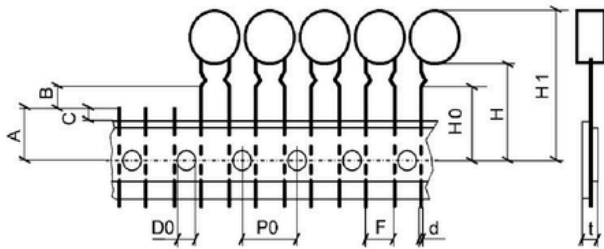
The claws in close to the front of the PCB board and requires a certain safe working space. As shown in the figure, it should be at least 1mm away from the center of the insert pin hole.

When performing the foot trimming action, the foot trimmer will rise close to the bottom of the board (opposite side) and also require a safe working space. As shown in the figure, it should be at least 2.5mm away from the center of the insert pin hole D.

If the diameter of the component body is greater than the span of the insert, the claws interference will increase the corresponding range, and the shear foot interference will remain unchanged.



Tape and component dimensions-----



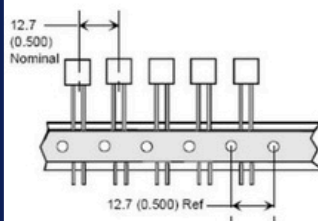
Dimensions feeder and tape

Abb.	Description	Dimensi on	Tol
A	Distance transport hole cutting edge (in RF 200 adjustable)	11 - 17	± 0,2
B	Distance cutting edge crimp	2 min.	
C	Distance carrier tape cutting edge	4 min.	
D0	Ø transport hole	4	1)
d	Ø connecting wire	0,8 max.	
F	Distance connecting wire	25 max.	1)
P0	Distance transport hole	12,7; 15	1)
H	Distance transport hole component lower edge	18 min.	1)
H0	Distance transport hole crimp	15 min.	1)
H1	Distance transport hole component upper edge	40 max.	1)
t	Total thickness	2 max.	

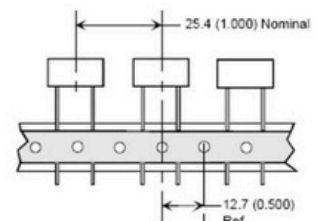
Radial Inserter

Dimensions are in millimeters;
inch equivalents are bracketed.

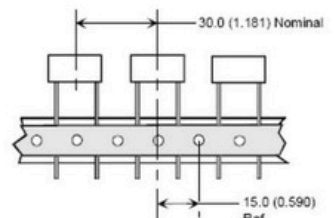
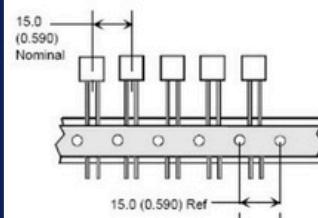
Single Pitch
Component Taping



Double Pitch
Component Taping

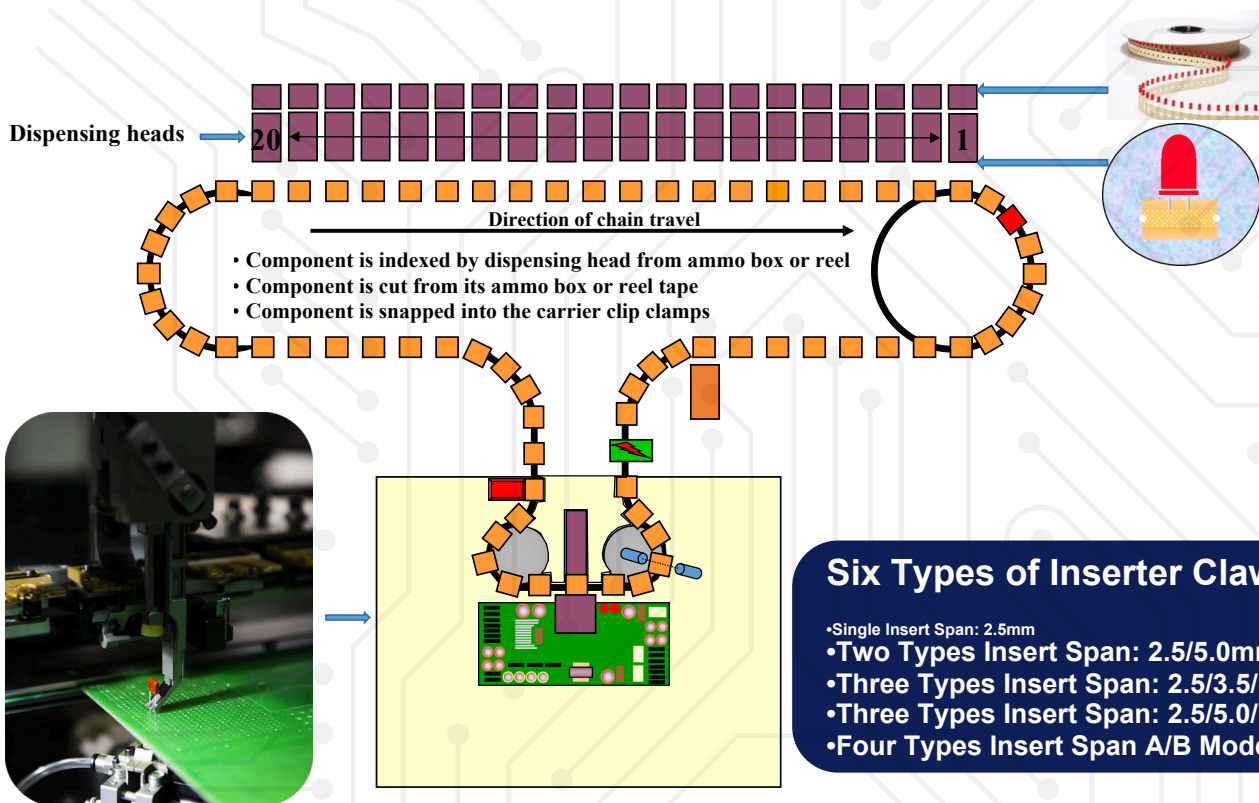


Component Spacing for 12.7 (0.500) Pitch Tape



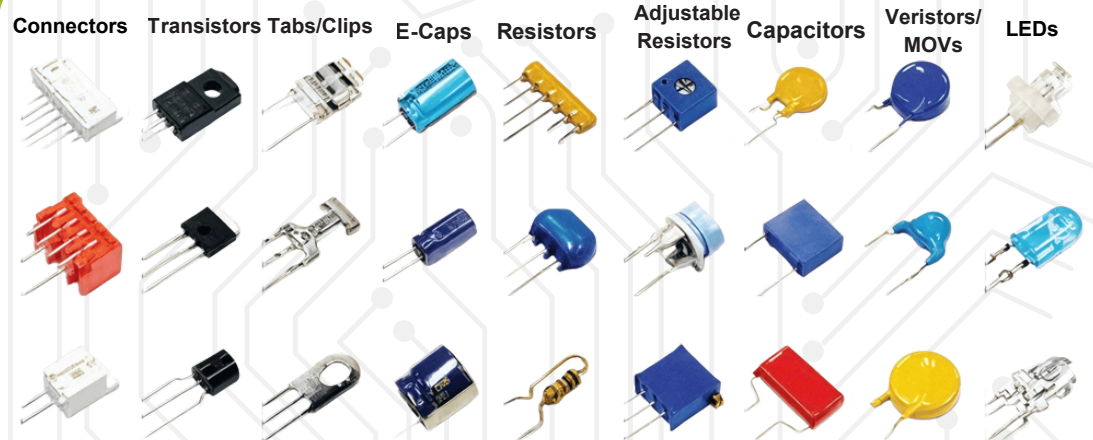
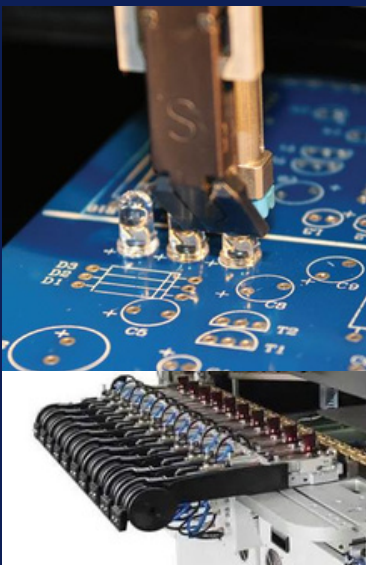
Component Spacing for 15.0 (0.590) Pitch Tape

Radial Process



Insert a Full Array of Radial Lead Components

Maximize efficiency, output and quality by eliminating manual insertion. Single, dual, triple and quad-span configurations will have you ready for your next product, and you can keep on running by replenishing components without a machine stoppage.



Insert a Full Array of Axial Lead Components and Jumper Wire Diameters

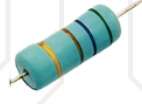
THIM3-A



Inductors



Resistors



Capacitors



Jumper Wire



Diodes



THIM3-R

Component Feeding

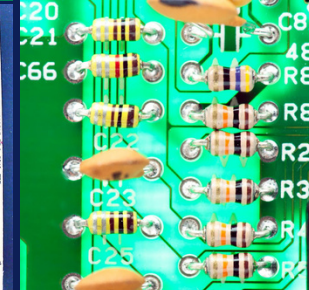
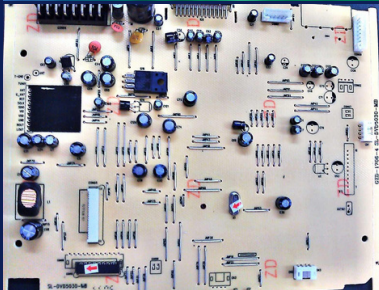
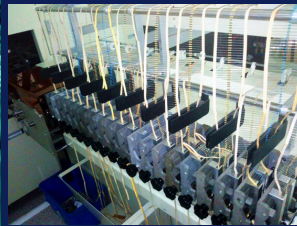
- Sequencer feeds components to machine from reels, ammo packs or jumper wire spools.
- Enables component replenishment without machine stoppage.

Expandable Sequencer

- Expandable from 10 stations up to 100 stations in 10-station increments.
- Reduces changeover time for multiple products.
- Supports changing production demands.

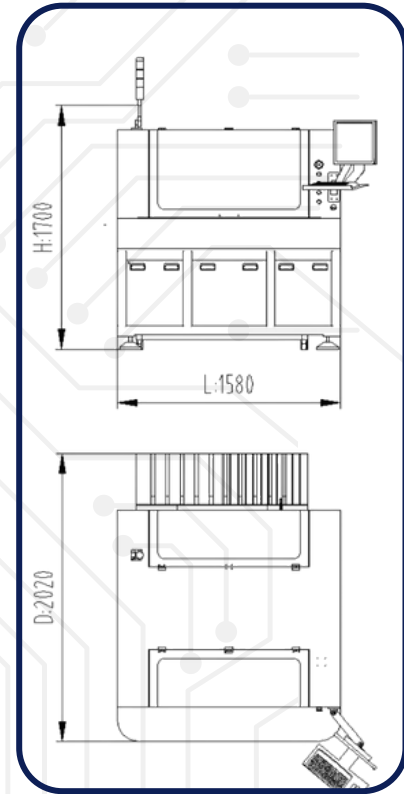
Radial Head Tooling Options

- Any application, field reconfigurable.
- High-density 5.0mm supports tighter spans.
- High-reliability 7.62mm supports wide range of spans.



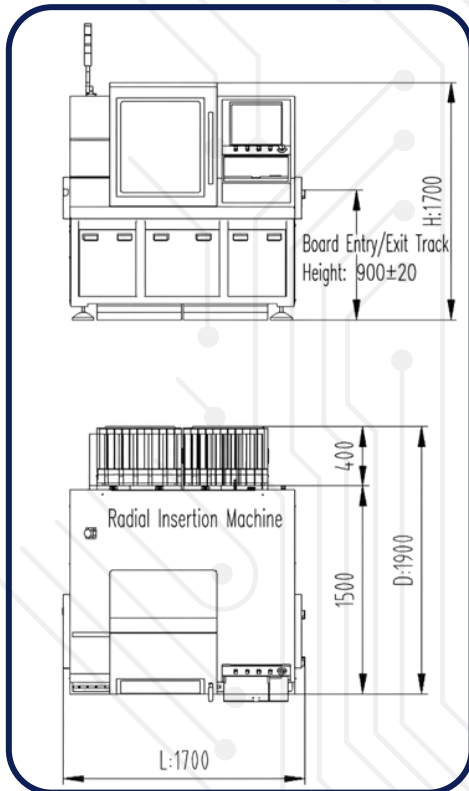
Equipment Dimension Diagram

NO.	Specification Name	Specification Description
1	Actual Insertion Speed	14,000 points/hour
2	Insertion Direction	Any angle
3	Pin Span	2.5/5.0mm (7.5/10.0mm optional)
4	Board Size (Loading)	Min. 50×50mm, Max. 500×500mm
5	Board Size (Insertion Range)	Min. 50×50mm, Max. 500×500mm
6	Board Thickness	0.79–2.36mm
7	Component Specification	Max. height 20mm, max. diameter 13mm
8	Feeder Quantity	10
9	Feeder CTA Drive	Lead screw
10	Base Drive	Pneumatic cylinder (motor drive optional)
11	Insertion Bending Length	1.2/1.5/1.8mm (adjustable)
12	Insertion Bending Angle	10°–35° outward bending
13	Board Transfer Direction	Left to right or right to left
14	Machine Dimensions	Main unit: L1580×D2020×H1700mm
15	Machine Weight	Approx. 800kg
16	Power Supply	Single-phase AC 220V 50/60Hz
17	Power Consumption	2.0kW
18	Air Pressure	0.6MPa
19	Air Flow Rate	0.38 m³/min
20	Environmental Conditions	Ambient temperature 5–30°C
21	Noise Level	75dB
22	Hole Alignment Method	Machine vision system
23	Control System	Custom bus-based multi-axis controller
24	Servo System	Custom bus-based AC servo system
25	Data Input Method	USB input (Excel file format)
26	Operating System	Chinese operating interface (Windows 7 control platform)
27	Control Mode	Fully automatic, semi-automatic, manual
28	Programming Mode	Online programming



PCB needs to be placed manually

Equipment Dimension Diagram

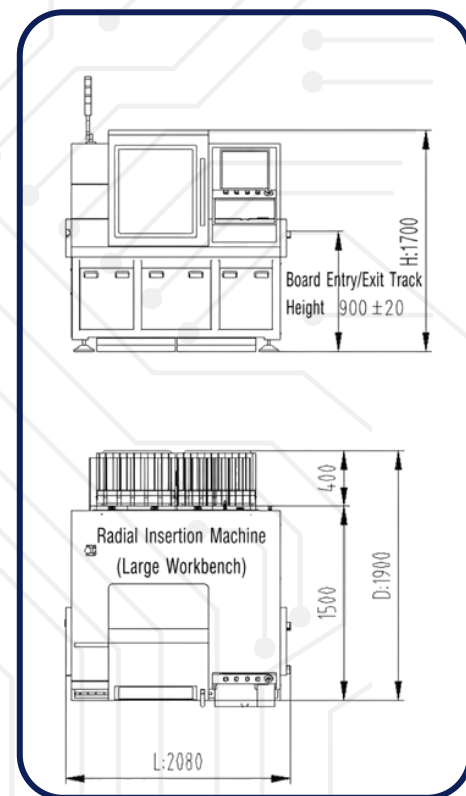


Can be used with board loading/unloading machines

NO.	Specification Name	Specification Description
1	Actual Insertion Speed	15,000 points/hour
2	Insertion Direction	Any angle
3	Pin Span	2.5/5.0mm (7.5/10.0mm optional)
4	Board Size (Loading)	Min. 50×50mm, Max. 400×300mm
5	Board Size (Insertion Range)	Min. 50×50mm, Max. 330×300mm
6	Dual-Camera Insertion Range	Min. 50×50mm, Max. 400×300mm
7	Board Thickness	0.79–2.36mm
8	Component Specification	Max. height 20mm, max. diameter 13mm
9	Feeder Quantity	10
10	Feeder CTA Drive	Lead screw
11	Base Drive	Pneumatic cylinder (motor drive optional)
12	Insertion Bending Length	1.2/1.5/1.8mm (adjustable)
13	Insertion Bending Angle	10°–35° outward bending
14	Board Transfer Direction	Left to right or right to left
15	Machine Dimensions	Main unit: L1700×D1900×H1700mm
16	Machine Weight	Approx. 800kg
17	Power Supply	Single-phase AC 220V 50/60Hz
18	Power Consumption	2.0kW
19	Air Pressure	0.6MPa
20	Air Flow Rate	0.38 m³/min
21	Environmental Conditions	Ambient temperature 5–30°C
22	Noise Level	75dB
23	Hole Alignment Method	Machine vision system
24	Control System	Custom bus-based multi-axis controller
25	Servo System	Custom bus-based AC servo system
26	Data Input Method	USB input (Excel file format)
27	Operating System	Chinese operating interface (Windows 7 control platform)
28	Control Mode	Fully automatic, semi-automatic, manual
29	Programming Mode	Online programming

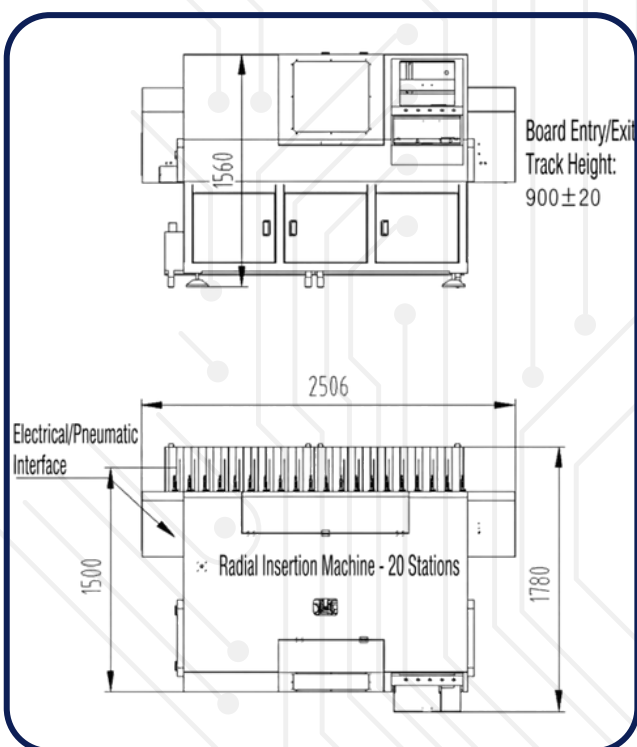
Equipment Dimension Diagram

NO.	Specification Name	Specification Description
1	Actual Insertion Speed	15,000 points/hour
2	Insertion Direction	Any angle
3	Pin Span	2.5/5.0mm (7.5/10.0mm optional)
4	Board Size (Loading)	Min. 50×50mm, Max. 500×500mm
5	Board Size (Insertion Range)	Min. 50×50mm, Max. 500×500mm
6	Board Thickness	0.79–2.36mm
7	Component Specification	Max. height 20mm Max. diameter 13mm
8	Feeder Quantity	14
9	Feeder CTA Drive	Lead screw
10	Base Drive	Pneumatic cylinder (motor drive optional)
11	Insertion Bending Length	1.2/1.5/1.8mm (adjustable)
12	Insertion Bending Angle	10°–35° outward bending
13	Board Transfer Direction	Left to right or right to left
14	Machine Dimensions	Main unit: L2080×D1900×H1700mm
15	Machine Weight	Approx. 950kg
16	Power Supply	Single-phase AC 220V 50/60Hz
17	Power Consumption	2.0kW
18	Air Pressure	0.6MPa
19	Air Flow Rate	0.38 m³/min
20	Environmental Conditions	Ambient temperature 5–30°C
21	Noise Level	75dB
22	Hole Alignment Method	Machine vision system
23	Control System	Custom bus-based multi-axis controller
24	Servo System	Custom bus-based AC servo system
25	Data Input Method	USB input (Excel file format)
26	Operating System	Chinese operating interface (Windows 7 control platform)
27	Control Mode	Fully automatic, semi-automatic, manual
28	Programming Mode	Online programming



Can be used with board loading/unloading machine

Equipment Dimension Diagram

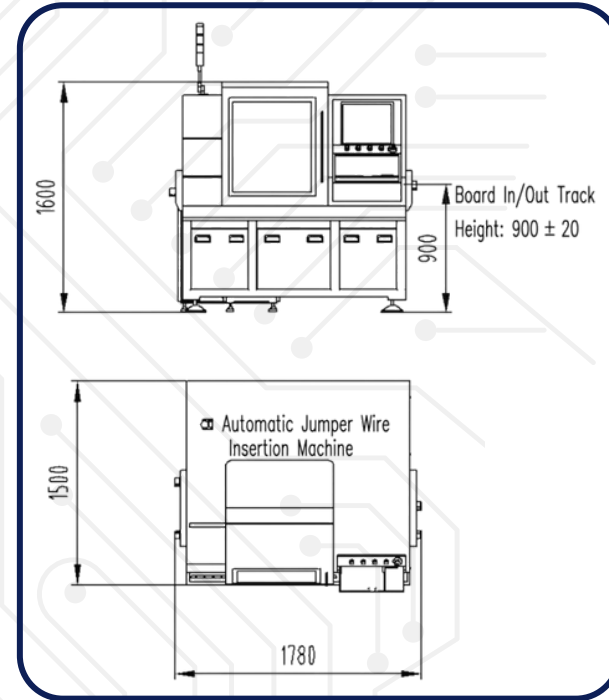


Can be used with board loading/unloading machines

NO.	Specification Name	Specification Description
1	Actual Insertion Speed	15,000 points/hour
2	Insertion Direction	Any angle
3	Pin Span	2.5/5.0mm (7.5/10.0mm optional)
4	Board Size (Loading)	Min. 50×50mm, Max. 500×300mm
5	Board Size (Insertion Range)	Min. 50×50mm, Max. 500×300mm
6	Board Thickness	0.79–2.36mm
7	Component Specification	Max. height 20mm Max. diameter 13mm
8	Feeder Quantity	20
9	Feeder CTA Drive	Lead screw
10	Base Drive	Pneumatic cylinder (motor drive optional)
11	Insertion Bending Length	1.2/1.5/1.8mm (adjustable)
12	Insertion Bending Angle	10°–35° outward bending
13	Board Transfer Direction	Left to right or right to left
14	Machine Dimensions	Main unit: L2506×D1500×H1700mm
15	Machine Weight	Approx. 950kg
16	Power Supply	Single-phase AC 220V 50/60Hz
17	Power Consumption	2.0kW
18	Air Pressure	0.6MPa
19	Air Flow Rate	0.38 m³/min
20	Environmental Conditions	Ambient temperature 5–30°C
21	Noise Level	75dB
22	Hole Alignment Method	Machine vision system
23	Control System	Custom bus-based multi-axis controller
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25	Data Input Method	USB input (Excel file format)
26	Operating System	Chinese operating interface (Windows 7 control platform)
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28	Programming Mode	Online programming

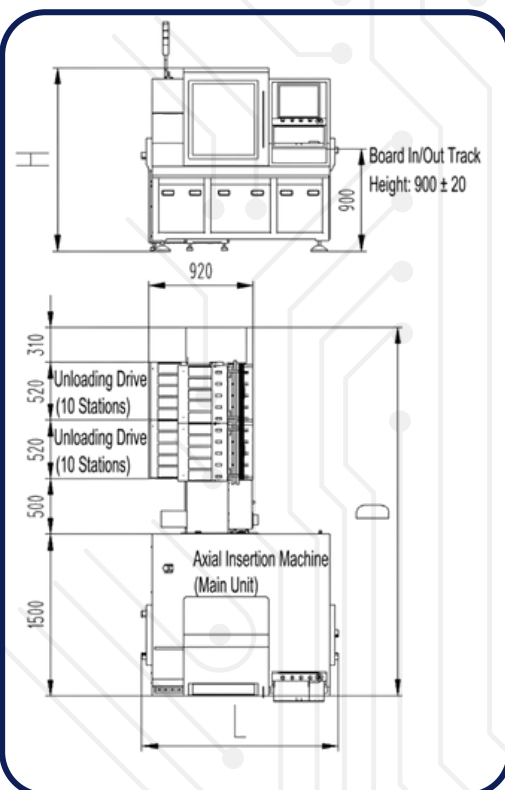
Equipment Dimension Diagram

NO.	Specification Name	Specification Description
1	Actual Insertion Speed	22,000 points/hour
2	Insertion Direction	Any angle
3	Pin Span	6.0–22.0mm (5.0–22.0mm optional)
4	Board Size (Loading)	Min. 50×50mm, Max. 400×280mm
5	Board Size (Insertion Range)	Min. 50×50mm, Max. 330×280mm
6	Board Thickness	0.79–2.36mm
7	Component Specification	0.6mm jumper wire (0.8mm optional)
8	Feeder Quantity	1–2 sets (left and right combination)
9	Base Drive	Motor drive
10	Lead Bending Length	1.2/1.5/1.8mm (adjustable)
11	Lead Bending Angle	10°–35° inward bending
12	Board Transfer Direction	Left to right or right to left
13	Machine Dimensions	Main unit: L1780×D1500×H1600mm
14	Machine Weight	Approx. 800kg
15	Power Supply	Single-phase AC 220V 50/60Hz
16	Power Consumption	2.0kW
17	Air Pressure	0.6MPa
18	Air Flow Rate	0.1 m³/min
19	Environmental Conditions	Ambient temperature 5–30°C
20	Noise Level	75dB
21	Hole Alignment Method	Machine vision system
22	Control System	Custom bus-based multi-axis controller
23	Servo System	Custom bus-based AC servo system
24	Data Input Method	USB input (Excel file format)
25	Operating System	Chinese operating interface (Windows 7 control platform)
26	Control Mode	Fully automatic, semi-automatic, manual
27	Programming Mode	Online programming



Can be used with board loading/unloading machines

Equipment Dimension Diagram:

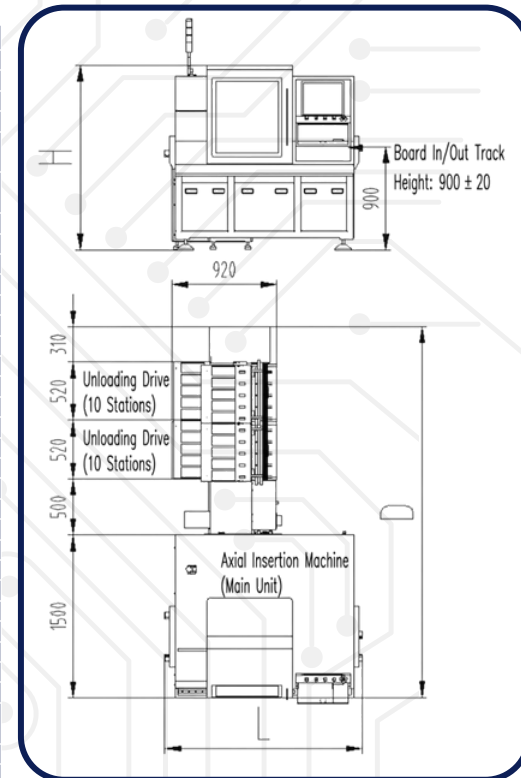


Can be used with board loading/unloading machines

NO.	Specification Name	Specification Description
1	Actual Insertion Speed	19,000 points/hour
2	Insertion Direction	Any angle
3	Pin Span	6.0–22.0mm (5.0–22.0mm optional)
4	Board Size (Loading)	Min. 50×50mm, Max. 275×400mm
5	Board Size (Single-Camera Insertion Range)	Min. 50×50mm, Max. 275×280mm
6	Board Size (Dual-Camera Insertion Range)	Min. 50×50mm, Max. 275×330mm
7	Board Thickness	0.79–2.36mm
8	Component Specification	0.6mm jumper wire 1/8W–2W (0.8mm jumper wire optional)
9	Feeder Quantity	10, 20, 30, 40 stations optional
10	Base Drive	Motor drive
11	Lead Bending Length	1.2/1.5/1.8mm (adjustable)
12	Lead Bending Angle	10°–35° inward bending
13	Board Transfer Direction	Left to right or right to left
14	Machine Footprint Dimensions (L×D×H)	10-station: L1780×D2830×H1600mm
		20-station: L1780×D3350×H1600mm
		30-station: L1780×D3870×H1600mm
		40-station: L1780×D4390×H1600mm
15	Machine Weight	Approx. 800kg
16	Power Supply	Single-phase AC 220V 50/60Hz
17	Power Consumption	2.0kW
18	Air Pressure	0.6MPa
19	Air Flow Rate	0.1 m³/min
20	Environmental Conditions	Ambient temperature 5–30°C
21	Noise Level	75dB
22	Hole Alignment Method	Machine vision system
23	Control System	Custom bus-based multi-axis controller
24	Servo System	Custom bus-based AC servo system
25	Data Input Method	USB input (Excel file format)
26	Operating System	Chinese operating interface (Windows 7 control platform)
27	Control Mode	Fully automatic, semi-automatic, manual
28	Programming Mode	Online programming

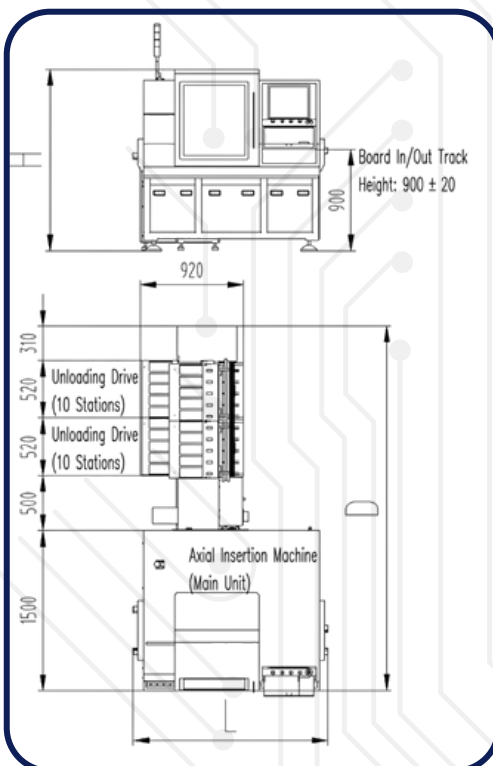
Equipment Dimension Diagram

NO.	Specification Name	Specification Description
1	Actual Insertion Speed	19,000 points/hour
2	Insertion Direction	Any angle
3	Pin Span	5.0 - 22.0 mm (jumper: 5mm - 25mm)
4	Board Size (Loading)	Min. 50×50mm, Max. 400×275 mm
5	Board Size (Single-Camera Insertion Range)	Min. 50×50mm, Max. 275×280mm
6	Board Size (Dual-Camera Insertion Range)	Min. 50×50mm, Max. 380×275 mm
7	Board Thickness	0.79–2.36mm
8	Component Specification	1/8 W - 2 W
9	Jumper Station <1> Specification	0.5 - 0.6 mm jumper
10	Jumper Station <2> Specification	0.7 - 0.8 mm jumper
11	Number of Feeders	10, 20, 30, 40 stations (optional)
12	Base Drive	Motor drive
13	Lead Bending Length	1.2 / 1.5 / 1.8 mm (adjustable)
14	Lead Bending Angle	10 - 35 degrees inward bend
15	Board Transfer Direction	Left to right or right to left
16	Machine Footprint Dimensions (L×D×H)	10 stations: L1780 x D2830 x H1600 mm 20 stations: L1780 x D3350 x H1600 mm 30 stations: L1780 x D3870 x H1600 mm 40 stations: L1780 x D4390 x H1600 mm
17	Machine Weight	Approx. 800kg
18	Power Supply	Single-phase AC 220V 50/60Hz
19	Power Consumption	2.0kW
20	Air Pressure	0.6MPa
21	Air Flow Rate	0.1 m³/min
22	Environmental Conditions	Ambient temperature 5–30°C
23	Noise Level	75dB
24	Hole Alignment Method	Machine vision system
25	Control System	Custom bus-based multi-axis controller
26	Servo System	Custom bus-based AC servo system
27	Data Input Method	USB input (Excel file format)
28	Operating System	Chinese operating interface (Windows 7 control platform)
29	Control Mode	Fully automatic, semi-automatic, manual
30	Programming Mode	Online programming



Can be used with board loading/unloading machines

Equipment Dimension Diagram



Can be used with board loading/unloading machines

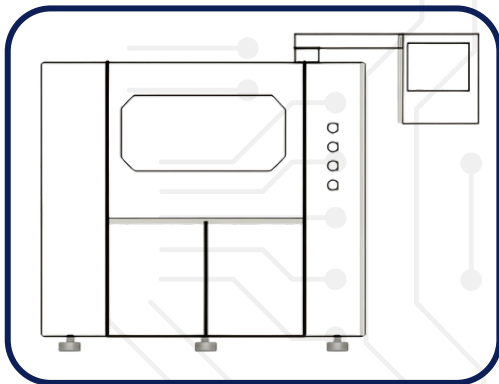
NO.	Specification Name	Specification Description
1	Actual Insertion Speed	19,000 points/hour
2	Insertion Direction	Any angle
3	Pin Span	5.0–22.0mm (jumper wire: 5.0–25.0mm)
4	Board Size (Loading)	Min. 50×50mm, Max. 500×280mm
5	Board Size (Insertion Range)	Min. 50×50mm, Max. 500×280mm
6	Board Thickness	0.79–2.36mm
7	Component Specification	0.6mm jumper wire 1/8W–2W (0.8mm jumper wire optional)
8	Feeder Quantity	10, 20, 30, 40 stations optional
9	Base Drive	Motor drive
10	Lead Bending Length	1.2 / 1.5 / 1.8 mm (adjustable)
11	Lead Bending Angle	10°–35° inward bending
12	Board Transfer Direction	Left to right or right to left
13	Machine Footprint Dimensions (L×D×H)	10-station: L2130×D2830×H1600mm 20-station: L2130×D3350×H1600mm 30-station: L2130×D3870×H1600mm 40-station: L2130×D4390×H1600mm
14	Machine Weight	Approx. 950kg
15	Power Supply	Single-phase AC 220V 50/60Hz
16	Power Consumption	2.0kW
17	Air Pressure	0.6MPa
18	Air Flow Rate	0.1 m³/min
19	Environmental Conditions	Ambient temperature 5–30°C
20	Noise Level	75dB
21	Hole Alignment Method	Machine vision system
22	Control System	Custom bus-based multi-axis controller
23	Servo System	Custom bus-based AC servo system
24	Data Input Method	USB input (Excel file format)
25	Operating System	Chinese operating interface (Windows 7 control platform)
26	Control Mode	Fully automatic, semi-automatic, manual
27	Programming Mode	Online programming

Feature

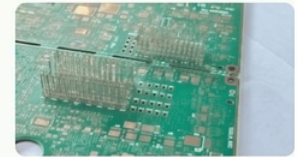
- Marble frame ensures the perpendicularity, flatness, parallelism and accuracy.
- Stable X and Y axis driven by servo motor.
- CAM structure ensures high productivity and repetitive precision.
- Real-time insertion force monitoring achieves high-quality production with vision data
- Automatically PCB lane width adjustment.
- Automatically PCB thickness detection.
- Connection with MES by QR code recognition.

Product Description

The machine is used to automatically cut the rolled metal pins into a single pin before they are accurately inserted onto the PCB driven by cam mechanism with servo motor. During the process, position is corrected by camera first, and insertion status is monitored in real-time, including insertion force, insertion depth etc. Monitoring, programming, automatic analysis and easy operation make stable and automatic production.



Application



Technical Data

PCB Size Max	Max:350*350mm
PCB Direction	L-R:R-L
PCB Support	Anvil
Platform Speed	70M/Min
Pin Direction	Standard: 0-90°; Option: Specified Angle
Insertion Speed	140-220Pcs/Min
Communication	RS485/RS232
PCB Exchange Time	4S
Feeding Type	Rolling
Insertion Head	1-3
Hole Position Recognition	CCD High-definition Industrial Camera Vision System
Control System	Industrial computer+display screen Windows system
Machine Dimension	L2310* W1560* H1740(mm)
Repetition Accuracy	±0.01mm
Machine Frame	Marble
Weight	1800KG
Air Pressure	0.55±0.05MPa
Power Consumption	2000W
Supply Voltage	AC220V 60Hz
Operating Temperature	5-40°C
Operating Humidity	10-90%RH
Environment Requirement	Non-corrosive Gas



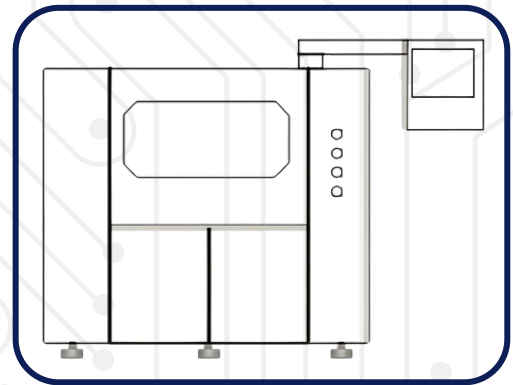
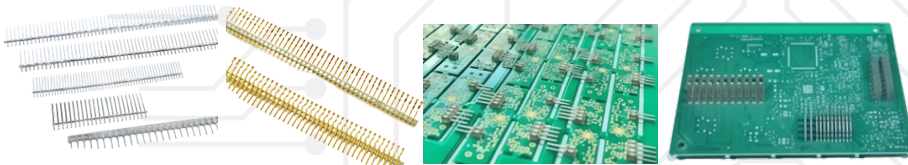
Feature

- Marble frame ensures the perpendicularity, flatness, parallelism and accuracy.
- CAM structure ensures high productivity and repetitive precision.
- Real-time insertion force monitoring is available to achieve high-quality production.
- Multi-angle DD motor with 0.01 degree increments provides flexible production.
- Connection with MES by QR code recognition

Product Description

Machine is used to automatically cut the rolled metal pins into single pins before they are accurately inserted onto the PCB driven by cam mechanism with servo motor. PCB platform is rotated and run by X&Y axis. Marble frame, servo motor and cam mechanism ensure high insertion accuracy. Also, with complete detection and monitoring, makes easy operation and production.

Application



Technical Data

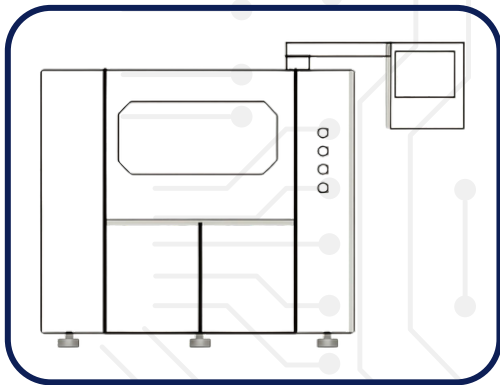
PCB Size Max	Max:350*245mm
PCB Direction	L-R:R-L
PCB Support	PCB Mold
Platform Speed	70M/Min
Pin Direction	360°Free Rotation
Insertion Speed	140-220Pcs/Min
Communication	RS485/RS232
PCB Exchange Time	6S
Feeding Type	Rolling
Insertion Head	1-3
Hole Position Recognition	CCD High-definition Industrial Camera Vision
Control System	System Industrial computer+display screen
Machine Dimension	Windows system L2300* W1400* H1700(mm)
Repetition Accuracy Machine	±0.01mm
Frame	Marble
Weight	About 1700KG
Air Pressure	0.55±0.05MPa
Power Consumption Supply	1500W
Voltage	AC220V 60Hz
Operating Temperature	5-40°C
Operating Humidity	10-90%RH
Environment Requirement	Non-corrosive Gas

Feature

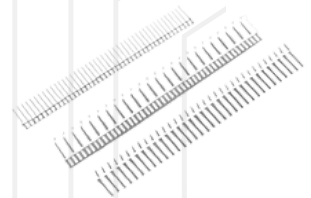
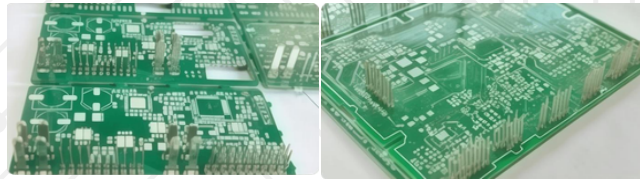
- Marble frame ensures the perpendicularity, flatness, parallelism and accuracy.
- Stable X and Y axis driven by servo motor.
- CAM structure ensures high productivity and repetitive precision.
- Connection with MES by QR code recognition.
- Real-time insertion force monitoring is available to achieve high-quality production.

Product Description

The machine is used to automatically cut the rolled metal pins into a single pin before they are accurately inserted onto the PCB driven by cam mechanism with servo motor. During the process, position is corrected by camera first, and insertion status is monitored in real-time, including insertion force, insertion depth etc. Monitoring, programming, automatic analysis and easy operation make stable and automatic production.



Application



Technical Data

PCB Size Max	Max:350*350mm
PCB Direction	L-R:R-L
PCB Support	Anvil
Platform Speed	70M/Min
Pin Direction	Standard: 0-90°; Option: Specified Angle 140-
Insertion Speed	220Pcs/Min
Communication	RS485/RS232
PCB Exchange Time	6S
Feeding Type	Rolling
Insertion Head	1-3
Hole Position Recognition	CCD High-definition Industrial Camera Vision
Control System	System Industrial computer+display screen
Machine Dimension	Windows system L2310* W1560* H1740(mm)
Repetition Accuracy	±0.01mm
Machine Frame	Marble
Weight	1800KG
Air Pressure	0.55±0.05MPa
Power Consumption Supply	2000W
Voltage	AC220V 60Hz
Operating Temperature	5-40°C
Operating Humidity	10-90%RH
Environment Requirement	Non-corrosive Gas



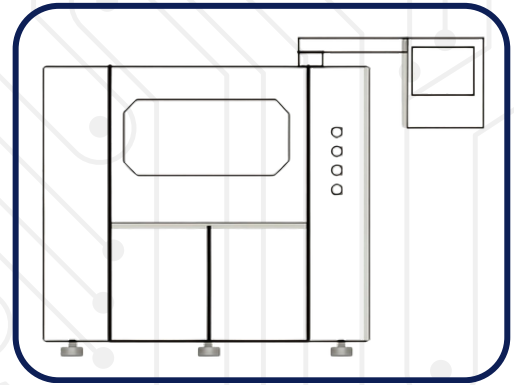
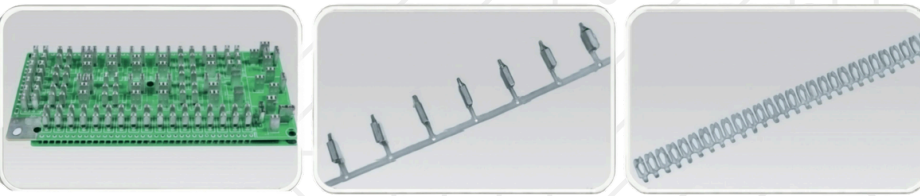
Feature

- CAM structure ensures high productivity and repetitive precision.
- Stable X and Y axis driven by servo motor.
- Connection with MES by QR code recognition is available.
- Real-time insertion force monitoring is available to achieve high-quality production.
- Connection with MES by QR code recognition.

Product Description

The machine is used to automatically cutting terminals of automotive fuse into a single piece before it is inserted onto PCB driven by cam mechanism with servo motor. A certain strength is connected between terminals and PCB. Monitoring, programming, automatic analysis and easy operation makes stable and automatic production.

Application

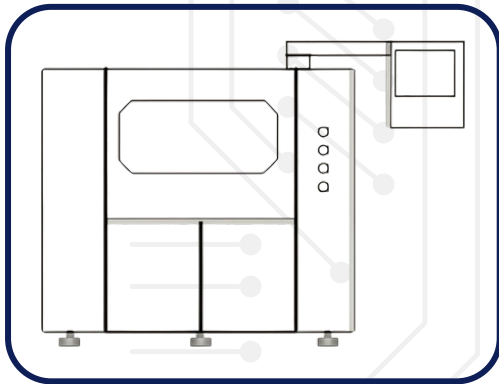


Technical Data

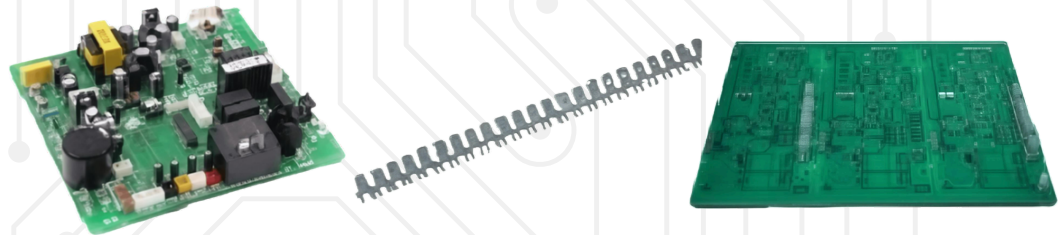
PCB Size Max	Max:350*245mm
PCB Direction	L-R:R-L
PCB Support	PCB Mold
Platform Speed	70M/Min
Pin Direction	360°Free Rotation
Insertion Speed	140-220Pcs/Min
Communication	RS485/RS232
PCB Exchange Time Feeding	6S
Type	Rolling
Insertion Head	1-3
Hole Position Recognition	CCD High-definition Industrial Camera Vision
Control System	System Industrial computer+display screen
Machine Dimension	Windows system L2070* W1250* H1600(mm)
Repetition Accuracy Machine	±0.018mm
Frame	Steel Structure
Weight	About 1200KG
Air Pressure	0.55±0.05MPa
Power Consumption Supply	1500W
Voltage	AC220V 60Hz
Operating Temperature	5-40°C
Operating Humidity	10-90%RH
Environment Requirement	Non-corrosive Gas

Product Description

Machine is used to automatically cut the rolled metal pins into single pins before they are accurately inserted onto the PCB by insertion head on the platform made up by X&Y axis. Steel structure, Monitoring, programming, automatic analysis and easy operation makes stable and automatic production



Application



Technical Data

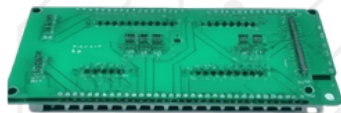
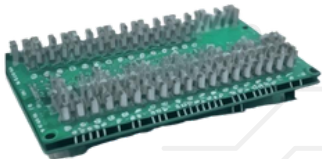
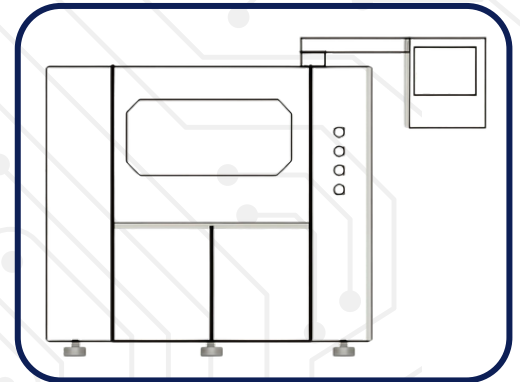
PCB Size Max	Max:450*350mm
PCB Direction	L-R:R-L
PCB Support	Anvil
Platform Speed	70M/Min
Pin Direction	Free Rotation Between 0-90°
Insertion Speed	0.5S/PC
Communication	RS485/RS232
PCB Exchange Time	6S
Feeding Type	Rolling
Insertion Head	1-2
Hole Position Recognition	CCD High-definition Industrial Camera Vision
Control System	System Industrial computer+display screen
Machine Dimension	Windows system L2100* W1250* H1600(mm)
Repetition Accuracy	±0.018mm
Machine Frame	Steel Structure
Weight	About 1200KG
Air Pressure	0.55±0.05MPa
Power Consumption Supply	1500W
Voltage	AC220V 60Hz
Operating Temperature	5-40°C
Operating Humidity	10-90%RH
Environment Requirement	Non-corrosive Gas



Product Description

Machine is used to automatically cut the rolled metal pins into single pins before they are accurately inserted onto the PCB by insertion head on the platform made up by X&Y axis. Steel structure, Monitoring, programming, automatic analysis and easy operation makes stable and automatic production.

Application

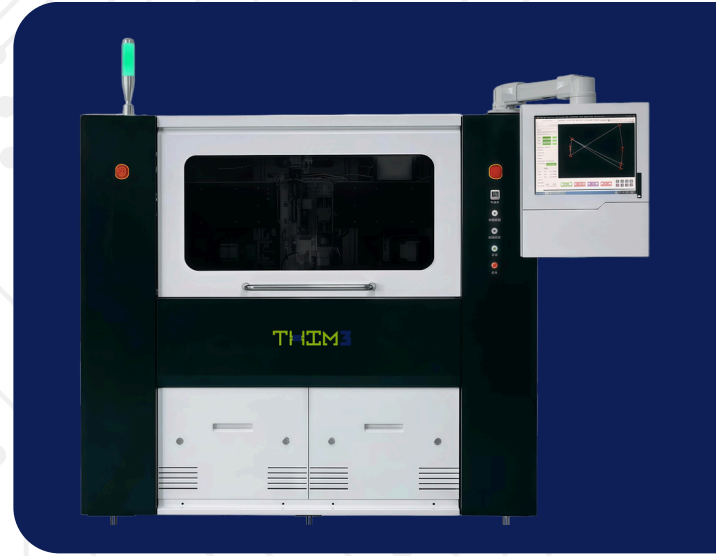


Technical Data

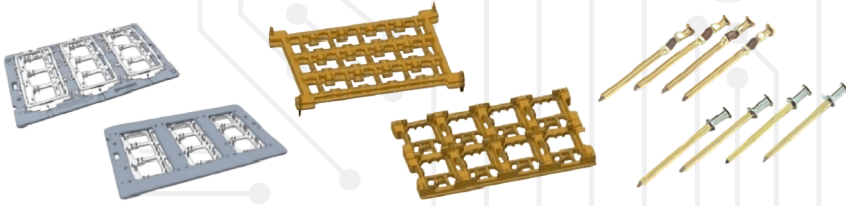
PCB Size Max	50*50-300*250mm
PCB Direction	Offline
Platform Speed	70M/Min
Pin Direction	90° incremental
Insertion Speed	0.4S/PC
Communication	RS485/RS232
PCB Exchange Time	Manual installation
Feeding Type	Bulk Material
Insertion Head	1
Hole Position Recognition	CCD High-definition Industrial Camera Vision System
Control System	Industrial computer+display screen Windows system
Machine Dimension	L2070* W1250* H1600(mm) X-axix:±0.018;Y-axix:
Repetition Accuracy	±0.018
Machine Frame	Steel Structure
Weight	About 1200KG
Air Pressure	0.55±0.05MPa
Power Consumption	1500W
Supply Voltage	AC220V 60Hz
Operating Temperature	5-40°C
Operating Humidity	10-90%RH
Environment Requirement	Non-corrosive Gas

Product Description

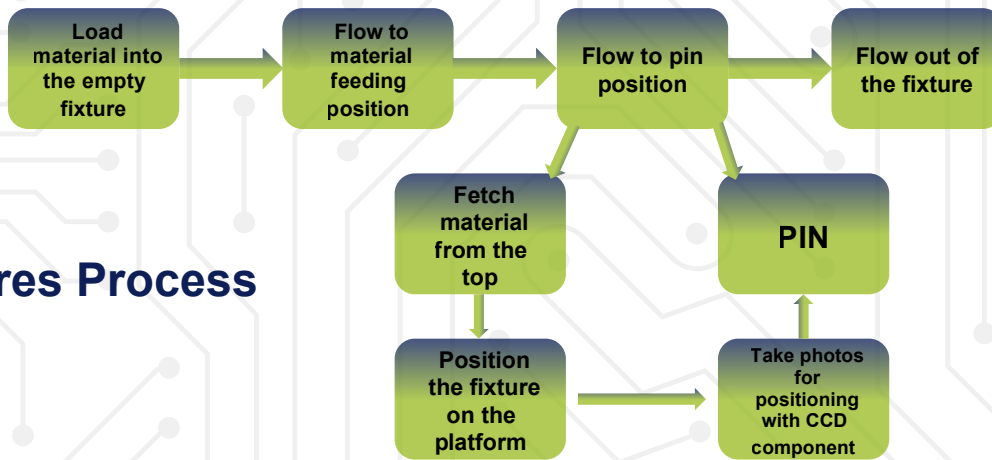
- 8sets vision systems ensure the final quality of incoming material,motion control and insertion.
- Marble frame with linearmotor,up toμm grade accuracy.
- Applied forintergrated-link pins on IGBT,mainly forautomobile,communication,new-energy industry and aerospace.
- User-friendly,simple interface and MES system link.



Application



Features Process



Technical Data

Applicable Size Offixture	Customization
Production Rhythm	0.7S/PC
Accuracy of Repetition	±0.01mm
Communication	RS485/RS232/SECS/GEM
Power Consumption	220V Single-phase/2KW
Machine Dimension	L2100* W1350* H1700(mm)
Weight	2200KG
Operating Temperature	5-40°C
Operating Humidity	10-90%RH
Environment Requirement	Non-corrosive Gas



Product Description

The equipment is applicable to the chain-packed square shaped or pressfit pin of power module based on SiC/Si in communication, aerospace, automobile, new-energy industry.

(Rapid and stable production with low material consumption and high cost-performance).

The machine inserts the pins into the specified hole of the DBC with high accuracy and efficiency after cutting the chain-packed pin by cam system driven by the servo motor. After calibrating pcb by vision system, the machine can monitor real time inserting status including inserting force, position etc during inserting pin. The machine can realize production intelligently with the reliable system and the function of monitoring, programming, diagnosing and operation.

Feature

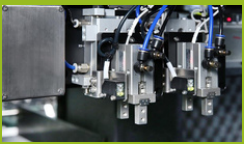
- 2D&3D visions ensure accuracy of pin position and perpendicularity
- Insertion force monitoring provides real-time feedback & bottom vision for position precision
- 360° free rotation for platform with 0.01° increments
- Integrated frame design with linear motor reaches up to μm grade precision and efficiency
- Magazine mode feeding for DBC loading and unloading in semicon industry
- Connection with MES by QR code recognition



Vacuum adsorption, clamping and positioning device



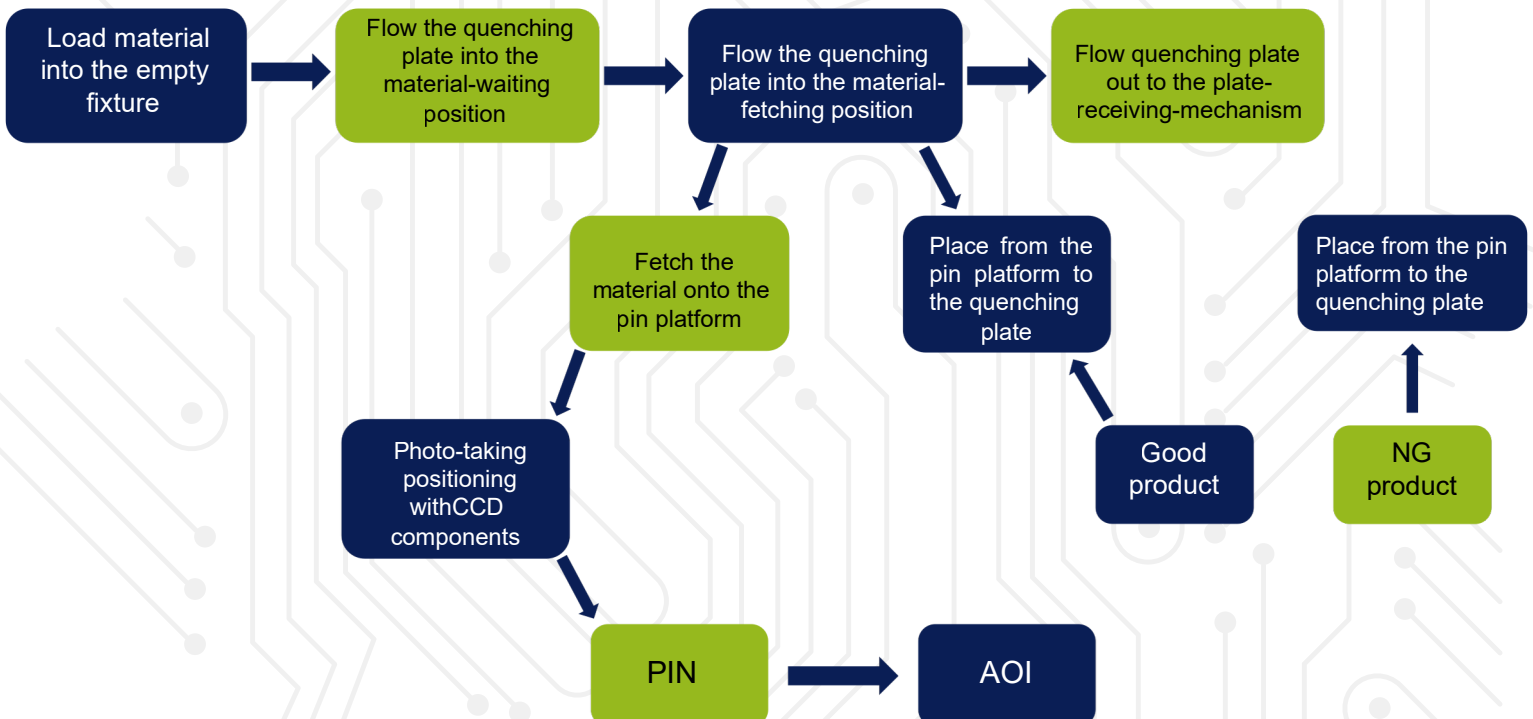
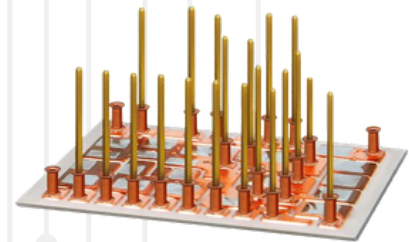
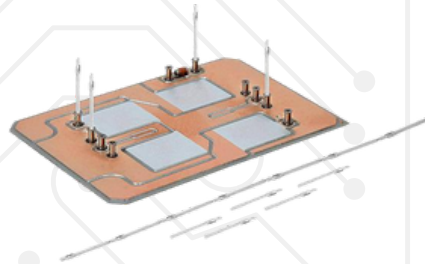
The imported sensor monitors the insertion force curve in real time and stores it, and the pressure can be traced later.



DBC handling mechanism exchanges the DBC in the quenching plate and the DBC on the pin platform.



Loading and unloading mechanism realizes online operation.



Technical Data

THIM3-P

Applicable DBC Dimension	Customization
Insertion Speed	0.5S-2S/PC
Insertion Angle	Free rotation for 360 degrees
Repetition Accuracy	±0.01mm
Communication	RS485/RS232/SECS/GEM
Power Consumption	220V Single-phase/2KW
Machine Dimension	L2100* W1250* H1700(mm) Materialfeeding rack not included
Weight	2200KG
Operating Temperature	5-40°C
Operating Humidity	10-90%RH
Environment Requirement	Non-corrosive Gas

Introduction Of Whole Line Assembly Of Fuse Box



Feature

- Fully automated production line,minimal human input required.
- Modular design enables easy installation and maintenance.
- Workstation data storable and MES-connectable.
- One-touch program switch:main unit selects product,other devices auto-adapt.
- Broad compatibility:switch carriers for different products.
- Customizable option for different requirements.
- Compatible with diverse fuse sizes,quick changeover for clamp.

Product Description

As an automatic assembly production line for automotive fuse box, intelligent fuse boxes,and BCMboxes,Machine is used for the automatic assembly and production of fuse boxes,intelligent fuse boxes,and BCM boxes,The whole line adopts compatible vehicle positioning and double speed line transmission,and modular docking ofassembly processdevice to achieve automatic production of the entire line.The wire body is mainly composed of the folowing processes,including:automatic liking and oweringof the vehiclaautomatic screw locking,automatic laserengraving,automatic product turnover,automaticinsertion of fuse strips automatic insertion ofrelays,FCT,AOI,and vehicle reflow

Application



Technical Data



Basic Overview	Equipment FunctionDescription	Achievefullyautomated assembly and production of automotive fuse boxes/BCM boxes
	Product ApplicationRange	Automotive fuse box/BCM box
	Overall Dimensions	Approx. L1600×W2600×H1600
	Equipment Power Supply Voltage	AC220V 50Hz
	Equipment Total Power	Subject to Equipment Quantity
	Gas Pressure	0.5–0.6 MPa
	Pickup Time	Configurable
	Equipment Dimensions	Approx. W1000×D1350×H1700
Screw Fastening Machine	Equipment Pitch	35S/12PCS
	Electrical Type	Servo Motor, Torque/Stroke/Time/Sensor Information Monitoring and Output
	Feeding Method	Pneumatic Cylinder Feeding
	Product Range	Suitable for All Automotive fuse box/BCM box
	Mold Stationing Precision	±0.05
	Positioning Method	High-Resolution Visual Positioning System
	Product Positioning Method	Four-Side Clamp Status + Down-Press Status
	Mold Operating Range	X-Axis: 450mm Y-Axis: 300mm Z-Axis: 150mm
	Equipment Power	1.5KW
	Equipment Weight	560KG
	Communication Method	RS485/Network Port/SMEMA
	Equipment Dimensions	Approx. W1400×D1000×H1700
Automatic Laser Engraving and Flipping	Equipment Pitch	10S
	Marking Range	250mm×400mm
	Flipping Range	Product Width 100mm–270mm
	Control Method	Marking: PC Host + Laser Controller; Flipping: PLC
	Equipment Power	1KW
	Equipment Weight	350KG
	Communication Method	RS485/Network Port/SMEMA
	Equipment Dimensions	Approx. W1200×D2600×H1600 (Including Feeder)

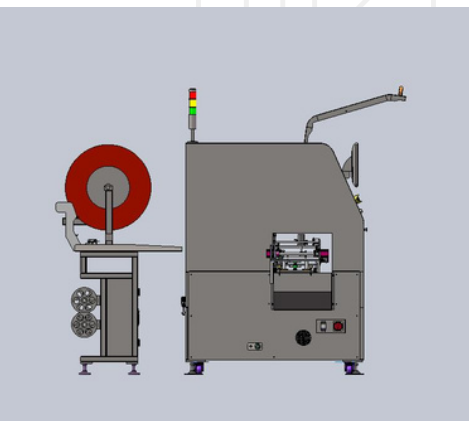
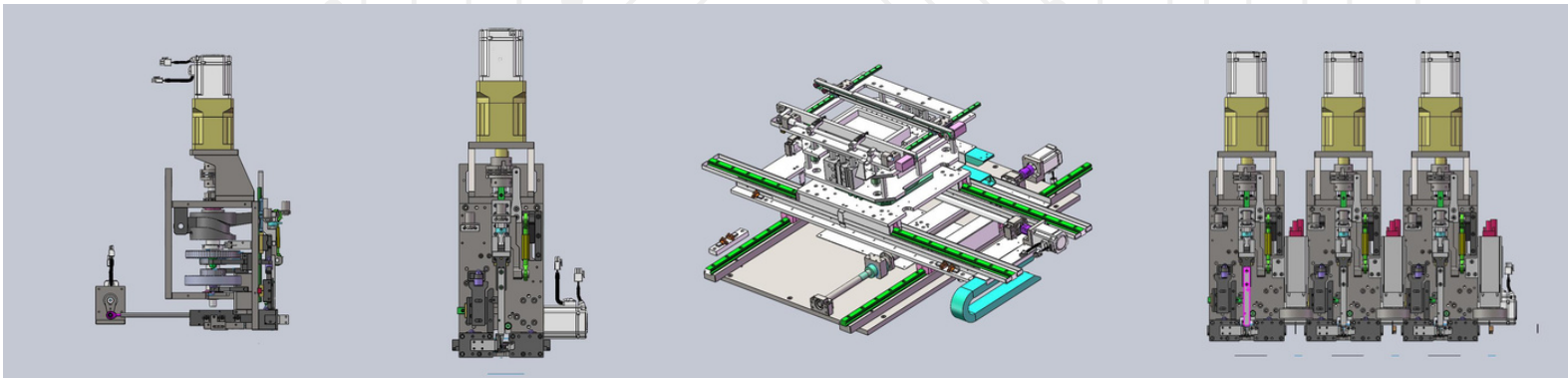
Technical Data

Automatic Insertion of Fuses and Relays	Equipment Dimensions	Approx.W1200×D2600×H1600 (Including Feeder)
	Equipment Pitch	Fuse: 0.8S/PC; Relay: 3S/PC
	Fuse Feeding Method	6-Vibration Plate Feeding, Feed 6 Materials Simultaneously, Compatible with Small Fuses
	Relay Feeding Method	8-Tube Feeding for 8 Materials
	Product Positioning Method	Customized According to Product
	Equipment Power	2KW
	Insertion Range	270mm×400mm
	Compatible Range	Fully Compatible with Fuses and Relays
	Equipment Weight	1700KG (Insertion Machine: 964KG; Feeder: 736KG)
	Communication Method	RS485/Network Port/SMEMA
FCT	Equipment Dimensions	Approx. W800×D1200×H1600
	Equipment Pitch	128 Points / 35S
	Test Function	On/Off, Short Circuit, Resistance, Voltage
	Test Points	128 Points, Each with I/O Function, Expandable
	Data Processing	Report Generation / Report Printing
	Equipment Power	1KW
	Equipment Weight	350KG
	Communication Method	RS485/Network Port/SMEMA
AOI	Equipment Dimensions	Approx. W800×D1000×H1600
	Equipment Pitch	15S
	Detection Function	Fuse Character/Color; Relay Screen Print/Number
	Defect Handling	Display Defective Information, Provide Operator Processing
	Equipment Power	800W
	Equipment Weight	300KG
	Communication Method	RS485/Network Port/SMEMA

Technical Data

THIM3-P

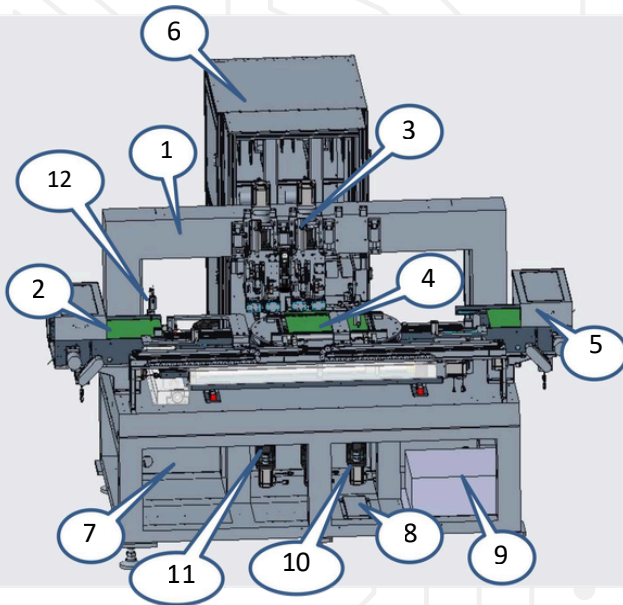
Reciprocating Conveyance Line Body and Lifting Transfer Machine	Line Body Conveyance Height	900±20
	Line Body Transmission Power	1.2KW
	Transfer Machine Power	800W
	Line Body Conveyance Speed	350mm/s
	Equipment Weight	800KG
Equipment Supporting Components Information	Product Carrier Dimensions	Approx. L400×W270×H75
	Product Carrier Material	6061-T5 POM 45
	Product Carrier Capacity	1PCS
	Product Carrier Weight	4.2KG
	Product Carrier Compatibility	One Carrier for One Product
Key Standard Components	Standard Motor	LaiAoHaoDe / LHD
	Servo Motor / Driver	Panasonic
	Ball Screw Linear Guide	HIWIN / TBI
	Pneumatic Components	AirTAC / SMC / FESTO
	Central Control Unit	ADLINK
	Touch Screen	MCGS
	PLC / Expansion	XINJE
	Sensors	Panasonic / OMRON / Huayi Feng
	Switching Power Supply	MEAN WELL
	Electrical Components	Schneider / CHINT / MISUMI / YHDA
	Other	Per Customer Requirements



Equipment Introduction:

This equipment is designed to automatically cut various metal terminals from reel packaging into individual terminal pieces, and insert them accurately and efficiently into PCB boards through a cam-driven mechanism powered by a servo system. The terminals maintain a specified connection strength with the PCB. The system is reliable, with comprehensive monitoring, programming, diagnostic, and operation functions, enabling intelligent production.

- 1.CCD captures insertion hole positions — fast and efficient
- 2.Can be equipped with fully automatic board loader/unloader for inline production
- 3.High-definition CCD industrial camera automatically calibrates insertion hole positions
- 4.Cam-driven mechanism ensures high speed, high efficiency, and stability



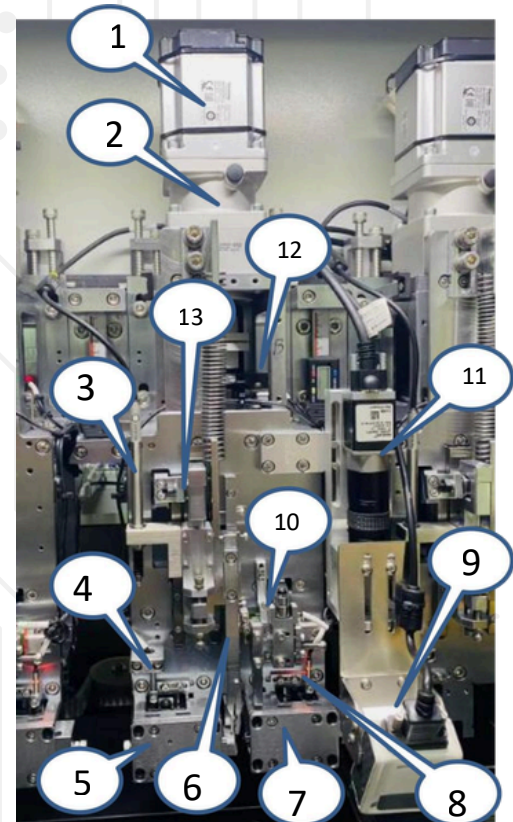
- ① Marble Integrated Frame — Ensures verticality, flatness, parallelism, and overall precision of the machine structure
- ② PCB Inlet Mechanism with Auto-Width Adjustment — Automatically adjusts rail width to accommodate different PCB sizes
- ③ Insertion Head Mechanism — Internal cam-driven structure for high-speed, high-precision pin insertion
- ④ XY Platform — Servo motor + ball screw drive, highly efficient and stable, with repeatability accuracy of $\pm 0.01\text{mm}$
- ⑤ PCB Outlet Mechanism with Auto-Width Adjustment — Automatically adjusts rail width at the outlet side
- ⑥ Reel Pin Feeding Mechanism — Feeds pin terminals from reel packaging
- ⑦ Electrical Control Box — Houses I/O modules, servo drivers, and other electrical components
- ⑧ CPU Power Supply UPS — Uninterruptible power supply for the control system, preventing data loss during power outages
- ⑨ Industrial PC Host — Main control computer running the operating system
- ⑩ Servo-Driven Ejector Pin Mechanism — Supports the PCB from below to reduce stress (approx. $200\mu\text{m/m}$)
- ⑪ Pressure Sensor — Real-time pressure monitoring to ensure high-quality production
- ⑫ PCB Thickness Measurement — Measures actual PCB thickness and compensates insertion depth accordingly

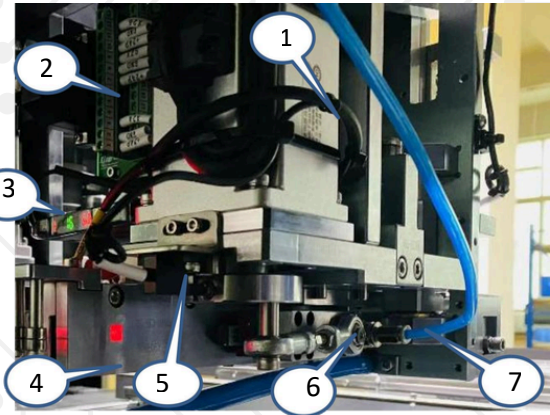
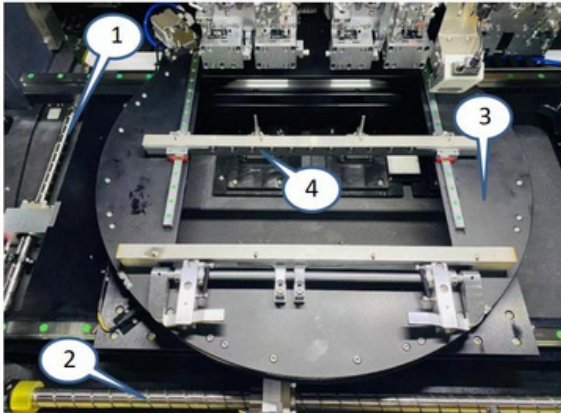
- ① Main Shaft Servo Motor
- ② Reducer
- ③ Insertion Depth Detection
- ④ Left Cutter Safety Detection
- ⑤ Left Cutter Mechanism
- ⑥ Insertion Collet
- ⑦ Right Cutter Mechanism
- ⑧ Right Cutter Safety Detection
- ⑨ PCB Barcode Scanner
- ⑩ Collet Opening Mechanism
- ⑪ PCB Hole Positioning CCD
- ⑫ Head Spindle Home Position
- ⑬ Insertion Mechanism

The head mechanism is driven by a servo motor with a cam, ensuring stable, efficient, and highly consistent performance.

Head Operation Sequence:

1. Servo motor feeds the material
2. Insertion collet grips the terminal
3. Left and right cutters cut the material
4. Left and right cutters retract to safe positions, with all detection signals confirmed normal
5. Collet inserts downward
6. Insertion signal detected (depth and pressure values)
7. Head rises and returns to home position





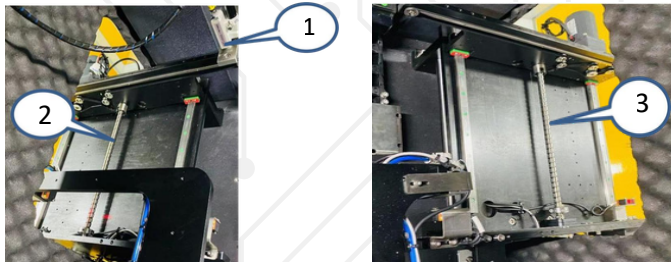
Driven by a servo motor rotating the turntable, insertion angles at 0°, 90°, 180°, 270°. XY axis adopts servo motor with ball screw, positioning accuracy 0.01mm.

- ① Y-axis Ball Screw
- ② X-axis Ball Screw
- ③ Rotary Table (rotates the PCB)
- ④ Ejector Pin Mechanism

Feeding Mechanism: Driven by a servo motor through a connecting rod, which pushes the feeding slider, and then a ratchet pawl performs reciprocating feeding. Pneumatic retract mechanism effectively prevents material scratches.

- ① Feeding Servo Motor
- ② Head I/O Control Module
- ③ Material Presence Fiber Sensor
- ④ Material Guide Channel
- ⑤ Feeding Home Position
- ⑥ Feeding Mechanism
- ⑦ Pneumatic Retract Mechanism

Automatic track width adjustment- Optional feature



The PCB feeding/unloading mechanism uses a motor to transport the PCB. A servo motor automatically adjusts the PCB width, and the track width is automatically adjusted when the program is called. A PCB thickness measurement system is installed on the feeding side:

- ① PCB thickness measurement
- ② Feeding mechanism width adjustment motor
- ③ Unloading mechanism width adjustment motor

Depth Monitoring — Optional (Keyence / opt



1. The device is equipped with a pin insertion depth sensor, which, in conjunction with pressure monitoring, monitors the pin insertion status in real time to ensure good pin quality

Insertion Force Monitoring — Optional (Kistler, Switzerland)

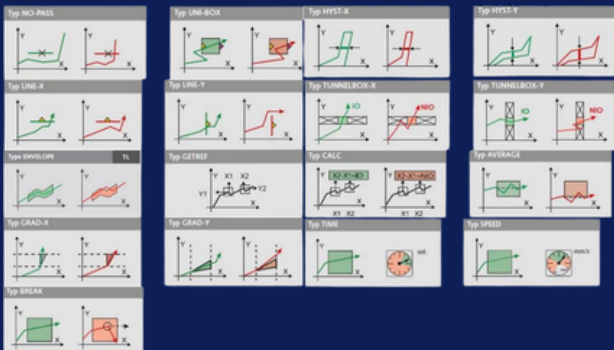
Monitor and Sensor



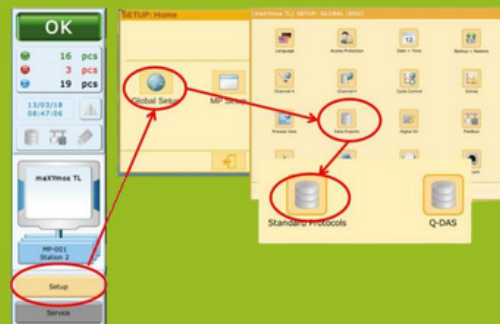
Main Interface



Supports various curve measurement methods



Diversified pressure data storage methods



THIM3-ODD FORM

FEATURE



off-line Programming

Plug-in programming software can be installed on any computer outside for programming.



Data Sharing

The program data of the machine and the production data (PCB size, component data, coordinates, etc.) can be shared to other device calls.



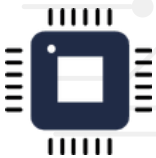
Intelligent Calibration of Precision

The equipment can improve the accuracy through a variety of precision algorithms and intelligent correction of error of production data analysis equipment.



$1.0 \leq CPK \leq 1.67$

Through the standard CPK program, the accuracy proof process, the CPK test result are between 1.0 and 1.67.



Multiple Algorithm For Identification Of Odd Form Components

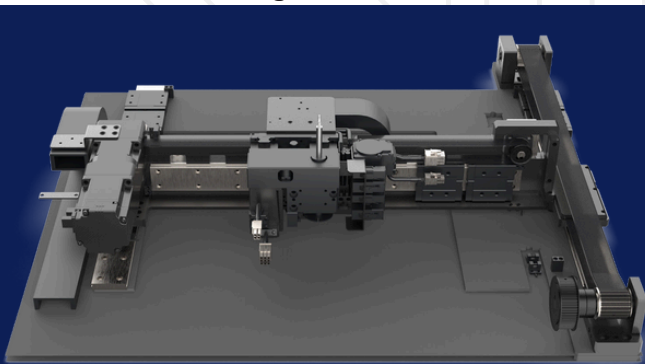
The results of corrective analysis through multiple recognition components.

■ Increase insertion rate by 5 %

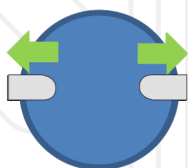
■ Reduction of production losses by 5 %

OPTIONS FEATURE

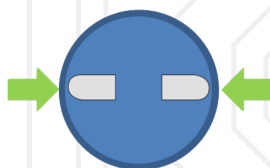
Lead Clinching Unit



Note: some models can be equipped with components lead bent to realize automatic bent lead after component plug-in, so as to prevent the floating phenomenon during component welding; The lead diameter of the bent foot shall be less than 1.0mm, and the length of the leaking lead shall be not less than 2mm (the specific size shall be subject to the final design)



Outward bend



Inner bend



Circular (no direction, angle)



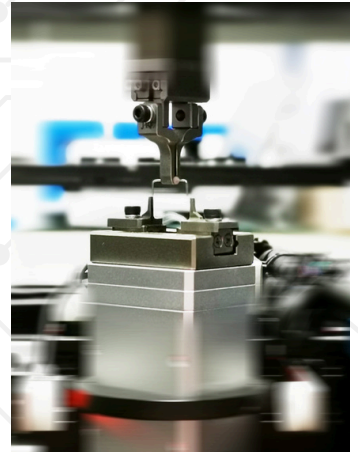
2 Turns (with specified angle)

As shown in the figure, there are 4 types of outward bending, inner bending, circular bending and 2 turns bending.

Some models are applicable. Please confirm with the local sales representative before purchasing.

THIM3 - ODD FORM

Specification		Model	
Size(LXWXH)		M435	E640
Including keyboard and light size		1400 X1700 X2000mm	1450 X1740 X2010mm
Weight		1650 kg	1650 kg
Operation System		Windows	
No. Of Door		Single Side Double size(Optional)	Double Side
Safety Grating (Door)		Standard Configuration	
Air Supply		0.5-0.65 MPa (ANR)	
Max Power		5.4 KW	6.3 KW
Run Power		3.3 KW	3.3 KW
No. of Insertion Heads		4	6
Max Component Size		φ50 (35×35) mm	φ50 (35×35)mm
Component Height		≤35mm	≤40mm
Component Feeding Type		Nozzle / Clamp	
Speed /Speed/PC		0.7 S	0.7 S
Placement Accuracy CPK≥1.0		± 0.06m m	± 0.06mm
Insert Power		≤98N	≤29.4N
Pressure control module		Option	/
Insertion Direction		0-360	
Insert Component Object		Connector,Switch,Socket Transformer Coils,Ports,Capacitors,Resistors,IC,Etc	
PCB Size (LxW)		70×70 ~ 410×500 mm	70×70 ~ 410×550 mm
Carrier Size (LxW)		Max 410×500mm	Max 410×550mm
PCB thickness		0.6-2.0 mm	
Conveyor Space (Upper/Lower)		35 mm / 20 mm	40 mm / 20 mm
Max. PCB Weight		5 Kg	2 Kg
PCB included side width		≥5mm	
PCB Fixed Type		Sero / Cylinderclamping	Cylinder clamping
Conveyor Type		Chain	
PCB Direction		R to L / L to R	
Conveyor Section		3	
Conveyor Adjusting		Auto 900	
Conveyor Height		± 20mm	
Lead Clinching Unit		Option	/
Laser Height		Option	/
Auto Nozzle		Option	/
SMEMA		Standard Configuration	
MES	MES Connection	Standard Configuration	
Vision System	Mark CCD (Top)	1	
	Component CCD (Bottom)	4	3
Max Stations	201 Radial Tape Feeder	6	10
	218 Radial Tape Feeder		
	207 Radial Tape 90° Feeder		
	259 Radial Tape Feeder	12	20
	254 Radial Tape Feeder		
	202 Axial Tape Feeder	6	10
	222 Tube Feeder	12	20
	203Tube Feeder	6	10
	205 Bolw Feeder	4	8
	Tray Feeder	1	2
Remark If different types feeders mixed using, the num. of feeders are depended on combination.			

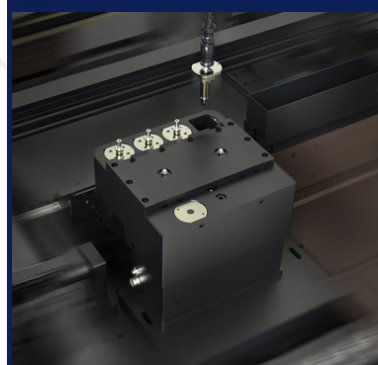


Laser Height Measuring Unit



Note: Optional laser height measuring unit, it's used for inserted component height detection.

AutoNozzleChanging Unit



Note: Optional nozzle changing unit, it automatically replace the corresponding nozzle according to different materials.

- * 1 Air should be atmospheric frost point: under -17 °C ,PowerParticles: under 5μm, The highest Oil content: under 5mg/m3 . In addition, it needs air when machines setup
- * 2 Changed by the using condition
- * 3 Depends on different components
- * 4 The standard machine is chain conveyor, but it can be customized as belt
- * 5 Lead clinching unit will replace the PCB supporting mechanism
- * 6 Only provided the original data format, the rest should be customized.

THIM3 - ODD FORM

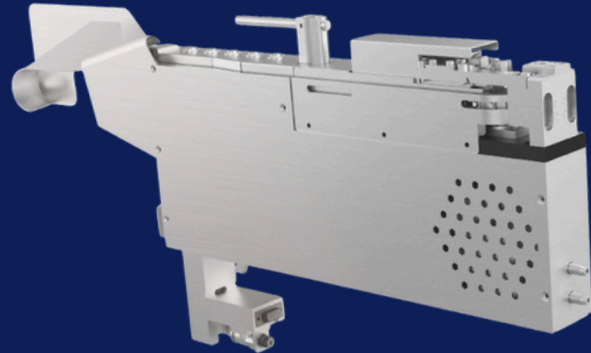
Wide range of applications
High feed speed
Efficient work
Low maintenance costs

Choose proper feeder according to its feeding system, it can be matched randomly. In 2000 year, we began to design and use of vibrating plate, straight shock, shear pin parts, parts forming, parts molding, tape feeding and cutting, we understand the characteristics of incoming parts, and is not standardized and controlled and resolved, blind insertion is not a problem.

B

259

Radial Tape Feeder



The 259 Radial Tape Feeder is specifically designed for vertical lead braiding materials. This feeder can be used on the SMT machine and AI machine. It is suitable for materials like capacitor and LEDs etc. Advantage of universality, fast speed, high efficiency and low maintenance cost. And also can customer made for different needs.



202

Axial Tape Feeder

A

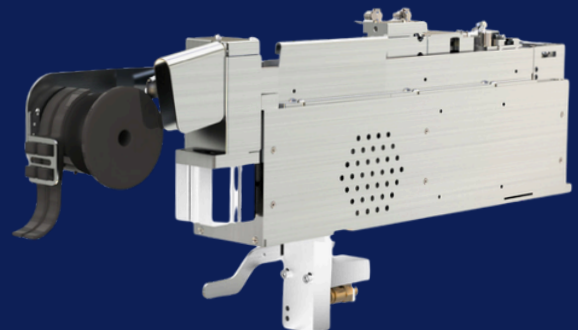
The 202 Axial Tape Feeder is specifically designed for horizontal lead braiding materials. This feeder can be used on the SMT machine and AI machine. It is suitable for materials like resistor, capacitor and fuse etc. Advantage of universality, fast speed, high efficiency and low maintenance cost. And also can customer made for different needs.

C

207

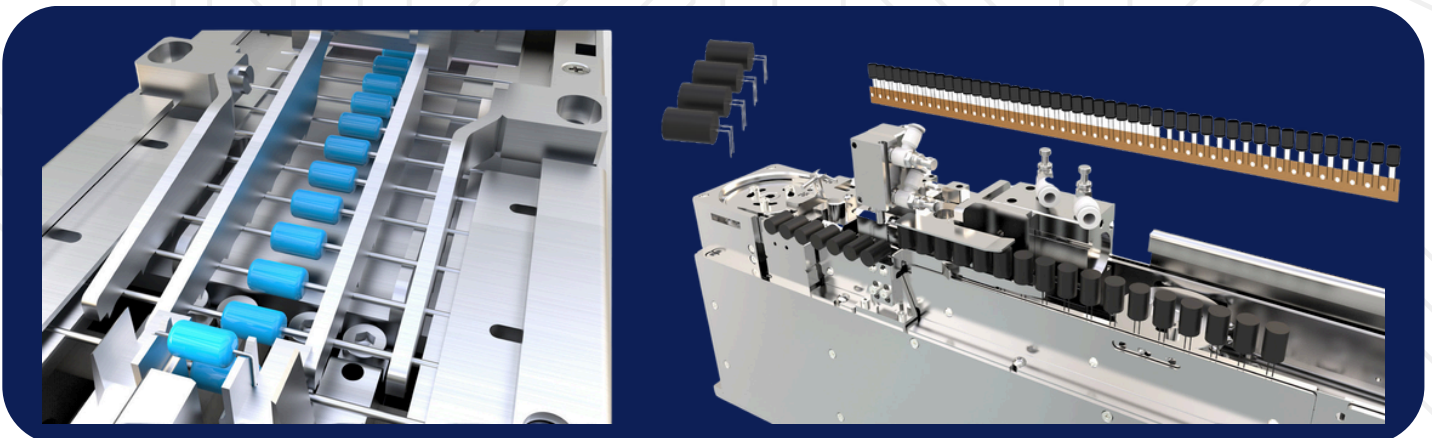
Radial Tape 90° Feeder

The 207 Radial Tape Feeder with 90 degree bending mechanism is specifically designed for vertical lead braiding materials which need bending 90 degree before insertion. This feeder can be used on the SMT machine and AI machine. It is suitable for materials like capacitor and LEDs etc. Advantage of universality, fast speed, high efficiency and low maintenance cost. And also can customer made for different needs.



THIM3-ODD FORM

Specification		Model					
		259 ¹	201	218	202	202K	207
	Delivery Model	Electric			Pneumatic	Electric	Electric
	Opening Time	0.8-1.5Sec/Pcs			1-1.5 Sec/Pcs		0.8-1.5 Sec/Pcs
	Incoming Material	Tape Material					
	Applicable Parts	Capcitanace、LED Etc			Resistors Fuses Etc		CapcitanaceLED Etc
	Tape Pich	12.7 mm	12.7mm	15mm	/		12.7 mm
	Tape Witch	/			Max 65mm (Oversized need to be customized)		/
	Pin Diameter	0.4 mm - 0.8 mm			0.5 mm - 1.2 mm		0.4 mm - 0.8 mm
	Applicable Pitch	2.5 mm - 22.5 mm			(Oversized need to be customized)		2.5-10 mm
	Foot Length Range	2.7 mm - 7 mm			2.5 mm - 6.5 mm		R+3.5 mm
	Weight	5.5 Kg	13.5 Kg	13.5 Kg	9.5Kg	17.2 Kg	15 Kg
	Pressure	0.5-0.65 MPa					
	Voltage	DC24V					
	Current	4A					
	Tprque	2N/M					
	Applicable Machine	For Any Brand Insertion Machines					
	Outline Dimension (LXWXH)	640X48X273mm	696X98X300mm		730X98X310mm	948X124X220mm	696X98X300mm
* 1 New design feeder (Model 259) width is 50 mm, cooperate with insert head span 50 mm, could use 4 heads to pick up together, pick up efficiency increases by 75%. * Different pitch and body Component, need to replace the die set.							

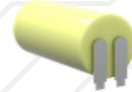


THIM3-ODD FORM

Efficient economy Security Stability Versatility



PCB small board



Super capacitance



Inductive coil

213A & 248B

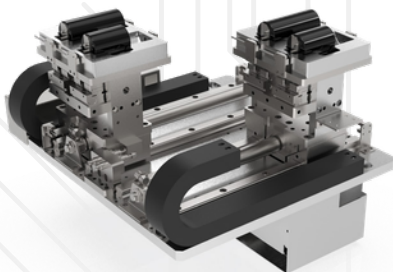
The 213A & 248B Tray Feeder is a specialized material supply device developed for pallet incoming material. This product is used on plug-in machines and is suitable for IC, transformer, coil and other materials. It has the characteristics of high efficiency, universality, high safety and high stability. We can be customized according to the different needs of customers.

248M & 248C

248M & 248C Tray Feeder is a feed device developed professionally for pallet incoming materials. This product can be used on the patch machine and plug-in machine. It is suitable for IC, transformer, coil and other materials, and has high economy and safety. High stability, strong versatility and other characteristics, according to the needs of customers, can be customized.

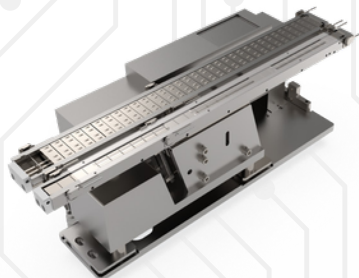


Tray material cache module



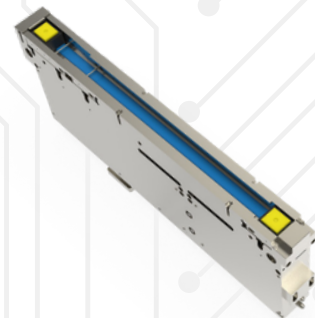
248B06

Alternate material cache



248B10

Vibration orbit



248B11

Belt orbit

THIM3-ODD FORM

Specification		Model			
		248B	213A	248C	248M
	Delivery Model	Pneumatic + Electric	Electric		
	Opening Time	1.2-1.8 Sec / Pcs	2-3 S	1.2-1.8 Sec / Pcs	1-1.5 Sec / Pcs
	Incoming Material	Tray Material			
	Applicable Parts	IC, Transformers, Coils,Network Interfaces, USB Etc.			
	Tray Size(Max) (L X W)	370 X 270mm	282 X 196mm	340 X 250mm	370 X 270mm
	Tray Weight (Gross Weight Per Tray)	Max 3.5 Kg	Max 2 Kg	Max 1.5 Kg	Max 3.5 Kg
	Interval Height	40 mm	25mm	280mm (Stack height)	42mm
	Number of Layers	20 Layers	/		14 Layers
	Pressure	0.5-0.65 MPa	No air supply	0.5-0.65 MPa	
	Voltage	AC220 V			
	Prower	1500 W	200 W	1500 W	1150 W
	Applicable Machine	For Any Brand Insertion Machines			
	Applicable Machine Height	900 mm / 750 mm		900 mm	900 mm
	Weight	460 Kg	45Kg	220kg	320Kg
	Outline Dimernsion (L X W X H)	700 X 910 X1600mm	900 X 380 X 285mm	540 X1060 X 1350mm	950 X 750 X 1650mm
* The above feeder should be used with the material orbit module (except 213A).					

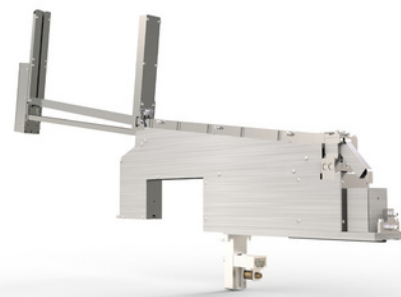
Tube Feeder For Mid-Size Material



203

The 203 Tube Feeder is a feeder designed specifically for pipe loading materials. This product can be used on patch machines and plug-in machines. It is suitable for capacitors, Transformers, relays, VGA and other materials. It has the characteristics of high versatility, fast feeding speed, high working efficiency, low maintenance cost, and can be customized according to the different needs of customers.

TubeFeederForSmall-SizeMaterial

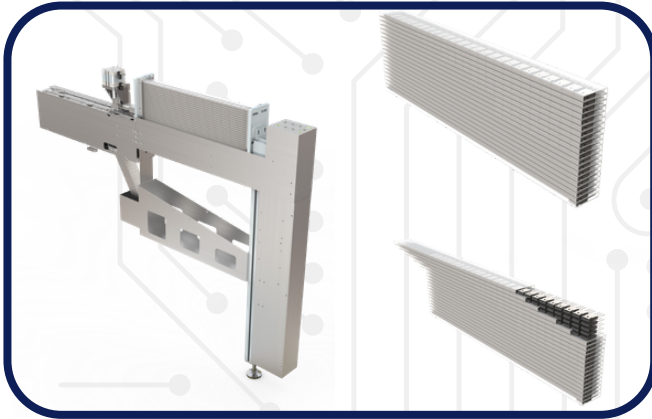


222

The 222 Tube Feeder is a feeder designed specifically for small tube loading materials. The product can be used on the patch machine and plug-in machine. It is suitable for IC, small crystals, etc. It has the characteristics of high versatility, fast feeding speed, high working efficiency, and low maintenance costs. It can additional configured lead cutting and pre-form function, and can be customized according to the customer's different needs.

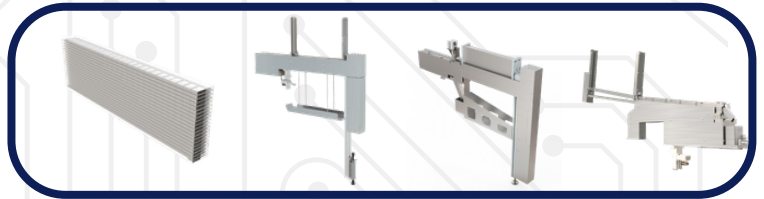
TH-IM3-ODD FORM

**Efficient economy Security
Stability Versatility**



Tube Feeder 203P

203P Tube feeder is specially designed for tube components, this product can be used in the SMT machine and insert machine, applicable to IGBT, transistor, bridge, IC and other components, optional bending forming, character recognition and other modules, with strong versatility, fast feeding speed, high work efficiency, low maintenance costs. And it can be customized according to different needs of customers.



Specification		Model		
		203	203P	222
	Delivery Mode	Electric		
	Opening Time	0.8-1.5 Sec/Pcs		0.8-1.5 Sec/Pcs
	Incoming Material	Tube		
	Applicable Parts	IC Relay Transformer More		
	Applicable Size	Max 30X30X30 mm	Max 45X20X10 mm	Max 30X30X30 mm
	Weight Capacity	Max 4 Kg	Max 6 Kg	Max 2 Kg
	Sliced Foot Type	Optional	Optional	/
	Displacement	Optional	Optional	Optional
	Tube Length	Max 520mm		
	Weight	28Kg	36 Kg	12 Kg
	Pressure	0.5-0.65 MPa		
	Voltage	DC24 V		
	Current	4A		
	Torque	2N/M		
	Applicable Machine	For Any Brand Insertion Machines		
	Outline Dimension(LXWXH)	1197 X 92 X 1217mm	1402 X 92 X 1217mm	1275 X 85 X 650mm
* If the component is oversize and the tube is over 520mm, it need customized.				

TH-IM3-ODD FORM

CONNECTOR, SWITCH, SOCKET TRANSFORMER
COILS, PORTS, CAPACITORS, ETC



Inductor



Safety capacitors



DC Plug



Crystal



Capacitor



Switch



TactSwitch



Connector



Audio Jack



Connector



Socket



Capacitor



VGA



IC



Socket



Connector



RJ45



Inductor



Connector



Relay



Capacitor



LED



Transformer



Bridge



Capacitor



Encoder



Shield Plate



Pin



RJ45



Audio Jack



USB



Terminal



Resistor



(MOS)
MosFET

TH-IM3-ODD FORM



IC



Capacitor



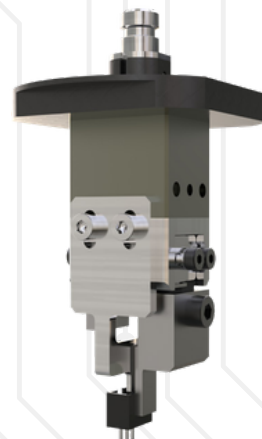
Capacitor



Transistor



Tact Switch



Connector



Terminal



Switch



VGA

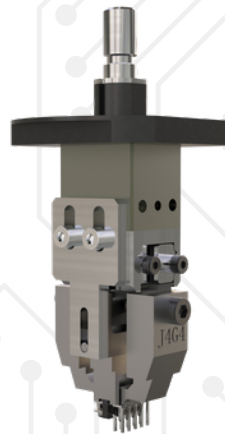
THIM3-ODD FORM



U shaped Resistor



U shaped Resistor



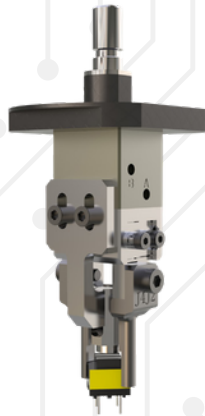
Pin



USB



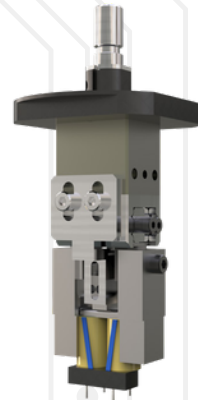
Capacitor



Inductor



Connector



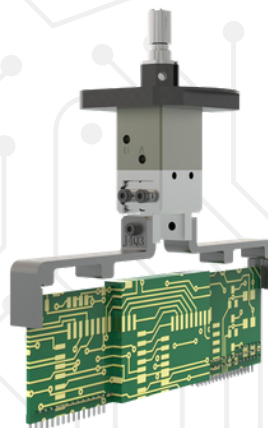
Coil



Transformer



Capacitor



Module



Coil

THIM3

CONTACT



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OUR WHATSAPP QR CODE



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