

THROUGH HOLE MACHINES

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Content

THIM3A Axial insertion machine2
THIM3R Radial insertion machine
THIM3P Pin insertion machine4
THIM3T Terminal Insertion machine5
THIM3C Connector insertion machine6
THIM3-OF3S Odd form insertion machine7
THIM3-TM Cutting, preforming and repacking machine

THIM3A: Axial insertion machine

The online axial insertion machine automatically inserts various axial components and jumper wire into the printed circuit board (PCB) according to the set program of different products, with corner fixing and detection functions, achieving high-speed, high-precision and highly stable insertion effects.

Machine Size: L1700 x W2320 x H1593 mm

Machine Weight: 1800 kg

Insertion Angle: 5.5 - 18mm or 5 - 25 mm

Component packaging method:

Components must be in tape.

Lead span: 5.0-20mm, jumper wire 5.0-25mm

Substrate Size: Minimum 100x100mm Maximum 330x300mm

Substrate thicknees: 0.79-2.36mm Component Lead Cutting:

1.2 – 2.2 mm

Power Supply: Single phase 220V/AC,50/60 HZ, 2KVA

Air Supply: 0.6-0.8 Mpa

Air Consumption: 0.2 m3/min

Hole position correction method: Machine vision system,

multi-point Mark vision correction

Driving system: AC servo, AC motor

Workbench operation mode: X, Y axis direction

Board Loading: Manual/Auto

Programming: Manual/Auto





2

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THIM3AO

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THIM3R: Radial insertion machine

In-line radial component insertion machine with SMEMA protocol. It allows the insertion by means of carry clip and heads with 360° rotation with 1° increment. The insertion speed is 20,000 / hour. Supports available components: capacitor, transistor, LED lights, key switch, resistor, connectors, connectors, LED lights, key switch, resistor resistors, connectors, fuse blocks and other materials packaged with tape.

Machine Size: L1992 x W1820 x H1593 mm Machine Weight: 1500 kg Inline Baord Feeding Height: 0.79 - 2.36 mm

Component packaging method: Components must be in tape pakage

Feeder Station: 10/15/20/40/80 (options)

Component Lead Cutting: 1.5 +/- 0.3 mm or 2.0 +/- 0.3 mm

Feeder Dimension: 300 x 63 x 42 pcs

Board Size Available: 350 × 280

Power Supply:

220V, AC (Single Phase) 50/60HZ, 2.0KVA Air Supply: 0.6 - 0.8 Mpa

Air Consumption: 0.3 m3/min Hole position correction method:

Machine vision system, multi-point MARK vision correction

Board Loading: Manual/Auto(Options)

Programming: Online editing Noise:

60





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THIM3P: Pin insertion machine

In-line pin insertion machine with SMEMA protocol. It has a capacity of up to 4 heads to guarantee a mix of components. It has panasonic servo motors with controllers. Insertion speed is 6000/hour, supports bulk feeding with two vibratory rates and two tape inputs according to vibrator and two inputs for tape according to the presentation of the components

Machine Size: L1700 x W1300x H1600 mm

Machine Weight: 1200 kg

PCB Size: 330 x 280 (Customized)

Number of insertion heads:

1-4 Optional

Terminal Thickness:

0.5-1.2 mm

Vertical error: 0.8°

Insertion angle: 360° (increment 1°)

PCB requirements:

The insertion hole is 0.5 +/- 0.1 large than thw component foot

Body distance:

The distance between the components 2mm

Clinch: Inward cliching/ Outward clinching/ 'N'

Display system: 17- inch color LCD monitor

Feeding system:

Tape feeder or Bowl feeder + feeding guide

Motion accuracy: 0.001 mm/ pulse

Programming function:

Online visual programming, visual correction, Excel

Communication interface:

RS-232 (can be connected to MES system)

Motion System:

Panasonic controller, motor

Power:

Sigle 220V / AC, 50/60HZ, 2KVA





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THIM3T: Terminal insertion machine

The online terminal insertion machine automatically inserts various specifications of terminal components into printed circuit boards (PCBs) according to the set program of different products, with corner fixing and detection functions, achieving high-speed, high-precision, and highly stable insertion effects. The machine have with SMEMA protocol. Allows insertion with 360° rotation with an increment of 1°, it has a capacity of up 4 heads.

Visual programming system RS-232 (can be connected to MES system), communication interface. The speed of insertion of terminals is 0.6 seconds and the distance between components is 2mm. The power supply of the terminals can be in bulk or tape.

Machine Size:

L1750 x W1350 x H1750 mm

Machine Weight:

1500 Kg Insertion angle: 360° (increment 1°)

Component packaging method: Jointly, in rolls, in bulk

Terminal Thickness:

0.6 - 1.2 mm

Air pressure:

5-6kg/cm²

PCB requirements:

The edge of the backup plate needs to positioning hole the component aperture is 0.5mm larger that the component foot.

PCB Size:

Max 380x280 Min50x50mm (Customized)

Body distance:

The distance between the components 2 mm

Display system: 17 - inch color LCD display

Number of insertion heads:

1 - 4 (Optional)

Material supply method:

Bowl feeder, Packaging in rolls /continuos feeders

Motion accuracy:

0.001 mm/ pulse Motion System:

Panasonic servo controller, motor

Programming function:

Online visual programming, visual correction and simple Excel spreadsheet process

Data Import:

USB interface import, manual entry

Communication interface:

RS-232 (can be connected to MES system)

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Power:

Sigle 220V / AC, 50/60HZ, 2KVA

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THIM3C: Connector insertion machine

In-line connector component insertion machine with SMEMA protocol. It has a capacity of up to up to 4 heads to speed up the insertion process and an insertion speed of 16000 /hour. Each head allows insertion from 0° to 90° with an increment of 1°. It has an insertion inspection chamber. Component feeding is in bulk.

Machine Size:

L1700 x W1300 x H1600 mm

Machine Weight:

1200 Kg

Insertion angle: 360° (increment 1°)

PCB Size:

330 x 280 (Customized) Number of insertion heads:

1 - 4 Optional

Terminal Thickness:

0.5 - 1.2 mm

Vertical error: 0.8°

PCB requirements:

The insertion hole is 0.5 + - 0.1 large than thw component foot

Body distance:

The distance between the components 2 mm

Clinch: Inward clinching/ Outward clinching/ 'N'

Humidity:

30% - 70% Display system: 17 - inch color LCD monitor Feeding system:

Tape feeder or Bowl feeder + feeding guide

Motion accuracy:

0.001 mm/ pulse

Motion System: Panasonic controller, motor

Programming function:

Online visual programming, visual correction, Excel

Data Import:

USB interface import, manual entry

Communication interface:

RS-232 (can be connected to MES system)

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Power:

THIM3CC

Sigle 220V / AC, 50/60HZ, 2KVA





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THIM3-OF3S: Insertion of Odd Form Components

In-line odd form component insertion machine with SMEMA protocol. It has a capacity of up to 4 heads to guarantee a mix of components. It has panasonic servo motors with controllers. Insertion speed is 6000 /hour, supports bulk feeding with two vibratory rates and two tape inputs according to vibrator and two inputs for tape according to the presentation of the components

Machine Size:

1780 x 1500x 1600 mm

Machine Weight: 1800 kg

Insertion Angle: 5.5 - 18mm or 5 - 25 mm

Board Size Avaliable: 330 x 280 (Customized)

Inline Baord Feeding Height: 900 +/- 20 mm

Board Thickness: 0.79 - 2.36 mm

Component Type: Components must in tape pakage

Jumber Wire Insertion: Options

Component Lead Cutting: 1.2 - 2.2 mm Lead Bemding: Yes

Feeder Station: 20/30/40/50/60/70/80/90/100

Power Supply: 220V, AC 50/60 HZ, 1000VA

Air Supply: 0.55 +/- 0.1 Mpa

Air Consumption: 0.2 m3/min

Noise: 65

Calibration:

Machine vision system, multi-point Mark vision correction

Data Input:

USB

Operation Mode: Auto/semi-automatic/manual

Worktable Rotate: X, Y axis direction

Board Loading: Manual/Auto

Programming: Manual/Auto

MES(Y/N): Options





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THIM3-TM: Cutting, preforming and repacking machine

Component taping machine. The feeding is in bulk and the taping speed is 180 to 230 components per minute. Of 180 to 230 components per minute. It has double missing component detection system, servo motor control system double missing component detection system, servo motor control system, visual programming in English and USB data input interface. and USB data input interface. It performs cutting and preforming. It has an electrical tester for the validation of validation of the operation of the components.

Machine Size:

2300 x 1000 x 1500 mm

Machine Weight:

800 Kg

Power:

220V, 50-60 Hz

Components:

Electrolytic capacitor, LED, inductor, ceramic capacitor, varistor, transistor, fuse, resistors, touch switch, plastic and metal terminal parts

Cutting length:

2.5 - 28 mm

Air supply:

4 Mpa

Cutting form:

2.0 mm, 2.5 mm, 5 mm, 7.5mm, 10 mm o 15 mm, 20 mm, 25 mm

Speed:

180 - 300 pcs / min

Type of shape:

Inner fold, outer fold, fold back, etc.

THIM3-TMO





8

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