

# S7900

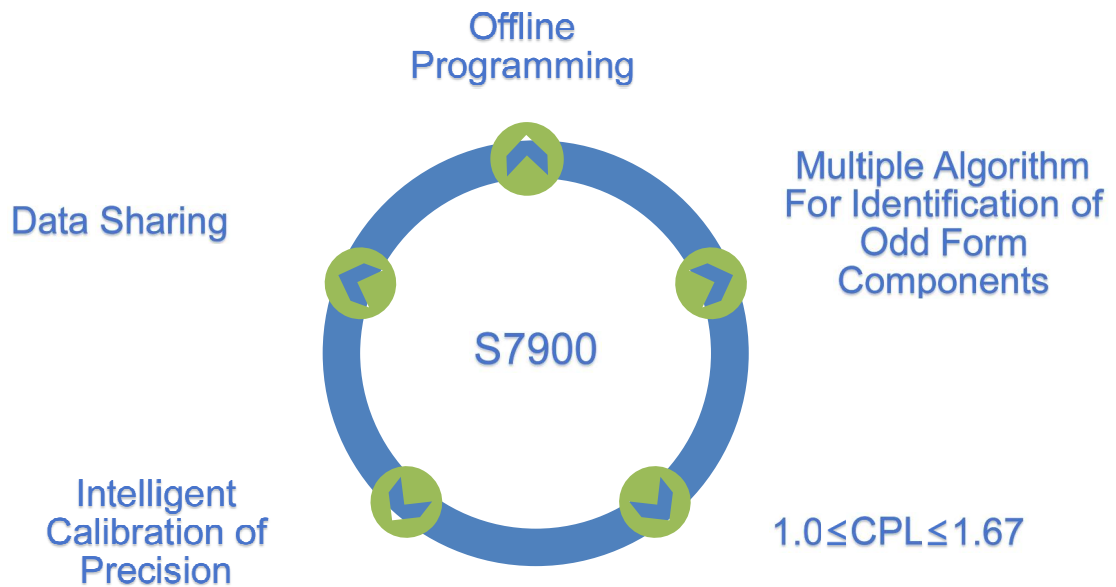
ODD FORM INSERT MACHINE



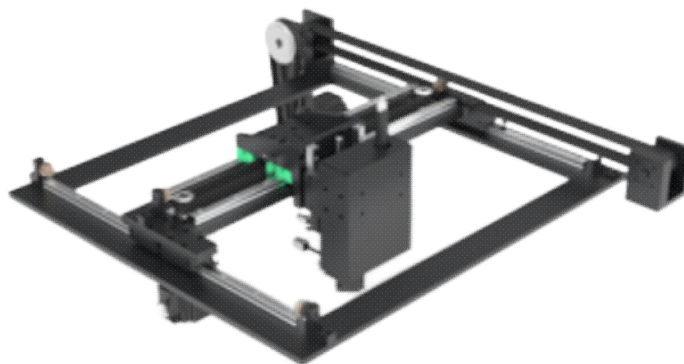
## PRODUCT FIELDS OF USE



## PRODUCT ADVANTAGES



## PRODUCT FEATURE



- **Function:** Supports automatic lead bending to prevent floating during welding.
- **Specs:** Lead diameter < 1.0mm; exposed lead  $\geq 2$ mm (subject to final design).

# PRODUCT FEATURE



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

| Specification           | Model   |                  |                             |                  |                  |    |
|-------------------------|---|------------------|-----------------------------|------------------|------------------|----|
| Model                   | S7900-II  | S7900-IV         | S7900-IV-P                  | S7900-VI         | S7900-VI-P       |    |
| Size (LxWxH)            | 1050×1680×1870mm  | 1300×1700×2000mm | 1550×1900×2100mm            | 1300×1700×2000mm | 1550×1900×2100mm |    |
| Weight                  | 1250 kg   | 1650 kg          | 1750 kg                     | 1730 kg          | 1800 kg          |    |
| Operation System        | Windows   |                  |                             |                  |                  |    |
| No. Of Door             | Single Side   |                  |                             | DoubleSide       | Single Side      |    |
| Safety Grating (Door)   | Standard Configuration  |                  |                             |                  |                  |    |
| Air Supply              | 0.5-0.65 MPa (ANR)  |                  |                             |                  |                  |    |
| Max Power               | 4.5 KW  | 5.4 KW           | 6.6 KW                      | 5.2KW            | 6.3KW            |    |
| Run Power               | 2 KW  | 3.3 KW           |                             | 3.5 KW           |                  |    |
| No. of Insertion Heads  | 2   | 4                | 4                           | 6                | 6                |    |
| Max Component Size      | φ 50 (35×35)mm  |                  |                             | φ 30 (17×17)mm   | φ 50 (35×35)mm   |    |
| Component Height        | ≤25mm   | ≤30mm            | ≤25mm                       | ≤20mm            | ≤30mm            |    |
| Component Feeding Type  | Nozzle/Clamp  |                  |                             |                  |                  |    |
| Speed /each Component   | 0.8 S   | 0.7 S            | 2S<br>(with lead clinching) | 0.6 S            | 0.6 S            |    |
| Placement Accuracy CPK≥ | ±0.06mm   | ±0.06mm          | ±0.05mm                     | ±0.06mm          | ±0.05mm          |    |
| Insert Power            | ≤29.4N  | ≤98N             | ≤29.4N                      | ≤29.4N           | ≤29.4N           |    |
| Insertion Direction     | 0-360°  |                  |                             |                  |                  |    |
| Insert Component Object | Connector, Switch, Socket, Transformer Coils, Ports, Capacitors, Resistors, IC, Etc |                  |                             |                  |                  |    |
| PCB Size (LxW)          | 70×70~300×500 mm  | 70×70~410×500 mm | 70×70~450×400 mm            | 70×70~410×350 mm | 70×70~410×360 mm |    |
| Carrier Size (LxW)      | Max 350×500mm   | Max 500×500mm    | Max 500×550mm               | Max 410×350mm    | Max 410×360mm    |    |
| PCB thickness           | 0.6-2.0mm   |                  |                             |                  |                  |    |
| Conveyor Space          | 25 mm/20 mm   | 30 mm/20 mm      | 25 mm/20 mm                 | 20 mm/20 mm      | 30 mm/20 mm      |    |
| Max. PCB Weight         | 5 Kg  |                  |                             | 2 Kg             | 5 Kg             |    |
| PCB included side width | ≥5mm  |                  |                             |                  |                  |    |
| PCB Fixed Type          | Sero/Cylinder clamping  |                  |                             |                  |                  |    |
| Conveyor Type           | Chain   |                  |                             | Belt             | Chain            |    |
| PCB Direction           | Rto L/Lto R   |                  |                             |                  |                  |    |
| Conveyor Section        | 3   |                  |                             |                  |                  |    |
| Conveyor Adjusting      | Auto  |                  |                             |                  |                  |    |
| Conveyor Height         | 750±20mm  |                  |                             | 900±20mm         |                  |    |
| Lead Clinching Unit     | /   | /                | Standard                    | /                | Option           |    |
| MES Connection          | Standard Configuration  |                  |                             |                  |                  |    |
| Vision System           | Mark CCD (Top)  | 1                |                             |                  |                  |    |
|                         | Component CCD (Bottom)  | 2                | 4                           | 4                | 2                | 6  |
| Max Stations            | 201 Radial Tape Feeder  |                  |                             |                  |                  |    |
|                         | 218 Radial Tape Feeder  | 4                | 6                           | 6                | 10               | 6  |
|                         | 207 Radial Tape 90° Feeder  |                  |                             |                  |                  |    |
|                         | 259 Radial Tape Feeder  |                  |                             |                  |                  |    |
|                         | 254 Radial Tape Feeder  | 6                | 12                          | 12               | 20               | 12 |
|                         | 202 Axial Tape Feeder   | 4                | 6                           | 6                | 10               | 6  |
|                         | 222 Tube Feeder   | 6                | 12                          | 12               | 20               | 12 |
|                         | 203 Tube Feeder   | 4                | 6                           | 6                | 10               | 6  |
| 205 Bowl Feeder         | 4   | 4                | 4                           | 8                | 4                |    |
| Tray Feeder             | 1   | 1                | 1                           | 2                | 1                |    |

Remark: If different types feeders mixed using, the num. of feeders are depended on combination.

\*1 Air source is atmospheric pressure Frost point: -17°C or less, particulate powder: particle size 5 μm or less, and Maximum oil concentration: 5mg/m<sup>3</sup> or less, in addition to the machine installation requires an air source

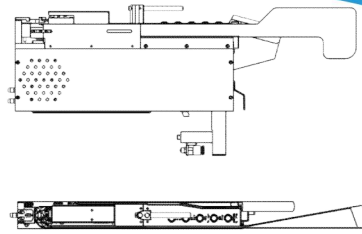
\*2Varies depending on the conditions of use

\*3Depending on different components

\*4The use of the plug-in foot bend module replaces the top plate mechanism.

\*5Only provide the original factory setting information. Need to be customized to match the customer's system (optional items)





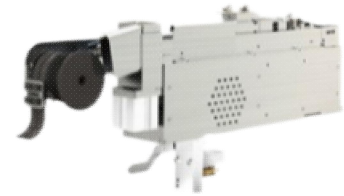
## I STANDRD TAPE FEEDER



AXIAL TAPE FEEDER

202

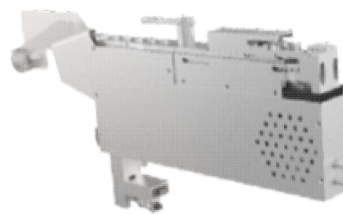
The 202 Axial Tape Feeder, designed for horizontal lead braiding materials, is compatible with SMT and AI machines. It supports resistors, capacitors, fuses, etc., offering universality, high speed, efficiency, low maintenance, and customization options



RADIAL TAPE 90° FEEDER

207

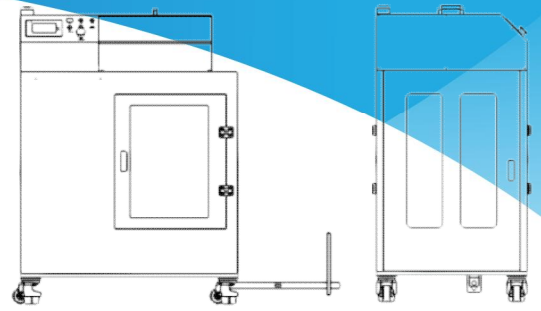
The 207 Radial Tape Feeder is designed for single-tape materials, automatically bending leads at 90°. Compatible with SMT and AI machines, it supports components like capacitors and LED. Features include low maintenance, high universality, fast feeding, and high efficiency, with customized options.



RADIAL TAPE FEEDER

259

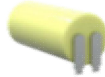
The 259 Radial Tape Feeder is designed for capacitors, compatible with SMT and AI machines. It supports components like capacitors and LED, offering high universality, fast feeding, efficiency, low maintenance, and customization options.



## CUSTOMIZED TRAY FEEDER



SMALL SIZE  
BOARD



BIG SIZE  
CAPACITANCE



Inductive Coil



### TRAY FEEDER

# 248B&213A

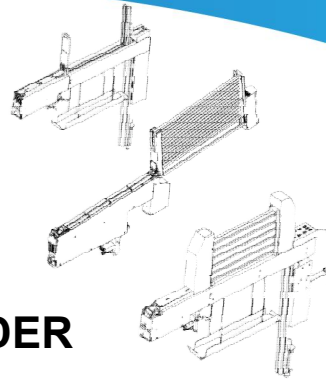
248B & 213A Tray Feeders, designed for SMT insertion, support IC, transformers, and coils, offering high efficiency, safety, stability, and customized options

The 248C & 215 & 206 Tray Feeders are designed for pallet-fed materials, compatible with both SMT and insertion machines. They support IC, transformers, coils, and more, offering high efficiency, safety, stability, versatility, and customization based on customer needs.



### TRAY FEEDER

# 248C&215&206



## I STANDRD TUBE FEEDER

TUBE FEEDER

229



The 229 Tube Feeder is designed for pipe-fed materials, compatible with both SMT and insertion machines. It supports capacitors, transformers, relays, VGA, and more, offering high versatility, fast feeding speed, high efficiency, low maintenance costs, and customization based on customer needs.

TRAY FEEDER

222



The 222 Tube Feeder is designed for small tube-fed materials, compatible with SMT and insertion machines. It supports IC, small crystals, and more, offering high versatility, fast feeding speed, high efficiency, low maintenance costs, and customized options, including lead cutting and shaping functions

TRAY FEEDER

222

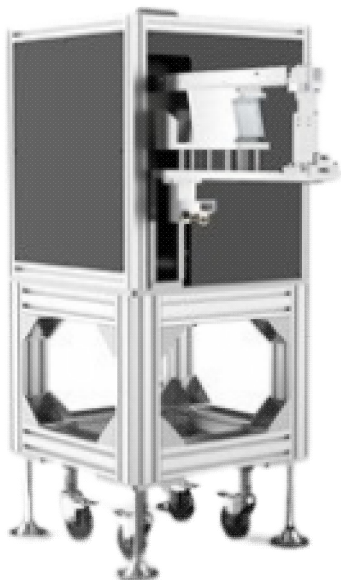


The 203 Tube Feeder is designed for tube-fed materials, compatible with SMT and insertion machines. It supports capacitors, transformers, relays, VGA, and more, offering high versatility, fast feeding speed, high efficiency, low maintenance costs, and customization based on customer needs

## I CUSTOMIZED BOWL FEEDER

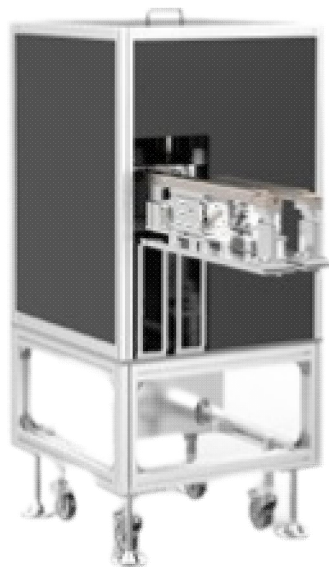
SINGLE LAYER  
BOWL FEEDER

205



DOUBLE LAYER  
BOWL FEEDER

209



MULTIFUNCTIONAL  
BOWL FEEDER

214



The 222 Tube Feeder is designed for small tube-fed materials, compatible with SMT and insertion machines. It supports IC, small crystals, and more, offering high versatility, fast feeding speed, high efficiency, low maintenance costs, and customized options, including lead cutting and shaping functions

The 209 Bulk Material Feeder is designed for bulk-fed components, compatible with insertion machines. It supports connectors, terminals, small transformers, VGA, headphone jacks, USB, switches, HDMI, and more. The dual-layer vibratory bowl saves space and improves feeding efficiency, with customization available based on customer needs.

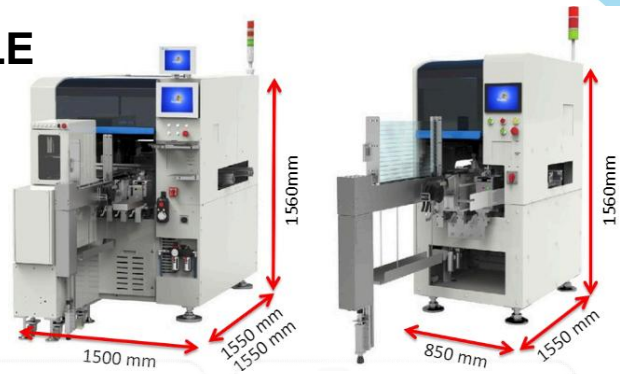
The 214 Bulk Polarized Feeder is designed for bulk LED and capacitor materials. It automatically distinguishes the polarity of LED and capacitors and adjusts the orientation accordingly. Features include high cost-effectiveness, safety, stability, and versatility, with customization options available based on customer needs.



# CUSTOMIZED GRIPPER&NOZZLE

CUSTOMIZED NOZZLE

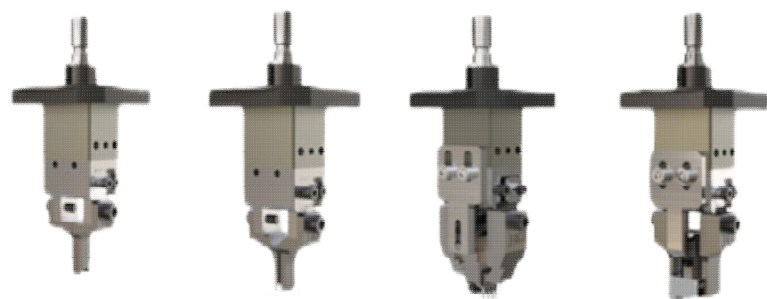
## 24ND04



# I CUSTOMIZED GRIPPER&NOZZLE

CUSTOMIZED GRIPPER

## 24JD04



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