680 High-speed Irregular Shape Insertion Machine Superfast

Faster, Smaller, More Flexible Universal High-speed Irregular Shape Insertion Machine

Three Cameras | Simultaneous Capture | Compact Size | Space-saving





Solution for Irregular Shape Insertion Machine, from Small Batch Multivariable to Large Batch Production

680 Superfast integrates the visual, motion control, and deep learning algorithms as its core components. Its performance, precision, flexibility, and compatibility have reached industry-leading levels, capable of meeting your production needs from small-batch, multi-variety to large-scale production.

Diagram 1.33
Cycles per Hour
(Cph)
Cycles per Hour
(S/C)
Cycles per Hour
(S/C)

Cycles per Hour
(S/C)

Cycles per Hour
(S/C)

Cycles per Hour
(S/C)

Cycles per Hour
(S/C)

Cycles per Hour
(S/C)

Cycles per Hour
(S/C)

Cycles per Hour
(Cpk)

Cycles per Hour
(Cpk)

* Test results under specified conditions of our company.

Insert Anomaly Detection (Standard)

Insert Pressure Detection (Optional)

Component Height Detection (Optional)

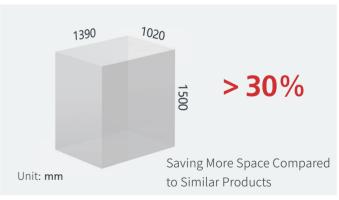


SmartAl SIX Gantry Head

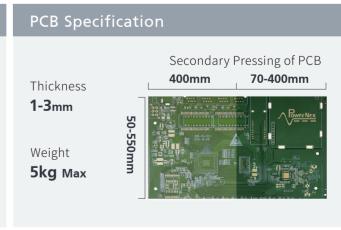
Integrated Light Source | Servo-driven | 6 Working Heads

Compact Design

Maximizes Space Utilization







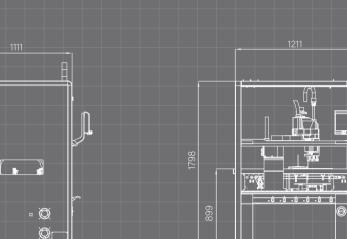
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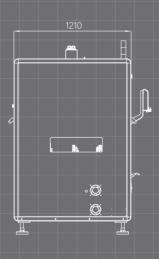
Technical Specification

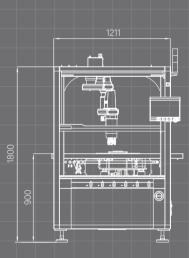
| High-speed Irregular Shape Insertion Machine | | | | |
|-------------------------------------------------------------------------------|----------------------------|------------------------------------|----------------------------|---------------------------|
| Model | 680 | 1200 | 1600 | 1800 |
| PCB Size | 410*400mm | 300*350mm | 410*450mm | 410*400mm |
| | 800*400mm | | | |
| PCB Thickness | 0.8-5mm | | | |
| PCB Weight | Max.6kg | | | |
| Clamping Edge Width | 3mm/5mm | | | |
| Plugin Performance | | | | |
| nsertion Speed | 5300cph | 1800cph | 2000cph | 1600cph |
| nsertion Cycle Time | 0.68 sec/part | 2 sec/part | 1.8 sec/part | 2.2 sec/part |
| Repeat Positioning Accurac | | | .02mm | |
| Characteristics of Workhea | | | | |
| Picking Method | | Gripping | g/Pickup | |
| Number of Working Heads | 6 | 4/6 | 4 | 4/6 |
| Component Dimensions | 40mm | , | 35/50mm (Customized) | , |
| Component Height | 35mm 40/50mm (Customized) | | | |
| Component Weight | Max.300g Max.500g | | | |
| nsertion Direction | | 0-360° | | |
| nsertion Angle | | Plane | | Free Angle |
| PCB Conveyor System | | | | 3.1 |
| Conveying Structure | | Three | -stage | |
| Conveying Method | Belt/Chain | | | |
| Conveying Mode | Synchronous/Asynchronous | | | |
| Conveying Speed | Max.800mm/s | | | |
| Conveying Direction | L→R or R→L | | | |
| Width Adjustment | Automatic Width Adjustment | | | |
| Fixed Edge Position | Front End | | | |
| Component Clearance Heig | | | | |
| Material Feeders | 3110 | ορ 43 / 1 | 50WI120 | |
| Vertical Tape | 20 | 20 | 20 | 20 |
| Horizontal Tape | 16 | 16 | 16 | 16 |
| Tube Feeding | 16 | 16 | 16 | 16 |
| Tray Feeding | 4 | 4 | 4 | 4 |
| Vibratory Bowl Feeding | 16 | 16 | 16 | 16 |
| Machine Information | 10 | 10 | 10 | 10 |
| Operating Voltage | 220VAC ±10% | 220\/∆(| C ±11% | |
| operating voltage | 1.8KVA | 1.8KVA | 1.8KVA | 1.8KVA |
| Power Pate | | I.OKVA | | I.OKVA |
| | 0.5±0.05Mpa 50L/min | | | |
| Operating Pressure | 0.5 ± 0.05 Nipa 50L/IIIII | CNAENAA (E | | |
| Power Rate Operating Pressure Machine Port | | | | 11/6*1011*1000 |
| Operating Pressure Machine Port Machine Dimensions | 975*1295*1500mm | 1211*1111*1800mm | 1211*1210*1800mm | 1146*1011*1800mm |
| Operating Pressure Machine Port Machine Dimensions Machine Weight | | | | 1146*1011*1800mm 950kg |
| Operating Pressure Machine Port Machine Dimensions Machine Weight Protections | 975*1295*1500mm | 1211*1111*1800mm 950kg | 1211*1210*1800mm 1050kg | |
| Operating Pressure Machine Port Machine Dimensions | 975*1295*1500mm | 1211*1111*1800mm 950kg ISO90 | 1211*1210*1800mm | |

Dimensions k d Superfast 680 Left View/Front View n (Q) <u>@</u>[__

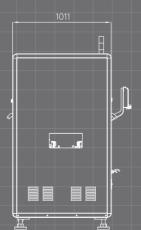


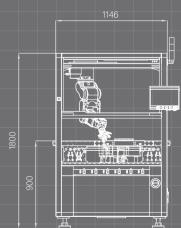
Left View/Front View





Left View/Front View





Left View/Front View