SOUTHERN MACHINERY

# S-7000 Eyelet Pin Insertion Machine



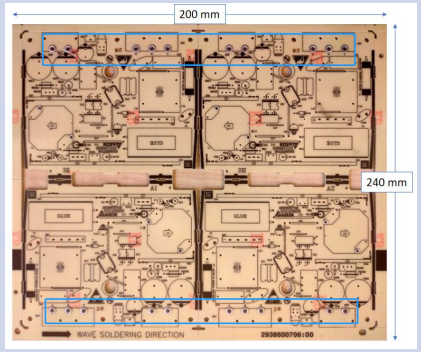
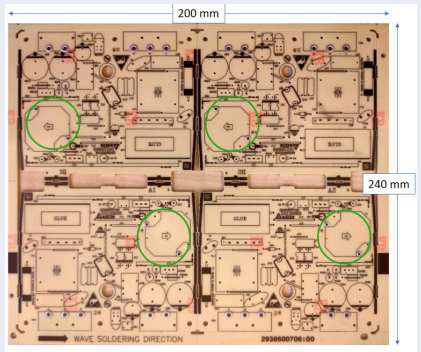
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# Machine specifications

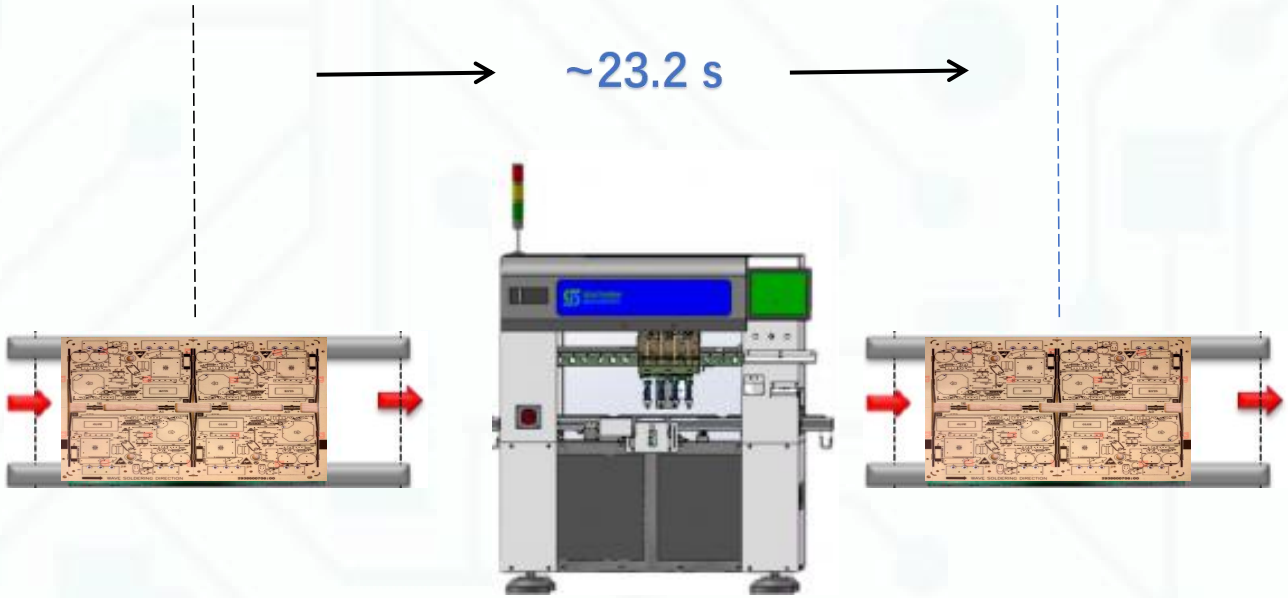
- Theoretical speed: 8000 CPH
- Insertion defect rate: 〈 800PPM
- PCB size: 480x480mm
- PCB thickness: 0.79~2.36mm
- Insertion component objects: can be inserted 1.6-3.5mm eyelet pin, long pin, tape pin, customers can choose 1-4 insertion heads according to their requirements
- Machine size: (L*W*H) 2300x1340x1860mm
- Machine weight: 1500KG (4 insertion heads)
- Power supply: 220VAC (single phase); 50/60HZ; 1.0KVA
- System protection Uninterruptible: power supply (UPS) configuration, can run for 15 minutes after power failure
- Power: 960W
- Air pressure: 0.4-0.6MPA
- Air consumption: 0.1 m3/min
- Ambient temperature: 5-26 °
- Machine noise: 55 decibels
- Hole position correction method: Machine vision system, multi-point MARK vision correction
- Drive system: AC servo, AC motor
- Data input method: USB interface input (EXCEL file format)
- Control system: Chinese operation interface (WINDOWS system control platform) LCD display
- Working mode of worktable: L→R,R←L. optional turntable (clockwise/counterclockwise)
- Circuit board conveying mode: manual/automatic (optional)

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# S-7000 Eyelet Pin Insertion Machine Capacity Calculation

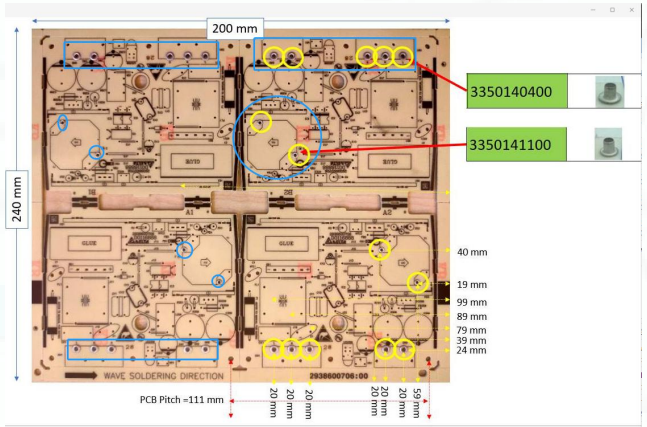
| PCB | Number of devices | Number of components | CPH | s/component | PCB Insertion time | UPH | Remarks |
|---|---|---|---|---|---|---|---|
|  | 1 set S-7000 | 20 | ~4500 | ~0.8 | ~16 s | ~155 | ' Cycle time includes: PCB entry(1s) and exit(1s) and MARK recognition(1s) and PCB insertion time(23.2s): Single board Actual UPH=3600÷(1+1+1+23.2)=138 Monthly capacity=138*20H*25D=69K Annual capacity=69K*12=828K |
|  | | 8 | ~4000 | ~0.9 | ~7.2 s | | |

# S-7000 Eyelet Pin Insertion Machine Configuration




**S-7000 Eyelet Pin Insertion Machine Configuration**
**(2 Bowl Feeders with 2 insertion head)**

20 x eyelet pin (3350140400)
8 x eyelet pin (3350141100)




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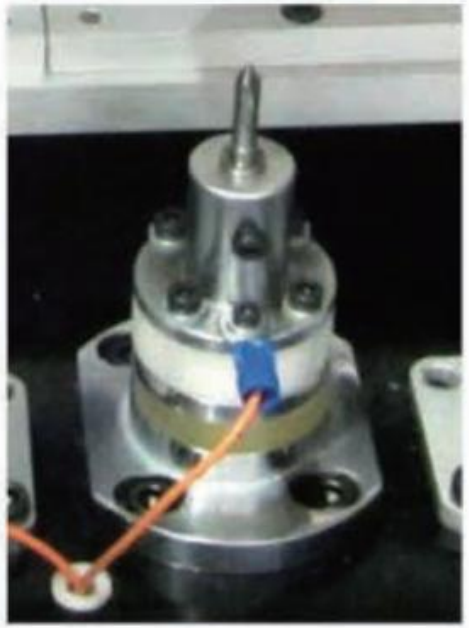
# S-7000 Eyelet Pin Insertion Machine Configuration



Stable equipment, high-speed insertion, 1-4 heads optional

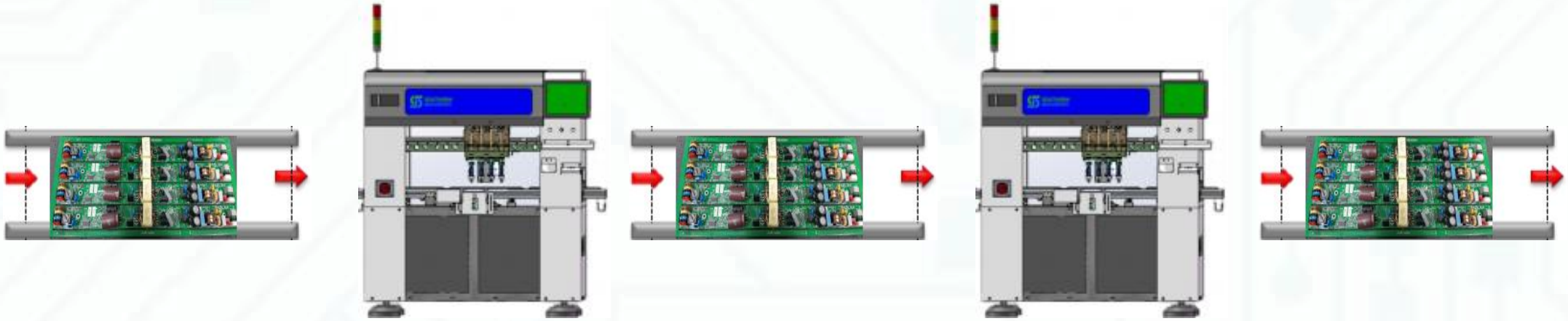


Basically no maintenance and inspection, extremely low maintenance cost, improve equipment efficiency

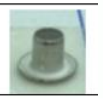


According to the customer's pin blooming requirements, quickly replace the corresponding bottom mold

# 7 Eyelet Pin components machine configuration



**S-7000 Eyelet Pin Insertion Machine Configuration**
**(4 Bowl Feeders with 4 insertion heads)**

| | | | |
|---|---|---|---|
| 3350140400 |  | 3350141100 |  |
| 3350143000 |  | 3353320700 |  |

**S-7000 Eyelet Pin Insertion Machine Configuration**
**(3 Bowl Feederwith 3 insertion heads)**

| | | | |
|---|---|---|---|
| 3350141900 |  | 3353305500 |  |
| 3350142100 |  | | |

3350253900



3350931600



3350931600



3350931700





These components exceed the machine insertion object.(1.6-3.5mm). The bowl feeder cannot stabilize the feed, and the plug-in effect cannot reach the desired effect. So, we suggest manual insertion

# SLD-330 PCB Magazine Loader

## Description

*This unit is used for loading of PCBs from the production line.*



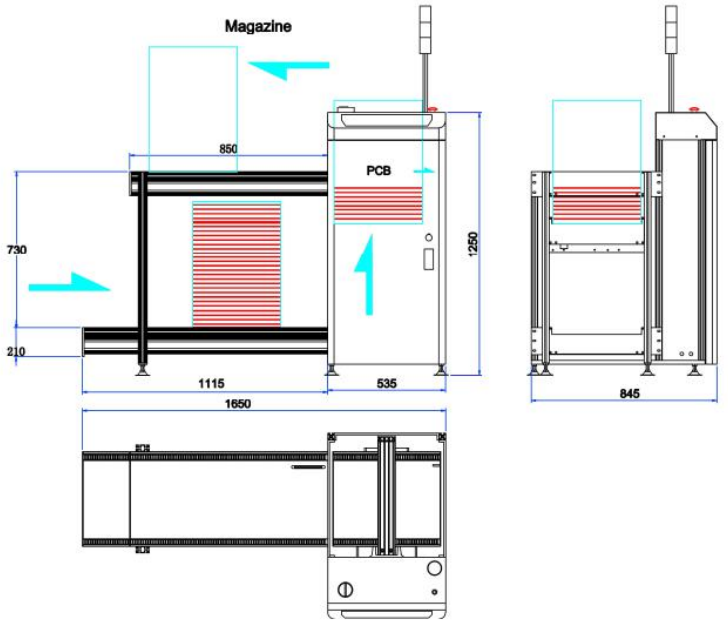




## Features

Sturdy and stable design
User friendly 'soft touch' LED membrane control panel
Pneumatic clamps provided for magazine alignment
Pneumatic pusher's pressure regulated
High throughput with short magazine change-over time
SMEMA compatible

## Schematic




## Specifications

| Model | Dimension (L*W*H.MM) | PCB size(MM) | Weight(KG) | Rack size(L*W*H.MM) |
|---|---|---|---|---|
| SLD250 | 1330*765*1250 | 50*50-330*250 | 140KG | 355*320*563 |
| SLD330 | 1650*845*1250 | 50*50-445*330 | 200KG | 460*400*563 |
| SLD390 | 1800*909*1250 | 50*50-530*390 | 240KG | 535*460*563 |
| SLD460 | 1800*970*1250 | 50x50-530x460 | 300KG | 535*530*563 |

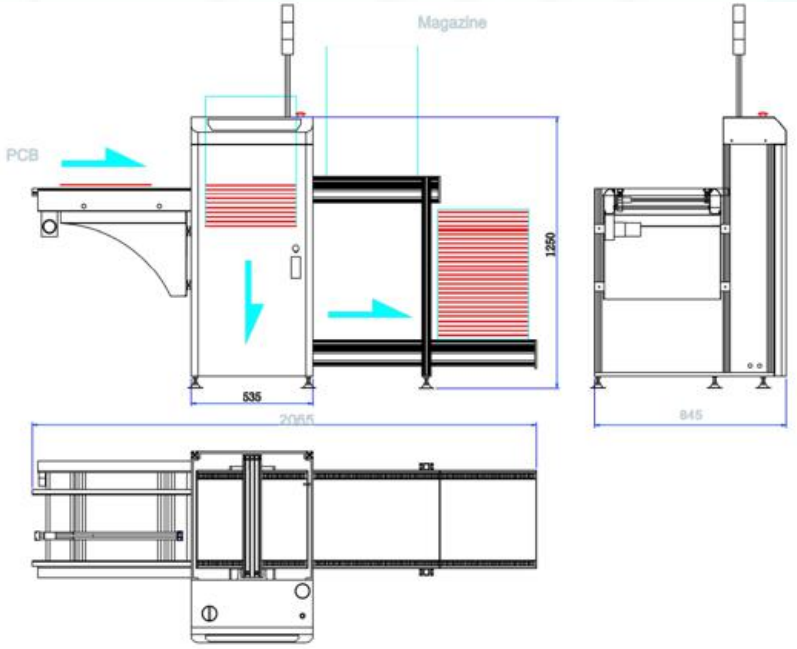
# SULD-330 PCB Magazine Unloader

## Description

*This unit is used for unloading of PCBs from the production line.*




## Schematic




## Features

Sturdy and stable design
Magazine quantity: upper 1pc, bottom 1pc.
Tank Replacement time: about 30 seconds or specify
Step select: 10,20,30,40 mm or specify
Spec. 110V or 220V, single phase max 250VA.
Barometic pressure from 4-6 bar, up to 10/min
Flexible platform to suit standard magazines.
Regulated pressure on attached pneumatic pusher.
Pusher position adjustable to centre of the magazine.
User friendly “soft touch” LED membrane controlpanel.
SMEMA compatible

## Specifications

| Model | Dimension (L*W*H.MM) | PCB size(MM) | Weight(KG) | Rack size(L*W*H.MM) |
|---|---|---|---|---|
| SULD250 | 1730*765*1250 | 50*50-330*250 | 160KG | 355*320*563 |
| SULD330 | 2065*845*1250 | 50*50-445*330 | 220KG | 460*400*563 |
| SULD390 | 2660*909*1250 | 50*50-530*390 | 280KG | 535*460*563 |
| SULD460 | 2660*970*1250 | 50x50-530x460 | 320KG | 535*530*563 |

# Basic linking conveyor

## Description

*This unit is used as a visual inspection station for operators betwe en SMT machines or board hand unit to link the machines.*

## Features

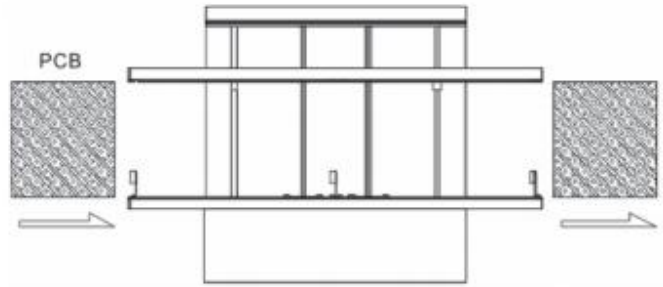
Modular design, PLC controlled
Stability enhanced by heavy design
Worktable included by default
Smooth and parallel width adjustment (stainless steel screws)
Different lengths available upon request
Muli-segment concept available upon request
Automatic/Manual modes
Variable speed control
Inspection button
SMEMA compatable
Conveyor height 900±20mm



## Options

Anti-dust Covers
Touch screen
High-Clearance on request
Cooling fans on top/bottom for after-reflow
Light system for better inspection
Support for Monitor
Shelf with ESD component boxes
Motorized/Automatic width adjustment
Choice of different belt width and chain transport system
Mechanical stopper
Foot pedal pass control
Narrow footprint
With bottom cabinet

## Schematic




## Specifications

| Model | Dimension (L*W*H.MM) | PCB size(MM) | Weight(KG) | Remark |
|---|---|---|---|---|
| S-350C/S-350C-L | 500*676*900 | 50*50-445*350 | 50KG/55KG | no Lighting/with Lighting |
| S-460C/S-460C-L | 500*786*900 | 50*50-460*460 | 65KG/70KG | no Lighting/with Lighting |
| S-350D/S-350D-L | 1000*676*900 | 50*50-445*350 | 75KG/80KG | no Lighting/with Lighting |
| S-460D/S-460D-L | 1000*786*900 | 50*50-460*460 | 90KG/95KG | no Lighting/with Lighting |

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# Best After-sales service

— 7x24 Worldwide Support

— Free Installation/ Training

— 1 day lead-time (spare parts)

— 1 Month customize solution



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Looking forward to your email Jasonwu@smthelp.com ; kevin@smthelp.com