

ASCEN factory product list (NO.000)

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To provide OEM serve and and producing standard /customized automatic equipment, specialize in SMT and automatic eletronic manufacturing solution. bend oneself to help the manufacturer Improve production efficiency and reduce more labor cost in the production . help our customer updated production solution to arrival smart production. and then further provide the market competitiveness of manufacturer's products

Note: the list will updated the product in every years ,every model will have some different according your requirement, some customize other automatic machine or automatic part , please sent the inquiry . when you confirm the model , Please confirm the machine detail with our sale engineer. and then will provide the best quotation from our system

Item 1	Description
<p>ASCEN high efficiency multi cutter 900 model</p>   <p>Refer picture</p>  	<p>1)Model :ASC-900 machine (Manually versions) Model :ASC-900 machine (Online automation versions)</p> <p>2) Mitsubishi PLC control system import from Japan (online versions)</p> <p>3) LED TFT touch screen control panel (online versions)</p> <p>4) Standard SMEMA Port,with automatic cutting function and manually cutting mode (online versions)</p> <p>5) Max length of PCB: unlimited</p> <p>6) Thickness of plate: 0.3-3.0mm</p> <p>7) Speed: 300~500mm/second</p> <p>8) Blade material: import high precision steel with self-locking function</p> <p>9) Total 2 sets of cutter groups and Install 40 pieces high precision self-locking knife</p> <p>10) No include the PCB fixture</p> <p>11) The max cutting width : 240mm</p> <p>12) The minumum cutting small plate width: 8mm</p> <p>13) Operating temperature: 10-35 deg</p> <p>14) Storage temperature: -20-50 deg</p> <p>15) Power supply: 220V/50HZ</p> <p>16) Size of machine: 2500L*880W*1180Hmm</p> <p>17) Weight: 300kg, Packing weight :450kg</p> <p>Note: Online versions can connect with automation SMT producing line, and also can be used by manual mode. Manually versions only use for manually feeding cutting.</p>
	<p>1 piece import High precision self-locking spare blade (If you want to add the quantity for max cutting V-cut, you just need add the spare blade and install in machine)</p>
<p>Item 2</p> <p>In-line Automatic PCB cutter machine and use for cutting the complex PCB board</p>	<p>Model : GAM-330AT machine</p> <p>1)In-line automatic process for loading,cutting,identification,unloading and with high speed CCD.</p> <p>2)Double table process to less the waiting time</p> <p>3)PCB cutting size: 350*300mm</p> <p>4)Loading method: track delivery</p> <p>5)unloading method: track delivery or partition delivery</p>



- 6)Cutting function: offset to straight line,circular,and arc
- 7)cutting precision: +/-0.02mm
- 8)Max.moving speed: XY 800mm/s, Z 350mm/s
- 9)Max.Moving stroke: X:810, Y:370, Z:90mm
- 10)Operation interface: Windows operating interface
- 11) Program mode: CCD image input by intuition teaching
- 12)Control Method: PC BASE precise three-axis control system
- 13) XYZ axis driving mode: AC serov Motor
- 14)Machine dimensions: 1860(W)*1260(D)*1740(H)mm
- 15) Machine Weight: 1230kg
- 16)Voltage: AC220V 50Hz



Item 3: LED cutting machine



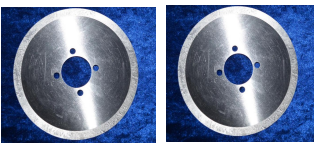
Model :ASC-710 machine (with 1.2M platform)

Model :ASC-720 machine(with 2.4M platform)

- 1) Size of machine: 425L*280W*410Hmm
- 2)Size of platform: 1200L*506W*80Hmm (1.2M platform) , 2400L*506W*80Hmm (2.4M platform)
- 3)Max length of PCB: unlimited
- 4) Material of PCB: LED aluminium ,LED copper ,FR4,
- 5)Speed: 80~400mm/s
- 6)Thickness: 0.2-3.0mm
- 7)Voltage:220V/50HZ,40W (110V/60Hz 40W)

700N series high-precision import spare blade (6 pieces as one set)
Note: Blade life is 300-400km, about keep using for 6-7month/set

Item 4



Model :ASC-502 machine (with 1.2M platform)

Model :ASC-503 machine (with 2.4M platform)

- 1) Size of machine: 425L*280W*410Hmm
- 2)Size of platform: 1200L*506W*80Hmm (1.2M platform) , 2400L*506W*80Hmm (2.4M platform)
- 3)Max length of PCB: unlimited
- 4) Material of PCB: LED aluminium ,FR4, CEM-1, fiberglass
- 5)Speed: 80~400mm/s
- 6)Thickness: 0.2-3.0mm
- 7)Voltage:220V/50HZ,40W (110V/60Hz 40W)

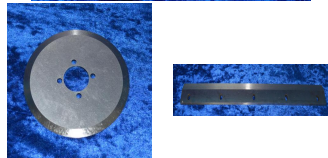
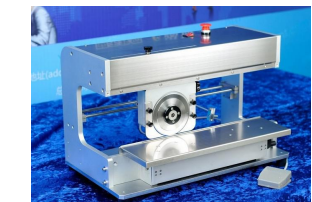
High precision spare blade(one set include 2 piece blade)

Item 5



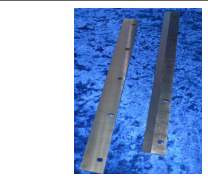
Model :ASC-508/509 machine

- 1) 508 model without conveyor:L620*W400*H430 mm
- 1) 509 model with conveyor : L1040*W400*H430 mm
- 2)Max length of PCB: 350mm
- 3) Material of PCB: LED aluminium ,LED copper ,FR4,



- 4)Speed: 300,500mm/s
 - 5)Thickness: 0.2-2.5mm
 - 6)Voltage:220V/50HZ,40W (110V/60Hz 40W)
 - 7)Packing Weight: 62/74kg
 - 8)508 model packing weight:75kg
509 model packing weight: 84kg
- High precision spare blade(one set include 2 piece blade)

Item 6



Pneumatic guillotine type

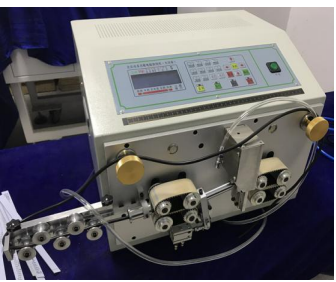
Pneumatic type PCB separator: 620 model

- 1) Max length of PCB: 355mm
- 2) Thickness of plate: 0.3-3.5mm
- 3) Speed: 300~500mm/second
- 4) Blade material: import Japanese high precision steel
- 5) Operating temperature: 10-35 deg
- 6) Storage temperature: -20-50 deg
- 7) Power supply: 220V/50HZ, 25W
- 8) Size of machine: 705mm*266mm*471mm (L*W*G)
- 9) Material of PCB: LED aluminium ,LED copper ,FR4,
- 10) Packing Weight: 246kg

High precision spare blade(one set include 2 piece blade)

Item 7

wire stripping machine



Note: this type wire stripping machine include different configuration for different type wire.

Customized Model : C1 model

- 1) Size of machine: 650L*650W*500Hmm
- 2)Max length of PCB: unlimited
- 3) Stripping length:
Front end: 1-100mm
Back end: 1-50mm
- 4)Air pressure: 4-6kg/f
- 5) Wire Diameter : 0.5-5mm
- 6) Cutting error range: +/-0.2mm
- 7) With intelligent control device system, key operation, stable performance, high precision, fast speed, easy to operate.
- 8) Can use for the wire with multi core of cable, 8 wheel control and can process 2 wire at the same time and with the stripping function.
- 9)Voltage:220V/50HZ
- 10)Packaging Weight: 152kg

Skinning machine : C2 model



- 1) Size of machine: 400L*350W*400Hmm
- 2)Max length of PCB: unlimited
- 3)Air pressure: 4-6kg/f
- 4) Wire Diameter : 0.5-8mm
- 5) Cutting error range: +/-0.2mm
- 6) skinning length via the fixture
- 7)Packaging Weight: 22kg

Item 8**PCB punching machine**

Punching type PCB cutter machine for cutting the complex PCB board

- 1)FPC/PCB Sub-plate mold punching Machine
- 2)Maximum output : 8T
- 3)Maximum output : 10T
- 4)Output method: Vapor-Liquid supercharged
- 5)Work: manual handling of materials, lower die automatic access
- 6)Start: hands control
- 7)Work area : 330 x 220mm
- 8)Packing weight: 462KG/566kg
- 9) No include the fixture(need customize the fixture via PCB)

Item 9**Cnc pcb separator: 2A/ 3A /4A model**

desktop PCB cutter machine for cutting the complex PCB board

- 1)spindle speed : 60000r / m
- 2)Machine size : 660 * 520 * 700mm
- 3)circuit board thickness : 0.4mm-4mm
- 4) Working range/PCB size: 280X280X80mm (2A)
Working range/PCB size: 380X380X100mm (3A)
Working range/PCB size: 480X480X100mm (4A)
- 5)Packing weight: 144/175kg/196kg
- 6) using for separate complex PCB board
- 7)Security Settings : machine emergency stop switch , emergency stop switch spindle , spindle motor servo motor overheating and overload detection
- 8)import spare blade price/piece
- 9)Industry Cleaner system, Packing weight: 68kg
- 10) No include the PCB fixture(need customize via PCB)

Item 10**Automatic bending cutter machine****Model: 809U/ 809F****Model: 808UK/ 808FK**

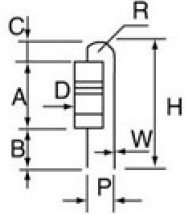
- 1) Model 1: 809U machine (use for bending form 2)
- 2) Model 2: 809F machine (use for form 1)
- 3) Model 3: 808UK machine(use for bending form 3)
- 4) Model 4 : 808FK machine (use for bending form 4)
- 5) Model 5 : 810UK machine (use for bending form 3 in loose packages)
- 6) Model 6 : 810FK machine (use for bending form 4 in loose packages)
- 7) Processing efficiency: 7200pcs/ hour
- 8) Safe and strain-free handling of the components by bending rolls with adjustable pressure
- 9) Use high precision imported knife
- 10) Bending angle adjustable
- 11)Repetitive accuracy of parameters ± 0.05 mm
- 12)Tools are driven by cam discs

Model: 810UK/ 810FK

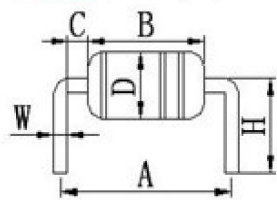


- 13)PLC control axial processing system
- 14)Electric drive with tooth belt
- 15) Power: 220V AC 50Hz
- 16)Size: L 450*W 310* H 250mm (809U/809F model) L 800*W 600*H 650mm (808UK /808FK model)
L900*800*1100mm(810UK/810FKmodel)
- 17)Weight: Approx. 32kg(809U/809F model) approx.128kg(808UK/808FK model)
Approx 158kg(810UK/810FK model)
- 18)With one sets of high precision mould

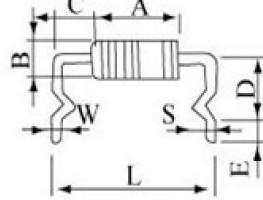
Form 1 (F shape)-809F



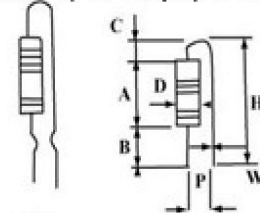
Form 2 (U shape)-809U



Form 3(UK shape)-808UK



Form 4(FK shape)-808FK



Item 11

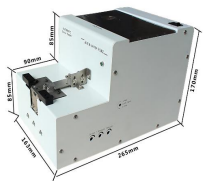


automatic screw locking machine model: HY-C1 (not include feeder)

Can customize double station or add rotate fixture

- 1)Working area: 400*400*100mm (customizable)
- 2)Screw locking efficiency: <1.2s/screw
- 3)Positioning accuracy: +/- 0.02 mm
- 4)Program recording mode: 100 set,4000 points(USB RS232 port support copy)
- 5)Display model: touch screen
- 6)Motor system: Japan precision micro-stepper motor

Adsorption type screw Feeder



Air blowing type screw Feeder

- 7)Drive mode: timing belt + screw rod +guide rail
- 8)Power: AC110V/220V 650W(internal switch)
- 9)Air supply: 0.4-0.8Mpa
- 10) Control: PLC control system
- 11) Working environment Temperature: 5-40°C
- 12)Suite screw model : M1.0-M6.0 with 5-16mm length
- 13) take and place the PCB board by hand
- 14) Weight:108kg



15) with adsorption type screw feeder and running head (choose)

15) with adsorption type screw feeder and running head (choose)

Item 12

Customize Double Stations working soldering machine

- 1)Working Range:300*300*100mm(X*Y*Z)
- 2)X / Y / Z axis move speed (mm / sec): X, Y 500-800MM / S, Z 400MM / S



- 3) Drive Method: precision stepping motor+synchronous belt / Servo motor + precision guide rail (optional)
- 4) Soldering Temperature range: 0-550C°
- 5) Diameter of Tin Thread: 0.4-1.6mm
- 6) Soldering Method: Point Soldering/ Drag Soldering
- 7) Temperature Control Accuracy: +/-1C°
- 8) Power Voltage: 700W , 220V/50Hz
- 9) Heating Power: 150W
- 10) Machine Weight: 112kg

Item 13

Customize double stations working PCB glue dispenser

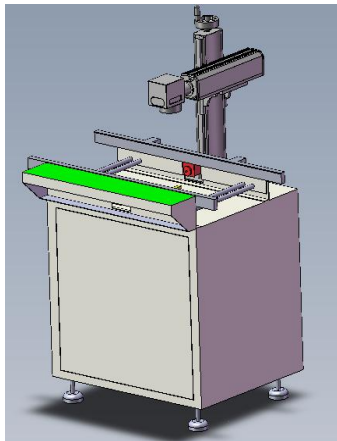


Note: glue dispenser include different configuration for different PCB board.

- 1) Working Range: 300*300*100(X*Y*Z)
- 2) X / Y / Z axis move speed (mm / sec): X, Y 500-800MM / S, Z 400MM / S
- 3) Drive Method: precision stepping motor+synchronous belt / Servo motor + precision guide rail (optional)
- 4) Resolution: 0.001mm/ axis
- 5) Control method: Point to point & Continuous
- 6) Program capacity: At least 100 group, 400 points per group
- 7) Power Voltage: 1200W , 220V/50Hz
- 8) Machine Weight: 98kg

Item 14

customize automatic PCB laser Marking conveyor



Using for marking the PCB board on your line

- 1) With thick sheet metal rack, sedate solid
- 2) Using T screw to adjust the width smoothly
- 3) Standard SMEMA, can marking QR code. word and so on
- 4) With industrial computer control system to edit label
- 5) width control: 50~400mm and speed control
- 6) with 2 sensors in exit and the entrance
- 7) with sensors control and cylinder fixation for marking
- 8) Transport Height: 920±20mm
- 9) Direction from left to right or right to left(option)
- 10) Max PCB size: (50*50)~(500*400)
- 11) External dimension: L580 *W860*H930mm, Approx 168kg

Item 15

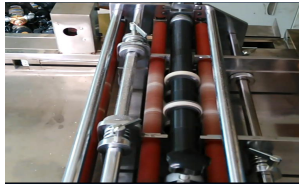
- 1) **480VR:** maximum cutting width 480mm
- 380VR:** maximum cutting width 380mm

aluminum V-cutter 480VR model

- minimum cutting length: 70mm
- cutting thickness: 0.8-3.2mm
- Speed: 8m/min



- 2) Voltage: 220V/50HZ Machine Size: 1220*960*1230



3) Weight: 282kg Packing weight:355kg

4)Application:LED panel,fiberboard,aluminum plate,aluminum substrate, copper substrate, FR4, glass fiber board

5) with cooling System

6) with 1 pairs of cutter shaft and 5 pairs of plastic shaft、 4 pieces of spare knives and some tool

7)Notice: you should allocate the amount of knives according to the amount of v-slot. a group of knives just use for a v-slot, and a group of knives includes an upper and a lower knife.

Spare blade (high-precision import spare knife)

Item 16

semi-automatic PCB printer



1)Dimension :850×670×1550mm (S400 model)

Dimension :1000×670×1550mm (S600 model)

Dimension :1650×670×1550mm (S1200 model)

2) platform size: 320*500mm / 320*600mm/320*1300mm

3) Max PCB size : 280*400mm/280*550mm/280*1250mm

4) Printing speed:0-8000mm/min

5)PCB adjustable range: Front/side±10mm

6)Print table height: 850±20mm

7)Repeat accuracy: ±0.01mm

8)PCB fixed system:outside/Reference hole

9)Packing size:L2150*W960*1000mm

10)Approx packing weight: 486kg



1) Size of product: 300mm (stainless steel material)

1) Size of product: 400mm (stainless steel material)

Item 17

full-automatic online PCB printer: G101 model



1)Screen frames: 737*737mm(min size), 1100*850mm(Max size), thickness: 12-40mm

2)PCB Max size: 850L*510mmW

3)PCB Min size: 100L*65mmW

4)PCB thickness: 0.4-8mm

5) PCB warpage: Max 1%

6) Transport Height: 900+/-40mm

7)Transport Direction: L to R / R to L /L to L/R to R

8)Transport Speed: 1500mm/s(max) and program control speed

9)Transport way: One stage

10)Conveyor width adjustment: auto adjust

- 11)PCB location: the Support system use magnetic Pin / Support Block / Automatic Up-down table. the clamping system use side clamping /Vacuum Nozzle
- 12)Print head: Two independent motorised printheads
- 13)Squeegee Pressure: 0.5-30kg (program control)
- 14)Print Speed: 5-150mm/ sec
- 15)Print Mode: one/ Twice printing
- 16)Cleaning system: Roller ethanol daub device, dry,wet,vacuum three modes
- 17)CCD FOV: 8*6mm
- 18)Machine adjustment: X: +/-10mm, Y:+/-10mm,
- 19)Vision system: Look Up/ Down Optics Structure/CCD/ Geometry Pattern-match
- 20)Control Method: PC control
- 21) Machine Dimensions: 1600L*1550*1550mm, 1500kg

Item 18

AOI off-line test system: A500 model

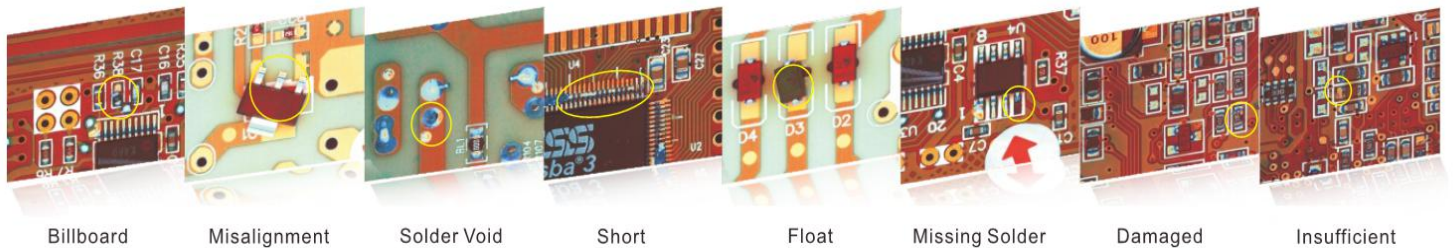
A500 model



- 1)Use for test the PCB board after reflow
- 2)Test Method: Many leading international algorithms such as TOC, Histograms, Match, Short, OTHER, CREST, PIN algorithms, auto set parameters according to different test dots.
- 3) Camera: Intellectualized digital color camera
- 4)Resolution/Range/Speed:
(Standard): 15µm/Pixel FOV: 38mmX31mm (Speed)<200ms/FOV
(Option): 8µm/Pixel FOV: 20mmX16mm (Speed)<200ms/FOV
- 5)Program Mode: Manual programming, Auto frame, CAD input automatically correspond to component library
- 6)Remote control: Remote control through TCP/IP. Check, start or stop the machine, or modify the procedures at any time.
- 7)Inspection Items: Misalignment, insufficient, short, contamination, missing, skewed, billboard, mounting on side, overturn, wrong part, damaged, float, polarity, pseudo soldering, missing solder, excessive glue, solder void, solder-covering pin
- 8)Special Features: Multiple program running simultaneously(support auto change program); Checking 0-359°components(unit:1°)
- 9)Minimum Component &pitch: 8µm:01005 chip &0.3pitch IC
- 10)SPC and program control: Statistic and analysis of all test data ,check production and quality analysis anywhere, can output Excel, Txt file
- 11)Barcode System: Camera can read and transfer the Barcode automatically(one-dimension or two dimension),Multi-Mark function (including Bad Mark)
- 12)Server Mode: Administrative data from many AOI through center server
- 13)Operation System: Windows 7 Professional

- 14) Display/Output: 22inch TFT LCD
- 15) PCB size: 50×50mm(Min)~430×330mm(Max)
- 16) PCB thickness: 0.3 to 5 mm
- 17) Clamping System Edge Clearance: TOP: 3.5mm Bottom: 3.5mm
- 18) PCB weight: 3KG
- 19) PCB Tolerance: <5mm or 2% of PCB diagonal length
- 20) PCB Height: PCB (Top Side): 30mm, PCB (bottom side): 60mm
- 21) Conveyor: Automatic clamp, Automatic compensation to avoid distortion
- 22) Conveyor height: 850 to 920mm
- 23) Conveyor Direction: Left→ right or right→left
- 24) X/Y Driver: Screw and AC servo driver, PCB fixed, Camera in XY, approved with CTQ
- 25) Power Supply: AC230V 50/60 less than Hz 0.5KVA
- 26) Dimension: 900x1070x1310mm (LxWxH), about 550kg
- 27) Humidity: 10~35 °C 35~80% RH (no dew)
- 28) Certificate: According with CE standard

Part of Defect Cases



Item 19

AOI on-line test system: A700 model

A700 model



1) testing PCB after printing, before reflow and after reflow

2) Test Method: Many leading international algorithms such as TOC, Histograms, Match, Short, OTHER, CREST, PIN algorithms, auto set parameters according to different test dots.

3) Camera: Intellectualized digital color camera

4) Resolution/Range/Speed:

(Standard): 15µm/Pixel FOV: 38mmX31mm (Speed)<200ms/FOV

(Option): 8µm/Pixel FOV: 20mmX16mm (Speed)<200ms/FOV

5) Program Mode: Manual programming, Auto frame, CAD input automatically correspond to component library

6) Remote control: Remote control through TCP/IP. Check, start or stop the machine, or modify the procedures at any time.

7) Inspection Items: Solder printing: Absence presence, misalignment, insufficient, overflow, open, bridge, contamination etc.

Component defects: Missing, misalignment, skewed, billboard, mounting on side, overturn, wrong part (OCV), damaged, reversed etc.

Solder defects: Overflow, insufficient, pseudo soldering, bridge, contamination etc.

- 8)Special Features: Support auto change program test, multi boards and multi programs test, two sides of programs test
- 9)Minimum Component &pitch: 8μm:01005 chip &0.3pitch IC
- 10)SPC and program control: Statistic and analysis of all test data ,check production and quality analysis anywhere, can output Excel, Txt file
- 11)Barcode System: Camera can read and transfer the Barcode automatically(one-dimension or two dimension)
- 12)Server Mode: Administrative data from many AOI through center server
- 13)Operation System: Windows 7 Professional
- 14)Display/Output: 22inch TFT LCD
- 15)PCB size: 50×50mm(Min)~430×330mm(Max)
- 16)PCB thickness: 0.3 to 5 mm
- 17)Clamping System Edge Clearance: TOP: 3.5mm Bottom: 3.5mm
- 18)PCB weight: 3KG
- 19)PCB Tolerance: <5mm or 2% of PCB diagonal length
- 20) PCB Height: Top Side:30mm, Bottom side: 85mm
- 21)Conveyor: Bottom-up fixed, Automatic compensation to avoid distortion, auto-load and unload, flat belt, adjust the width automatically
- 22)Conveyor height: 890 to 980mm
- 23)Conveyor Direction: Left→ right or right→left
- 24)X/Y Driver: Screw and AC servo driver, PCB fixed, Camera in XY, approved with CTQ
- 25)Compressed Air: 0.4-0.8Mpa
- 26)Equipment Communication: Smema
- 27)Power Supply: AC230V 50/60 less than Hz 0.5KVA
- 28)Dimension: 900x1300x1600mm (LxWxH), about 700kg
- 29)Humidity: 10~35 °C 35~80% RH (no dew)
- 30)Certificate: According with CE standard

Item 20



Full automatic Welding repair system

Include :ASR500I technical parameters

- 1) Test the PCB board after wave soldering
- 2)Inspection Items

Component Test: Missing part, reversed, misalignment, clubfoot of AOI component, wrong part (OCV), wetting, excessive glue, damaged

Soldering Test: Overflow, insufficient, mounting on side, billboard, bridge, pseudo soldering, lifted leads, soldering after solder wave(including DIP)

- 3)Special Functions:Read barcode automatically ,multi boards and multi programs test, two sides of programs test

- 4)PCB Size : 50×50mm(Min)~510×460mm(Max)

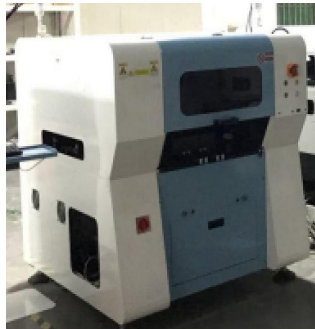
Inlcude :ASR500H Selected Coating Preheating

- 1) Spray Feature : Nozzle imported via Germany, high precision and reliability, available for spot spray and line spray
- 2) PCB Size : 50×50mm(Min)~510×460mm(Max)
- 3) Maximum PCB Weight : 15kg
- 4) Conveyor System: Bottom-up fixed, Automatic compensation to avoid PCB distortion, auto-load and unload, roller conveying, adjust the width automatically
- 5) Equipment Communication: Smema or extensible Smema agreements

Include: ASR500S Soldering Module

- 1) Soldered Board : Repair after solder wave
- 2) Repair Method : Spot soldering and drag soldering
- 3) Program Mode : Manual programming, auto programming, CAD input automatically correspond to component library.
- 4) Inspection Items : Overflow, insufficient, mounting on side, billboard, wrong part, pseudo soldering, lifted leads, solder balls, pin plug
- 5) PCB Size: 50×50mm(Min)~510×460mm(Max)
- 6) Conveyor System : Bottom-up fixed, Automatic compensation to avoid PCB distortion, auto-load and unload, roller conveying, adjust the width automatically

Item 21



Using for auto label paste on FPCB/PCB board in SMT line

high precision Auto online label pasting machine : X3 model

- 1) Control System: industrial personal computer with LCD control panel.
- 2) X/Y/R/Z axis device system with high performance Panasonic servo Motor
- 3) X Y control model: Full closed loop control mode
- 4) Placement Speed: 2400 PCS/Hour
- 5) Accuracy: +/-0.09mm
- 6) Placement head: Dual placement Head
- 7) Resolution of R-Axis: 0.01/Pulse
- 8) Programming: Visual programming in line and off line
- 9) Top CCD camera: auto identify mark point, auto adjust position
- 10) Base CCD camera: auto identify part and pick up position
- 11) Feeder Slot: 2
- 12) Transfer System: conveyor
- 13) Conveyor High: 910+/-30mm
- 14) Direction: L to R or R to L
- 15) PCB max size: 50*50-330*330mm
- 16) Suitable Label size: 4*4-60*60mm with different color
- 17) suitable PCB thickness: 0.4-8mm
- 18) with Standard SMEMA port
- 19) Air: 0.6 MPA +/-0.1
- 20) Power: 2500W

21)Wight: 1000kg
 22)Dimension: L1100*W1250*H1450mm

Item 22

Double head PCB hot bar machine



- 1) intelligent man-machine interface, PLC control system, the equipment is stable and reliable.
- 2) the use of titanium alloy head, after high temperature end surface deformation is not easy, to ensure production quality
- 3) rotating turntable table, pulse heating, can be sub-set temperature, real-time display of temperature curves.
- 4) The program can store 20 set of parameters, and set the password protection, the system self-test, fault alarm display.
- 5)dual-pressure head, four stations on four imaging alignment system to ensure that products on the position clear, and accurate.
- 6)Working environment: 10-60 °C, 40% ~ 95%
- 7)Heating settings: a to four paragraphs
- 8)Temperature settings: RT ~ 450 °C
- 9) pressing time: 1 ~ 99 s
- 10)Hot accuracy: ± 0.02mm
- 11) indenter Size: Max: 70mm (according to customer products produced indenter)
- 12)bonding pressure range Min 2 --- Max 40 kg
- 13)Dimensions: 850mm (L) × 850mm (W) × 1440mm (H)
- 14) Weight: about 369Kg

Suitable for high-density FPC / FFC and PCB hot welding production process

Item 23

Automatic PCB lead cutter



- 1) Size of machine: 900L *670W*800H mm
- 2)Max PCB working size: 500L*300W mm
Min.lead height: 1.0mm min
- 3)Feeding Speed: 0-3 M adjustable
- 4) HP :3/4 HP
- 5)RPM of Spindle: 4500
- 6)include one set of blade in the machine
- 7)Power: 220V 50/60 HZ
Packing Weight: 162KGs





Using for cutting PCB foot

Item 24

AGV car



- 1)Smart cooling system, you can cool the carrier going through the oven.
- 2)Ergonomic design to lower labor intensity
- 3)reduce the quantity of carries to save cost
- 4)machine size: L750mm*W460mm*H510mm
- 5)loading capacity: ≅ 50KG
- 6) model: HY-50A
- 8)Min turning radius: ≧ 900mm
- 9)Linear guide accuracy:± 10mm

<p>Item 25</p>	<p>1.2M LED Bare board loader (vacuum pick up type)</p>
	<ul style="list-style-type: none"> 1) Include pass-through function, can as the conveyor 2) External dimension: L1350*W1185*H1680mm 3) PCB Size: L1200*W390MM 4) PCB volume: 100 PCS 5) Transport Height:900 ±30mm 6) Direction from left to right or right to left(option) 7) Air press:4-6 bar 8) PLC control system 9) LED TFT touch screen control panel
<p>Item 26</p>	<p>Standard PCB cleaner</p>
	<ul style="list-style-type: none"> 1) PLC control system 2) LED TFT touch screen control panel 3) PCB Size:50*50mm - 350*330mm 4) External dimension: L600mm*W980mm*H1200mm 5) Transport speed: 0-17.5M/min 6) Direction from left to right or right to left(option) 7) Using the electrostatic dust precipitator, auto induction and release the positive and negative ions 8) with the anti-static brush to clean
<p>Item 27</p>	<p>Standard PCB loader HY-250LD/330LD/390LD</p>
 	<ul style="list-style-type: none"> 1) LED TFT touch screen control panel 2) PLC control system 3) Four step pitches selectio (10、 20、 30、 40mm) 4) Direction from left to right or right to left(option) 5) Standard SMEMA 6) 2 magazines loading capability 7) Voltage: 100-230V/50HZ(custom) 8) Transport Height:920±20mm 9) External Dimension/ Max PCB size/Model NO. : <p>1200*780*1200mm / (50*50)~(350*250mm) / 250LD</p> <p>1400*860*1200mm / (50*50)~(455*330mm) / 330LD</p> <p>1500*920*1200mm / (50*50)~(530*390mm) / 390LD</p>

10)rack shelf stack size / machine approx weight :

355*320*565mm / 140kg/ 250LD

460*400*565mm / 180kg/ 330LD

535*460*565mm / 220kg/ 390LD

Item 28

Standard PCB unloader

HY-250ULD/330ULD/390ULD



- 1)LED TFT touch screen control panel
- 2) PLC control system
- 3)Four step pitches selectio (10、 20、 30、 40mm)
- 4)Direction from left to right or right to left(option)
- 5)Standard SMEMA
- 6)2 magazines loading capability
- 7)Voltage:100-230V/50HZ(custom)
- 8)Transport Height:920±20mm

9)External Dimension/ Max PCB size/Model NO. :

1700*780*1200mm / (50*50)~(350*250mm) / 250ULD

1900*860*1200mm / (50*50)~(455*330mm) / 330ULD

2200*920*1200mm / (50*50)~(530*390mm) / 390ULD

10)rack shelf stack size / machine approx weight :

355*320*565mm / 160kg/ 250ULD

460*400*565mm / 200kg/ 330ULD

535*460*565mm / 240kg/ 390ULD



Item 29

stacking unloader :HY-460 bare board LD



- 1)LED TFT touch screen control panel
 - 2) Mitsubishi PLC control system import from Japan and loading time less 5 sec
 - 3)Pass through function to sent the PCB boards continuously.
 - 4)Stander SMEMA and CE certify
 - 5)Voltage:100-230V/50HZ(custom)
 - 6)Transport Height:920±20mm
 - 7)Direction from left to right or right to left(option)
 - 8)External Dimension/ Max PCB size :
- 650*680*1200mm / (50L*50mmW*)-(500L-460mmW)

Item 30**Automatic vacuum loader:****HY-390 Vacuum loader**

- 1)LED TFT touch screen control panel
- 2) PLC control system and loading time less 5 sec
- 3)Sheet feeding panel has changed to the up and down design
- 4)Flexible sucker design,high pressure sorption
- 5)Independent vacuum sounder,high efficiency and reliable for sheet feeding.
- 6)The main pneumatic components are imported products
- 7) Standard SMEMA
- 8) PCB volume: 400 sheetd(0.6mm pcb)
- 9)cycle time: about 8s
- 10)Air press and flow rate: 4-6bar, \cong 10L/min
- 11) Direction from left to right or right to left(option)
- 12)External Dimension/Model NO. :
600L*950W*1200Hmm/390 vacuum loader
- 13)Max PCB size:(50*50mm)—(L500*W390mm)
- 14)Weight: approx. 185kg

Item 31**Auto combined loader&unloader:****HY-250LD/330LD/390LD**

- 1)LED TFT touch screen control panel
- 2) PLC control system
- 3)Four step pitches selectio (10、 20、 30、 40mm)
- 4)With the function of suction and sending PCB board
- 5)With the special structure of anti clamping plate and foolproof
- 6)Direction from left to right or right to left(Standard)
- 7) Loading time: around 6s
- 8)Magazine changing time: around 20s
- 9)Air press and flow rate: 4-6bar, \cong 10L/min
- 10)PCB thickness: \cong 0.4mm
- 11) Direction from left to right or right to left(option)
- 12)Magazine Qty: 2 Matarial Box
- 13)Step: 1-4(10mm gap)
- 9)External Dimension/ Max PCB size/Model NO. :

1600*850*1200mm / (50*50)~(350*250mm) / 250LD
 2000*950*1200mm / (50*50)~(455*330mm) / 330LD
 2250*1050*1200mm / (50*50)~(530*390mm) / 390LD
 10)rack shelf stack size / machine approx weight :
 355*320*565mm / 140kg/ 250LD
 460*400*565mm / 180kg/ 330LD
 535*460*565mm / 220kg/ 390LD

Item 32

NG/OK unloader:HY-250/330/390 OK/NG ULD

- 1)LED TFT touch screen control panel
- 2) PLC control system
- 3)Automatic storage of OK/NG PCB
- 4)Connections on the back of the AOI to separate the good board and bad board on production line
- 5)Direction from left to right or right to left(Standard)
- 6) Loading time: around 6s
- 7)Magazine changing time: around 30s
- 8)Air press and flow rate: 4-6bar, ≅ 10L/min
- 9)PCB thickness: ≅ 0.4mm
- 10) Direction from left to right or right to left(option)
- 10) Direction from left to right or right to left(option)
- 12)Step: 1-4(10mm gap)
- 13)External Dimension/Model NO. :
 1460L*1500W*1200Hmm/250 OK/NG ULD
 1460L*1610W*1200Hmm/330 OK/NG ULD
 1460L*1720W*1200Hmm/390 OK/NG ULD
- 14)Max PCB size:(50*50mm)—(L350*W250mm)
 Max PCB size:(50*50mm)—(L455*W330mm)
 Max PCB size:(50*50mm)—(L530*W390mm)
- 15)rack shelf stack size / machine approx weight
 355*320*565mm / 210kg/ 250LD
 460*400*565mm / 255kg/ 330LD
 535*460*565mm / 290kg/ 390LD



Item 33

Automatic dual track unloader:HY-250 dual rail ULD

- 1)LED TFT touch screen control panel
- 2) PLC control system
- 3)Automatic storage of OK/NG PCB
- 4)Connections on the back of the AOI to separate the good board and bad board on production line
- 5)Direction from left to right or right to left(Standard)
- 6) Loading time: around 6s
- 7)Magazine changing time: around 30s
- 8)Air press and flow rate: 4-6bar, \cong 10L/min
- 9)PCB thickness: \cong 0.4mm
- 10) Direction from left to right or right to left(option)
- 11)Step: 1-4(10mm gap)
- 12)External Dimension/Model NO. :
1460L*1500W*1200Hmm/250 dual rail ULD
- 13)Max PCB size:(50*50mm)—(L350*W250mm)
- 14)rack shelf stack size / machine approx weight
355*320*565mm / 210kg/ 250 dual rail ULD



Item 34

OK/NG Dual track unloader: HY-250 NG/OK dual rail ULD

- 1)LED TFT touch screen control panel
- 2) PLC control system
- 3)Automatic storage of OK/NG PCB
- 4)Connections on the back of the AOI to separate the good board and bad board on production line
- 5)Direction from left to right or right to left(Standard)
- 6) Loading time: around 6s
- 7)Magazine changing time: around 30s
- 8)Air press and flow rate: 4-6bar, \cong 10L/min
- 9)PCB thickness: \cong 0.4mm
- 10) Direction from left to right or right to left(option)
- 11)Magazine Qty: 2 Material Box
- 12)Step: 1-4(10mm gap)
- 13)External Dimension/Model NO. :
1250L*1430W*1200Hmm/250 NG/OK dual rail ULD
- 14)Max PCB size:(50*50mm)—(L350*W250mm)



15) rack shelf stack size / machine approx weight
355*320*565mm / 210kg/ 250 dual rail ULD

Item 35

Layer or receiving machine: HY-390/460/510 bare board ULD



- 1) LED TFT touch screen control panel
- 2) PLC control system and loading time less 5 sec
- 3) using T screw to adjust the width smoothly
- 4) Stander SMEMA
- 5) Voltage: 100-230V/50HZ (custom)
- 6) Transport Height: 920±20mm
- 7) Direction from left to right or right to left (option)
- 8) External Dimension/Model NO. :
600L*650W*1200Hmm/460 bare board ULD
- 9) Max PCB size: (50*50mm)—(L500*W460mm)
- 10) Weight: approx. 200kg

Item 36

automatic shuttle conveyor: HY-460 Shuttle conveyor



- 1) PLC control system
- 2) LED TFT touch screen control panel
- 3) With the functions of one into two out/out into one out/two into two out/pass through directly.
- 4) Photoelectric sensor control the starting
- 5) Standard SMEMA
- 6) External dimension:
600L*1500W*1100Hmm (single track)
Max PCB size: (50*50mm)—(L500*W460mm)
- 7) External dimension:
600L*(1500-3000)W*1100Hmm (single track)
Max PCB size: (50*50mm)—(L500*W460mm)
- 8) External dimension:
600L*(3000-4500)W*1100Hmm (single track)
Max PCB size: (50*50mm)—(L500*W460mm)
- 9) Transport Height: 920±20mm
- 10) Direction from left to right or right to left (option)
- 10) 2 moving orbit in it.

11)the moving orbit width adjustment:50~ 390/460/510mm

Item 37

Efficient Buffer machine:HY-250/390Buffer



without conveyor

- 1) PLC control system
- 2)LED TFT touch screen control panel
- 3)Fifo,lifo,NG/OK and direct operating modes
- 4)conveyor before and after can be optional according to customer requirements
- 5)Voltage:100-230V/50HZ(custom)
- 6)Transport Height:920±20mm
- 7)Direction from left to right or right to left(option)
- 9)PCB thickness: \geq 0.4mm
- 12)Step: 1-4(10mm gap)
- 13)Boards volume: 20 Pcs
- 9)External Dimension/ Max PCB size/Model NO. :
500*920*1200mm / (50*50)~(400*250mm) / 250buffer
600*920*1200mm / (50*50)~(500*390mm) / 390buffer
- 10)Weight: approx.225kg/240kg

Item 38

automatic inverting machine:HY-390/460/510 inverter



- 1) PLC control system
- 2)LED TFT touch screen control panel
- 3)Rotating power switch to 180 degree rotating cylinder,runs more smoothly than traditional motors
- 4)Pass through function
- 5)Optical sensors to control the starting and ending
- 6) Standard SMEMA
- 7)Voltage:100-230V/50HZ(custom)
- 8)Transport Height:920±20mm
- 9)Direction from left to right or right to left(option)
- 10)PCB thickness: \geq 0.4mm
- 11) Max PCB size:(50*50mm)—(L500*W460mm)
- 12)External Dimension/Model NO. :
600L*900W*1200Hmm/460 inverter
- Weight: approx.165kg

Item 39

Telescopic lifting conveyor :HY-460 lifting conveyor



- 1) PLC control system
- 2) LED TFT touch screen control panel
- 3) 0.6M can be set aside as the aisle position
- 4) High safety performance, multiple photoelectric switch to detect the corridor through
- 5) Standard SMEMA
- 6) Voltage: 100-230V/50HZ(custom)
- 7) Transport Height: 920±20mm
- 8) Direction from left to right or right to left(option)
- 9) PCB thickness: ≥ 0.4 mm
- 10) cycle time: about 20s
- 11) Electric load: Max 300V
- 13) Flow rate: ≤ 10 L/min
- 14) Max PCB size: (50*50mm)~(L500*W460mm)
- 12) External Dimension/Model NO. :
1000L*1000W*1200Hmm/460 lifting conveyor
- 16) Approx weight: 200kg

Item 40

0.5-1.5M Conveyor






- Model 1: conveyor HY-460 - 1000mm (for 2 stopping PCB boards)
- Model 2: conveyor HY-460 - 1500mm (for 3 stopping PCB boards)
- Model 3: conveyor HY-460-500mm (for 1 stopping PCB boards)
- Model 4: conveyor HY-460-700mm (for 1 stopping PCB boards)
- Model 5: conveyor HY-460-1000mm (for 1 stopping PCB boards)

- 1) With thick sheet metal rack, sedate solid
- 2) Using T screw to adjust the width smoothly
- 3) Standard SMEMA
- 4) width control: 50~460mm and speed control

include upgrade equip as following:

- 1. E-Stop
 - 2. Main switch
 - 3. Start/Stop button
 - 4. European plug
- 5) with 2/3 sensors in exit and the entrance
 - 6) Transport Height: 920±20mm
 - 7) Direction from left to right or right to left(option)
 - 8) Max PCB size: (50*50)~(460*460)

	<p>9)External dimension:</p> <p>Model 1: L1000 *W860*H930mm, 162kg</p> <p>Model 2: L1500 *W860*H930mm, 128kg</p> <p>Model 3: L500* W860*H930mm, 98kg</p> <p>Model 4: L700 * W860*H930mm, 115kg</p> <p>Model 5: L1000 * W860*H930mm, 123kg</p>
<p>Item 41</p>	<p>0.5-1.0M Dual track conveyor</p>
 <p>include upgrade equip as following:</p> <p>1.E-Stop</p> <p>2.Main switch</p> <p>3.Start/Stop button</p> <p>4. European plug</p>	<p>Model 1: conveyor HY-460-500mm (for 1 stopping PCB boards)</p> <p>Model 2: conveyor HY-460-700mm (for 1 stopping PCB boards)</p> <p>Model 3: conveyor HY-460-1000mm (for 1 stopping PCB boards)</p> <p>1)with thick sheet metal rack,sedate solid</p> <p>2)Adopt green anti-static belt</p> <p>3)Customize the length of the machine according to customer's requirement</p> <p>4)customize the quantity of stopping PCB boardd according to customer's requirement.</p> <p>5)Customize the lighting equipment according to customer's requirement</p> <p>6)Optional circuit board testing mode</p> <p>7)Standard SMEMA</p> <p>8)width adjustment:50-460mm</p> <p>9)Conveyor height:920±20mm (customized)</p> <p>10)Direction from left to right or right to left(option)</p> <p>15)machine size: L(0.5-1.5M)*W (1360-1480)*930Hmm</p> <p>16)Max PCB size:(50*50mm)—(L460*W460mm)</p> <p>17)Approx weight: 100kg-178kg</p>
<p>Item 42</p>	<p>Custom-made double track Shuttle Conveyor</p>
	<p>1) PLC control system</p> <p>2)LED TFT touch screen control panel</p> <p>3)With the functions of one into two out/out into one out/two into two out/pass through directly.</p> <p>4) Photoelectric sensor control the starting</p> <p>5)Standard SMEMA</p> <p>6) Max PCB size:(50*50mm)—(L500*W390mm)</p> <p>7)External dimension: L600*W(3000-4800)*H1200mm</p> <p>8)Transport Height:920±20mm</p>

	<p>9)Direction from left to right or right to left(option)</p> <p>10) 2 moving orbit in it.</p> <p>11)the moving orbit width adjustment:50~ 300mm</p>
Item 43	90 degree turn conveyor
	<p>1) PLC control system</p> <p>2)LED TFT touch screen control panel</p> <p>3)PCB Size:50 - 350mm</p> <p>4)Transport Height:900 ±20mm</p> <p>5)Max size of PCB: L500*W390mm</p> <p>6)Weight adjusting range:50~390mm</p> <p>7)The Max diameter of rotating:φ650mm</p> <p>8)Air press:4-6 bar</p> <p>9)PCB Direction:left to right (option: right to left)</p> <p>10)Turning Direction:90° clockwise (option: 90° counter clockwise)</p> <p>11)Machine Size: 700 x 750 x 1200mm</p> <p>12)Power Supply:AC 110/230V ±10V, 50/60HZ one-phase</p>
<p>Item 44: customize pick and place machine feeder/nozzle, customize fixture, customize machine blade,machine part and so on</p>	

Note:different machine will have some updated and some customize other automatic machine please sent the inquiry to :info@ascen.us

Terms and Conditons:

- 1) **Date of Quote: 2017-11-2**
- 2) **Expired Date: 2018-08-30**
- 3) **Delivery Time: 30 days**
- 4) **Term of Delivery: EX-Work**
- 5) **Term of Payment: TT in advance**
- 6) **Warranty for One Year**
- 7) **With CE certify**