

Wenzhou SMALL Technology co. Itd

VP-2800HP-CL64-4RCV

3-zone conveyour including SMEMA interfaces on both sides integrated!



PROFESSIONAL PICK AND PLACE MACHINE PROVIDER

V1.0 20.09.2021

www.smallsmt.biz

Parts delivered

Full working machine including:

push feeder, pcb holder, vision system 2x USB2 3MP cameras, 1x USB3 1,3MP bottom camera, small spare parts, 2 pcs spare stepper controller, machine calibration on DVD, Z-axis sensor, conveyor, manuals and software setup need to get downloaded from website, big IC tray, USB to serial converter.

Optional:

Nozzles, vibration feeder, CL feeder cassettes, strip feeder, dipping station

| Product parameter | | | | |
|-----------------------------|---|--|--|--|
| Model | VP-2800HP-CL64-4RCV | | | |
| Mounting area | 320x300mm maximum 300x600mm if zone 1 and zone 3 not used for parking PCB's | | | |
| XY moving range | 665x655mm | | | |
| Z moving range | 20mm | | | |
| Number of heads | 4 | | | |
| Resolution XY, Z, A | 0.025mm, 0.025mm, 0.0125° (360°) placement pitch >=0.45mm | | | |
| Motor type | AC Servo 400W / 1000W | | | |
| Positioning mechanics | Ballscrew system HIWIN 0,03mm precision over 300mm travel | | | |
| Machine guide lines | HIWIN linear guide lines | | | |
| Positioning system | Closed loop encoder coupled to ballscrew spindle | | | |
| Placement speed with vision | 2000 to 4500cph | | | |
| Nozzle changer | optional 19 slot nozzle changer under development! | | | |
| Nozzle type | Samsung CP45 NEO | | | |
| Vision system | 1 top and 2 bottom USB cameras using different optics | | | |
| Alignment modes | area centering and vision model based assistance | | | |
| Placement range | 0201 to 40x40mm | | | |
| Feeder types | CL feeder, strip feeder, trays | | | |
| CL Feeder slots | 2x 32x 8mm cassettes slots South / North total 64 CL feeder slots | | | |
| Push feeder count | not possible | | | |
| Vibration feeder | not possible | | | |
| JEDEC Tray | 2x Jedec tray holder included | | | |
| Dispenser Option | optional dispenser option on head 4 | | | |
| Machine dimensions | 1300x1100x570mm | | | |
| Machine weight | 205kg | | | |
| Shipping weight | 255kg | | | |
| Shipping size | 1380*1190*750mm | | | |
| PCB Transport | 3 Zone conveyour including 2 side SMEMA interface | | | |
| Power supply | AC 230V / 110V | | | |
| Air supply | External oil and water free 110L/min at 6Bar | | | |
| | Integrated 3 pressure regulator for push feeder, vacuum generator | | | |
| | and CL feeder bank | | | |
| Warranty | 12 Months parts exchange including shipping fee excluding | | | |
| | consumables like nozzles and belts. | | | |
| | | | | |

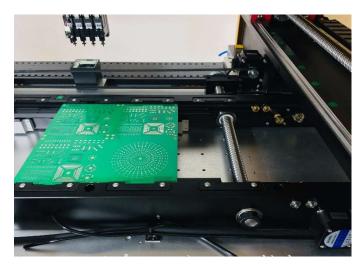
Customer need to exchange parts on machine.

For detailed pictures and videos please visit our website.

Camera specifications

| | Top camera | Bottom camera 1 | Bottom camera 2 |
|--------------------|-------------------------|----------------------|-------------------------|
| Model | UB300C | SUA134GC-T | UB300C |
| USB type | USB2.0 | USB3.0 | USB2.0 |
| Sensor | 1/2"CMOS | 1/2"CMOS | 1/2"CMOS |
| Shutter type | Rolling shutter | Global shutter | Rolling shutter |
| Camera Type | Color camera | Color camera | Color camera |
| Pixel size | 3.2X3.2μm | 4.8*4.8μm | 3.2X3.2μm |
| Picel count | 3MP | 1,3MP | 3MP |
| Resolution + frame | 2048X1536@12.8FPS | 1280X1024@241FPS | 2048X1536@12.8FPS |
| Color depth | 10bit | 8bit | 10bit |
| Sensitivity | 1.0V/lux-s 550nm | 7.3V/lux.s 540nm | 1.0V/lux-s 550nm |
| Acquisition mode | Continuity/soft trigger | Continuity/soft | Continuity/soft trigger |
| | | trigger/hard trigger | |
| Focal length | 12mm (distortion 1%) | 12mm (distortion 1%) | 12mm (distortion 1%) |

This machine has high speed camera system and can adjust 4 heads at the same time!



Integrated 3-zone conveyor unit

Optional dipping station

SMEMA compatible connectors for synchronisation on input and output side!

