

Wenzhou SMALL Technology co. Itd

# VP-2800HP-CL64-4R



### PROFESSIONAL PICK AND PLACE MACHINE PROVIDER

V1.5 10.10.2021

## www.smallsmt.biz

Company registration number: 91330381MA285PEJ8R, Address: 202 B,Nan Bingjiang Building, Xinfeng Village, Feiyun Town, Rui'an City, Wenzhou City, Zhejiang Province, China 365207

#### **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, manuals and software setup need to get downloaded from website, big IC tray, USB to serial converter.

#### **Optional:**

Nozzles, vibration feeder, CL feeder cassettes, 19 slot nozzle changer, strip feeder, dipping station

Product parameter				
No. 1.1				
Model	VP-2800HP-CL64-4R			
Mounting area	350x300mm maximum 600x400mm (using custom PCB holder)			
XY moving range	665x655mm			
Z moving range	32mm (2021 model), Z-axis sensor tip included			
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 5500cph			
Nozzle changer	optional 19 slot nozzle changer			
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, closed loop			
Placement range	0201 to 40x40mm			
Feeder types	Push feeder, CL feeder, vibration feeder, strip feeder, trays			
CL Feeder slots	2x 32x 8mm cassettes slots South / North total 64 CL feeder slots			
Push feeder count	35x 8mm lines (not possible if conveyour installed!)			
Vibration feeder	Optional 4x vibration feeder using each 7x SO-8 tubes width			
JEDEC Tray	2x Jedec tray holder included			
Dispenser Option	optional dispenser option on head 4			
Machine dimensions	1300x1100x570mm			
Machine weight	185kg			
Shipping weight	235kg			
Shipping size	1380*1190*750mm			
PCB Transport	Optional 3 Zone conveyour including 2 side SMEMA interface			
Power supply	AC 230V			
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.

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#### **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 trigger/hard trigger	Continuity/soft 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!



New Z-axis sensor included to measure pickup height



**Optional dipping station unit**