

Wenzhou SMALL Technology co. ltd

RAPTOR

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



PROFESSIONAL PICK AND PLACE MACHINE PROVIDER

V1.3 09.02.2022

www.smallsmt.biz

Parts delivered

Full working machine including:

3-Zone conveyor, vision system 2x USB2 3MP cameras, 1x USB3 1,3MP bottom camera, nozzle changer small spare parts, 2 pcs spare stepper controller, machine calibration on DVD, industrial PC inside, manuals need to get downloaded from website, Software installed, 5 free nozzles.

Optional:

Nozzles, CL feeder cassettes

Product parameter				
B d a d a l	DADTOD in alcoding a industrial Mindows 10 DC IF MI AN			
Model	RAPTOR including industrial Windows 10 PC, I5, WLAN			
Mounting area	280x320mm maximum 280x600mm if zone 1 and zone 3 not used for parking PCB's			
XY moving range	665x655mm			
Z moving range	60mm, Z-axis sensor tip included			
Number of heads	8			
Resolution XY, Z, A	[X]0.01mm, [Y] 0.01mm, [Z] 0.0083mm, [A] 0.03125° (360°) placement pin pitch \geq 0.4mm			
Motor type	AC Servo 600W / 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 8000cph			
Nozzle changer	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	CL 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	not possible			
Machine dimensions	1385x1260x1310mm			
Machine weight	600kg			
Shipping weight	680kg			
Shipping size	1440x1340x1530mm			
PCB Transport	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 pump			
	and CL feeder bank			
Warranty	12 Months parts exchange including shipping fee excluding			
	consumables like nozzles and belts.			

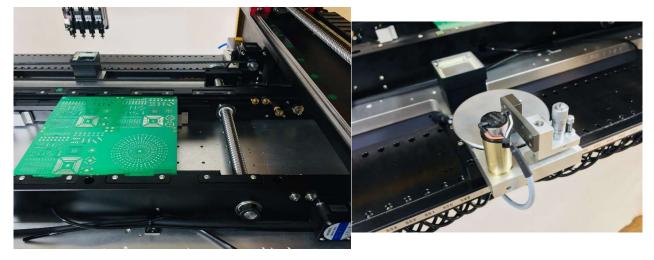
Customer need to exchange parts on machine.

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 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 8 heads at the same time!



Integrated 3-zone conveyor unit

Optional dipping station

SMEMA compatible connectors for synchronisation on input and output side!

