

## CSM7100/-V Fully Automatic SMD Pick+Place

### 1. General Data

Overall Measures	CSM7000	CSM7100V
Feeder capacity	100x8 mm intelligent tape feeders, 160xSOIC16 stick feeder capacity	95X8 mm intelligent tape feeders, 152xSOIC16 stick feeder capacity
Footprint (LxW)	800x800 mm (31.5x31.5")	
Operating floor space requirement (LxW)	1'320x1'250 mm (52.0x49.2")	
Height	table top with stand	770 mm / 30.3" 1'600 mm / 63"
Weight (without Feeders)	table top with stand	90 kg / 198 lb 200 kg / 441 lb
Noise level	70 dB (A) maximum	

Requirements	
Electrical connection	230 V, 50 Hz or 110 V, 60 Hz
Power consumption	1 kW
Compressed air supply	5-7 bar, clean, dry, oil free, filtered 2 µm, connection diameter 8 mm
Air consumption	40 Ltr/min
Environment	15-25°C, 50-70% relative humidity

### 2. Process Data

Alignment Method	
Cyberoptics laser alignment	Component outline, size control, on-the fly
Automatic fiducial recognition	PCB fiducials

Component Range and Accuracy	CSM7100	CSM7100V
Laser centring	0402 – 33x33 mm	0402 – 33x33 mm
Vision centring	---	10x10 mm – 35x35 mm
Component height	0.25 mm to 10 mm* / 15 mm**	max. 10 mm* / 15 mm**
Minimum Lead Pitch	0.5 mm / 20 mil	0.5 mm / 20 mil
XYZ axis resolution	10 µm	10 µm
Rotation axis resolution	0.01°	0.01°
Placement repeatability	$\sigma \leq 30 \mu\text{m}$	$\sigma \leq 30 \mu\text{m}$

\*standard \*\*optional

Productivity	
Maximum speed	4'000 cph
IPC 9850 standard PCB	3'153 cph

PCB Dimensions	
Minimum size	50x50 mm / 2x2"
Maximum size	380x250 mm / 15x9.8 "
Thickness	0.5-3.5 mm / 0.02-0.14"
Clearance below PCB	40 mm / 1.57"
Edge clearance	2 mm / 0.07"

### 3. Packing Information

Base machines	
Export packing of machines (LxWxH)	1130x1020x1480 mm
Weight (without Feeders)	Approx. 300 kg
Options and Accessories	Depending on configuration