

FLX2020 and FLX2030 SMD Pick+Place

Version 3.1, November 9, 2007

Configuration

		FLX2020	FLX2020V	FLX2030	FLX2030V
Machine base	No. of placement heads	2	2	3	3
	Signal tower (3 color)	●	●	●	●
PCB Handling	Inline conveyor	●	●	●	●
	SMEMA interface	●	●	●	●
Control and software	Industrial PC	●	●	●	●
	Windows XP	●	●	●	●
	Software Language De/En/Fr	●	●	●	●
	Remote support software	●	●	●	●
Alignment systems	Fiducial inspection vision	●	●	●	●
	Automatic fiducial recognition	●	●	●	●
	On-the-fly laser alignment system	●	●	●	●
	Cognex SMD4 vision	○	●	○	●
Dispenser	Time/pressure glue dispenser	○	○	○	○
	Archimedean screw dispenser	○	○	○	○

● standard feature ○ optional feature

Specifications

		FLX2020	FLX2020V	FLX2030	FLX2030V
Productivity	Max. placement speed / tact time	10'000 cph / 0.36 seconds		15'000 cph / 0.24 seconds	
	Speed according IPC9850	8'400 cph		12'600 cph	
	Changeover standstill time	< 1 Minute			
Feeder	Feeder capacity (8 mm tape)	200	190	300	290
	Feeder type	programmable, intelligent, cassette or single feeder			
Components	Component size range	0402 - 33x33 mm	0402 - 33x33 mm or 01005 - 20x20 mm**	0402 - 33x33 mm	0402 - 33x33 mm or 01005 - 20x20 mm**
	Max size with FLX-MFV option	not available	50x50 mm	not available	50x50mm
	Min. lead pitch	0.5 mm (20 mil)	0.3 mm (12 mil)	0.5 mm (20 mil)	0.3 mm (12 mil)
	Min. component height	0.25 mm	0 mm	0.25 mm	0 mm
	Max. component height	10 mm (15mm*)	10 mm (15 mm*)	10 mm (15 mm*)	10 mm (15 mm*)
Accuracy	Linear encoder resolution (x,y)	5 µm			
	Rotation axis resolution	0.01°			
	Placement repeatability	σ ≤ 20 µm			
PCB	Min. PCB dimensions	50x50 mm (2x2")			
	Max. PCB dimensions	400x300 mm (15.7"x11.8")			
	PCB thickness	0.5 - 3.5 mm (0.02-0.14")			
	PCB edge clearance	4 mm (0.16")			
	Clearance below PCB	40 mm (1.57")			
Machine dimensions	Machine footprint	2'280x920 mm (89.7" x36.2")		3'210x920 mm (126.3"x36.2")	
	Operating floor space	2'280x1'950 mm (89.7"x76.8")		3'210x1'950 mm (126.3"x76.8")	
	Machine height	205 cm (80.7")			
	Machine weight	500 kg (1102 lb)	500 kg (1102 lb)	750 kg (1653 lb)	750 kg (1653 lb)
	Supplies	Electrical	230V/50Hz or 110V/60Hz		
Power consumption		2 kW	2 kW	3 kW	3 kW
Compressed air		5-7 bar, clean, dry, oil free, filtered 2 µm			
Air consumption		40 Ltr./Min.			
Air connection diameter		8 mm			
Environment	Temperature	15-25°C			
	Relative humidity	50-70%			
	Noise level	70 dB (A) maximum			

*optional or on request

** 01005 and 0201 require a smaller field of view

For more information ask for the FLX2010 System Description

