

# ADVANCED FLEXIBLE MOUNTER CM-S21

## Overview

CM-S21 Adopt servo motor driven system with 1 gantry and 6 spindle , and the motion centering technique of Gigabit six flying camera, the efficiency of mounting is greatly improved, and the bus control technology with the modular cabling makes machine running fast and stably.

- Theoretical max mounting speed :18000 CPH
- Real mounting speed: around 10000 CPH
- 1 gantry\* 6 Spindles
- Applicable parts :0402~28\*22mm
- SOP.QFP (H15mm)
- Applicable PCB :Min. 50(W)\* 50(L)mm
- Max .300(W)\*500(L)mm
- High speed ,high precision and electrically driven feeder
- Feeder station: 8mm Feeder \*32pcs
- Rated power:1.5K



## ADVANCED HIGH SPEED FLEXIBLE MOUNTER CM-S21

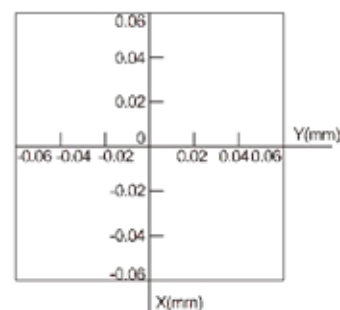
### Realizes Placement Speed of 10,000 CPH (real mounting speed)

Realizes the highest placement speed of 10000 CPH with 6 spindles as well as optimized pickup/placement motion.

### Placement Accuracy Correction System

Chip  $\pm 50\mu\text{m}$  (Cpk  $\geq 1.0$ )

The newly upgraded placement accuracy calibration system automatically checks and corrects the pickup point offset, head offset, C/V offset, etc. to allow reliable part placeme



## Reinforced Applicability to Parts and PCBs

- Applicable to parts from 0402 to 28\*22mm(H15mm) parts
- Applicable to Max. 500(L) x

## Electrically Driven Speed and High Precision Feeder



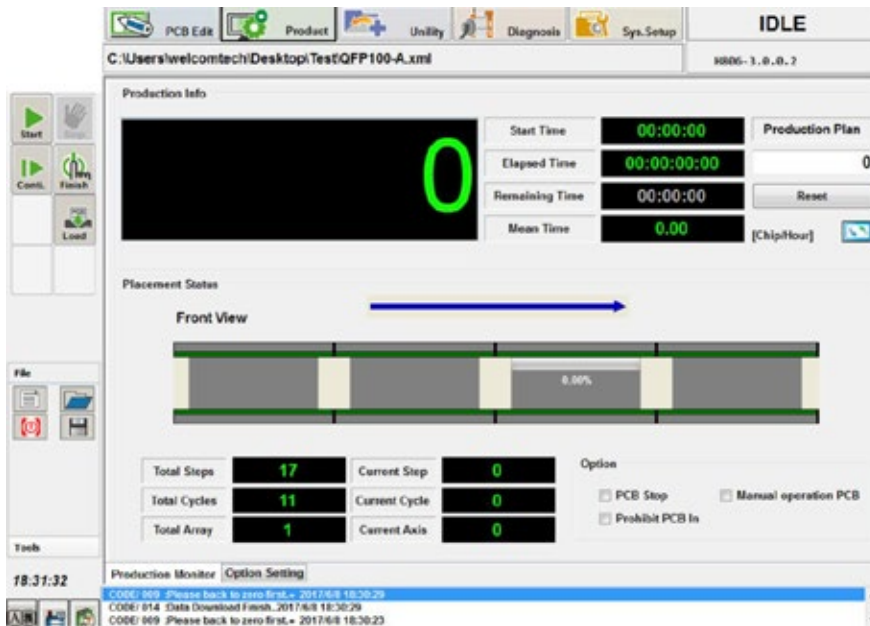
## Easy-operated Software

The software interface includes a top toolbar with icons for PCB Edit, Product, Utility, Diagnosis, and Sys. Setup. The main window displays the file path `C:\Users\welcometech\Desktop\Test\QFP100-A.xml` and the version `H806-3.0.0.2`. The status is **IDLE**.

The **Feeder Definition** table is as follows:

No.	Part	Description	Type	Push	X	Y	Z	R	PartR	Skip	Dump	Mal
1				1	0.0000	0.0000	0.0000	0.0000	0	<input type="checkbox"/>	1	Normal
2				1	16.0000	0.0000	0.0000	0.0000	0	<input type="checkbox"/>	1	Normal
3				1	32.0000	0.0000	0.0000	0.0000	0	<input type="checkbox"/>	1	Normal
4				1	48.0000	0.0000	0.0000	0.0000	0	<input type="checkbox"/>	1	Normal
5				1	64.0000	0.0000	0.0000	0.0000	0	<input type="checkbox"/>	1	Normal
6				1	80.0000	0.0000	0.0000	0.0000	0	<input type="checkbox"/>	1	Normal
7				1	96.0000	0.0000	0.0000	0.0000	0	<input type="checkbox"/>	1	Normal
8				1	112.0000	0.0000	0.0000	0.0000	0	<input type="checkbox"/>	1	Normal
9				1	128.0000	0.0000	0.0000	0.0000	0	<input type="checkbox"/>	1	Normal
10				1	144.0000	0.0000	0.0000	0.0000	0	<input type="checkbox"/>	1	Normal
11				1	160.0000	0.0000	0.0000	0.0000	0	<input type="checkbox"/>	1	Normal
12				1	176.0000	0.0000	0.0000	0.0000	0	<input type="checkbox"/>	1	Normal
13				1	192.0000	0.0000	0.0000	0.0000	0	<input type="checkbox"/>	1	Normal

The interface also features a **Teach** panel with buttons for Light, Fid\_Camera, Move, Get, Slot Move, Open/Close, Offset, Feeder arrangement, and Monolithic translation. The **Unit** is set to **Front**. A **Feeder Base** panel shows **Stick** and **Tray** options. The bottom status bar shows the time `18:33:21` and system messages.



## Specifications

Machine model	CM-S21
Alignment	Fiducial camera +mobile vision and stage vi
Number of Spindles	1 gantry *6 spindles
Driving method	X /Y/with servo motor, Z with step mo
Mounting speed	18000 CPH (max theoretical mounting speed) 10000 CPH (real mounting speed)
Component range	0402~28*22mm SOP.QFP (H15)
PCB	Min.50(w)*50(L)mm Standard : 300(W)*500(L)mm Thickness: 0.5-4m
Conveyor	Only Left to right, 900+/-20mm
Feeder station	32 pcs *8m
Placement accuracy	±50µm@µ+3σ (based on standard chips)
Power supply/air pressure	AC 220V /50HZ, 0.5~0.77Mpa
Power	1.5KW
Machine size	1310(L)*1280(W)*1420(H)mm