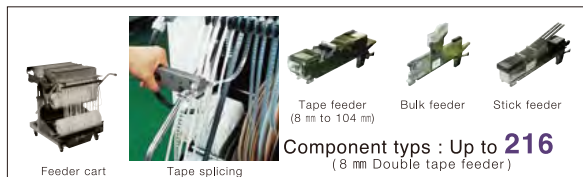




Our Solutions, Your Value

one platform solutions

Quick
changeover
capabilities

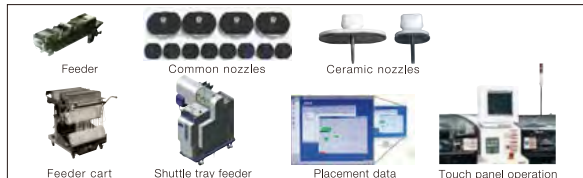


Component types : Up to **216**
(8 mm Double tape feeder)

Quick changeover capabilities include:

- Feeder cart
- Intelligent tape feeder
- Tape splicing (Component supply during operation)

High modular
compatibility



High compatibility with CM402 series realized through modular manufacturing concept.

Safety Cautions

● Please read the User's Manual carefully to familiarize yourself with safe and effective usage procedures.

● To ensure safety when using this equipment all work should be performed according to that as stated in the supplied Operating Instructions. Read your operating instruction manual thoroughly.



Panasonic Group products are built with the environment in mind.
<http://panasonic.net/eco/>



Panasonic Group builds Environmental Management System in the factories of the world and acquires the International Environmental Standard ISO 14001:2004.

Inquiries...

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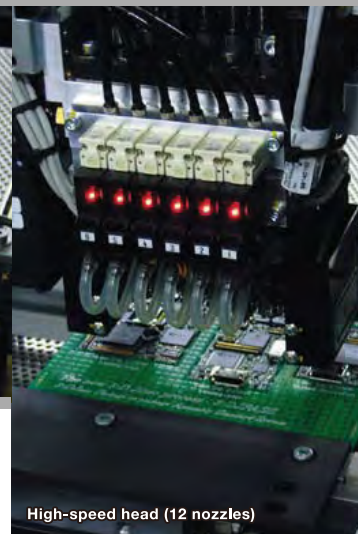
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All data as of December 1, 2011

Ver. December 1, 2011

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High-speed head (12 nozzles)



● Modular High Speed Placement Machine

With further increased productivity and enhanced component handling capabilities, the reliable, proven CM Platform has evolved to a placement machine that realizes excellent line balance and easier handling.



* It may not conform to Machinery Directive and EMC Directive in case of optional configuration and custom-made specification.

Model ID	CM602-L
Model No.	NM-EJM8A
PCB dimensions	L 50 mm × W 50 mm to L 510 mm × W 460 mm
● High-speed head	12 nozzles
Max. speed	100 000 cph (0.036 s/chip (Type A-2))
Placement accuracy	± 40 μm/chip (Cpk ≥ 1)
Component dimensions	(01005)*0402 chip-ys to L 12 mm × W 12 mm × T 6.5 mm
● High-flexibility head	LS 8 nozzles
Max. speed	75 000 cph (0.048 s/chip (Type A-0))
Placement accuracy	± 40 μm/chip, ± 35 μm/QFP ¹⁾ 24 mm, ± 50 μm/QFP < ²⁾ 24 mm (Cpk ≥ 1)
Component dimensions	(01005)*0402 chip-ys to L 32 mm × W 32 mm × T 8.5 mm ³⁾
	*When the generalized Ver.5 is optionally selected (01005)*0402 chip-ys to L 100 mm × W 50 mm × T 15 mm ⁴⁾
● Multi-functional head	3 nozzles
Max. speed	20 000 cph (0.18 s/QFP (Type B-0))
Placement accuracy	± 35 μm/QFP (Cpk ≥ 1)
Component dimensions	(0201)*0603 chip to L 100 mm × W 90 mm × T 25 mm ⁵⁾
PCB exchange time	0.9 s (Board length : up to 240 mm Under optimum conditions)
Electric source	3-phase AC 200, 220, 380, 400, 420, 480 V, 4.0 kVA
Pneumatic source ⁶⁾	0.49 MPa, 170 L/min (A.N.R.)
Dimensions	W 2 350 mm × D 2 290 mm ⁷⁾ × H 1 430 mm ⁸⁾
Mass ⁴⁾	3 400 kg

¹⁾Values such as maximum speed and placement accuracy may vary depending on operating conditions. ²⁾Please refer to the "Specification" booklet for details.
³⁾Only for main body. ⁴⁾Dimension D including direct tray feeder 2 585 mm. ⁵⁾Excluding monitor and signal tower
⁶⁾Standard configuration excluding batch exchange cart and tray feeders. This may differ depending on configuration.
⁷⁾The 0402 chip requires a specific nozzle/feeder. ⁸⁾When T is more than 11.5mm, special nozzles are needed. Please consult us separately.
⁹⁾When T is more than 21mm, special nozzles are needed. Please consult us separately.
¹⁰⁾When T is more than 5.5mm, special nozzles are needed. Please consult us separately.

one platform solutions

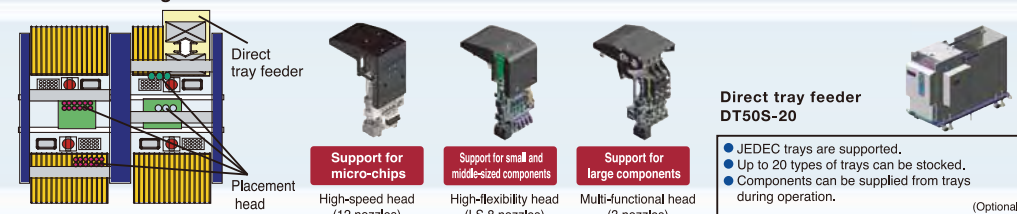
for world-class manufacturing

A wide range of variations

The most suitable module can be selected to place components from microchips to odd-shaped components, as well as depending on the products and the production volume.

*Heads configuration can be changed after purchase.

Machine configuration



Configuration type		12 nozzles / 12 nozzles	12 nozzles / 8 nozzles	8 nozzles / 8 nozzles	12 nozzles / 3 nozzles	8 nozzles / 3 nozzles	3 nozzles / 3 nozzles
Head combination	A	Type A-2	Type A-1	Type A-0	—	—	—
	B	—	—	—	—	—	Type B-0
	C	—	—	—	Type C-1	Type C-0	—
Direct tray support	D	—	Type D-3	Type D-2	Type D-1	Type D-0	—
	E	—	—	—	—	—	Type E-0
	F	—	—	Type F-2	—	Type F-1	Type F-0

Improves actual productivity with lighter high-speed head and new optimization



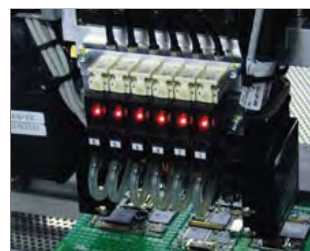
New high-flexibility 8 nozzles head
Further component handling capability



Improves area productivity with compact feeder carts

Increases placement reliability by the 3D sensor

Multifunctional transfer unit supporting POP and C4

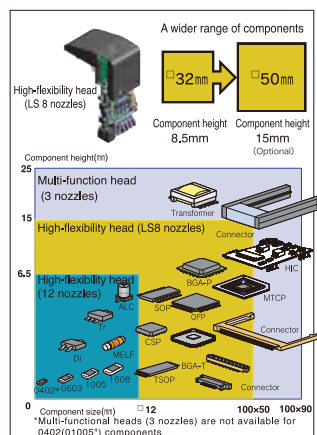


Actual productivity (IPC9850)
69 500 cph (Type A-2)

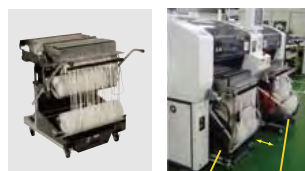
	Tact time
Conventional Ver.4	
Newly optimum* engine Ver.5	Reduction

*PT200 Ver 7.70.00 or later

Lighter high-speed head and new manufacturing sequence optimization has increased productivity by **7 %** compared to the former optimization model Ver.4.



The generalized Ver.5 (optional) expands existing component range. A wide variety of components, ranging from a 0402 chip to 50mm and a large size connector (100 x 50mm), have become mountable. The 3D sensor and direct tray feeder can be installed as before providing superior handling capabilities for odd-shaped components.

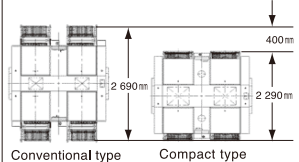


Feeder cart (Compact type)

Compact type Conventional type

Area productivity (Type A-2)

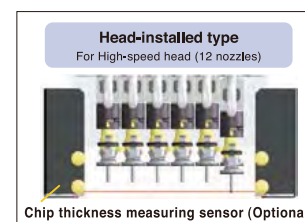
15 800 → 18 500 cph/m²



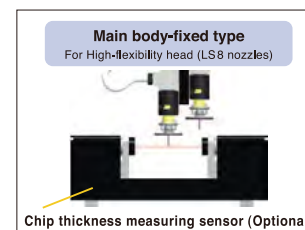
200mm decrease in Feeder cart size

- Area productivity has increased by 17%
- Equipment maintenance has improved

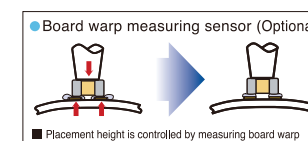
*The Compact Feeder Cart has compatibility with Conventional Feeder Cart. Both types of the Feeder Carts can be used at the same time.



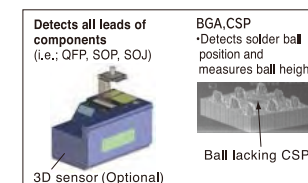
- Component bring-back check function
- Component thickness measurement function after components are changed
- Nozzle tip check function



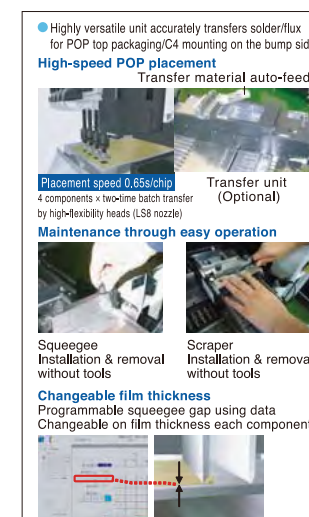
Component thickness measurement function after components are changed



High-quality placement for IC component via the 3D sensor



Component thickness measurement function after components are changed



	Max. dimension	
8 nozzles	□20mm	*High-speed heads (12 nozzles) are not supported.
3 nozzles	□38mm	

LINE	Info	IN-Loader	S/Printer	SPI	Chip-Mounter	Work-Table	Reflow	Conveyor	AOI	Conveyor	UN-Loader	Rmks
2	Maker								SAKI		SJ	
	Model No.								BF-Noah		SMU-120X2	
	Serial No.								291004004			
	Date								2010,12		2010,12	
	PCB Size(mm)								510×460			
3	Maker	SJ	ESE		PANASONIC	SJ	TSM	SJ	SAKI	PANASERT		
	Model No.	SML-120X2	US-8500X		CM602L	SWT-1000X	A70-J123	SCC-1000X	BF-Noah	NM-2332B		
	Serial No.		1007337		11FV3399		R2-A7179-J7		291014009	69B11266		
	Date	2010.12	2010,07		2010,03	2010,12	2010,09	2010,06	2010,12	2010,06		
	PCB Size(mm)		850×500		750×460		50~410		510×460			
4	Maker	SJ	ESE		PANASONIC	SJ	TSM	SJ	SAKI	PANASERT	SJ	
	Model No.	SML-120X2	US-8500X		CM602L	SWT-1000X	A70-J123	SCC-1000X	BF-Noah	NM-2332B	SMU-120X2	
	Serial No.		1008350		11FV5536		R2-A7180-J7		291004004	65B14966		
	Date	2010.06	2010,09		2010.10.	2010,12	2010,09	2010,06	2010,12	2010,06	2010,12	
	PCB Size(mm)		850×500		750×460		50~410		510×460			
5	Maker	SJ	ESE		PANASONIC	SJ	TSM	SJ	SAKI	PANASERT	SJ	
	Model No.	SML-120X2	US-8500X		CM602L	SWT-900X	N70-1132-MH	NM-2332B	BF-Noah	NM-2332B	SMU-120X2	
	Serial No.		1008349		11FV5535		R2-N7139-J6	71B02966	291014006	752Z0026		
	Date	2010.06	2010,09		2010.10.	2010,06	2010,07	2010,06	2010,12	2010,06	2010,12	
	PCB Size(mm)		850×500		750×460		50~410		510×460			
6	Maker	SJ	ESE	INTEK PLUS		SJ		SJ	SAKI	SJ	SJ	
	Model No.	SML-120X2	US-8500X	ISPI-4000		SWT-1000X		SCC-1200X	BF-Noah	SCC-1000X	SMU-120X2	
	Serial No.		1102393	XLS-H1B-SP-1003					291004001			
	Date	2010.06	2010,12	2010,06		2010,12		2010,12	2010,12	2010,06	2010,12	
	PCB Size(mm)		850×500						510×460			
7	Maker	SJ	ESE		PANASONIC	SJ	TSM	SJ	SAKI	SJ	SJ	
	Model No.	SML-120X2	US-8500X		CM602L	SWT-1000X	N70-I92	SCC-1200X	BF-Noah	SCC-1200X	SMU-120X2	
	Serial No.		1102391		11FV5770		R2-N7223-JC		291014005			
	Date	2010.06	2010,12		2010,12	2010,12	2010,12	2010,12	2010,12	2010,12	2010,12	
	PCB Size(mm)		850×500		750×460		50~410		510×460			
8	Maker	SJ	ESE	PEMTRON	PANASONIC	SJ	TSM	SJ	SAKI	SJ	KIT KOREA	SJ
	Model No.	SML-120X2	US-8500X	TROI-5500H LED	CM602L	SWT-1000X	N70-I92	SCC-1200X	BF-Noah	SCC-1200X	JET3	SMU-120X2
	Serial No.		1102392	PLED10-020	11FV5412		R2-N7224-JC		291004002			
	Date	2010.06	2010,12	2010,09	2010,12	2010,12	2010,12	2010,12	2010,12	2010,12	2010,08	2010.12
	PCB Size(mm)		850×500	740×460	750×460		50~410		510×460			
9	Maker	SJ	ESE	PEMTRON	PANASONIC	SJ	TSM	SJ	SAKI	SJ	SJ	
	Model No.	SML-120X2	US-8500X	TROI-5500H LED	CM602L	SWT-1000X	N70-I92	SCC-1200X	BF-Noah	SCC-1000X	SMU-120X2	
	Serial No.		1102389	PLED10-019	11FV5678		R2-N7222-JC		291014008			
	Date	2010.12	2010,12	2010,09	2010,12	2010,12	2010,12	2010,12	2010,12	2010,06	2010,12	
	PCB Size(mm)		850×500	740×460	750×460		50~410		510×460			

10	Maker	SJ	ESE	PEMTRON	PANASONIC	SJ	PANASERT	SJ	TSM	SJ	SAKI	SJ
	Model No.	SML-120X2	US-8500X	TROI-5500H LED	CM602L	SWT-1000X	MPAV2B-XL	SWT-1000X	N70-I92	SCC-900X	BF-Noah	SCC-1200X
	Serial No.		1102390	PLED10-021	11FV3432		00XM05859		R2-N7226-JC		291004002	
	Date	2010.12	2010,12	2010,09	2010,03	2010,12	2010.10.	2010,12	2010,12	2010,06	2010,12	2010,12
	PCB Size(mm)		850×500	740×460	750×460				50~410		510×460	

PANASONIC CM602 MOUNTER Specs			
PCB Size			50×50 ~ 750×460 mm
cycle	Catalog Tac Time	Chip	100,000 CPH (12NOZZLE X 4HEAD)
time	Real Capa(High speed Module)		63,000 CPH (63%)
	Real Capa(0402 C MIC)		70,000 CPH (70%)
Nozzle	NOZZLE / HEAD		12 NOZZLE / 4 HEAD
	BEAM		4 ea
Quality	High speed head		±40 μm (CPK>1.0)
	Tape Feeder		208 ea (8mm)
	APC(Advanced Process Control)		Possible
Dimension	l×w×h		2,350×2,290×1,430 mm