Peripheral equipment

PCB Height Detection Function

Automatically detects the PCB warp.
Parts are placed matching the PCB height.
Possible to place parts with low impact.

Special Nozzles and Mechanical Chucks

Capable of handling parts that are difficult to place using standard nozzles.

● Multipurpose Mechanical Chucks

A wide variety of parts can be supported using a combination of clamping claws and locators of various sizes.

The claws and locators come in various sizes and their positions can be adjusted.

- Basic set (1 main unit, 3 claws, 3 locators)
- Full set (1 main unit, 8 claws, 8 locators)

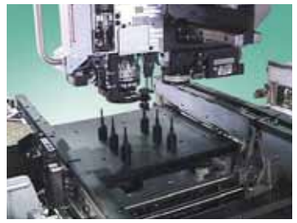
PCB Backup

● Soft Backup Pins

Absorbs impacts to panels during parts placement.
These can also be used with panels that are difficult to support with standard backup pins.
This provides powerful support for high-density parts mounting.

● Auto Backup Pins

Can be positioned anywhere on the backup plate. Pins are automatically positioned, checked and fine-adjusted. This drastically reduces the time required for changeover.



Powerful Support for Production with the Fujitrax System

*Fujitrax : Traceable Realtime Administration (Software)

- Part verification
- Parts-out warning using remaining parts administration
- Feeder maintenance warnings
- Ability to set alternate feeders to empty slots during production
- Non-stop tray parts supply function
- Panel traceability data acquisition
  (requires panel IDs on panels and a panel ID reading device)

	M3Ⅱ	M6Ⅱ	M6ⅡSP
PCB size (L x W)	Double conveyor type : 48 x 48 mm to 534 x 510 mm Single conveyor type : 48 x 48 mm to 534 x 610 mm *(W) 280 mm when using dual conveyance. Single conveyance is used when width exceeds 280 mm.		Double conveyor type : 48 x 48 mm to 520 x 510 mm Single conveyor type : 48 x 48 mm to 520 x 610 mm
Feeder capacity	Up to 20 types (8 mm tape)	Up to 45 types (8 mm tape)	Up to 44 types (8 mm tape)
PCB load time	Double conveyor : Continuous operation 0 sec, Single conveyor : 2.5 sec (using only M3Ⅱ modules) Single conveyor : 3.4 sec (using only M6Ⅱ/M6ⅡSP modules)		
Placing accuracy Glue dispensing (Fiducial mark based referencing)	V12/H12HS: ±0.038 (±0.050) mm (3σ) cpk≧1.00 *: H08M/H04S: ±0.040 mm (3σ) cpk≧1.00 H08/H04/OF: ±0.050 mm (3σ) cpk≧1.00 H02/H01/G04: ±0.030 mm (3σ) cpk≧1.00 GL: ±0.100 mm (3σ) cpk≧1.00 *±0.038 mm obtained with rectangular chip part placement (high-accuracy tuning) under optimal conditions at Fuji.		H12HS: ±0.038 mm (3σ) H02/H01/G04: ±0.010 mm (3σ)
Throughput	V12: 26,000 cph H12HS: 22,500 cph H08: 10,500 cph H04S: 9,500 cph H04: 6,500 cph H02: 5,500 cph H01: 4,200 cph G04: 6,800 cph OF :Not supported GL :16,363 dph (0.22 sec/dot)	V12: 26,000 cph H12HS: 22,500 cph H08M: 13,000 cph H08: 10,500 cph H04S: 9,500 cph H04: 6,500 cph H02: 5,500 cph H01: 4,200 cph G04: 6,800 cph OF : 3,000 cph GL :16,363 dph (0.22 sec/dot)	V12:Not supported H12HS:18,500cph H02: 4,700 cph H01: 3,500cph G04: 6,200 cph
Applicable components	V12/H12HS: 0402(01005) to 7.5 x 7.5 mm Max. height 3.0 mm H08M: 0603(0201) to 45 x 45 mm Max. height 13 mm H08: 0402(01005) to 12 x 12 mm Max. height 6.5 mm H04S/ H04: 1608(0603) to 38 x 38 mm Max. height 6.5/ 9.5 mm H02/H01/OF: 1608(0603) to 74 x 74 mm (32 x 180 mm) Max. height 25.4 mm G04: 0402(01005) to 15 x 15 mm Max. height 6.5 mm		
Module width	320 mm	645 mm	
Machine dimensions	4MⅡbase L: 1390 mm x W: 1934 mm	2MⅡbase L: 740 mm x W: 1934 mm	H: 1474 mm (M3Ⅱ) , 1476 mm (M6Ⅱ/M6ⅡSP)

Component Supply Devices	
Intelligent feeder	8, 12, 16, 24, 32, 44, 56, 72, 88, 104 mm tape width
Stick feeder	4≦component width≦15 mm (6≦stick width ≦18 mm) , 15≦component width≦32 mm (18≦stick width ≦36 mm)
Tray unit	Applicable tray size: 135.9 x 322.6 mm (JEDEC standard) (Tray Unit-M) , 276 x 330 mm (Tray Unit-LT), 143 x 330 mm (Tray Unit-LTC)

Options

● Tray feeder ● PCU Ⅱ (Pallet Change Unit) ● MCU (Module Change Unit) ● Engineering Panel Stand ● FUJI CAMX Adapter ● Fujitrax

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Cat.No.NXTII/2010.Sep/E

FUJI
innovative spirit

NXT Ⅱ

Fuji Scalable Placement Platform

Flexible and Highly Productive High-Speed Multi-Function Modular Placing Machine

http://www.fuji.co.jp

NXT Concept

NXT can handle a wide range of parts using a single platform.
The machine can be easily reconfigure by changing modules to quickly meet changes in production quantities and part types.
NXT realizes high quality cost performance production and enhances production efficiency.

NXT Ⅲ
Fuji Scalable Placement Platform


PCUⅡ


M3Ⅱx6

M3Ⅱ

M3Ⅱx2

M6Ⅱ

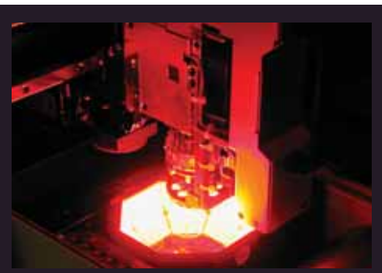
M6Ⅱx2 with Tray unit-M


M6ⅡSP


M3Ⅱx2, M6Ⅱx2 with Tray unit-LT


In order to place a wide range of part types, from small chip parts to large odd-form parts, six types of placing heads are available as well as a glue dispensing head. Any one of these easily interchangeable heads can be selected to meet the production needs.


NXTⅡ's equipped with a dual conveyor specification can load and produce two different types of panels at the same time, thus satisfying the need for high mix, small scale production. Furthermore, the operation rate is increased by the reduction in loading time.


High-precision placement accuracy is constantly maintained with automatic part camera, mark camera, and nozzle center measurements.


NXTⅡ's high resolution parts camera can handle parts from 0402 (01005) to large odd-form parts.


The NXTⅡ's graphical user interface is simple and easy-to-understand, minimizing time consuming operator training.


It is possible to quickly perform maintenance operations such as replacing placing heads by pulling out modules. Off-line maintenance is possible by replacing the module with another one, resulting in minimized production downtime.

Feeder Pallets

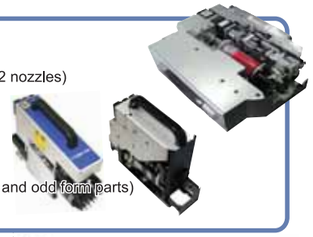
- Feeder pallet with 20 slots for M3Ⅱ modules
- Bucket type feeder pallet with 20 slots for M3Ⅱ modules
- Feeder pallet with 45 slots for M6Ⅱ modules
- Bucket type feeder pallet with 45 slots for M6Ⅱ modules

Nozzle Station

- For V12 / H12HS(Q) [H12S / H12] / H08(Q) (same for both heads)
- For H08M (4 types)
- For H04S / H04 (4 types)
- For H01 / H02 (7 types)
- For G04 nozzles (4 types)
- For OF (5 types)

Placing Head

- V12 / H12HS(Q) [H12S(Q)] (12 nozzles)
- H08M / H08(Q) (8 nozzles)
- H04S / H04 (4 nozzles)
- H02 (2 nozzles)
- H01 (1 nozzle)
- G04(Q) (4 nozzles)
- OF head (for placing insertion and odd form parts)
- GL head (for dispensing glue)



Module

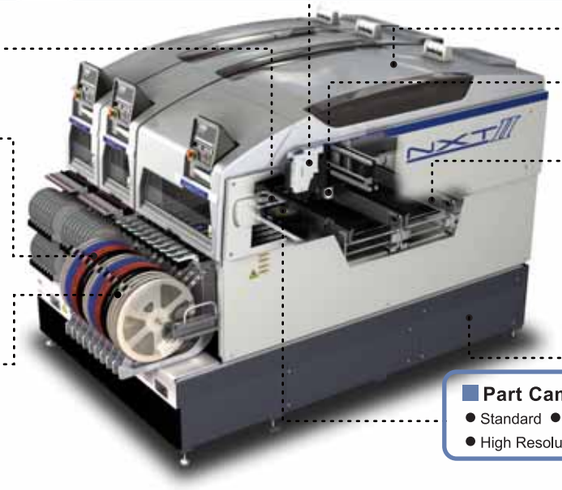
- M3Ⅱ
- M6Ⅱ／M6ⅡSP

Intelligent Feeder

- W04b
- W08c
- W12
- W16
- W24
- W32
- W44
- W56
- W72
- W88
- W104

Reel Holder

- W4 /7 Inch
- W8 /7,13 Inch
- W12 /7,15 Inch
- W16 /15 Inch
- W24 /15 Inch
- W32 /15 Inch
- W44 /15 Inch
- W56 /15 Inch
- W72 /15 Inch
- W88 /15 Inch
- W104 /15 Inch



Tray Units (Loaded to M6Ⅱ Modules)


Tray Unit-M　Tray Unit-LT　Tray Unit-LTC

Mark Camera

Main Conveyor

- Single Conveyor
- Double Conveyor

Part Camera

- Standard
- Sidelight
- High Resolution
- P03
- P05

Module Base

- 4MⅡ Base
- 2MⅡ Base

Changeover Devices

Pallet Change Units (PCUⅡ)

＊Units used for batch changeover of feeders

- PCU for standard type feeder pallets (M3Ⅱ)
- PCU for bucket type feeder pallets (M3Ⅱ)
- PCU for standard type feeder pallets (M6Ⅱ)
- PCU for bucket type feeder pallets (M6Ⅱ)

Module Change Unit (MCU)

＊A unit for changing modules.
One M6Ⅱ module or two M3Ⅱ modules can be loaded.

- M3Ⅱ, M6Ⅱ (Shared unit)