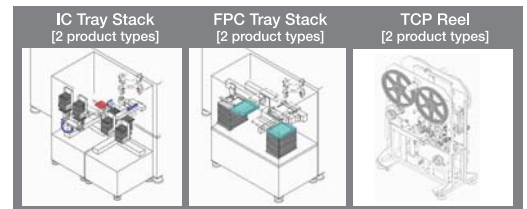


Model ID FPX201

Model No. NM-EFL1EB, NM-EFL1KA, NM-EFL1CB, NM-EFL1YA, NM-EFL1AB

### ● Provide Additional High Quality and High Production Solution Based on The Bonding Performance from Large Size to Small Size.

Flexible response to the mixed loader of COG and FOG



|                    |   |   |
|--------------------|---|---|
| Model ID           | FPX201  |   |
| Model No.          | NM-EFL1EB (ACF batch attachment device for middle size FPD)                                       |   |
|                    | NM-EFL1KA (Module bonding device for middle size FPD)   |   |
|                    | NM-EFL1CB (DTR: Double tape reel type [IC loader])  |   |
|                    | NM-EFL1YA (SIT: Stack IC tray type [IC loader])   | NM-EFL1AB (FTS: FPC tray stack type for middle) |
| Process Method     | FOG   | COG   |
| FPD Size           | L 210 mm x W 160 mm to L 563 mm x W 321 mm *2   |   |
| Cycle Time*1       | 1.3 s/TCP (excluding bonding time)  | 1.1 s/TCP (excluding bonding time)              |
| Bonding Accuracy*1 | X: ± 8 μm, Y: ± 20 μm (press bonding)   | X: ± 5 μm, Y: ± 5 μm                            |
| Chip Size          | L 15 mm x W 18 mm to L 40 mm x W40 mm   | L 15 mm x W 18 mm to L 40 mm x W40 mm           |
| ACF Size           | Width 1.0 mm to 3.0 mm Reel diameter: Max. ø200   |   |
| Power Source       | 3-phase AC 200V ±10 V, 50/60 Hz, 6 kVA  |   |
| Pneumatic Source   | 0.49 MPa, 500 L/min. (A.N.R.)   |   |
| Dimensions         | W 4 600 mm x D 1 175 mm x H 1 500 mm (excluding component feeding unit)                           |   |
| Mass               | NM-EFL1EB: 1 460 kg, NM-EFL1KA: 2 580 kg, NM-EFL1CB: 450 kg, NM-EFL1YA: 750 kg, NM-EFL1AB: 630 kg |   |

\*1: Values such as cycle time and accuracy may vary depending on operating conditions.

\*2: For LCD smaller than W315mm X D239mm, there are some limitation. (to be discussed separately)

\* Please refer to the specifications on details.

### High quality and compact machine

#### Space-saving design (Line length: 4.6m x 1.5m) for 10 to 25" W

Thanks to the industry's first PLUG IN idea, the component feeding units can be attached, detached, or exchanged without restraint. Also, the peripherals can be connected on site.

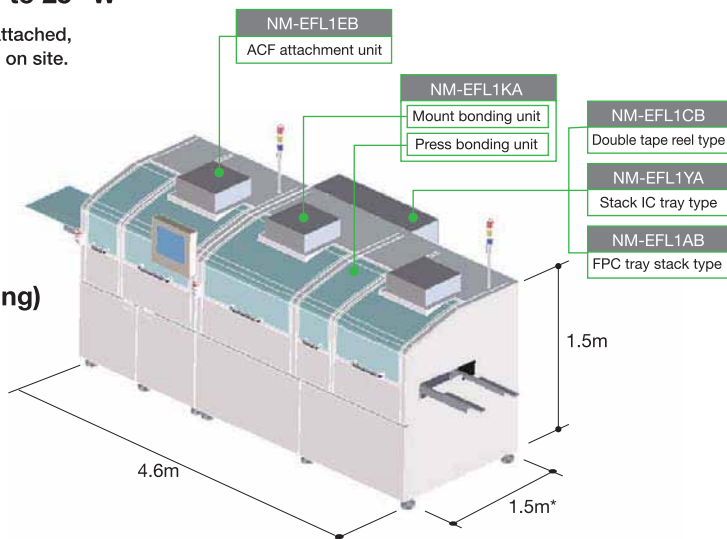
NM-EFL1EB: ACF Batch attachment device for middle size FPD

NM-EFL1KA: Module bonding device for middle size FPD

NM-EFL1CB: DTR: Double tape reel type [IC loader]

NM-EFL1YA: SIT: Stack IC tray type [IC loader]

NM-EFL1AB: FTS: FPC tray stack type for middle



\*Size including component feeding unit < 2500mm

#### High accuracy and high-speed bonding (mount bonding)

Achieves high accuracy alignment by unique fixed point bonding  
 Achieves high accuracy bonding by high stiffness rotary head (Newly-developed)

Bonding accuracy: 8µm (X), 20µm (Y)

Bonding tact time: 1.3s (TCP)

#### High quality individual head (press bonding)

Provides high quality bonding by adopting unique high stiffness compact tool

Tool parallelism: Less than 2µm

Temperature variation inside of the tool: Less than 5°C

### Supports bonding configuration diversity and progress

#### Provides reliable support by producing non-defective product

- CIM management
- Touch panel/Loading of recognition image
- Monitoring of operating status



**eco ideas**

- GHG Factor 1.91
- Resource Factor 2.23 (Ref.Product: FB50)

**eco ideas** Matsushita Group products are built with the environment in mind.  
<http://panasonic.co.jp/eco/en/>

**ISO 14001** Matsushita group builds Environmental Management System in the factories of the world and acquires the International Environmental Standard ISO 14001:2004.

**⚠ Safety Cautions** 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 instructions manual thoroughly.

Inquiries... **DJK DAIICHI JITSUGYO CO., LTD.**

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 All data as of March, 1, 2008.

\*Changes in specifications and appearance may be made without notice for product improvement.  
 \*Recycled paper is used for this Catalog.