Clean-Room Electro Press

- World First Clean Room Class 10 (0.3µm)* Compliant Press Machine
  - The special airtight structure prevents dust emissions.
  - Special external conductive coating prevents static electricity.
  - Low dust press is used on the outside of the sliding ram, additionally a special antistatic sticker comes on the outside of the ram.
  - Large and small exhaust pipe connectors are included for use with a variety of types and capacities of exhaust equipment. (Not available for all models)
  - The body (not including the control box) can be used in both clean room and general environments.
  - All plates and screws exposed to the outside are made of stainless steel.

What's Clean Class 10?

Clean Class 10 is defined by Federal Standard 209D as a particulate count that shall not exceed a total of 10 particles of a size of 0.5µm or greater per cubic foot of air.

<table>
<thead>
<tr>
<th>Model</th>
<th>Class</th>
<th>1000µm/1000m³/hr</th>
<th>500µm/1000m³/hr</th>
<th>325µm/1000m³/hr</th>
<th>15µm/1000m³/hr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic</td>
<td></td>
<td>1000µm/1000m³/hr</td>
<td>500µm/1000m³/hr</td>
<td>325µm/1000m³/hr</td>
<td>15µm/1000m³/hr</td>
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<tr>
<td>Basic</td>
<td></td>
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</tbody>
</table>

*Note: 1000 and 2000 models are not available in clean-room type.

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You can examine our products at our showrooms in Japan, Taiwan, Thailand, USA, and Germany.
If you have any inquiry, please feel free to contact us.

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JANOME
JP Series 4 Electro Press

Main Features

■ A Variety of Models to Satisfy All Needs
Stand-alone type and unit types with a pressing capacity range from 0.5kN to 8kN are available for diverse needs in a variety of fields. In addition to the standard stroke, short and long strokes are also available. There are two installation methods available: side mounting or flange mounting suitable for flexible production. (Optional depending on the model)

■ Clean, Energy-Saving, and Safe
Driven by the AC servo motor, the Electro Press provides a quiet and clean work environment. Consuming 10% to 20% less energy compared to conventional and hydraulic presses, the Electro Press can contribute to a total cost reduction as well as environmental conservation (BCD14000). To ensure safety, all Electro Presses come equipped with an area sensor (light curtain) terminal as well as a fail-safe circuit.

■ High Accuracy and High Function
The AC servo motor, high-precision ball screw, and load cell deliver high accuracy and high function.

■ Various Pressing Modes & Functions
Specialized processes can easily be handled with two or multiple-direction pressing (non-programmable via a teaching pendant) and a variety of operation modes including "Constant Speed", "Set Speed Position", "Constant Speed - Set Distance Mode", and more. With precise positioning and adjustment capabilities, there is no need for making or adjusting high-precision dies or dies when changing setups or starting up new production lines. Additionally, the impact on the die is very low. The Electro Press can speed up your operations and improve productivity.

■ Load and Position Traceability & Complete Quality Control
The Electro Press has a variety of sensor functions for load, position, distance, and speed. In the Load sensor box, the sampling function checks many load values including Peak, Bottom, and Differential. The Press can be connected directly to a PC through the external interface RS-232C; thus, all data such as pressure curves and work results can be stored and organized in a PC (using optional software). Also, the pressure curve display on the LCD on the Electro Press or monitor box allows visual checks during operation. Furthermore, the optional load cell output (analogue data) and motor encoder output (pulse output) are available for real-time transmission of position and load data to external devices. With these functions, the Electro Press ensures traceability of products, makes quality control easier, and sustains your compliance with ISO9000.

■ Muting Function
The stand-alone Electro Press is also available in special specifications with a muting function (which outputs a signal to desensitize the area sensor when the ram is ascending or in the standby position) to create a more efficient work environment.

■ Large LCD Screen & User-Friendly Operation
An interactive operation system is employed with the switch panel and easy-to-read large LCD display languages (Japanese and other main languages) and units of measure (millimeters) are changeable.

■ Self Diagnosis Function
In case of an error, an error message will be displayed so you can easily locate and react to the problem.

Model Name

<table>
<thead>
<tr>
<th>Model Name</th>
<th>JP U- 100 4 CL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stand-Alone Type</td>
<td>H</td>
</tr>
<tr>
<td>Head Type</td>
<td>U</td>
</tr>
<tr>
<td>Unit Type</td>
<td>B</td>
</tr>
<tr>
<td>Pressing Capacity</td>
<td>0B 0.5kN 1B 1.5kN 2B 2kN 3B 3kN 4B 4kN 5B 5kN 10B 10kN 20B 20kN</td>
</tr>
<tr>
<td>Pressing Type</td>
<td>NIL Standard</td>
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</tbody>
</table>
## Specifications

<table>
<thead>
<tr>
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<tbody>
<tr>
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<td>Maximum</td>
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<td>1800 mm/sec</td>
<td>1800 mm/sec</td>
<td>1800 mm/sec</td>
<td>1800 mm/sec</td>
<td>1800 mm/sec</td>
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<tr>
<td></td>
<td></td>
<td>Minimum</td>
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<td>600 mm/sec</td>
<td>600 mm/sec</td>
<td>600 mm/sec</td>
<td>600 mm/sec</td>
<td>600 mm/sec</td>
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<tr>
<td>Maximum Compression Ratio</td>
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<td>Maximum</td>
<td>50% + 150%</td>
<td>50% + 150%</td>
<td>50% + 150%</td>
<td>50% + 150%</td>
<td>50% + 150%</td>
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<tr>
<td></td>
<td></td>
<td>Instrument</td>
<td>15% + 15%</td>
<td>15% + 15%</td>
<td>15% + 15%</td>
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<td>Maximum Stroke (mm)</td>
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<tr>
<td></td>
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<td>Instrument</td>
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<tr>
<td>Minimum Stroke (mm)</td>
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<td>Minimum</td>
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<td>20 mm</td>
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<td>20 mm</td>
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<tr>
<td>Minimum Stroke Rate (rpm)</td>
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<tr>
<td>Power Supply</td>
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<td>3-phase, 50 Hz</td>
<td>180 V-250 V</td>
<td>180 V-250 V</td>
<td>180 V-250 V</td>
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<td>180 V-250 V</td>
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<tr>
<td>Dimensions (mm)</td>
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<td>Overall Width</td>
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<td>950 x 1100 x 1300</td>
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<tr>
<td></td>
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<td>Fan Width</td>
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<td></td>
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<td>Control Panel</td>
<td>300 x 300 x 300</td>
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<td>300 x 300 x 300</td>
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<tr>
<td>Weight (kg)</td>
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<td>Control Device</td>
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<tr>
<td></td>
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<td>Engine Device</td>
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<td>15 kg</td>
<td>15 kg</td>
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<td>15 kg</td>
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<td>15 kg</td>
</tr>
</tbody>
</table>

**Common Specifications**

- **Operation Modes**
  - Constant Speed/Constant Voltage/Constant Current/Constant Torque/Constant Power
  - Servo Control/Position Control

- **Sensor Mode**
  - Sensor Position: Absolute/Incremental

- **Screen Display**
  - LCD, 1280x1024, 19" TFT, 1024x768

- **External Interface**
  - USB, Ethernet, RS-232

- **Power Supply**
  - 3-phase, 50 Hz, 180-250 V

- **Ambient Temperature**
  - 20 - 40°C

- **Relative Humidity**
  - 20 - 80% non-condensing

- **Certifications**
  - CE, UL, TUV, UL, CB, CE, CSA, FCC

**Notes**

- [1] Load Stroke accuracy is ±4% in stroke travel range, over 10% of the maximum load capacity (Load the rated value and calculate stroke travel range). ([1])
- [3] Tolerance may vary depending on conditions. ([3])
- [4] Maximum speed is guaranteed only in the case that the machine body remains as a constant temperature. ([4])
- [5] The stroke tolerance is ±0.5% of the stroke travel range. ([5])
- [6] Dimensions refer to the stroke travel range (mm). ([6])
- [7] Head Type: [7]
- [8] Unit Type: [8]
- [14] Ambient Temperature: [14]
- [16] Certifications: [16]