

# *Electro Press* **JP Series 5**

## Stand -Alone Type

### C-Frame Ideal for Cell Production

“All-in-One” configuration unifies the controller and drive mechanism. Just ON the power and the press is ready the work.

### Faster ram movement for higher productivity

Best speed in the industry for lightweight presses; greatly reduces cycle time.

### A rich variety of both pressing and sensor functions

We combined pressing parameters (speed/load) with stopping parameters (position/load/distance/time, etc.) to create our pressing modes.

### Improved product quality

Load Precision:  $\pm 0.8\%$  (FS) \*Value range from 5% or more of the maximum load.  
Repeatability :  $\pm 0.005\text{mm}$  \*Measured with the press at a constant temperature.

### Global Diagnostic Functionality

Comprehensive hardware diagnostics including PC boards. Its easy to switch among display languages.

### Auto Amp Adjustment/ Auto Load Calibration

Now you can perform complicated load calibrations automatically.

(Please consult with us about compatible load cells.)



Image

# Specifications

Item		JPT-0055	JPT-0105	JPT-0205	JPT-0505	JPT-1005	
Pressing Capacity	Maximum	0.5 kN	1 kN	2 kN	5 kN	10 kN	
	Setting Unit	1 N					
Ram Stroke	Max. (Long Stroke)	80 mm			100(150) mm		
	Position Setting Unit	0.001 mm					
Ram Speed	Pressing Time *1	0.01 ~ 25 mm/sec					
	Approach · Return Time	0.01 ~ 414 mm/sec			0.01 ~ 280 mm/sec		
	Setting Unit	0.01 mm/sec					
Maximum Holding Time at Max. Load *2		999.9 sec	360 sec	20 sec	999.9 sec	25 sec	
Load Precision *3		±4N at 25N or more	±8N at 50N or more	±16N at 100N or more	±40N at 250N or more	±80N at 500N or more	
Position Repeatability *4		±0.005mm					
Total Weight Hanging from the Ram Tip		1 kg	2 kg	4 kg	10 kg	20 kg	
Clean Class (Clean Room Model) *5		-			ISO4 (Class10)	ISO4 (Class 10)	
Power Consumption		200 W			750 W		
Power Source		Single Phase/Three Phase AC200~240 V ±10%					
Item		JPT-1505	JPT-2005	JPT-3005	JPT-5005		
Pressing Capacity	Maximum	15 kN	20 kN	30 kN	50 kN		
	Setting Unit	1 N		10 N			
Ram Stroke	Max. (Long Stroke)	100(150) mm	200 mm				
	Position Setting Unit	0.001 mm					
Ram Speed	Pressing Time *1	0.01 ~ 25 mm/sec					
	Approach · Return Time	0.01 ~ 280 sec	0.01 ~ 125 sec	0.01 ~ 100 sec			
	Setting Unit	0.01 mm/sec					
Maximum Holding Time at Max. Load *2		1.5 sec	80 sec	30 sec	20 sec		
Load Precision *3		±150N at 750N or more	±160N at 1kN or more	±240N at 1.5kN or more	±400N at 2.5kN or more		
Position Repeatability *4		±0.005mm					
Total Weight Hanging from the Ram Tip		20 kg	40 kg	90 Kg	100 kg		
Clean Class (Clean Room Model) *5		-		ISO4 (Class10)	-		
Power Consumption		750 W	3.3 kW		5 kW		
Power Source		Single Phase/Three Phase AC200~240 V ±10%	Three Phase AC200~240 V ±10%				
Basic Pressing Modes	While pressing at constant speed: Position Stop/Distance Stop/Load Stop/Incremental Load Stop/Differential Load Stop/Event Stop/Reduced Load Stop While pressing at constant load: Time Stop/Position Stop/Distance Stop/Event Stop Use these modes to create multistep pressing settings in one program.						
Sensor Functions	Step Sensor/Program Sensor/Load Zone Sensor						
No. of Programs *6	Up to 512						
No. of Pressing Steps*6	Up to 512 (in one program)						
No. of Step Sensors *6	Up to 16 (in one step) Up to 512 (in one program)						
External Input/Output	COM	RS-232C 1ch					
	I/O-SYS	17 Inputs/16 Outputs *Specify NPN/PNP at time of order.					
	LAN	10BASE-T/100BASE-TX					
	MEMORY	For USB Memory Connection (Save results data, backup and restore data, update system software.)					
	Field Networks	EtherNet/IP / PROFINET / CC-Link / DeviceNet / PROFIBUS / CANopen / None *Choose at time of order.					
	I/O-S	For Safety Device Connection					
Other	Load Cell Output, Encoder Output, Analog Monitor Output (optional)						
Encoder	Incremental						
Display Units	Load Unit: N, kgf, lb Length Unit: mm, inch						
Display Languages	PC Software	English, Chinese (Simplified & Traditional), Japanese, Korean					
	Front Panel LCD	English, Chinese (Simplified & Traditional), Japanese, Korean, Vietnamese					
Drive and Control Method	AC servomotor drive 32 bit CPU (dual core)						
Work Environment	Surrounding Temperature	0~40°C (without freezing)					
	Relative Humidity	20~90% (without condensation)					
	Elevation	Up to 1000m					

\*1 Recommended setting range.

\*2 Value when making a cold start. Can vary according to setting conditions.

\*3 Load display precision is ±0.8% (FS) of the maximum load when pressing in the range of 5% or more of the maximum load.

\*4 Position repeatability is dependent upon the press bearing a constant load at constant press machine and surrounding temperatures. Repeatability is not a guarantee of absolute position precision.

\*5 Clean class is based upon ISO14644-1 and US Federal Standard 209D (FED-STD-209D).

\*6 The number of programs, pressing steps and step judgments is limited in relation to the total memory size.

When multiple steps are included in one program, this in turn limits the number of new programs which can be added to the memory.

<Accessories>

- PC Software JP5 Designer
- Operation Manual (CD-ROM)
- Fieldbus Port Cover (when no Field Network is selected)
- I/O-S Short Connector

- Before using, please read the operation manual and make sure you are using the servo press correctly.
- If you have any questions, please contact us at the telephone number listed below, or visit our website.

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