

Electro Press
JP Series 5
Stand-Alone Type

Flexible Model

Designed to fit in any facility...
 Choose the installation that's best for you.

Inline

Switchbox removed to save space;
 All-in-one configuration;
 no need to add C-frame or base.



Inline or Cell

Cell

Two-handed switchbox attached for direct operation.



Setup Example

Improve Product Quality

Load Display Precision: $\pm 0.8\%$ (FS)*1

*1 When pressing at 5% or more of the maximum load.

Position Repeatability: $\pm 0.005\text{mm}$ *2

*2 When the press temperature is constant.

Various Pressing Modes and Sensors

We've combined pressing parameters (speed & load) with stopping parameters (position, load, distance, time, etc.) to create multiple pressing modes.

Ethernet-based Traceability (IoT)

Export high-speed sampling data to a PC via the Ethernet. 0.25msec position & load value sampling interval is the fastest in the industry.

Multilingual Display Screen

Switch among 13 different languages: English / Japanese / Simplified & Traditional Chinese / Korean / Vietnamese / German / French / Spanish / Italian / Romanian / Czech / Hungarian

Energy-saving Electric Servomotor

Consumes 1/4 to 1/5 the energy* used by a hydraulic or pneumatic press.

*Based on Janome's internal research

Ideal for oil or air press replacement where traceability is needed.

Comprehensive Maintenance Functions

Adjust the amp and calibrate the internal load cell with a few easy settings. Overall maintenance is easier and less expensive than oil or air presses.

Specifications

L: Long Model C: Clean Room Model

Item	JPF-0055	JPF-0105	JPF-0205	JPF-0505 (L)	JPF-1005 (L)(C)
Pressing Capacity	Maximum	0.5 kN	1 kN	2 kN	5 kN
	Setting Unit	1 N			
Ram Stroke	Maximum	80 mm		100mm (L: 150mm)	
	Position Setting Unit	0.001 mm			
Ram Speed	Pressing	0.01~35 mm/sec			
	Approach/Return	0.01~300 mm/sec		0.01~200 mm/sec	
	Setting Unit	0.01 mm/sec			
Maximum Holding Time *1	999.9 sec	360 sec	20 sec	999.9 sec	25 sec
Load Display Precision *2	25 N or more ±4 N	50 N or more ±8 N	100 N or more ±16 N	250 N or more ±40 N	500 N or more ±80 N
Position Repeatability *3	±0.005mm				
Max. Jig Weight Suspended from Ram Tip	1 kg	2 kg	4 kg	10 kg	20 kg
Power Consumption	400 W			950 W	
Power Source	1 Phase/3 Phase AC200~240 V ±10%				
External Dimensions	Press	W295 x D485 x H816 mm		W325 x D505 x H947(L:1022) mm	
	Switchbox	W520 x D175 x H163 mm			
Weight	Press	104 kg		187 (L:195) kg	
	Switchbox	4.9 kg			

Item	JPF-15R5 (L)	JPF-2005	JPF-3005 (C)	JPF-5005
Pressing Capacity	Maximum	15 kN	20 kN	30 kN
	Setting Unit	1 N		10 N
Ram Stroke	Maximum	100 mm (L: 150mm)	200 mm	
	Position Setting Unit	0.001 mm		
Ram Speed	Pressing	0.01~35 mm/sec		
	Approach/Return	0.01~120 mm/sec	0.01~250 mm/sec	0.01~200 mm/sec
	Setting Unit	0.01 mm/sec		
Maximum Holding Time *1	100 sec	80 sec	30 sec	20 sec
Load Display Precision *2	750 N or more ±120 N	1 kN or more ±160 N	1.5 kN or more ±240 N	2.5 kN or more ±400 N
Position Repeatability *3	±0.005mm			
Max. Jig Weight Suspended from Ram Tip	30 kg	40 kg	90 kg	100 kg
Power Consumption	950 W		3.7 kW	
Power Source	1 Phase/3 Phase AC200~240 V ±10%	3 Phase AC200~240 V ±10 %		
External Dimensions	Press	W325 x D505 x H947(L:1022)mm	W376 x D729x H1230 mm	W560 x D902 x H1326 mm
	Switchbox	W520 x D175 x H163 mm		
Weight	Press	191 (L:199) kg	521kg	969 kg
	Switchbox	4.9 kg		

Basic Pressing Modes	Pressing at a constant speed: Position Stop / Distance Stop / Load Stop / Incremental Load Stop / Differential Load Stop / Event Stop / Reduced Load Stop. Pressing at a constant load: Time Stop / Position Stop / Distance Stop / Event Stop Use these combinations to create multiple step pressing settings in a single program.	
Sensor Functions	Step Sensor (25 Types) / Program Sensor / Load Zone Sensor	
No. of Programs*4	Up to 512	
No. of Pressing Steps*4	Up to 512 (in one program)	
No. Step Sensors*4	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)
	Fieldbus	EtherNet/IP / PROFINET / CC-Link / DeviceNet / PROFIBUS / CANopen (optional) *Specify 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, German, Japanese, Korean, Chinese (Simplified & Traditional)
	Front Panel LCD	English, Japanese, Korean, Chinese (Simplified & Traditional), Vietnamese, German, French, Spanish, Italian, Romanian, Czech and Hungarian
Drive and Control Method	AC servomotor drive 32 bit CPU (dual core)	
Clean Room Model Clean Class	ISO4*5 (Class 10*6)	
Work Environment	Surrounding Temperature	0~40 °C (no freezing)
	Relative Humidity	20~90% (without condensation)
Ingress Protection (IP) Rating	IP20	

*1 Value when making a cold start. This may also change due to setting conditions.

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

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

*4 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.

*5 Clean Class is based upon ISO14644-1.

*6 US Federal Standard 209D.

<Accessories>

·PC Software JP5 Designer (Windows® 8.1/10/11 compatible)

·Operation Manual (CD-ROM) ·Fieldbus Cover (for presses without an optional Fieldbus) ·I/O-S Short Connector

<Optional>

·PC Software JP TaSII System (Windows® 8.1/10/11 compatible)

·Touch Panel Interface (Windows® 10 IoT Enterprise)

·Before using our products, please be sure to check their respective operation manuals so that you can use them safely and correctly.

·Specifications may be modified without prior notice to improve product quality.

·For inquiries, please contact us at the telephone number below or through the "Contact Us" page on our website.



Touch Panel Interface

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