

### JP-S2 Series

## Inline Installation Type Servo Press

# Slim Compact



### Space Saving

Slim press unit and compact controller ideal for facility integration. Effectively lowers your production equipment space requirements whether installed as a single unit or as a multiple unit system.

### Comprehensive Lineup

9 basic model sizes ranging from 5kN~200kN, with different ram stroke lengths to choose from.

### Ideal for Air or Oil Press Replacement

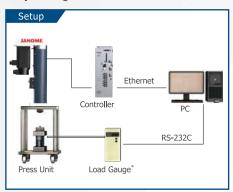
The low noise, environmentally friendly JP-S2 consumes less energy than an oil or air press, greatly lowering your running cost. Installation is easier too, as electrically-powered servo presses need no piping!

### Wide Variety of Pressing Modes and Sensors

We combined pressing parameters (speed/load) with stopping parameters (position/load/distance/time, etc.) to create our pressing modes. Set several modes in one program to make a multi-stage operation. Use our many sensor functions to judge pressing results.

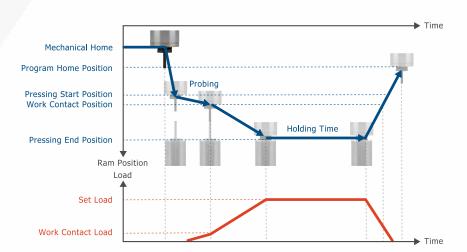
### Auto Load Calibration

Calibrate the internal load cell with just a few easy settings!



\*Please contact us about compatible load gauges.

### Basic Servo Press Operation

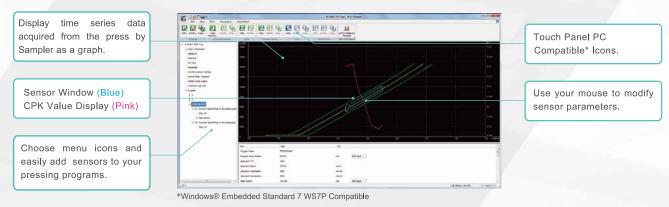


### PC Software

Edit setting data, display pressing results and analyze your data with our original "JP-SaS II System" software.

### Designer

Create teaching and sensor parameter data, send and receive all your setting data to and from your PC, save changes, backup and print your data.



### Sampler (Optional)

Use this software to display quality control data and time series data for each shot, and save it as a sampling file. Displays the pressing results for multiple press units on one screen.



### Reporter (Optional)

Display data acquired by Sampler, generate CPK analysis and result analysis reports.



### Model Code

#### JP-S 1002 - 0 0 100 B S - N 0 CC B - 5 Power Regenerative Power JP-S2 Series Pressing Capacity Rating Specification Stroke\*2 Brake Load Cell DIO Fieldbus Resistance Unit Cable<sup>\*3</sup> Cable Source Specs 0 : Standard 0 : Standard 1 : Single 0502 : 5kN 100 : 100mm B: Included S: Pressing N: NPN EP : EtherNet/IP B : Built-in 3:3m 3 : 3m 5 : 5m 1002 : 10kN 150 : 150mm P:PNP PN : PROFINET A : External 1502 : 15kN 0 : None CC : CC-Link A: 10m A: 10m 3 : Three Holding" 200: 200mm Add-on 2002 : 20kN 3002 : 30kN DE : DeviceNet PR : PROFIBUS 250 : 250mm B : 15m 0 : None 300:300mm C: 20m D:5mR E:10mR F:15mR 5002 : 50kN 350 : 350mm CO : CANopen 8002:80kN 400:400mm 00 : None

\*1 Equipped with a motor one size larger. Please contact us about compatible models.

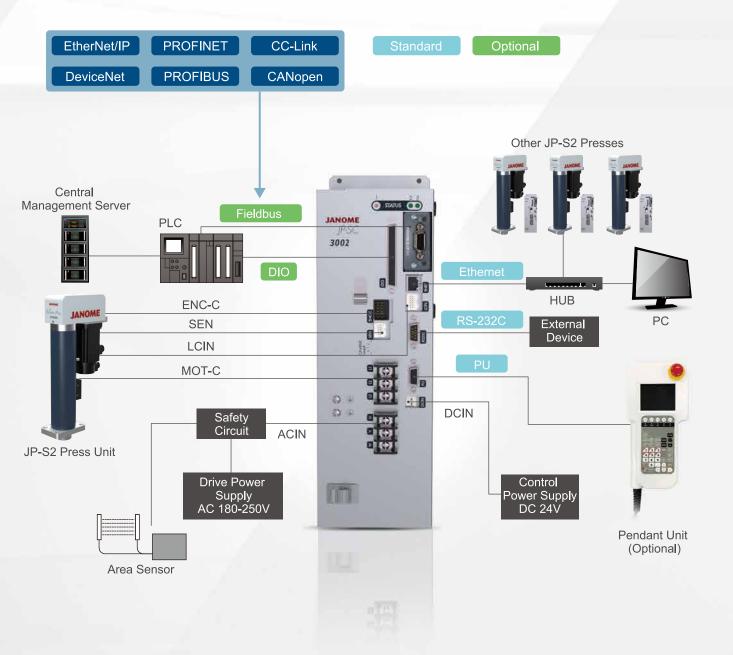
0 : None

- \*2 Compatible strokes vary by model. Please refer to the "Specifications" on pp. 6-7 for details.
- \*3 OmR are flexible cables.
  Flexible cables and cables 10m and longer are not CE compatible.
- \*4 JP-S2002 and smaller models only.

### System Configuration

10T2 : 100kN

20T2: 200kN

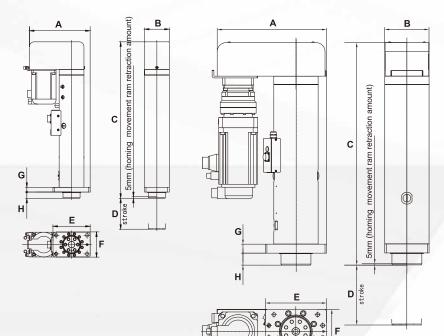


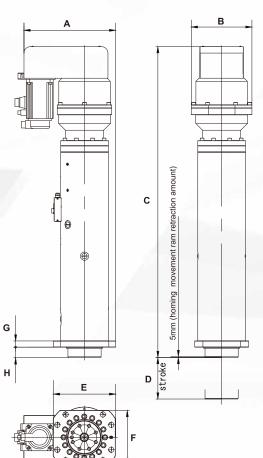
### External Dimensions

### JP-S0502~JP-S3002

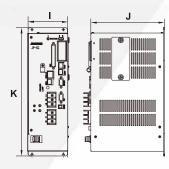
### JP-S5002~JP-S10T2

### JP-S20T2





### Controller



Externa	I Dimen	sions										Unit: Dime	ensions (mm)	Weight(kg)
Model Str	Stroke		Press Unit							Controller				
	o ti o ito	А	В	С	D	Е	F	G	Н	Weight	I	J	К	Weight
JP-S0502	100	155	65	455	100	 95	65	15	20	12				
	150			505	150					13				
JP-51002	JP-S1002 250			655	250					16				
	100			505	100					20	79	163	287	3.1
JP-S1502	200	196	80	645	200	 120 	80	15	20	25				
JP-S2002	300*1	100	80	775	300					28				
	350	7		845	350					30				
	100			570	100					35				
	200			690	200					42				
JP-S3002	300	 259	100	810	300	156	100	23	30	48	104	188	328	4.9
	350			870	350	-				52				
	400			930	400					56				
	100			643	100		148	30	40	98				
JP-S5002	200	365	148	743	200					110				
JP-55002	350	303	140	893	350	- 204	140	30	40	129				
	400			943	400					135				
JP-S8002	200	380	135	820	200	196	135	30	40	99	147	188	365	8
	200			889	200	- 280	200	30	50	198				
JP-S10T2	400	465 20	200		400					235				
	200			1499	200	— 300	260	30	50	392				
JP-S20T2	400	442	292	1699	400					442				

<sup>\*1</sup> The 300mm stroke is available for the JP-S2002 only.

\* The JP-S2002 Long Holding controller is the same size as the JP-S3002 Standard controller, and the JP-S3002 Long Holding controller is the same size as the JP-S5002 Standard controller.

\* Please contact us for more detailed dimensions and /or dimensions not mentioned in this catalog.

### Specifications

	Item	JP-S0502	JP-S1002	JP-S1502	JP-S2002			
Durania a Onancita	Maximum	5kN	10kN	15kN	20kN			
Pressing Capacity	Detection Unit*1	2N	4N	8N	8N			
Ram Stroke		100mm 150mm 250mm	100mm 150mm 250mm	100mm 200mm 350mm	100mm 200mm 300mm 350mm			
D 0	Pressing	0.01~35mm/sec						
Ram Speed	Approaching/Returning	0.01~216	6mm/sec	0.01~200mm/sec				
Maximum Holding Time*2		999.9sec						
Load Display Precision*3		±50N at 0.5kN or more	±100N at 1kN or more	±200N at 2kN or more	±200N at 2kN or more			
Position Repeatability*4		±0.01mm						
Maximum Ram Tip Fixture H	langing Weight	5kg or less	10kg or less	15kg or less	20kg or less			
Power Consumption		200W	400W	750W	750W			
Power Source	Single Phase	400.000//(0/001-2+0)						
Power Source	Three Phase	180~250V	180~250V (50/60Hz) *Single phase types use a single phase drive power supply cable.					

		Common Specifications					
		Pressing at a constant speed: Position Stop / Distance Stop / Load Stop / Differential Load Stop / Event Stop					
Basic Pressing Modes		Pressing at a constant load: Time Stop / Position Stop / Distance Stop / Event Stop					
		Use these combinations to make multistep pressing settings in one program.					
Sensor Functions		Step Sensor / Program Sensor / Load Zone Sensor					
No. of Programs'5		Up to 512					
No. of Pressing Steps'5		Up to 512 (in one program)					
No. of Step Sensors'5		Up to 16 (in one step) Up to 512 (in one program)					
	СОМ	RS-232C 1ch					
	Digital Input/Output (DIO) (optional)	17 Inputs / 16 Outputs *NPN / PNP (specify at time of order)					
External Input/Output	LAN	10BASE-T / 100BASE-TX					
	Field Network (optional)	EtherNet/IP / PROFINET / CC-Link / DeviceNet / PROFIBUS / CANopen (specify at time of order)					
	Other	Load Cell Output, Encoder Output, Analog Monitor Output					
Encoder		Incremental Type					
Display Units		Load Unit: N, kgf, lb Length Unit: mm, inch					
B'arte to a constant	PC Software	Japanese, English, Korean, Chinese					
Display Languages	Pendant Unit	Japanese, English, Korean, Chinese					
Mada Farina and	Surrounding Temperature	0~40°C					
Work Environment	Relative Humidity	20~90% (without condensation)					

<sup>\*1</sup> The load detection unit indicates the resolution (for analog/digital conversion). This differs from load detection precision.

<sup>\*2</sup> Holding times decrease as loads increase. (In some situations, holding times are unattainable.)
Increases in motor temperature can shorten holding times even further.

<sup>\*3</sup> Load display precision is ±1% (FS) of the maximum load when pressing in the range of 10% or more of the maximum load with no influence from increases in temperature.

This is an indicator of sensor measuring unit and accuracy and is not an indicator of load tolerances after pressing or margin of error.

<sup>\*4</sup> Position repeatability is dependent upon the press bearing a constant load at constant press unit and surrounding environmental temperatures.

Repeatability is not a guarantee of absolute position precision.

<sup>\*5</sup> 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.

JP-S3002	JP-S5002	JP-\$5002 JP-\$8002		JP-S20T2	
30kN	50kN	80kN	100kN	200kN	
12N 20N		32N	40kN	80N	
100mm 200mm 300mm 350mm 400mm	100mm 200mm 350mm 400mm	200mm	200mm 400mm		
0.01~3	5mm/sec	0.01~22mm/sec	0.01~16mm/sec	0.01~8mm/sec	
0.01~210mm/sec	0.01~200mm/sec	0.01~135mm/sec	0.01~100mm/sec	0.01~50mm/sec	
		999.9sec			
±300N at 3kN or more	±500N at 5kN or more	±800N at 8kN or more	±1000N at 10kN or more	±2000N at 20kN or more	
		±0.01mm			
30kg or less	50kg or less	80kg or less	100kg or less	200kg or less	
2,000W		5,0			
		-			
		180~250V (50/60Hz)			

#### <Accessories>

- ·Press Unit Cable
- •Power Cable
- ·Operation Manual (CD-ROM)
- JP-S2 Designer PC Software (Windows® 7, Windows® 8.1, Windows® 10, Microsoft Windows® Embedded Standard 7 compatible)

#### <Options>

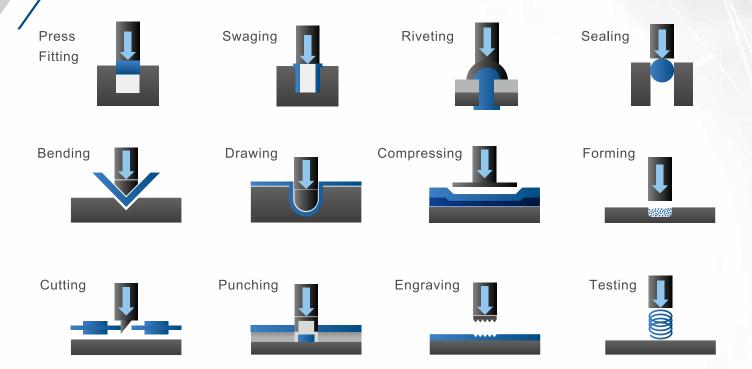
- ·JP-S SaS II System PC Software(Windows® 7, Windows® 8.1, Windows® 10, Microsoft Windows® Embedded Standard 7 compatible)
- •Pendant Unit (with or without emergency stop switch\*) (Length: 2m/3m/5m/10m)
- •Emergency Stop Contact Output Cable\* (Length: 3m/5m)
- •Pendant Unit Short Connector\*
- ·DIO Connector
- •DIO Cable (Length: 2m/3m/5m)
- •Encoder Output Cable (Length: 3m/5m)
- ·Load Cell Output Cable (Length: 3m/5m)
- ·Analog Monitor Output Cable (Length: 2m)
- ·DIN Rail Attachment Plate

\*When using a Pendant Unit equipped with an emergency stop switch, please be sure to construct a cutoff circuit.

An "emergency stop contact point output cable" is necessary when constructing a cutoff circuit.

When disconnecting a Pendant Unit equipped with an emergency stop switch, a "Pendant Unit short connector" is required.

### Janome Servo Presses are ideal for many different applications.



When using our press for metalworking, obey local laws for safety, add a safety device and obtain regulatory approval(s) when required. For more information, please contact us.

Janome Servo Presses are used in a wide range of industries, including automotive, consumer electronics, aerospace, cosmetics and pharmaceuticals.



- 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.

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