Please check our website for product information, application examples, maintenance information and to request materials.

www.janomeie.com

JANOME

Industrial Equipment Catalog

Janome Sewing Machine Co., Ltd.
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JANOME

C00-00(02.1)EN 2018.06-1,000

Realizing the Future

Meeting customer needs with new functionality.
Our responsiveness and flexibility pave the way toward your manufacturing future.

Contents

JANOME: The Answer to Your Manufacturing Needs

Building on technology refined through years of precision sewing machine development, we forge ahead in the high function industrial equipment field. Always on the cutting edge in manufacturing, we devote ourselves to offering the finest quality in everything we do from product development to after sales service.

Our main products, namely servo presses and desktop, Cartesian and SCARA robots are valued by customers worldwide for precision work in a variety of manufacting fields, including the automotive parts, IT and electronics industries.

Headquarters

Head Office and R&D Division

Manufacturing Facilities

Japan

Tokyo Factory

International

Janome Taiwan Co., Ltd

Janome (Thailand) Co., Ltd.

Training Center

Our products are on display at our Training Center located in our Tokyo Headquarters. We sometimes hold seminars and are available to assist customers who want to test our machines. We also have product showrooms at all of our sales offices.

Company Overview

Address	1463 Hazama-machi, Hachioji-shi, Tokyo 193-0941 Japan
Established	October 1921
Incorporated	June 1950
Capital	11.37 Billion Yen (as of 31 March 2018)
Main Businesses	·Manufacture and sale of sewing machines and related products
	·Manufacture and sale of industrial equipment
	·Manufacture and sale of 24-hour self-cleaning bath units
	·Sale of sewing machine products and educational materials for schools, etc.
	·Real estate leasing, etc.

HISTORY

1984	4	Sold our first servo press, the JP-20 Electro Press
1986	12	JP1 Series Electro Press released
1993	4	JR500 Desktop Robot released
	8	JP2 Series Electro Press released
1994	11	JR750 Desktop Robot released
1996	5	JP3 Series Electro Press released
1998	5	JSR4400 Series SCARA Robot released
2000	8	JR2000 Series Desktop Robot released
2003	10	JS Series SCARA Robot released
2004	2	JPE Series Electro Press released
	9	JR2000N Series Desktop Robot released
	10	JSTH Series SCARA Robot released
2005	7	JP Series 4 Electro Press released
2006	6	Nagoya Sales Office opened
	7	JSR4400N Series SCARA Robot released
2007	8	Janome Industrial Equipment USA, Inc. established in Chicago
2008	2	CAST Series Desktop Robot released
	3	JR2000NE Series Desktop Robot released
	4	Janome Industrial Equipment Europe GmbH established in Frankfurt
	5	Fukuoka Sales Office opened
2009	2	JR2000NERT Series Depaneling Desktop Robot released
	10	Osaka Sales Office opened
2010	8	JP-S Series Electro Press released
2011	4	Janome Industrial Equipment (Shanghai) Co. Ltd established
	11	JR-V2000 Series Desktop Robot released
2013	5	JC-2 Series Cartesian Robot released
	11	Janome Industrial Equipment (Taiwan) Co. Ltd established
2014	10	JR3000 Series Desktop Robot released
2015	4	JC-3 Series Cartesian Robot released
	9	Janome Industrial Equipment (Shanghai) Co. Ltd Shenzhen Office opened
2016	9	JP Series 5 Electro Press released
2017	4	JR3000ERT Series Desktop Robot released
	12	JR3000F Heavy Duty Robot released
2018	4	JS3 Series SCARA Robot released

Main Products

Desktop Robots

Dispensing, screw-tightening, soldering, PC board cutting, and more, our versatile desktop robots handle a variety of jobs. Highly rigid construction ensures stable movement. Our simple teaching method makes using the robots easy.

Cartesian Robots

A 3 or 4-axis robot with smooth, precise tracking and high repeatability. The standard model features multiple interface ports; ideal for inline installation. Combine stroke sizes to fit your needs; we offer a wide selection of size configurations.

SCARA Robots

Equipped with a powerful servomotor, our user-friendly, vertical multi-jointed robot is useful for a wide range of jobs, from high-speed small parts pick-and-place to high-precision component assembly.

Servo Presses (Electro Press)

Our high-precision servo presses offer exact control of speed, position and pressure with result data traceability and many sensor functions for effective quality control. We offer a broad lineup from 0.5kN to 200kN, in both unit types for line installation and stand alone column types. Clean room compatible models also available.

Robot Lineup

High precision, user-friendly, with a wealth of applications,
styles and operating ranges, our robots dramatically improve productivity.

Icon Key

- Field Network — Field Network Compatible (Optional) *See p.25 for product options
- USB — USB memory port included as standard equipment
- PLC — Includes a built-in simple PLC function
- LAN — LAN port included as standard equipment
- I/O-MT — I/O-MT Auxiliary Axes Compatible (Optional) *See p.25 for product options
- CE — CE Declared Model

		Desktop Robot Series					Cartesian Robot Series	SCARA Robot Series
		JR3000	JR3000AP-D	JR3000ERT	JR3000F	JR-V2000	JC-3	JS3
Product Image								
Pages		7-8	9-10	11-12	13-14	15-16	17-18	19-20
Features		Flagship desktop robot features state-of-the-art precision, speed and rigidity for a variety of manufacturing applications.	The JR3000 Series Desktop Robot configured with a powerful sensor and camera combination for fine dispensing.	The JR3000 Series Desktop Robot configured with a spindle motor-driven router and dust collecting vacuum system for high quality printed circuit board cutting.	High payload specialist JR3000 Series robot carries a tool mass up to 15kg.	Versatile introductory model desktop robot.	Multifunctional, user-friendly Cartesian robot.	SCARA robot featuring a highly rigid arm for high speed, precision and payload capacity.
Application Software	Standard*	●			●	●	●	●
	Dispensing	●	●		●	●	●	
	Screw Tightening	●				●	●	
	Depaneling			●				
	Pick & Place							● (Coming Soon)

* Standard models are adaptable for creating specialized software for other manufacturing applications.

JR3000 Series

Loaded with useful functions, this high performance desktop robot excels at many different manufacturing roles.

Field Network　LAN　USB　I/O-MT　PLC　CE

Features

Superior Structural Rigidity

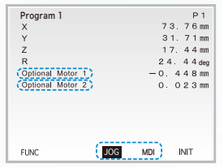
Enhanced rigidity makes the JR3000 faster and more accurate with stable traceability even at high speeds (max. speed 900mm/s).
When a camera is mounted on the Z-mechanism and the robot stops, the oscillation time until the Z-mechanism comes to rest is 50% shorter than for our previous model.

Built-in LAN Port & Optional Fieldbus Port

Choose from among 6 different Field Network modules, including CC-Link, DeviceNet and PROFIBUS. A LAN port is included with the robot; control multiple robots from your PC.

Control up to 6 Axes in Total

Add up to 2 additional stepping or servo motors; teach them together with the 4 robot axes via the teaching pendant.
Use the I/O-MT Auxiliary Axes to change the workpiece direction by mounting it on a turntable, or to control a conveyor from the robot.



Make Settings Using Either JOG or MDI


JOG Keys

Model Name

JR3 20 3 E - A C

JR3000 Series	X, Y Axes Strokes	No. of Axes	Encoder*1	Operation Panel	Power Supply*2
	20 : 200×200㎜ 30 : 300×320㎜ 40 : 400×400㎜ 50 : 510×510㎜ 60 : 510×620㎜	2 : 2 3 : 3 4 : 4	E : Included N : Not Included	A : Installed Switch B : Switchbox C : Basic Switchbox	C : 100-120/200-240V 50/60Hz(No Outlet) 200-240V 50/60Hz(200V Outlet) J : 100-120V 50/60Hz(100V Outlet)

*1 Motor Step-out Detection Function
*2 JR3200 Type is No Outlet only

Compatible Applications
Standard
Dispensing
Screw Tightening

Robot Products

Specifications

3 Axes Specifications

Item	Model*1	3 Axes (Synchronous Control)				
		JR3203	JR3303	JR3403	JR3503	JR3603
Operating Range	X & Y Axes (mm)	200×200	300×320	400×400	510×510	510×620
	Z Axis (mm)	50	100	150	150	150
Maximum Portable Load	X Axis (Workpiece) (kg)	7	15	15	15	15
	Y Axis (Tool) (kg)	3.5	7	7	7	7
Maximum Speed (PTP Drive)*2 ( )=Settable Speed Range	X & Y Axes (mm/sec)	700(7～700)	900(9～900)	900(9～900)	900(9～900)	900(9～900)
	Z Axis (mm/sec)	250(2.5～250)	400(4～400)	400(4～400)	400(4～400)	400(4～400)
Maximum Speed (CP Drive)*2 ( )=Settable Speed Range	X, Y, Z Combined (mm/sec)	600(0.1～600)	850(0.1～850)	850(0.1～850)	850(0.1～850)	850(0.1～850)
Repeatability*3	X & Y Axes (mm)	±0.006	±0.007	±0.007	±0.008	X:±0.008 Y:±0.01
	Z Axis (mm)	±0.006	±0.007	±0.007	±0.008	±0.008
External Dimensions W×D×H (Excluding Protrusions) (mm) ( )=Double Column Type		323×387×554	560×535×659	584×631×807 (615×631×807)	678×731×807	790×731×807
Robot Weight(kg) ( )=Double Column Type		20	35	42 (45)	44	45

4 Axes Specifications

Item	Model*1	4 Axes (Synchronous Control)				
		JR3204	JR3304	JR3404	JR3504	JR3604
Operating Range	X & Y Axes (mm)	200×200	300×320	400×400	510×510	510×620
	Z Axis (mm)	50	100	150	150	150
	R Axis (°)	±360	±360	±360	±360	±360
Maximum Portable Load	X Axis (Workpiece) (kg)	7	15	15	15	15
	Y Axis (Tool) (kg)	3.5	7	7	7	7
Maximum Speed (PTP Drive)*2 ( )=Settable Speed Range	X & Y Axes (mm/sec)	700(7～700)	900(9～900)	900(9～900)	900(9～900)	900(9～900)
	Z Axis (mm/sec)	250(2.5～250)	400(4～400)	400(4～400)	400(4～400)	400(4～400)
	R Axis (°/sec)	600(6～600)	900(9～900)	900(9～900)	900(9～900)	900(9～900)
Maximum Speed (CP Drive)*2 ( )=Settable Speed Range	X, Y, Z Combined (mm/sec)	600(0.1～600)	850(0.1～850)	850(0.1～850)	850(0.1～850)	850(0.1～850)
Repeatability*3	X & Y Axes (mm)	±0.01	±0.01	±0.01	±0.01	±0.01
	Z Axis (mm)	±0.01	±0.01	±0.01	±0.01	±0.01
	R Axis (°)	±0.008	±0.008	±0.008	±0.008	±0.008
External Dimensions W×D×H (Excluding Protrusions) (mm) ( )=Double Column Type		323×387×676	560×535×844	584×631×894 (615×631×894)	678×731×894	790×731×894
Robot Weight(kg) ( )=Double Column Type		22	38	46 (49)	47	48

<Notes>
*1 2 Axes Specifications also available. Please contact us for details.
*2 Maximum speed can vary depending upon conditions. The robot cannot reach maximum speed when bearing the maximum portable load.
*3 Repeatability was measured at a constant temperature and does not represent a guarantee of absolute precision.

JR3000 Series Common Specifications

Item		Content
Program Capacity		999 Programs
Database Capacity*1		Up to 32,000 points
External Input/Output	I/O-SYS*2	16 Inputs / 16 Outputs
	I/O-1*2 *3	8 Inputs/ 8 Outputs (including 4 relay outputs) (optional)
	I/O-MT*2 *3	Controls up to 2 external motors (optional)
	I/O-S	Safety device connector (optional)
	Field Network	EtherNet/IP / PROFINET / CC-Link / DeviceNet / PROFIBUS / CANopen (optional)
	COM1	RS232C (for external devices, COM commands)
	COM2・COM3	RS232C (for external devices) (optional)
	MEMORY	USB memory connector (for saving/reading out teaching & customizing data, system software upgrades)
	LAN	Ethernet connector for PC (for operating the robot using control commands and connecting to "JR C-Points II" PC software)
Power Source (V)		AC100～120／AC200～240 (single phase)
Power Consumption (W)		200

<Notes>
*1 Point data memory capacity reduces as additional function data settings/point job data/PLC program data are added, due to the shared data storage area.
*2 Please choose the I/O polarity: NPN or PNP.
*3 For the JR3200 type, choose only one optional add-on: I/O-1 or I/O-MT.

<Standard Accessories>
・Operation Manual (CD-ROM)　・Power Cable　・Switchbox (included as standard equipment for robots with B type operation panels)　・Basic Switchbox(included as standard equipment for robots with C type operation panels)

JR3200


JR3300


JR3400


JR3500


JR3600


JR3000 Adjustment Package for Dispensing

Make all your settings on the same software!
Dynamic adjustment package dispensing robot.

Field Network　LAN　USB　I/O-MT　PLC

Model Name

JR3 (JR3000 Series) 30 (X, Y Axes Strokes: 30 : 300×320mm, 40 : 400×400mm) 3 (No. of Axes: 3 : 3, 4 : 4) AP-D (Adjustment Package for Dispensing)

Compatible Applications: Dispensing

Features

Adjustment Functions for High Precision Dispensing

1 Camera Adjustment

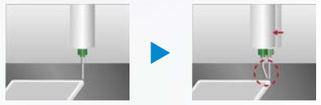
Robot dispenses while adjusting for displaced workpieces.

2 Continuous Position Adjustment

Laser displacement sensor measures workpiece height gradations as the robot moves.

3 Needle Adjustment

Robot automatically finds the current needle position, adjusting for any tip displacement that comes after changing needles, etc.



Making settings is easy from start to finish with our specialized software.

JR C-Points Ⅱ

Needle Adjuster
Set the Needle Standard Position

Camera Adjustment
Set Exposure Time and other Image Settings

Calibration
Match up the Robot and Camera Coordinates

Displacement Sensor
Set the Laser Displacement Sensor Position

Teaching
Capture the image　Choose the icon

Default Settings　Programming

Specifications

Item		Model*1 JR3303	JR3403	JR3304	JR3404
Number of Axes		3 Axes (Synchronous Control)	3 Axes (Synchronous Control)	4 Axes (Synchronous Control)	4 Axes (Synchronous Control)
Operating Range	X & Y Axes (mm)	300×320	400×400	300×320	400×400
	Z Axis (mm)	100	150	100	150
	R Axis (°)	-	-	±360°	±360°
Maximum Portable Load	X Axis (Workpiece) (kg)	14	14	14	14
	Y Axis (Tool) (kg)	5	5	5	5
Maximum Speed (PTP Drive)*2	X Axis(mm/sec)	900	900	900	900
	Y Axis(mm/sec)	800	800	800	800
	Z Axis (mm/sec)	400	400	400	400
	R Axis(°/sec)	-	-	900	900
Maximum Speed (CP Drive)*2	X, Y, Z Combined (mm/sec)	850	850	850	850
Repeatability*3	X & Y Axes (mm)	±0.007	±0.007	±0.01	±0.01
	Z Axis (mm)	±0.007	±0.007	±0.01	±0.01
	R Axis(°/sec)	-	-	±0.008°	±0.008°
External Dimensions W×D×H (Excluding Protrusions)(mm)		628×608×657	651×668×715	628×608×769	651×668×844
Robot Weight (kg)		42	51	44	55
Program Capacity		999 Programs			
Database Capacity*4		Up to 32,000 points			
External Input/Output	I/O-SYS*5 *6	16 Inputs / 16 Outputs			
	I/O-1*5 *6	8 Inputs / 8 Outputs (including 4 relay outputs)			
	I/O-MT*6	Controls up to 2 external motors (optional)			
	I/O-S	Safety device connector (optional)			
	Field Network	EtherNet/IP / PROFINET / CC-Link / DeviceNet / PROFIBUS / CANopen (optional)			
	COM*5	RS232C 3ch (for external devices, COM commands)			
	MEMORY	USB memory connector(for saving/reading out teaching & customizing data, system software upgrades)			
	LAN	For PoE industrial hub connection			
Power Source (V)		AC100~120/AC200~240 (single phase)			
Power Consumption (W)		280			

<Notes>
*1 All robots are double column types
*2 Maximum speed can vary depending upon conditions.
*3 Repeatability was measured at a constant temperature and does not represent a guarantee of absolute precision.
*4 Point data memory capacity reduces as additional function data settings/point job data/PLC program data are added, due to the shared data storage area.
*5 Some I/O are preassigned for system configuration purposes.
*6 Please choose the I/O polarity: NPN or PNP.

<Standard Accessories>
・Power Cable ・Switchbox (also available with optional switch or mode changing switch)
・Operation Manual (CD-ROM) ・PC Software JR C-Points Ⅱ (Windows® 7, Windows® 8.1, Windows® 10 compatible)

JR3303AP-D

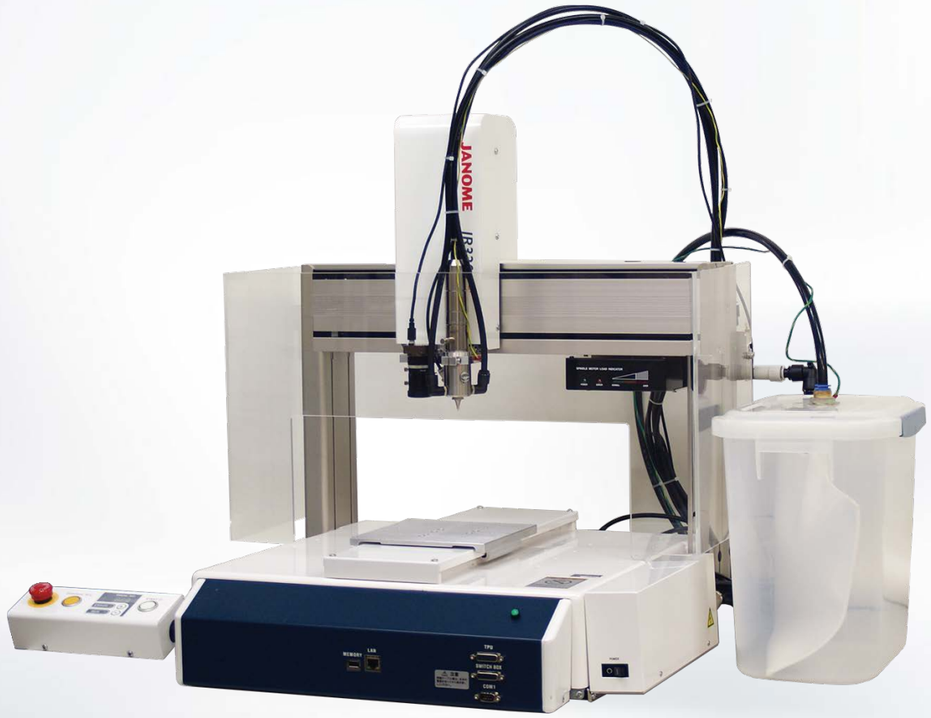
JR3304AP-D

JR3403AP-D

JR3404AP-D

JR3000ERT Depaneling Robot

We added original specialized depaneling software and
a router-based cutting system to the JR3000 Series Desktop Robot
to create a dedicated depaneling machine.



Setup Example (with optional camera)

Field Network　LAN　USB　I/O-MT　PLC

Features

Router Cutting Method

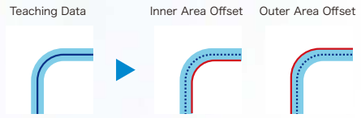
High precision spindle motor makes stress free cuts for smooth and easy depaneling. Cuts straight lines, curves and angles.

Router Bit Wear Signal

An indicator displays router bit sharpness. When the robot's cumulative work hours exceed the limit you set, the switchbox LED shows it is time to replace the bit.

Tool Offset Function

This editing function let you program an offset against the router bit diameter. Also incorporate CAD data for easy and precise cutting.



Model Name

JR3 30 3 ERT

JR3000 Series	X, Y Axes Strokes	No. of Axes	Depaneling
	20 : 200×200㎜ 30 : 300×320㎜ 40 : 400×400㎜ 50 : 510×510㎜ 60 : 510×620㎜	3 : 3	

Compatible Applications

Depaneling

Specifications

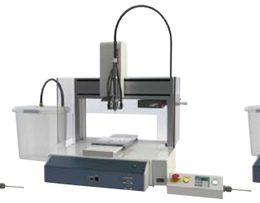
Item		JR3203ERT	JR3303ERT	JR3403ERT (Double Column Type only)	JR3503ERT*8	JR3603ERT*8
Number of Axes		3 Axes				
Depaneling Range Limit	X & Y Axes (mm)	195×190	295×315	395×395	505×505	505×615
	Z Axis (mm)	35	90	82	95	95
Maximum Speed (PTP Drive)*1	X Axis (mm/sec)	700	900	900	900	900
	Y Axis (mm/sec)	700	900	900	900	900
	Z Axis (mm/sec)	250	400	400	400	400
Maximum Speed (CP Drive)*1	X, Y, Z Combined (mm/sec)	600	850	850	850	850
Repeatability*2	X Axis(mm)	±0.006	±0.007	±0.007	±0.008	±0.008
	Y Axis(mm)	±0.006	±0.007	±0.007	±0.008	±0.01
	Z Axis(mm)	±0.006	±0.007	±0.007	±0.008	±0.008
Cutting Trajectory Precision(mm)		0.2(nominal standard)				
External Dimensions W×D×H (Excluding Protrusions)(mm)		350×439×632	618×586×657	647×640×665	678×731×665	790×731×665
Robot Weight (kg)		26	42	51	48	49
Program Capacity		999 Programs				
Database Capacity*3		Up to 32,000 points				
External Input/Output	I/O-SYS*4	16 Inputs / 16 Outputs (using a dedicated I/O for depaneling)				
	I/O-1*4 *5	8 Inputs / 8 Outputs (including 4 relay outputs) (optional)				
	I/O-MT*4 *5	Controls up to 2 external motors (optional)				
	I/O-S	Safety device connector				
	Field Network	EtherNet/IP / PROFINET / CC-Link / DeviceNet / PROFIBUS / CANopen (optional)				
	COM1	RS232C　1ch (for external devices, COM1)				
	MEMORY	USB memory connector (for saving/reading out teaching & customizing data, system software upgrades)				
	LAN	Ethernet connector for PC (for operating the robot using control commands and connecting to "JR C-Points II" PC software)				
Power Source (V)		AC100～120／AC200～240 (single phase)				
Power Consumption (W)		250				
Supplied Air Pressure*6(Mpa)		0.5 (5kgf/㎠)　*Dry Air				
Air Consumption Volume*7(N ℓ /min)		200				
Spindle Motor	Drive Method	DC Brushless Motor				
	Rated Output (W)	21				
	Rated Rotating Speed(r/min)	40,000				
	Chuck	Collet Chuck Method (φ3.175mm)				
Router Bit Gauge (mm)		φ0.8				
Vacuum		Ejector Method				
Filter Box Size (mm)		W215xD305xH305				
Applicable Board Materials		Glass Epoxy, Paper Phenol, etc. (maximum board thickness 1.6mm)				

<Notes>
*1 Maximum speed can vary depending upon conditions.
*2 Repeatability was measured at a constant temperature and does not represent a guarantee of absolute precision.
*3 Point data memory capacity reduces as additional function data settings/point job data/PLC program data are added, due to the shared data storage area.
*4 Please choose the I/O polarity: NPN or PNP.
*5 For the JR3203ERT choose only one optional add-on I/O-1 or I/O-MT.
*6 Be sure to use dry air. Supplying air containing moisture or oil can damage the device.
*7 If the air volume is low, the vacuum will lose pressure, thereby reducing its dust collection efficiency.
*8 The JR3503ERT and JR3603ERT do not come with a safety cover. Please prepare on the end-user side. (These two models are not CE-declared.)

<Standard Accessories>
・Power Cable　・Spindle Motor Set　・Router Bits (cutters)　・Filter Unit　・Vacuum Nozzle (Spare)
・I/O-S Connector　・Safety Cover (except for JR3503ERT・JR3603ERT)　・Switchbox　・Operation Manual (CD-ROM)

JR3203ERT

JR3303ERT



JR3403ERT

JR3503ERT

JR3603ERT

JR3000F Heavy Duty Robot

This robot is equipped with a feedback motor
to carry heavy tool and workpiece payloads.

LAN USB I/O-MT PLC CE

Model Name

JR3 30 3 F

JR3000 Series	X, Y Axes Strokes	No. of Axes	Heavy Duty Robot
	30 : 300×320㎜ 40 : 400×400㎜	3 : 3	

Compatible Applications

Standard

Dispensing

Specifications

Item			JR3303F	JR3403F
Number of Axes			3 Axes (Synchronous Control)	3 Axes (Synchronous Control)
Operating Range	X & Y Axes (mm)		300×320	400×400
	Z Axis (mm)		150	150
Maximum Portable Load	X Axis (Workpiece) (kg)		20	20
	Y Axis (Tool) (kg)		15	15
Maximum Speed (PTP Drive)	X Axis (mm/sec)	up to 5kg	1000	1000
		up to 10kg	800	800
		up to 20kg	600	600
	Y Axis (mm/sec)	up to 1kg	900	900
		up to 5kg	800	800
		up to 10kg	600	600
		up to 15kg	500	500
	Z Axis (mm/sec)	up to 5kg	400	400
		up to 10kg	300	300
		up to 15kg	200	200
Maximum Speed (CP Drive)*1	X, Y, Z Combined (mm/sec)		850	850
Repeatability*2	X, Y, and Z Axes (mm)		±0.01	±0.01
External Dimensions W×D×H (Excluding Protrusions) (mm)			560×535×807	615×631×807
Robot Weight (kg)			36	45
Program Capacity			999 Programs	
Database Capacity*3			Up to 32,000 points	
External Input/Output	I/O-SYS*4		16 Inputs/ 16 Outputs	
	I/O-1*4		8 Inputs/ 8 Outputs (including 4 relay outputs) (optional)	
	I/O-MT*4		Controls up to 2 external motors (optional)	
	I/O-S		Safety device connector (optional)	
	COM1		RS232C (for external devices, COM commands)	
	COM2・COM3		RS232C (for external devices) (optional at time of order)	
	MEMORY		USB memory connector (for saving/reading out teaching & customizing data, system software upgrades)	
	LAN		Ethernet connector for PC (for operating the robot using control commands and connecting to "JR C-Points II" PC software)	
Power Source (V)			AC100～120／AC200～240(single phase)	
Power Consumption (W)			200	

<Notes>
*1 These figures are the maximum settable values. Maximum speed can vary depending upon conditions. Maximum speed cannot be reached when the robot is bearing its maximum load.
*2 Repeatability was measured at a constant temperature and does not represent a guarantee of absolute precision.
*3 Point data memory capacity reduces as additional function data settings/point job data/PLC program data are added, due to the shared data storage area.
*4 Please choose the I/O polarity: NPN or PNP.

<Standard Accessories>
・Operation Manual (CD-ROM) ・Power Cable

JR3303F

JR3403F

Features

Built Stronger for Heavier Tools and Workpieces

Ideal for heavy tool operations such as large tank dispensing or hot melt dispensing with a heater.

Maximum Work Weight 20kg

Maximum Tool Weight 15kg

Z-Axis Brake

Keeps the Z-Axis from falling during emergency stops or if the main power supply is cut, preventing damage to the tool & workpiece.

JR-V2000 Series

Introductory Model Desktop Robot Offers
High Functionality at an Economic Price

PLC

Features

Easy to Master

User-friendly teaching: quickly teach complicated functions including dispensing liquid purging, or tightening positions for miniature screws. Multi-lingual teaching pendant: program and run the robot in the operator's preferred language. Switch among English, Spanish, Korean, Vietnamese and more!

Flexible General Purpose Desktop Robot

Ideal for a variety of roles in your assembly process; use the Standard Model as a pick-and-place robot, or attach a camera and use it as an inspection device.

Model Name

JR-V2 30 3

- JR-V2 — JR-V2000 Series
- 30 — X, Y Axes Strokes
  - 20 : 200×200㎜
  - 30 : 300×320㎜
  - 40 : 400×400㎜
- 3 — No. of Axes
  - 3 : 3

Compatible Applications

- Standard
- Dispensing
- Screw Tightening

Specifications

Item	Model	JR-V2203	JR-V2303		JR-V2403
Number of Axes		3 Axes (Synchronous Control)	3 Axes (Synchronous Control)		3 Axes (Synchronous Control)
Operating Range	X & Y Axes (mm)	200×200	300×320		400×400
	Z Axis (mm)	50	50	100	100
Maximum Portable Load	X Axis (Workpiece) (kg)	5	5		5
	Y Axis (Tool) (kg)	2*1	2*1		2
Maximum Speed (PTP Drive)*2 ( )=Settable Speed Range	X & Y Axes (mm/sec)	500(5～500)	500(5～500)		500(5～500)
	Z Axis (mm/sec)	200(2～200)	200(2～200)		200(2～200)
Maximum Speed (CP Drive)*2 ( )=Settable Speed Range	X, Y, Z Combined (mm/sec)	500(0.1～500)	500(0.1～500)		500(0.1～500)
Repeatability*3	X, Y & Z Axes (mm)	±0.01	±0.01		±0.01
External Dimensions W×D×H (Excluding Protrusions) (mm)	Dispensing	320×364×549	560×507×609	560×507×655	584×607×755
	Screw Tightening	320×443×549	560×590×609	560×590×655	584×650×755
	Standard	320×364×549	560×507×609	560×507×655	-
Robot Weight (kg)	Dispensing	17	30	31	37
	Screw Tightening	18	31	32	38
	Standard	17	30	31	-
Program Capacity		255 Programs			
Database Capacity*4		Up to 30,000 points			
External Interface		Teaching Pendant Port (RS422) PC Port (RS232C) RS232C 2ch (for external devices COM2, COM3) (Optional)			
External Input/Output*5	Dispensing	I/O-SYS 8 Inputs/ 8 Outputs I/O-DSP 1 Input／2 Outputs(including 1 relay output) Needle Adjuster Connector Port (optional)			
	Screw Tightening	I/O-SYS (for screwdriver connection) 8 Inputs/ 8 Outputs * 2 outputs dedicated for the ejector I/O-1 8 Inputs/ 6 Outputs			
	Standard	I/O-SYS 8 Inputs/ 8 Outputs I/O-1 8 Inputs/ 6 Outputs(Optional)			
Power Source (V)		AC100～120／AC200～240(single phase)			
Power Consumption (W)		150			

Specification Based Features

Dispensing	Purge Switch (dedicated switch on the front panel) Start Box Specifications (for purge switch inclusion)
Screw Tightening*6	Maximum Tightening Torque 0.2Nm (2kg-cm) Recommended Screw Size M1.0~M2.0 (provided the maximum tightening torque is not exceeded) Ejector/Regulator included as standard equipment (for screw pickup) Screw Tightening set includes: Screw Tightening Model Robot, electric screwdriver and automatic screw feeder Start Box Specifications
Standard	I/O-1 Add-on (optional)

<Notes>
*1 We also offer a "High Payload" type for the 50mm Z-Axis operating range which bears a tool load up to 3kg. Please contact us about compatible applications.
*2 Maximum speed can vary depending upon conditions. Maximum speed cannot be reached when the robot is bearing its maximum load.
*3 Repeatability was measured at a constant temperature and does not represent a guarantee of absolute precision.
*4 Point data memory capacity reduces as additional function data settings/point job data/PLC program data are added, due to the shared data storage area.
*5 I/O polarity is NPN only.
*6 Maximum tightening torque must not exceed 0.2Nm.

<Standard Accessories>
・Operation Manual (CD-ROM) ・Power Cable

JR-V2203

JR-V2303

JR-V2403

JC-3 Series

The User-friendliness and Functionality of Our Desktop Robots
Loaded into Versatile 3 & 4 Axes Cartesian Robots

*Cableveyor is optional.

Field Network LAN USB I/O-MT PLC CE

Features

Excellent Path Traceability

Configured with dispensing in mind, the JC-3 Cartesian Robot is finely tuned for smooth movement and path traceability.

Comprehensive Lineup

Two types are available, single and double sided, with a wide range of X, Y, Z axes stroke lengths. Add a 4th axis and jobs such as dispensing or soldering on the wall of a cylindrical workpiece are much easier.
An optional Absolute Specification Type is available for the 3 Axes model.

4 Axes Model


Dispensing with 4 Axes

All-in-One

The controller comes with our user-friendly teaching software installed. Use our teaching pendant for simple, interactive teaching without making a lot of troublesome settings.

Model Name

JC-3 A00 - 0 T 3

JC-3 Series	Specifications	Support Configuration	No. of Axes
	C0N : Incremental (2 Axes) A00 : Incremental (3 Axes) B01 : Incremental (4 Axes) D00 : Absolute (3 Axes)	T: Single-sided H: Double-sided	2 : 2 3 : 3 4 : 4

Compatible Applications

Standard

Dispensing

Screw Tightening

Specifications

Item		3 Axes		4 Axes
Model		JC-3A00-0T3(Single-sided)	JC-3A00-0H3(Double-sided)	JC-3B01-0H4(Double-sided)
Number of Axes		3 Axes (Synchronous Control)		4 Axes (Synchronous Control)
Operating Range	X Axis (mm)	200/300/400/500/600	300/400/500/600	300/400/500/600
	Y Axis (mm)	200/300	300/400/500	300/400/500
	Z Axis (mm)	50/100/150/200	50/100/150/200	100/150
	R Axis (°)	-	-	±360
Maximum Portable Load(kg)		4	8	3
Maximum Speed (PTP Drive)*1	X(mm/s)	800		800
	Y(mm/s)	800		800
	Z(mm/s)	400		400
	R(°/s)	-		900
Repeatability*2	X & Y Axes (mm)	±0.02		±0.02
	Z Axis (mm)	±0.02		±0.01
	R Axis (°)	-		±0.008
External Dimensions(mm)	Robot Unit	W: Y Axis Stroke +319	W: Y Axis Stroke +426	W: Y Axis Stroke +426
		D: X Axis Stroke +309	D: X Axis Stroke +309	D: X Axis Stroke +309
		H: Z Axis Stroke +357	H: Z Axis Stroke +357	H: Z Axis Stroke +334
	Controller	W170×D310×H300		W170×D310×H300
Program Capacity		999 Programs		
Database Capacity*3		Up to 32,000 points		
External Input/Output	I/O-SYS*4	16 Inputs/ 16 Outputs		
	I/O-1*4	8 Inputs/ 8 Outputs		
	I/O-MT*4	Controls up to 2 external motors (optional)		
	Field Network	EtherNet/IP / PROFINET / CC-Link / DeviceNet / PROFIBUS / CANopen (optional)		
	COM Port(RS232C)	COM1, COM2, COM3 (for external devices)		
	EMG OUT	Emergency stop signal input for external safety circuit connection (set up by end user)		
	MEMORY	USB memory connector (for saving/reading out teaching & customizing data, system software upgrades)		
	LAN	Ethernet connector for PC (for operating the robot using control commands and connecting to "JR C-Points II" PC software)		
Power Source*5(V)		AC90~240 (single phase) + external DC48 (depending upon facility power supply)		
Power Consumption (W)		150 (AC power supply), 300 (DC48V, motor drive power supply)		

<Notes>
*1 There are limitations depending upon driving conditions and stroke lengths.
*2 Repeatability was measured at a constant temperature and does not represent a guarantee of absolute precision.
*3 Point data memory capacity reduces as additional function data settings/point job data/PLC program data are added, due to the shared data storage area.
*4 Please choose the I/O polarity: NPN or PNP.
*5 Please prepare a DC48V power supply at the end user side.

<Standard Accessories>
·Power Cable ·Teaching Pendant Short Connector ·Switchbox Short Connector ·EMG-OUT Connector ·Operation Manual (CD-ROM) ·Controller Wall Mounting Plate

JC-3A00-0T3

JC-3A00-0H3

JC-3B01-0H4

Controller

JS3 Series

Cut costs with our user-friendly, fast and highly functional SCARA Robot!

Field Network　LAN　USB　I/O-MT　PLC

Model Name

JS3 - 35 20

JS3 Series	Maximum Arm Length	J3 Axis Operating Range
	35:350mm 45:450mm 55:550mm	20:200mm

Compatible Applications

Standard

Pick & Place

Specifications

Item		JS3-3520	JS3-4520	JS3-5520
Number of Axes		4 Axes		
Arm Length (mm)	Maximum Arm Length (J1+J2)	350	450	550
	J1 Arm	125	225	325
	J2 Arm	225		
Operating Range	J1 Axis (°)	340(±170)		
	J2 Axis (°)	290(±145)		
	J3 Axis (mm)	200		
	J4 Axis (°)	720(±360)		
Portable Mass (kg)		Maximum 6 (Rating 3)		
Acceptable Moment of Inertia (kgm²)		Maximum 0.12 (Rating 0.01)		
Maximum Speed	J1+J2+J4 Axes Combined (mm/sec)*1	6900	7600	8300
	J3 Axis (mm/sec)	2080		
	J4 Axis (°/sec)	2500		
Standard Cycle Time (sec)*2		0.29		
Repeatability*3	J1+J2 Axes Combined (mm)	±0.010	±0.010	±0.012
	Axis (mm/sec)	±0.010		
	J4 Axis (°)	±0.004		
J3 Axis Resistance*4		165N		
External Dimensions*5 WxDxH (Excluding Protrusions) (mm)	Robot	174×572×798	174×672×798	174×772×798
	Controller	400×350×288		
Weight (kg)	Robot	36	36	37
	Controller	16		
Tool Wiring		·I/O-H 8 Hand Inputs/ 8 Hand Outputs ·LAN Cable <100BASE-TX>		
Air Piping		Primary: φ6×2 Secondary: φ4×8*6		
Program Capacity		999 Programs		
Database Capacity*7		Up to 32,000 points		
External Input/Output	I/O-SYS*8	15 Inputs/ 14 Outputs		
	I/O-1*8	18 Inputs/ 22 Outputs (including 4 relay outputs)		
	I/O-MT*8	Controls up to 2 external motors (optional)		
	I/O-S	Safety device connector (optional)		
	I/O-H*8	8 Hand Inputs/ 8 Hand Outputs		
	Field Network	EtherNet/IP / PROFINET / CC-Link / DeviceNet / PROFIBUS / CANopen (optional)		
	COM1, COM2	RS232C (for external devices, COM commands)		
	MEMORY	USB memory connector (for saving/reading out teaching & customizing data, system software upgrades)		
	LAN	Ethernet connector for PC (for operating the robot using control commands and connecting to "JR C-Points II" PC software)		
Power Source (V)		AC200~240(single phase)		
Power Consumption (W)		1600		

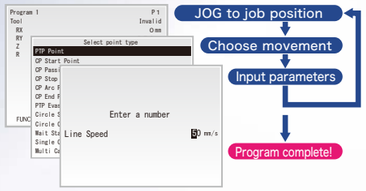
<Notes>
*1 This is the J1, J2 and J4 axes' maximum speed with a control point on a flat X-Y surface. (The control point is a position 30mm from the center of the J4 axis' rotation.)
*2 Value when bearing a 2kg load. Cycle time may increase when precision workpiece positioning is necessary or due to the robot's operating position(s).
*3 Repeatability is not a guarantee of absolute precision.
*4 The downwards pressing force at the tip of the load when the robot is bearing its maximum load and the J1, J2 and J4 axes are at rest. An excess load error may occur if a pressing force is applied for an extended period of time.
*5 These are the dimensions when the J1 and J2 Axes' position is 0°.
*6 The φ4 secondary piping is used when the optional solenoid valve is added.
*7 Point data memory capacity reduces as additional function data settings/point job data/PLC program data are added, due to the shared data storage area.
*8 Please choose the I/O polarity: NPN or PNP.

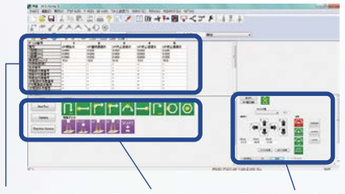
<Standard Accessories>
·Operation Manual (CD-ROM) ·Short Connectors (for Teaching Pendant, I/O-S and I/O-SYS) ·Robot-Controller Connector Cable

Features

User-Friendly Teaching

Teach using our interactive teaching pendant or get a hands-on feel for the robot's operation teaching via our PC software.





Programming Area
Directly input and edit program data.

Basic Operation Area
Program just by choosing the icons you want.

Robot Operations Area
Use the operation icons to make JOG movements.

Works Fast!

Our standard cycle time is top class: 0.29sec, with a maximum speed of 8,300mm/sec, helpful for shorter tact times and greater efficiency.

Cable Interference Prevention

Axis tip available with interior hand wiring and piping for compact, streamlined hand installation.

JS3-3520

JS3-4520

JS3-5520

Controller

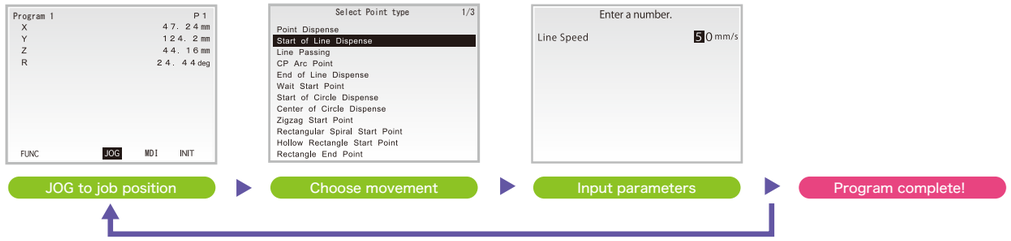
Software

From first-time users to seasoned professionals, a system software for everyone!

We offer dedicated software designed for individual applications, each with a comprehensive set of operation commands new users can use easily for program teaching.

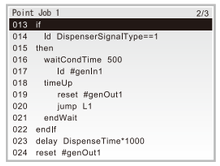
▶ Please refer to pp. 5 and 6 for details about compatible applications for each robot

User-Friendly Teaching

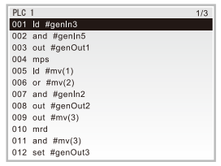


Standard Application

With our original application-based robot language, users can freely create programs with the operations they want using easy-to-understand "Point Commands".
Our software is designed with helpful functions: with our "Customizing Function" users can create their own program applications and our "Simple PLC Function" lets the robot communicate with peripheral devices without using an external PLC.



Point Job Command Setting Screen

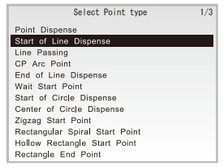


Simple PLC Setting Screen

Dispensing Application

With our dedicated dispensing software, teach by pointing the dispenser needle tip to the position you want and select the type of dispensing movement (point dispense, line dispense, fill-in dispense, etc.)

Fill-in Dispensing Function



Point Type Selection Screen

Screw Tightening Application

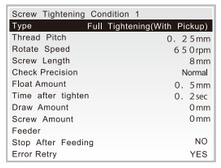
With our dedicated screw tightening software, teach a program just by setting screw tightening conditions such as screw length, pitch, driver rpm, etc., and specifying the tightening positions.

Screw Tightening Operation Types

- Full Tightening
- Tighten with Float Amount
- Partial Tightening
- Unscrew

Error Detection Functions

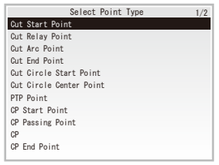
- Spinning Screws
- Floating Screws



Screw Tightening Condition Setting Screen

Depaneling Application

This dedicated depaneling software for the JR3000ERT includes a function notifying when it is time to change the spindle motor router bit.



Point Type Selection Screen

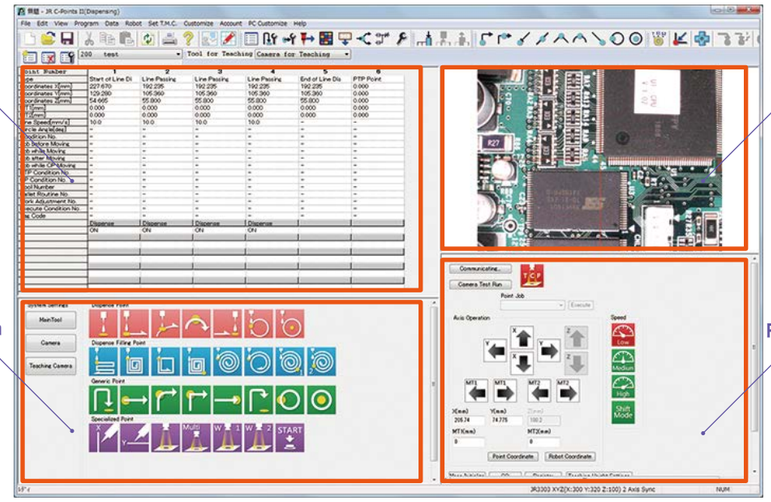
"JR C-Points II" PC software*1 (optional)

JR C-Points II is our original application software for creating, editing and saving program teaching and customizing data.

*1 JR-V2000 uses "JR C-Points".

USB Camera Teaching

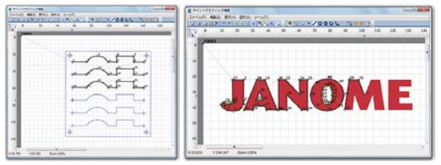
Connect a store-bought USB camera*2 and teach while referring to enlarged images of your workpiece.



*2 Please contact us for details about compatible USB cameras.

Point Graphic Editing Function

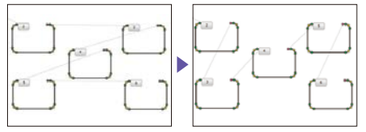
Import DXF or Gerber data and automatically generate point data. Refer to background image data (.jpeg format) when creating movement paths. Track and edit the robot's path in the teaching data; create programs while viewing an image of the entire workpiece, etc.



Check and edit the robot's path and see the overall picture of your workpiece when programming.

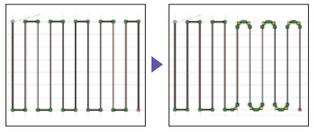
Teach while referring to a .jpeg image.

Point Order Sorting Function (for shorter cycle times)



Sorting from left to right to shorten the moving distance.

Corner Angle Rounding Function



Designate a radius by clicking on a connecting point.

Software Specifications

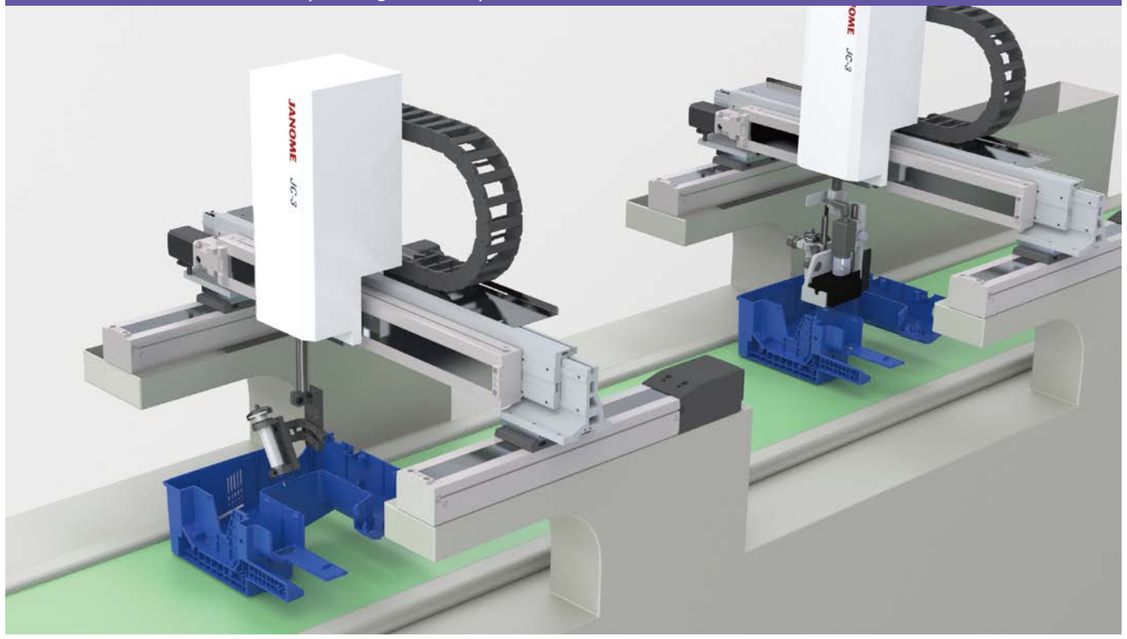
	JR3000	JR3000F	JR3000ERT	JR3000AP-D	JR-V2000	JC-3	JS3
PC Software Name	JR C-Points II				JR C-Points	JR C-Points II	
Usable Display Languages	English, Japanese, German, Chinese (Simplified & Traditional)			English, Japanese, Chinese (Simplified & Traditional)	English, Japanese, Chinese(Simplified)	English, Japanese, German, Chinese (Simplified & Traditional)	
Compatible PC Operating Systems	Windows®7、Windows®8.1、Windows®10						

Application Examples

▶ Please refer to pp. 5 and 6 for details about compatible applications for each robot.

JR3000AP-D dispensing with uniform clearance on a gradated workpiece

4 Axes Cartesian Robots dispensing on workpiece walls



Tightening miniature screws on a smartphone

Dispensing on a printed circuit board

Low-stress printed circuit board depaneling

Automated soldering

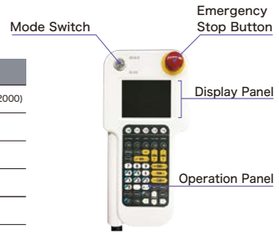
SCARA Robots performing pick & place

Options

Teaching Pendant

・Each axis has independent JOG keys for a hands-on feel when moving from point to point
・Switch freely among multiple screen display languages
・Useful for programming and running diagnostics in locations where you cannot bring a PC

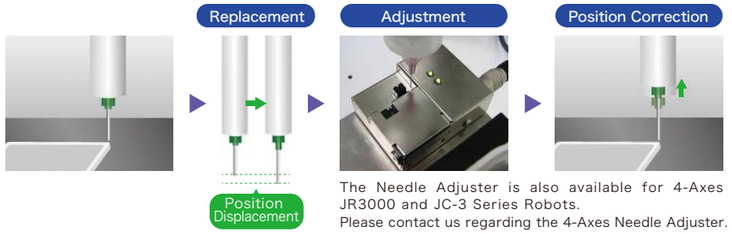
	JR3000	JR3000 AP-D	JR3000 ERT	JR3000F	JR-V2000	JC-3	JS3	Notes
Standard Type (No Emergency Stop Switch)	●	●	●	●	●			Cable Lengths: 2m/3m/5m (2m only for JR-V2000)
With Emergency Stop Switch	●	●	●	●		●		Cable Lengths: 2m/3m/5m
With Emergency Stop & Enable Switches	●	●	●	●		●		Cable Lengths: 2m/3m/5m
With Emergency Stop, Enable & Mode Switches							●	Cable Lengths: 2m/3m/5m
Interchangeable Display Units	mm, inch							
Interchangeable Display Languages	English, Spanish, German, French, Italian, Japanese, Korean, Chinese (Simplified & Traditional), Czech, Vietnamese							JR-V2000 does not have Traditional Chinese. JR3000AP-D is mainly PC software operated.



JS3 Teaching Pendant

Needle Adjuster (Dispensing Models only)

This function detects and corrects any needle tip position displacement occurring after needle replacement.
Just set the standard position and run the adjustment program after changing needles. The robot adjusts automatically.



The Needle Adjuster is also available for 4-Axes JR3000 and JC-3 Series Robots.
Please contact us regarding the 4-Axes Needle Adjuster.


3-Axes Needle Adjuster PR1・PR2

Model	Needle Gauge	Compatible Robots	Variation
PR1	ϕ0.35~2.50mm	3-Axes	Cable Lengths: 1m/5m *Choose NPN or PNP
PR2	ϕ0.20~1.00mm	3-Axes	Cable Lengths: 1m/5m *Choose NPN or PNP

I/O-MT* *Not available with the JR-V2000

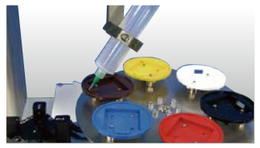
Add up to 2 pulse string input type motors (stepping, servo, etc.) and control them from the robot.

Example: 2 Motors added to a 4-Axis Robot

2 motors are added to modify the syringe angle and workpiece angle. The robot dispenses along the edge of a hole cut through a tube-shaped piece.

Example: Dispensing on a Turntable

A 4-Axes robot dispenses on multiple workpieces set on a rotating worktable.



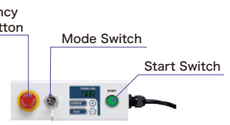
Switchbox・Operation Box* ＊ Excluding Built-in Switches Types

Select and start programs, change modes and more.

○:Included on Box
●:Optional Add-on

		JR3000	JR3000 AP-D	JR3000 ERT	JR3000F	JR-V 2000	JC-3	JS3	Notes
Switchbox	Standard	○*1	○		○*1				Cable Lengths: 1.5m (Standard)/1m
	Mode Switch	●*1	●		●*1				Cable Lengths: 1.5m (Standard)/1m
	Optional Switch	●	●	○	●	●*2			Cable Lengths: 1.5m (Standard)/1m
	Mode Switch, Optional Switch	●*3			●*3				Cable Lengths: 1.5m (Standard)/1m
	Initialization Switch						●		Cable Lengths: 2m/5m
	Initialization Switch, Mode Switch						●		Cable Lengths: 2m/5m
	Initialization Switch, Purge Switch						●		Cable Lengths: 2m/5m
	Initialization Switch, Mode Switch, Purge Switch						●		Cable Lengths: 2m/5m
	Operation Box							●	Vertical/Horizontal Placement

*1 Switchbox or Basic Switchbox is available according to robot operation panel specs. *2 JR-V2000 cable is 1.5m only. *3 Basic Switchbox only



【Switchbox Specs】
Mode Switch

【Basic Switchbox Specs】
Mode Switch, Optional Switch

Field Networks* *Not available with the JR-V2000

Acquire and set point and position data information from an external PLC, etc. Choose from among these 6 networks.

EtherNet/IP PROFINET CC-Link DeviceNet PROFIBUS CANopen

Attachments

○:Included with Robot
●:Optional Add-on

Category	Product	Variation	JR3000	JR3000 AP-D	JR3000 ERT	JR3000F	JR-V2000	JC-3	JS3	Notes
Robot Unit Options	Field Networks*	EtherNet/IP	●	●	●	—	—	●	●	
		PROFINET	●	●	●	—	—	●	●	
		CC-Link	●	●	●	—	—	●	●	
		DeviceNet	●	●	●	—	—	●	●	
		PROFIBUS	●	●	●	—	—	●	●	
		CANopen	●	●	●	—	—	●	●	
	Additional Interfaces*	I/O-SYS	○	○	○	○	○	○	○	JR3000 Series：17Inputs/16 Outputs JR-V2000：8 Inputs/8 Outputs JC-3：16 Inputs/16 Outputs JS3：15 Inputs/14 Outputs
		I/O-1	●	●	●	●	●	○	○	JR3000 Series：8 Inputs/8 Outputs(including 4 relay outputs) JR-V2000：8 Inputs/6 Outputs(I/O-DSP for Dispensing Model) JC-3：8 Inputs/8 Outputs JS3：18 Inputs/22 Outputs(including 4 relay outputs)
		I/O-MT	●	●	●	●	—	●	●	Control up to 2 External Motors
		I/O-S	●	●	○	●	—	○	○	Marked as EMG-OUT on the JC3.
		COM1	○	○	○	○	○	○	○	
		COM2・COM3	●	○	●	●	●	○	○	JS3 has only COM2.
	Internal I/O Power Supply*		●	○	—	●	—	●	○	
	Cableveyor Set (JC-3)		—	—	—	—	—	●	—	For X Axis/for Y Axis
	Optional Cover for 3 Axes Type (JC-3)		—	—	—	—	—	●	—	Motor Assembly Panel Z Axis: 50-100mm/150-200mm
	Solenoid Valve (JS3)		—	—	—	—	—	—	●	For Air Piping (Please choose NPN/PNP when ordering)
	Hand Cable Curled Tube (JS3)		—	—	—	—	—	—	●	
	Hand Wiring and Tubing (JS3)		—	—	—	—	—	—	●	
	External Wiring and Tubing Box (JS3)		—	—	—	—	—	—	●	
Cables	I/O-SYS Cable		●	—	—	●	●	●	—	Cable Lengths: Connector only/2m/3m/5m
	I/O-1 Cable		●	●	●	●	●	●	●	Cable Lengths: Connector only/2m/3m/5m
	I/O-MT Cable		●	●	●	●	—	●	●	Cable Lengths: Connector only/0.5m/1m/3m/5m
	Robot Unit-Controller Cable		—	—	—	—	—	●	○	JC-3：2/3/4 Axes Types (Cable Lengths:3/5/10/20m) JS3：Cable Lengths: 5m(Standard Accessories) 10m/15m/20m(optional)
	Hand Output Cable (JS3)		—	—	—	—	—	—	●	
	Hand Input Cable (JS3)		—	—	—	—	—	—	●	
	Switchbox Short Connector		●	●	●	●	—	○	○	
	Teaching Pendant Short Connector		●	●	●	●	—	○	○	
Other	PC Software		●	○	●	●	●	●	●	
	Service Manual		●	●	●	●	●	●	●	Japanese/English
	USB Camera		●	—	●	●	—	●	●	USB Camera Teaching
	Positioning Pin Set (JC-3)		—	—	—	—	—	●	—	Used for positioning during setup
	Mechanical Stopper for J1 Range Modification		—	—	—	—	—	—	●	
	J1/J2 Adjustment Tool (JS3)		—	—	—	—	—	—	●	
Model Options	Screw Tightening	Screwdriver Unit	●	—	—	—	●	—	—	Screwdriver mounting fixture Please ask us about compatible screwdrivers.
		Screw Feeder Attachment Plate	●	—	—	—	●	—	—	Screw Feeder mounting fixture Please ask us about compatible screw feeders.
		Ejector Unit *	●	—	—	—	●	●	—	Screw Vacuum Microejector Unit
	Dispensing	Needle Adjuster	●	○	—	●	●	●	—	For 3 Axes Type (4 Axis type included for JR3000AP-D 4 Axes Robot)

*Unit optional at time of order

Servo Press Lineup

High-precision servo presses provide exact control over speed, position and pressing force.
We offer a wide range of models, from inline types for assembly lines to stand alone
C-frame models to clean room compatible types for a variety of applications.

Icon Key

- Field Network — Field Network Compatible (Optional)
- USB — USB memory port included as standard equipment
- LAN — LAN port included as standard equipment
- Clean Room — Clean Room Compatible Models Available
- CE — CE Declared Model

		Electro Press		
		JP Series 5	JP Series 4 Stand Alone Type	JP-S Series
Product Image				
Pages		29-30	31-32	33-34
Features		Dependable "visualized" new generation servo press increases productivity.	Standard servo press model offers high precision, comprehensive control and user-friendly operation.	Slim and compact servo press ideal for inline installation.
Pressing Capacity	0.5kN	●	●	
	1kN	●	●	
	2kN	●	●	
	5kN	●	●	●
	10kN	●	●	●
	15kN		●	●
	20kN	●	●	●
	30kN	●	●	●
	50kN	●	●	●
	80kN	●		
	100kN			●
	200kN			●
Clean Room		●(Class 10*)	●(Class 10*)	●(Class 1000*)

*Clean class based upon US Federal Standard 209D (FED-STD-209D)

JP Series 5

New Model Servo Press:
Excellent Speed, High Precision and Ready for IoT Era Facilities

Field Network　LAN　USB　CE　Clean Room

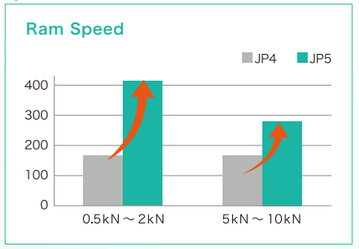
Features

Ideal for replacing an air or oil press

Easier on the environment than conventional pneumatic or hydraulic presses; less noisy and with a lower running cost.

Higher speed for greater productivity

Maximum ram speed 414mm/sec
The highest speed in the lightweight servo press industry greatly shortens cycle times.



Improved Production Quality

・Load Precision　**±0.8% FS**
・Position Repeatability　**±0.005mm**
・Comprehensive Sensor Functions

Model Name

JPU -1005 L - B C N I 150

Type	Pressing Capacity	Specs	Controller	Rating	Pulley Box Direction	Model Type	Stroke
JPU: Unit Type	0055 : 0.5kN 0105 : 1kN 0205 : 2kN 0505 : 5kN 1005 : 10kN 2005 : 20kN 3005 : 30kN 5005 : 50kN 8005 : 80kN	N: Standard L: Long C: Clean	B: Standard C: Compact	C:CE	N: Standard R: Facing Right L: Facing Left B: Facing the Rear	I : Incremental A*: Absolute	0.5～2kN 080 : 80㎜ 5～10kN 100 : 100㎜ 150 : 150㎜ 20～80kN 200 : 200㎜ 400 : 400㎜

*Please contact us about compatible models.

Specifications

Item	Model	JPU-0055	JPU-0105	JPU-0205	JPU-0505	JPU-1005
Pressing Capacity	Maximum (kN)	0.5	1	2	5	10
Ram Stroke	Maximum (mm)	80	80	80	100(L:150)	100(L:150)
Ram Speed	Pressing Time (mm/sec) *1	0.01～35	0.01～35	0.01～35	0.01～35	0.01～35
	Approach-Return Time(mm/sec)	0.01～414	0.01～414	0.01～414	0.01～280	0.01～280
Maximum Holding Time at Max. Load (sec)*2		999.9	360	20	999.9	25
Load Precision*3		25N or more ±4N	50N or more ±8N	100N or more ±16N	250N or more ±40N	500N or more ±80N
Position Repeatability(mm)*4		±0.005	±0.005	±0.005	±0.005	±0.005
Tool Weight Hanging from Ram Tip (kg)		1 or less	2 or less	4 or less	10 or less	20 or less
Power Consumption(W)	Standard Controller	400	400	400	950	950
	Compact Controller	200	200	200	750	750
Power Source (V)		Single Phase/Three Phase 200~240 ±10%(50/60Hz)				
External Dimensions (mm)*5		116×425×218	116×425×218	116×425×218	146×502×258	146×502×258
Weight(kg)*5		17	17	17	34	34

Item	Model	JPU-2005	JPU-3005	JPU-5005	JPU-8005
Pressing Capacity	Maximum(kN)	20	30	50	80
Ram Stroke	Maximum(mm)	200(L:400)	200(L:400)	200(L:400)	200(L:400)
Ram Speed	Pressing Time(mm/sec)*1	0.01～35	0.01～35	0.01～35	0.01～35
	Approach-Return Time(mm/sec)	0.01～320	0.01～320	0.01～320	0.01～250
Maximum Holding Time at Max. Load (sec)*2		80	30	20	8
Load Precision*3		1kN or more ±160N	1.5kN or more ±240N	2.5kN or more ±400N	4kN or more ±640N
Position Repeatability(mm)*4		±0.005	±0.005	±0.005	±0.005
Tool Weight Hanging from Ram Tip (kg)		40 or less	90 or less	100 or less	100 or less
Power Consumption (kW)	Standard Controller	3.7	3.7	5.2	5.2
	Compact Controller	3.5	3.5	5.0	5.0
Power Source (V)		Three Phase 200～240 ±10%(50/60Hz)			
External Dimensions(mm)*5		171×706×384	230×775×474	230×775×474	260×797×477
Weight (kg)*5		80	161	167	170

<Notes>
*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.
This is an indicator of sensor measuring unit and accuracy and is not an indicator of load tolerance after pressing or margin of error.
*4 Position repeatability is dependent upon the press bearing a constant load at a constant press unit and surrounding temperature. Repeatability is not a guarantee of absolute position precision.
*5 Values are for standard specification models.

JP Series 5 Common Specifications

Item		Content
Program Capacity*1		512
External Input/Output	COM	RS-232C　1ch
	I/O-SYS*2	17 Inputs/ 16 Outputs　*Choose NPN or PNP
	LAN	10BASE-T/100BASE-TX
	MEMORY	USB memory connector(Save results data, backup and restore data, update system software)(32GB or less)
	Field Networks	EtherNet/IP / PROFINET / CC-Link / DeviceNet / PROFIBUS / CANopen (optional)
	I/O-S	Safety device connector
	Other	Load cell output, encoder output, analog monitor output (optional)
Encoder		Incremental (standard) or absolute types*3 (optional)

<Notes>
*1 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.
*2 An internal I/O power supply is available as an option for the standard controller.
*3 Please contact us about compatible models.

<Standard Accessories>
・PC Software "JP5 Designer"　・Operation Manual (CD-ROM)　・Press Unit Connector Cable (3m)　・SWBOX Short Connector　・TPU Short Connector　・I/O-S Short Connector　・I/O-SYS Connector

JPU-0055～ JPU-0205

JPU-0505・ JPU-1005

JPU-2005

JPU-3005・ JPU-5005

JPU-8005

Standard Controller

Compact Controller

JP Series 4 Stand Alone Type

User-friendly Standard Model Servo Press
for Precision Operation and Comprehensive Control

Clean Room

Features

C-Frame Ideal for Cell Production

"All-in-One" configuration unifies the controller and drive mechanism. Just turn ON the power and the press is ready to work; ideal as an independent machine tool used in cell production, or for R & D work.

Servomotor Driven

Precision Load Cell and Encoder allow for free control of parameters such as pressing force, ram speed, stopping position and stopping time.

Repeatability ± 0.005mm

The position repeatability is fine tuned to ± 0.005mm, well able to handle minute pressing jobs.

Model Name

JP -100 4 CL

Type	Pressing Capacity	JP Series 4	Specs
JP:Stand Alone Type	05 : 0.5kN 10 : 1kN 20 : 2kN 50 : 5kN 100 : 10kN 150 : 15kN 200 : 20kN 300 : 30kN 500 : 50kN		None: Standard L*: Long CL*: Clean

*Please contact us about compatible models.

Specifications

Item		JP-054	JP-104	JP-204	JP-504	JP-1004
Pressing Capacity	Maximum(kN)	0.5	1	2	5	10
Ram Stroke	Maximum(mm)	80	80	80	100(L:150)	100(L:150)
Ram Speed	Pressing Time(mm/sec)*1	0.01～35	0.01～35	0.01～35	0.01～35	0.01～35
	Approach-Return Time(mm/sec)	166	166	166	166	166
Maximum Holding Time at Max. Load (sec)*2		999.9	999.9	999.9	999.9	50
Load Precision*3		50N or more ±5N	100N or more ±10N	200N or more ±20N	500N or more ±50N	1kN or more ±100N
Position Repeatability(mm)*4		±0.005	±0.005	±0.005	±0.005	±0.005
Tool Weight Hanging from Ram Tip(kg)		0.5 or less	1 or less	2 or less	5 or less	10 or less
Power Consumption (W)		300	300	300	850	850
Power Source(V)		Single Phase/Three Phase 180～250	Single Phase/Three Phase 180～250	Single Phase/Three Phase 180～250	Single Phase/Three Phase 180～250	Single Phase/Three Phase 180～250
External Dimensions(mm)*5		520×567×750	520×567×750	520×567×750	520×585×875	520×585×875
Weight(kg)*5		100	100	100	160	160

Item		JP-1504	JP-2004	JP-3004	JP-5004
Pressing Capacity	Maximum(kN)	15	20	30	50
Ram Stroke	Maximum(mm)	100(L:150)	200	200	200
Ram Speed	Pressing Time(mm/sec)*1	0.01～20	0.01～35	0.01～35	0.01～35
	Approach-Return Time(mm/sec)	100	166	200	200
Maximum Holding Time at Max. Load (sec)*2		60	15	10	10
Load Precision*3		1.5kN or more ±150N	2kN or more ±200N	3kN or more ±300N	5kN or more ±500N
Position Repeatability(mm)*4		±0.005	±0.005	±0.005	±0.005
Tool Weight Hanging from Ram Tip(kg)		15 or less	20 or less	90 or less	100 or less
Power Consumption(W)		850	1600	3000	5000
Power Source(V)		Single Phase/Three Phase 180～250	Three Phase 180～250	Three Phase 180～250	Three Phase 180～250
External Dimensions(mm)*5		520×585×875	520×813×1,236	560×985×1,315	560×985×1,315
Weight(kg)*5		160	550	1,050	1,050

<Notes>
*1 Recommended setting range.
*2 Value when making a cold start. Can vary according to setting conditions.
*3 Load display precision is ±1% (FS) of the maximum load when pressing in the range of 10% or more of the maximum load.
This is an indicator of sensor measuring unit and accuracy and is not an indicator of load tolerance after pressing or margin of error.
*4 Position repeatability is dependent upon the press bearing a constant load at a constant press unit and surrounding temperature. Repeatability is not a guarantee of absolute position precision.
*5 Values are for standard specification models.

JP Series 4 Common Specifications

Item		Content
Program Capacity*1		100
External Input/Output	COM	RS-232C 1ch
	I/O-SYS	17 Inputs/ 16 Outputs *Choose NPN or PNP
	LAN	10BASE-T/100BASE-TX (optional)
	I/O-S	Safety device connector
	Other	Load cell output, encoder output, analog monitor output
Encoder		Incremental (standard) or absolute types*2 (optional)

<Notes>
*1 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.
*2 Please contact us about compatible models.

<Standard Accessories>
· I/O-S Connector ·I/O-SYS Connector (note: cable not included) ·Operation Manual (CD-ROM)

JP-054～JP204

JP-504～JP-1504

JP-2004

JP-3004･JP-5004

JP-S Series

"Inline Specialist" Servo Press Designed for Factory Installation
Slim and Compact JP-S Series

Field Network　LAN　CE　Clean Room

Features

Space Saving Configuration

Both the press unit and controller are slim and compact; ideal for inclusion in your facility system.

Full Lineup

The JP-S is available in 8 basic models ranging from 5kN to 200kN, as well as several optional clean room compatible models and high power motor types.
Also choose either a compression (pressing) type or tensile (pulling) type load cell. (Please check with us about compatible models.)

Ideal for replacing an air or oil press

Low noise operation is environmentally friendly, and the JP-S consumes much less energy compared with an oil or air press.
Flexible configuration helps customers choose functions according to application need (such as with or without a load cell) keeping startup costs down.

Model Name

JP-S　0501　-　0　0　100　B　S

JP-S Series	Pressing Capacity	Specs	Variations	Stroke	Brake	Load Cell
	0501 : 5kN 1001 : 10kN 1501 : 15kN 2001 : 20kN 3001 : 30kN 5R01 : 50kN 10R1 : 100kN 20T1 : 200kN	0 : Standard 1 : CE 2*1: Clean	0 : Standard 1*2: Special Configuration 1	100 : 100㎜ 150 : 150㎜ 200 : 200㎜ 250 : 250㎜ 300 : 300㎜ 350 : 350㎜ 400 : 400㎜ 450 : 450㎜ 500 : 500㎜	B: Yes 0: No	S: Pressing L: Pulling 0: None

*1 Please contact us about compatible models.
*2 Special Configuration 1: High Power Motor Specifications (built with a motor one size larger).
Please contact us about compatible models.

Specifications

Item \ Model		JP-S0501	JP-S1001	JP-S1501	JP-S2001
Pressing Capacity	Maximum(kN)	5	10	15	20
Ram Stroke(mm)		100/150/200/250/350	100/150/250	100/200/300/350/400/450	100/200/300/350/400
Ram Speed	Pressing Time(mm/sec)*1	0.01～35	0.01～35	0.01～35	0.01～35
	Approach-Return Time(mm/sec)	0.01～216	0.01～216	0.01～200	0.01～200
Maximum Holding Time(sec) *2		999.9	999.9	999.9	999.9
Load Precision*3		0.5kN or more ±50N	1kN or more ±100N	2kN or more ±200N	2kN or more ±200N
Position Repeatability(mm)*4		±0.01	±0.01	±0.01	±0.01
Tool Weight Hanging from Ram Tip(kg)		5 or less	10 or less	15 or less	20 or less
Power Consumption(W)		200	400	750	750
Power Source(V)		Single Phase/Three Phase 180～250(50/60Hz)	Single Phase/Three Phase 180～250(50/60Hz)	Single Phase/Three Phase 180～250(50/60Hz)	Single Phase/Three Phase 180～250(50/60Hz)
External Dimensions (mm)		65×155×455	65×155×455	80×196×505	80×196×505
Weight(kg)		12	12	20	20

Item \ Model		JP-S3001	JP-S5R01	JP-S10R1	JP-S20T1
Pressing Capacity	Maximum(kN)	30	50	100	200
Ram Stroke(mm)		100/200/300/350/400	100/200/300/350/400	200/400/500	200/400
Ram Speed	Pressing Time(mm/sec)*1	0.01～35	0.01～35	0.01～16	0.01～8
	Approach-Return Time(mm/sec)	0.01～210	0.01～200	0.01～100	0.01～50
Maximum Holding Time(sec) *2		999.9	999.9	999.9	999.9
Load Precision*3		3kN or more ±300N	5kN or more ±500N	10kN or more ±1000N	20kN or more ±2000N
Position Repeatability(mm)*4		±0.01	±0.01	±0.01	±0.01
Tool Weight Hanging from Ram Tip(kg)		30 or less	50 or less	100 or less	200 or less
Power Consumption(W)		2,000	5,000	5,000	5,000
Power Source(V)		Three Phase 180～250(50/60Hz)	Three Phase 180～250(50/60Hz)	Three Phase 180～250(50/60Hz)	Three Phase 180～250(50/60Hz)
External Dimensions(mm)		100×259×570	148×365×643	200×465×889	292×442×1,499
Weight(kg)		35	98	198	387

<Notes>
*1 Recommended setting range.
*2 Hold times decrease as loads increase. (In some situations, hold times cannot be attained.) Increases in motor temperatures can also shorten hold times.
*3 Load display precision is ±1% (FS) of the maximum load when pressing in the range of 10% or more of the maximum load (±1.3% of the max. load when in the range of 13% or more of the max. load for the 15kN type).
This figure represents the level of sensor accuracy and is not an indicator of load tolerance after pressing or margin of error.
*4 Position repeatability is dependent upon the press bearing a constant load at a constant press unit and surrounding temperature. Repeatability is not a guarantee of absolute position precision.

JP-S Series Common Specifications

Item			Content
Program Capacity*1			512
External Input/Output	COM		RS-232C　1ch
	Digital Input/Output (DIO)		17 Inputs/ 16 Outputs　*Choose NPN or PNP
	LAN		10BASE-T/100BASE-TX
	Field Network		EtherNet/IP / PROFINET / CC-Link / DeviceNet / PROFIBUS / CANopen (optional)
	Other	Standard Equipment	Load cell output, encoder output
		Optional	Analog monitor output
Encoder			Incremental

<Notes>
*1 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.

<Standard Accessories>
・Main unit cables (motor cable, encoder connector cable, sensor/load cell cable or sensor cable)　* JP-S3001-11 and models with a maximum pressing capacity of 50kN and above include a thermostat cable.
・Power cables (controller power cable, press unit drive power cable)　・Operation Manual (CD-ROM)　・PC Software「JP-S Designer」

JP-S0501・JP-S1001

JP-S1501・JP-S2001

JP-S3001

JP-S5R01

JP-S10R1

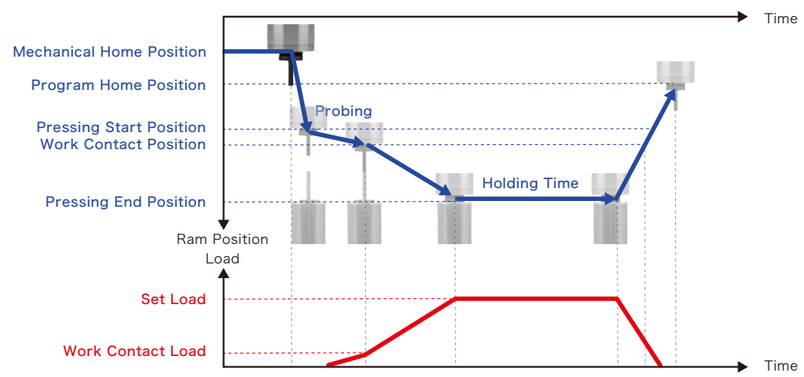
Controller
Photo: JP-SC1001

Modes / Functions

Pressing Modes・Sensor Functions

With a variety of pressing modes and sensor functions, Janome Electro Presses are well equipped to handle complicated pressing methods, including those which require multiple sensor functions.
Our quality control capabilities prevent faulty workpieces from moving through your assembly process.

Basic Servo Press Operation



Pressing Mode

Pressing Conditions	Stopping Conditions	Content
Constant Speed Pressing	Position	Stops when a set position is reached
	Distance	Stops when a set distance from a given position is reached
	Load	Stops when a set load is reached
	⋮	Also set stopping conditions based upon incremental load increases or load differentials. Please contact us for details.
Constant Load Pressing	Time	Stops when a set time is reached
	Position	Stops when a set position is reached
	⋮	Also set stopping conditions based upon distance or in response to external signals. Please contact us for details.

Max 512* Programs　Max 512* Steps

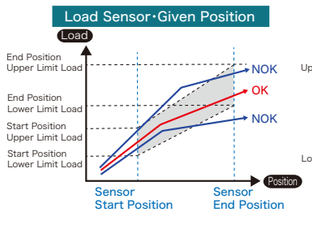
* The JP4 Series has a maximum capacity of 100 programs・100 steps. The number of programs and pressing steps is limited by the overall memory capacity.
When multiple steps are added to one program, the number of new programs which can be added decreases.

Sensor Functions

We offer a wide variety of step sensors, load path sensors and load zone sensors.

Load Sensors

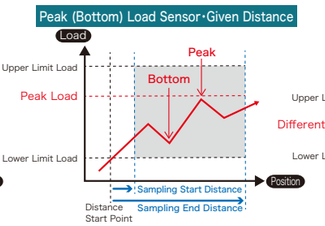
Load Sensor・Given Position



- Load Sensor・Given Position
- Load Sensor・Given Distance (Step Start)
- Load Sensor・Given Position (Step End)

Peak Load・Bottom Load Sensor

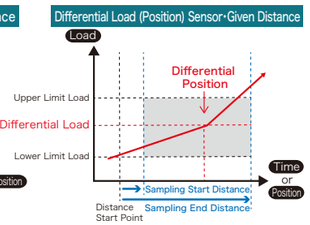
Peak (Bottom) Load Sensor・Given Distance



- Peak Load Sensor・Given Position
- Peak Load Sensor・Given Distance
- Bottom Load Sensor・Given Distance
- Bottom Load Sensor・Given Distance

Inflection Point Load・Position Sensors

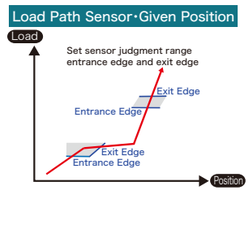
Differential Load (Position) Sensor・Given Distance



- Differential Load Sensor・Given Position
- Differential Load Sensor・Given Distance
- Differential Position Sensor・Given Position
- Differential Distance Sensor・Given Distance

Load Curve Thru Path Sensor

Load Path Sensor・Given Position



- Load Path Sensor・Given Position
- Load Path Sensor・Given Distance

You can set the sensor range freely thereby making a variety of different sensor judgments.

Please contact us for details about other sensor functions which are not described here.

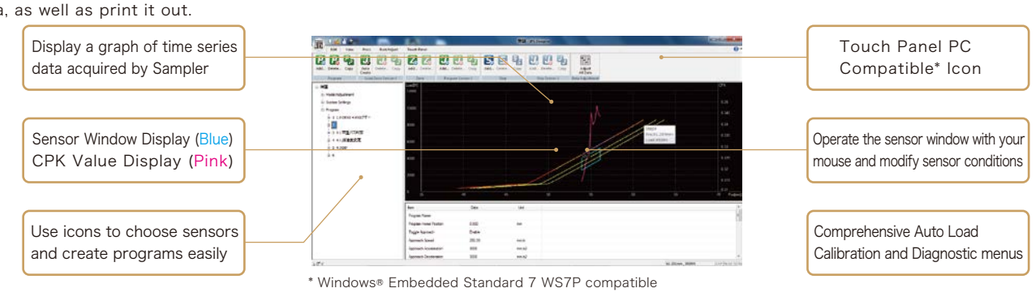
PC Software

"JP TaS II System" is an application software you can run on your PC to edit setting data and display and analyze result data.

* The PC software screen shown below is of the "JP TaS II System", used with the JP Series 5.
There are some differences in appearance and function with the software for other press types.

Designer

Create teaching data, sensor conditions, etc., upload all of your setting data to your PC, modify the settings, save a backup copy of your data, as well as print it out.



* Windows® Embedded Standard 7 WS7P compatible

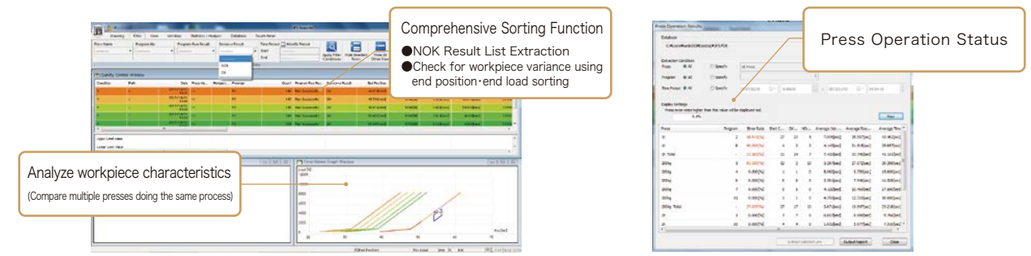
Sampler

Display single shot quality control & time series data and save it as a sampling file. Display the data for multiple presses at the same time.

* Data for 4 presses are displayed here.

Reporter

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



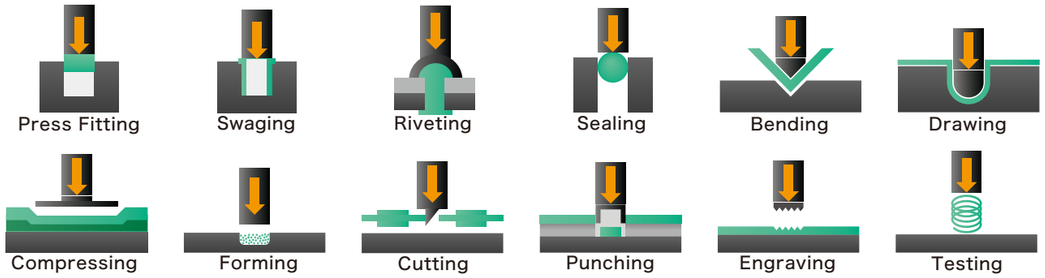
	JP5	JP4	JP-S
PC Software Name	JP TaSII System	JP TaS System	JP SaS System
Usable Display Languages	English, Japanese, Korean, Simplified Chinese	English*1, Japanese	English, Japanese, Korean, Simplified Chinese
Compatible PC Operating Systems	Windows®7、Windows®8.1、Windows®10、Windows® Embedded Standard 7 WS7P(JP Series 4 excluded)		

*The JP Series 4 "JP TaS System" PC software is available in English and Japanese language versions.

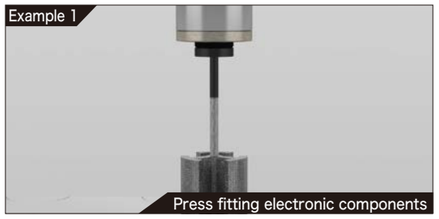
Application Examples

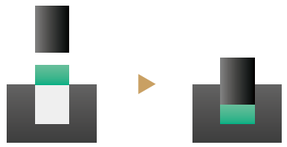
From press fitting to testing, Janome servo presses fulfill an important role in many different processes.

Pressing Application Types

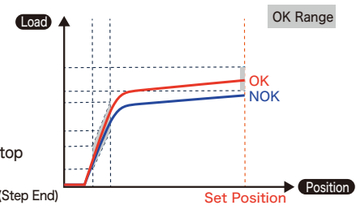


Press Fitting

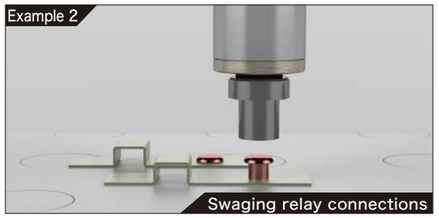




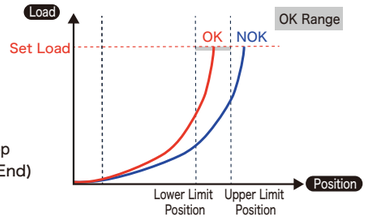
Pressing Condition: Constant Speed･Position Stop
Sensor Condition 1: Load Sensor･Given Position
Sensor Condition 2: Load Sensor･Given Distance(Step End)



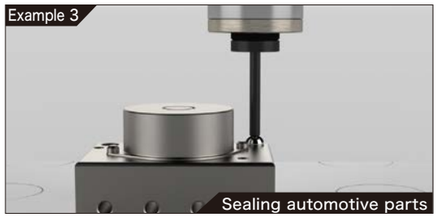
Swaging



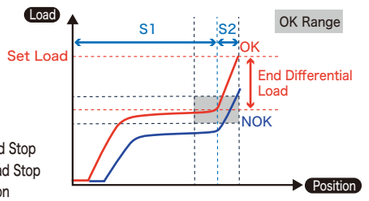
Pressing Condition: Constant Speed･Load Stop
Sensor Condition: Position Sensor (Step End)



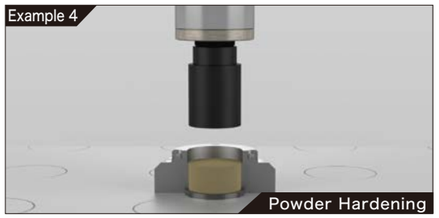
Sealing



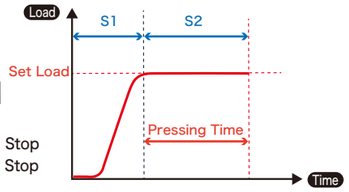
Pressing Condition S1: Constant Speed･Differential Load Stop
Pressing Condition S2: Constant Speed･Incremental Load Stop
Sensor Condition: Differential Load Sensor･Given Position



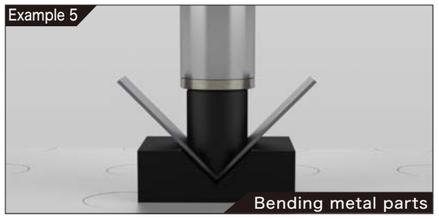
Powder Forming

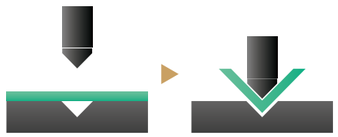


Pressing Condition S1: Constant Speed･Load Stop
Pressing Condition S2: Constant Speed･Time Stop

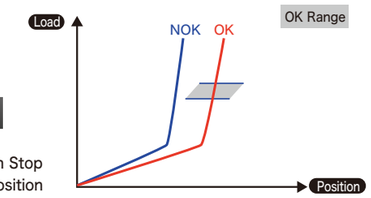


Bending

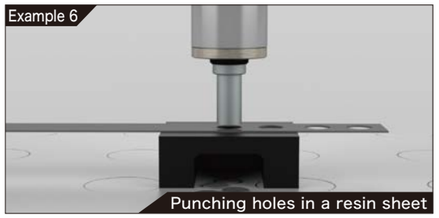


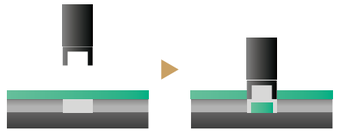


Pressing Condition: Constant Speed･Position Stop
Sensor Condition: Load Path Sensor･Given Position

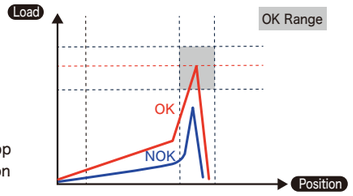


Punching

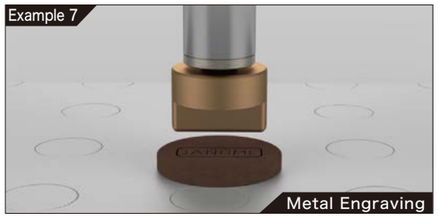


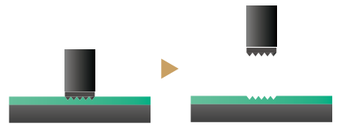


Pressing Condition: Constant Speed･Position Stop
Sensor Condition: Peak Load Path･Given Position

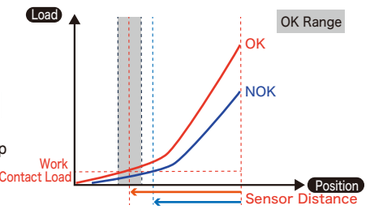


Engraving





Pressing Condition: Constant Speed･Position Stop
Sensor Condition: Distance Sensor (Step End)

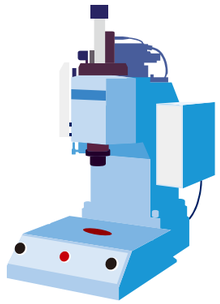


Maintenance

Maintenance・Repairs

A Janome servo press needs a lot less maintenance compared to a hydraulic press.

Hydraulic Press



Oil Leak Repair

- Packing Replacement
- Cylinder Overhaul
- Oil Replacement
- Tubing Maintenance
- Pump Overhaul
- ⋮

Servo Press

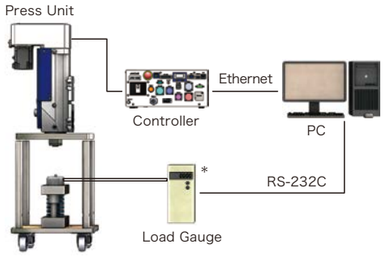
- Lubrication
- Load Calibration

Auto Amp Adjustment・Auto Load Calibration*

*Unavailable with JP4; manual only.

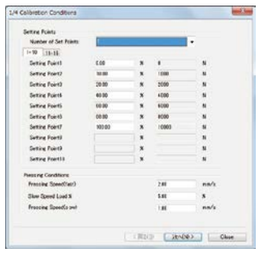
The tough job of load calibration is now a lot easier (but manual calibration is also available if needed).

Setup Example

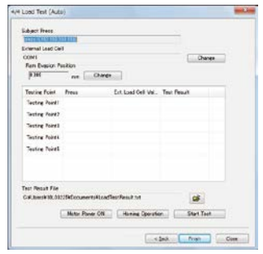


*Please contact us about compatible load gauge types.

Auto Load Calibration Using "JP 5 Designer" Software



Calibration Conditions Setting Screen

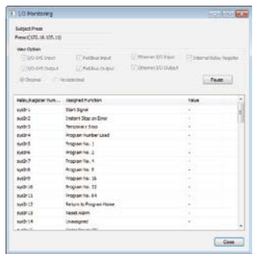


Load Check Screen

I/O Monitoring Function*

*Unavailable with JP4.

Make real-time I/O status checks while the press is running.



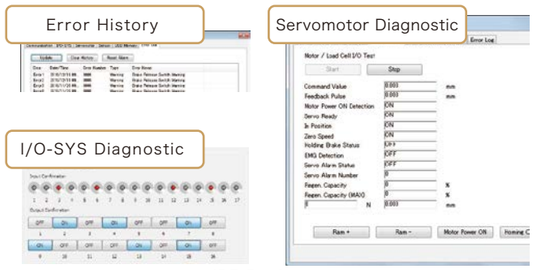
JP5 Designer

Diagnostic Functions*

*Functions differ for JP4 & JP-S.

Helpful "Diagnostic Mode" improves servo press maintainability.

- Error History
- Servomotor Diagnostic
- I/O-SYS Diagnostic



JP5 Designer

Options

○:Included with Press
●:Optional Add-on

Category	Product	Variation	JP5	JP4 (Stand Alone Type)	JP-S	Notes
Press Unit	Field Networks*1	EtherNet/IP	●	—	●	
		PROFINET	●	—	●	
		CC-Link	●	—	●	
		DeviceNet	●	—	●	
		PROFIBUS	●	—	●	
		CANopen	●	—	●	
	Additional Interfaces*1	I/O-SYS	○	○	—	17 Inputs/ 16 Outputs *Please choose NPN/PNP when ordering
		Digital Input/Output (DIO)	—	—	●	17 Inputs/ 16 Outputs *Please choose NPN/PNP/None when ordering
		COM	○	○	○	
		MEMORY	○	—	—	
		I/O-S	○	○	—	
		Load cell output	●	●	○	
		Encoder output	●	●	○	
		LAN	○	●	○	
		Analog monitor output	●	●	●	
Cables	Emergency Stop Connector Output Cable		—	—	●	Cable Lengths: 3m/5m
	I/O-SYS Cable		●	●	—	Cable Lengths: 2m/3m/5m
	DIO Cable		—	—	●	Cable Lengths: Connector only/2m/3m/5m
	Encoder Output Cable		—	—	●	Cable Lengths: 3m/5m
	Load Cell Output Cable		—	—	●	Cable Lengths: 3m/5m
	Analog Monitor Cable		—	—	●	Cable Lengths: 2m
	DC Power Input Cable (for compact controller)		●	—	—	Cable Lengths: 3m/5m
	Controller Power Cable, Press Motor Power Cable		—	—	○	Cable Lengths: 3m/5m/10m
	Press Unit to Controller Connector Cable		●	—	●	Cable Lengths: 3m/5m/10m/15m/20m
Other	Teaching Pendant*2	Standard Type (No Emergency Stop Switch)	—	—	●	Cable Lengths: 3m/5m(JP5) Cable Lengths: 2m/3m/5m/10m(JP-S) Interchangeable Display Languages: English, Japanese, Korean, Simplified Chinese
		With Emergency Stop Switch	—	—	●	
		Emergency Stop Switch with Stop Switch	●	—	—	
	Teaching Pendant Short Connector		○	—	●	
	Maintenance Box		●	—	—	Cable Lengths: 3m/5m
	SWBOX Connector		○	—	—	
	DIN Rail Attachment Board		—	—	●	
	PC Software (Designer, Sampler, Reporter)		●	●	●	Designer is included as a standard accessory (JP Series 5, JP-S)

*1 Optional at time of order.
*2 This is a Pendant Unit for the JP-S Series.

Field Networks*

*JP Series 4 excluded

Using a field network, each parameter (such as end load・position and sensor load・position) are read out on the register and acquired. Choose from up to 6 different compatible field networks.

EtherNet/IP　PROFINET　CC-Link　DeviceNet　PROFIBUS　CANopen

Support

Support Centers

Japan Sales Offices

Tokyo Head Office	1463 Hazama-machi, Hachioji-shi, Tokyo 193-0941 Japan	Domestic Sales	TEL:042-661-2123 FAX:042-665-3354
		International Sales	TEL:042-661-6301 FAX:042-661-6302
Nagoya Sales Office	J's Bldg. Nagoya 2F, 6-42 Maehama, Minami-ku, Nagoya-shi, Aichi 457-0058 Japan		TEL:052-819-5501 FAX:052-819-5503
Osaka Sales Office	3-2-27 Nagayoshikawanabe, Hirano-ku, Osaka-shi, Osaka 547-0014 Japan		TEL:06-6760-7410 FAX:06-6797-1998
Fukuoka Sales Office	J's Bldg. Izuka 3F, 17-44 Izuka, Izuka-shi, Fukuoka 820-0041 Japan		TEL:0948-26-4171 FAX:0948-23-2086

Janome Sewing Machine Co., Ltd. Industrial Equipment Sales Division Web: ***http://www.janome.co.jp/industrial.html***

International Sales Offices

USA	**Janome Industrial Equipment USA, Inc.** 751 Landmeier Road, Elk Grove Village, IL 60007, USA	TEL:+1-847-357-8870 FAX:+1-847-357-8890 Web:http://www.janomeie.com/
Germany	**Janome Industrial Equipment Europe GmbH** Opelstraße 20-22, 64546 Mörfelden-Walldorf, Germany	TEL:+49-6105-27-1258 FAX:+49-6105-27-1265 Web:http://www.janomeie-europe.de/
China	**Janome Industrial Equipment (Shanghai) Co., Ltd.** B211, 2633 Yan'an Road (W), Changning District, Shanghai, PRC	TEL:+86-21-62788225 FAX:+86-21-62788235 Web:http://www.janomeie.com.cn/
	Sales Branch | **Shenzhen Branch Office** 306 Jinshang Business Building, Minzhi Road, Longhua District, Shenzhen, Guangdong, PRC	TEL:+86-755-23766962 FAX:+86-755-23765752
Taiwan	**Janome Industrial Equipment (Taiwan) Co., Ltd.** 6F-6, No. 8, Zihciang South Road, Jhubei City, Hsinchu County, 30264 Taiwan (ROC)	TEL:+886-3-6683-949 FAX:+886-3-6683-249 Web:http://www.janomeie.com.tw/