JANOME

JR3000 SERIES Desktop Robot

[JR3200 / JR3300 / JR3400 / JR3500 /JR3600]



Broaden your manufacturing potential with our

The JR3000 Series is a multifunctional robot designed with both cell production sites and automated inline installation in mind. With a rich catalog of functions including Fieldbus compatibility, a built-in LAN port as standard equipment, software that makes camera installation easy and the ability to control up to two external motors, the JR3000 is ready to fill many different manufacturing roles.

Increased Structural Rigidity

We've made the robot even more rigid, which in turn makes it faster (maximum speed up to 900mm/s), more accurate, and able to operate non-stop for extended periods.

We've stabilized the tracking function at high speeds. When a camera is attached to the Z-mechanism, the oscillation when the robot comes to a stop is greatly reduced, thereby cutting the wait time by approximately 50% (compared to previous Janome models).

Fieldbus Compatibility, Ethernet (LAN) Included as Standard Equipment

Choose among "CC-Link", "DeviceNet" or "PROFIBUS" modules. A LAN port is included as standard equipment, so you can control several robots from one PC!



Control up to 4 Axes and 2 External Motors

Program up to 2 pulse string input type devices, such as a stepping motor or pulse motor, the same as handling the robot axes from the teaching pendant. Set up a turntable to change the workpiece direction; install a conveyor and control it from the robot; the choice is yours.



Make settings in either JOG or MDI Modes



Hidden Robot Cable

New for desktop robots, the Z-axis cable is built into the Y-axis housing; a compact design ideal for workspaces with height limitations.



Easy Camera System Installation

To keep up with increasingly refined manufacturing methods, we've strengthened our camera functions. With functions such as automatic calibration, CCD camera adjustment function with a counter and more, we've enhanced the robot's camera functionality adding more ways to make use of a camera system.



Multilingual Display

We've equipped the teaching pendant with 10 different display languages so that operators from as many different countries as possible can easily program and operate the robot.

Display Language Examples



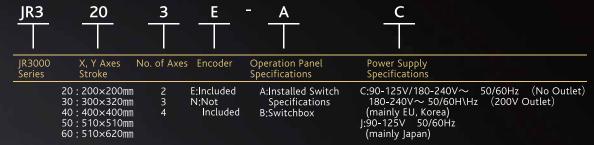
German

Chinese

flagship desktop robot.

Wide Variety of Model Variations





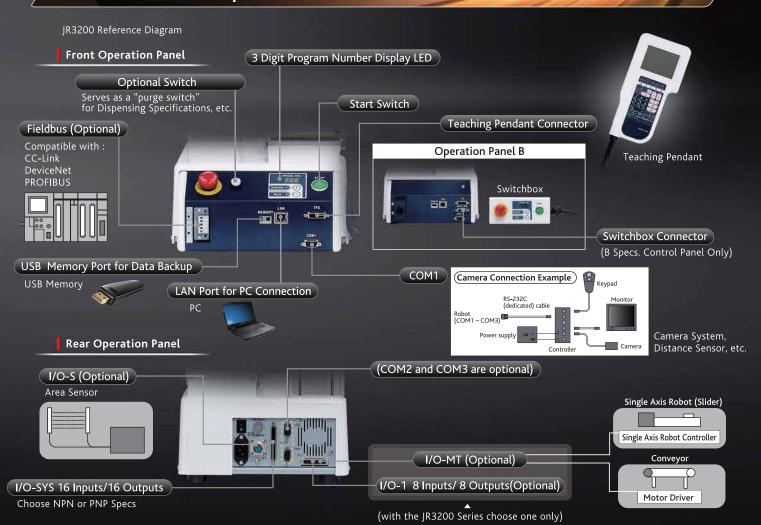
An encoder-equipped version which detects motor "step-outs"; a twin column type for the JR3400, useful for jobs that place a great load on the Z-axis; an elevated type with an extended Y-axis column for handling tall workpieces; we offer several optional variations to meet customer requirements. Also, CE compliant types are available for all models.

Available Options at Time of Order

- ·Fieldbus Add-on (choose CC-Link, DeviceNet or PROFIBUS)
 ·I/O-MT Add-on (for up to 2 external motors)

- -3400 Series Double Column Type
 -Elevated Column Type (open height)
 -Optional Switch (Purging Switch Function for Dispensing Specs.)
 -I/O-1 Add-on (8 Inputs/8 Outputs)
- Internal I/O Power Supply Add-on (DC24V Rating 2.1A)
 I/O-S Add-on (for Interlock connector)
- ·COM2, COM3 Add-on (for external devices)
- ·Ejector (air suction for screw tightening)

Part Names and Explanations



Software

System software for everyone, from first-time users to veteran operators.

The JR3000 features specialized software for each application that even a new programmer can use. Take advantage of a variety of proven command strings for easy robot teaching.

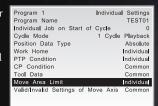
CCD Camera Adjustment with Counter

Acquire up to 3,000 adjustment values when making camera position adjustments for the robot. After taking a series of camera shots, the robot can perform jobs while making a series of adjustments thereby shortening the cycle time.



Common Settings for All Programs

You can make common settings for items which often use the same settings in multiple programs, such as "tool settings", etc. This is useful for shortening teaching time and revising parameters.



Error History

The time and date an error occurs is now displayed. Knowing when an error occurs is helpful for cause determination and analysis.



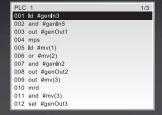
Automatic Calibration

Camera calibrates automatically when a new camera system is



Simple PLC Function

A simple PLC which operates independently from the robot's functions is already built-in, so you do not need to purchase a separate PLC to handle simple interfacing with external devices.



Customizing Function

Register command strings that you often use and then when you need to teach a program it's easy! You can even create your our own software.

Point Type Definition	on
	PointDispense
Protect Mode	No Limit
Base Type	PTP Point
Point Type Caption	
Job before Moving	
Job while Moving	
Job after Moving	
Job while CP Moving	
Additional Function Number	
Point setting Variables Definitio	n
Condition Number Input	NO

4 Axes Needle Adjuster Function

We offer devices to adjust the needle tip position for both 3 and 4 Axes types (for Dispensing Specifications).

PC Software "JR C-Points II" (Optional)

"JR C-Points II" is application software which allows you to create, edit and save teaching and customizing data all on your PC. Now it's even more user-friendly with a "Point Graphic Editing Function" which allows you to create and edit path data as a graphic drawing.

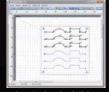


Set points and create and edit point commands more smoothly through numerical MDI (manual data input); even copy and paste coordinate data in the manner of spreadsheet software. Select the icons for the functions you often use from the toolbar.

Convert teaching data created for the JR2000N Series on JR C-Points software for use with the JR3000.

>>> Point Graphic Editing Function Screen

Create path data based upon DXF, Gerber or .JPEG background image data. Check and edit teaching data program paths. Optimize your programming potential by using several different functions to create even better teaching data.





Point Order Sorting Function (shorter tact times) Moving distance between points is great, so sorting from "left to right"

