

## Heavy Duty Desktop Robot **JR3000F Series**

**Built STRONGER for  
Heavier Tools and Workpieces!**



Dual Component  
Dispensing



6 Coat Dispensing

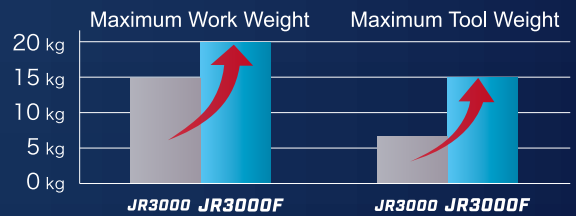
- Hot Melt Dispensing
- High Viscosity Dispensing
- Plasma Treatment
- Ultrasonic Welding
- Resistance Welding
- ...and more!

Maximum  
Work Weight

**20kg**

Maximum  
Tool Weight

**15kg**



**More Powerful!**



Standard Model

Dispensing Model



- Driven by a feedback motor for higher payloads!
- Z-Axis brake for tool and workpiece safety
- Compatible with needle adjuster and camera adjustment functions

# Specifications

Item		Model	JR3303F	JR3403F
Number of Axes			3 Axes (Synchronous Control)	
Operating Range		X×Y×Z Axes	300×320×150mm	400×400×150mm
Maximum Portable Load		X Axis (Workpiece)	20kg	
		Y Axis (Tool)	15kg	
Maximum Speed / Payload (PTP Drive)		X Axis	up to 5kg	1000mm/sec
			up to 10kg	800mm/sec
			up to 20kg	600mm/sec
		Y Axis	up to 1kg	900mm/sec
			up to 5kg	800mm/sec
			up to 10kg	600mm/sec
		Z Axis	up to 15kg	500mm/sec
			up to 5kg	400mm/sec
			up to 10kg	300mm/sec
Maximum Speed (CP Drive) <sup>*1</sup>		X, Y, Z Combined	850mm/sec	
Repeatability <sup>*2</sup>		X, Y and Z Axes	±0.01mm	
Open Height <sup>*3</sup>			300mm	
Dimensions W×D×H (Excluding Protrusions)			560×535×807mm	615×631×807mm
Robot Weight			36kg	45kg
Drive Method			Feedback Type 5 Phase Stepping Motor	
Brake			Attached to the Z Mechanism Motor	
Control Method			PTP (Point to Point) Control, CP (Continuous Path) Control	
Interpolation			3-dimensional linear and arc interpolation	
Teaching Method			Remote Teaching (JOG) / Manual Data Input (MDI)	
Teaching System			Simple and versatile teaching using our original software <ul style="list-style-type: none"> <li>● Easy: Point-based teaching (position and type) for all axis movement; direct movement by setting point strings. Dedicated point types for each application makes teaching specialized movements simple.</li> <li>● Versatile: Control tools and make workpiece operation settings by setting point jobs and various parameters.</li> </ul>	
Teaching Pattern			<ul style="list-style-type: none"> <li>● Direct teaching using the optional teaching pendant.</li> <li>● Offline teaching from a PC using our original "JR C-Points II" PC software.</li> </ul> Compatible with CAD graphics (DXF, Gerber, JPEG)	
Screen Display Options		Unit	mm, inch	
		Languages	English, Japanese, French, Spanish, Italian, German, Korean, Simplified Chinese, Traditional Chinese, Czech, Vietnamese	
Program Capacity			999 Programs	
Database Capacity <sup>*4</sup>			Up to 32,000 Points	
Simple PLC Function			Up to 100 Programs with up to 1,000 Steps/Program	
External Input/Output		I/O-SYS	16 Inputs/ 16 Outputs	
		I/O-1	8 Inputs/ 8 Outputs (including 4 Relay Outputs) (Optional at Time of Order)	
		I/O-MT	Controls up to 2 external motors (Optional at Time of Order)	
		I/O-S	Interlock connector for an area sensor, etc. (Optional at Time of Order)	
		COM1	RS232C (for external devices, COM commands)	
		COM2·COM3	RS232C (for external devices) (Optional at Time of Order)	
		MEMORY	USB memory connector (to save and readout teaching and customizing data, and backup system software)	
LAN <sup>*5</sup>	Ethernet connector for PC (to connect to JR C-Points II software, operate the robot using control commands)			
Power Source			AC90~125V / AC180~240V (single phase)	
Power Consumption			200W	
Operating Environment Temperature			0~40°C	
Relative Humidity			20~90% (non condensing)	

\*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 The open height for this model is fixed. Options are unavailable.

\*4 Point data memory capacity reduces as additional function data settings/point job data/sequencer data are added, due to the shared data storage area.

\*5 The Ethernet connection is 10BASE-T/100BASE-TX.

## <Standard Accessories>

- Operation Manual (CD-ROM)
- Power Cord

## <Options>

- Switchbox (Basic Type also available)    • Optional Switch    • Internal IO Power Supply (DC 24V Rating 1.6A, for I/O-SYS, I/O-1)
- Teaching Pendant (Choose among these types: Standard/ with Emergency Stop Switch/ with Emergency Stop Switch and Enable Switch)
- PC Software JR C-Points II (Windows®7/8.1/10 Compatible) Switch among: English, Japanese, German, Simplified Chinese, Traditional Chinese.
- I/O-SYS Connector    • I/O-SYS Cable (2m/3m/5m)    • I/O-1 Connector    • I/O-1 Cable (2m/3m/5m)
- I/O-MT Connector    • I/O-MT Cable (0.5m/1m/3m/5m)    • I/O-S Connector    • Needle Adjuster

- Before using your robot, read the operation manual and be sure to use the robot correctly.
- Specifications may change without notice to improve product quality.
- If you have any questions, please contact us at the telephone number listed below, or visit our website.

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