

Heavy Duty Desktop Robot JR3000F Series

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

Maximum
Work Weight

20kg

Maximum
Tool Weight

15kg



More Powerful!

**Dual Component
Dispensing**

6 Coat Dispensing

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



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 | |
| | | | up to 15kg 500mm/sec | |
| | | Z Axis | up to 5kg 400mm/sec | |
| | | | up to 10kg 300mm/sec | |
| | | | up to 15kg 200mm/sec | |
| Maximum Speed (CP Drive)*1 | | X, Y, Z Combined | 850mm/sec | |
| Repeatability *2 | | X, Y and Z Axes | ±0.01mm | |
| Open Height *3 | | | 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 ●Easy: Point-based teaching (postion and type) for all axis movement; direct movement by setting point strings. Dedicated point types for each application makes teaching specialized movements simple. ●Versatile: Control tools and make workpiece operation settings by setting point jobs and various parameters. | |
| Teaching Pattern | | | ●Direct teaching using the optional teaching pendant. ●Offline teaching from a PC using our original "JR C-Points II " PC software. 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 Capacify *4 | | | 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 *5 | 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℃ | |
| 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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