

YASKAWA

MOTOMAN YRC1000

Industrial robot controller



High performance controller YRC1000 for MOTOMAN-Robots

The MOTOMAN YRC1000 is a compact, fast and flexible controller for MOTOMAN robots that combines high performance robot control in a small footprint cabinet with volume of 125 litres and a maximum weight of 65 kg.

Besides the typical YASKAWA controller functionality, the YRC1000 includes additional functional improvements. Speed of the controller has been increased by lowering a ladder scanning time.

Path accuracy improvement assures increased precision in trajectory performance independently on the motion speed.

User interface supports smartphone like touch operations and allows the user to 3D simulate robots motion on PP screen before and during execution of the real robot arm. Service staff can directly connect to the PP user interface for remote service purposes. Total programming pendant's weight was reduced to 730 grams which offers more convenient use by the operator. The new controller simplifies maintenance by offering preventive maintenance information and powerful software tools for analysis and notification.

KEY BENEFITS

- Compact, fast and flexible
- Global standardization (no transformer required)
- High path accuracy
- High efficiency

Optimal industrial design

- Volume: 125 liters



Programming pendant (PHG) – ergonomical, light and easy

5,7" LCD colourdisplay
Touch screen
Option: Windows operating system

Operation keys start/stop emergency off

USB-Connection and SD-card slot (reverse side)

Cursor key

Main axes keys

Additional axes keys

3 position dead man switch in compliance with DIN EN ISO 10218-1

Display can be individually set for applications:
 – Handling
 – Shielded Arc Welding
 – Spot Welding
 – General Applications

- Easy and fast programming
- Several user levels – from operator to safety mode
- Help function



| Specifications Controller YRC1000 | |
|-----------------------------------|---|
| Configuration | Dust proof IP54 Area of backside duct fan: IP54 |
| Dimensions | 598 (W) x 490 (H) x 427 (D) mm, 125 ℓ |
| Mass | 65 kg max. (possible to control three external axes) |
| Cooling system | Indirect cooling |
| Ambient temperature | During operation: 0°C to +45°C / During storage: -10°C to +60°C |
| Relative humidity | 90 % max. (non-condensing) |
| Power supply | Three-phase 380/440 VAC (+10 %, -15 %), 50/60 Hz Hz (±2 %) |
| Digital I/Os | Specialized signals: 19 inputs and 4 outputs / General signals: 40 inputs and 40 outputs |
| Programming capacity | JOB: 200,000 steps, 10,000 instructions / CIO ladder: 20,000 steps |
| Expansion slots | 2 x PCIe or 2 x PCI or 1 x PCI/1 x PCIe |
| LAN (Connection to host) | 2 (10BASE-T/100BASE-TX) |
| Interface | RS-232C/RS422: 1 ch (used by switching) |

Common size for use
in Japan, Asia, Europe, and the U.S.



Improved programming pendant



| Specifications Programming Pendant | |
|------------------------------------|---|
| Dimensions | 152 (W) x 299 (H) x 53 (D) mm |
| Mass | 0.730 kg |
| Material | Reinforced plastics |
| Operation Device | Select keys, axis keys, numerical/application keys, mode selector switch with keys (mode: teach, play, and remote), emergency stop button, enable switch, SD card interface device, USB port (1 port) |
| Display | 5.7-inch color LCD, touch panel 640 x 480 pixels |
| IEC Protection Class | IP54 |

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