

# MOTOMAN YRC1000micro

Industrial Robot Controller  
for small MOTOMAN Robots

The MOTOMAN YRC1000micro controller is a controller for small MOTOMAN robots. It provides high performance robot control in a small footprint cabinet. Its performance and functions are optimized for Pick & Place and assembly applications.

Besides the typical Yaskawa functionality, the MOTOMAN YRC1000micro controller includes easy connections to peripheral devices and new high speed and high precision motion control.

It is compatible with the optional "Functional Safety", which monitors motion range and speed limitations.



## KEY BENEFITS

- Compact and lightweight
- High performance
- New motion control
- Minimum installation space
- Easy connections to peripheral devices
- Compatible with "Functional Safety"

# Industrial Robot Controller

# YRC1000micro

## for small MOTOMAN Robots

Specifications Controller YRC1000micro	
Configuration	Open structure
Dimensions	425 (W) x 125 (H) x 280 (D) mm – excluding protrusions
Weight	10.5 kg (without top mount box)
Protection class	IP20
Cooling system	Direct cooling
Ambient temperature	During operation: 0°C to +40°C During storage: -10°C to +60°C
Relative humidity	90 % max. (non-condensing)
Power supply	Single-phase 200/230 VAC (+10 to -15%), 50/60 Hz (± 2 %) <sup>1</sup> ; three-phase 220/220 VAC (+10 to -15 %), 50/60 Hz (± 2%)
Digital I/Os	External IO (hardware, standard max): 8 inputs / 8 outputs (transistor 100 mA) <sup>2</sup> Standard signal allocation: General Purpose IO: 1 input / 1 output Specific IO: 7 inputs / 7 outputs
Programming capacity	JOB: 200,000 steps, 10,000 instructions; CIO ladder: 1,500 steps
Expansion slots	PCI express, 2 slots
LAN (Connections to host)	1 (10BASE-T/100BASE-TX)
Safety category	4, PLd

<sup>1</sup> Manipulators operated by single-phase power supply: MOTOMAN GP7, GP8, MotoMINI.

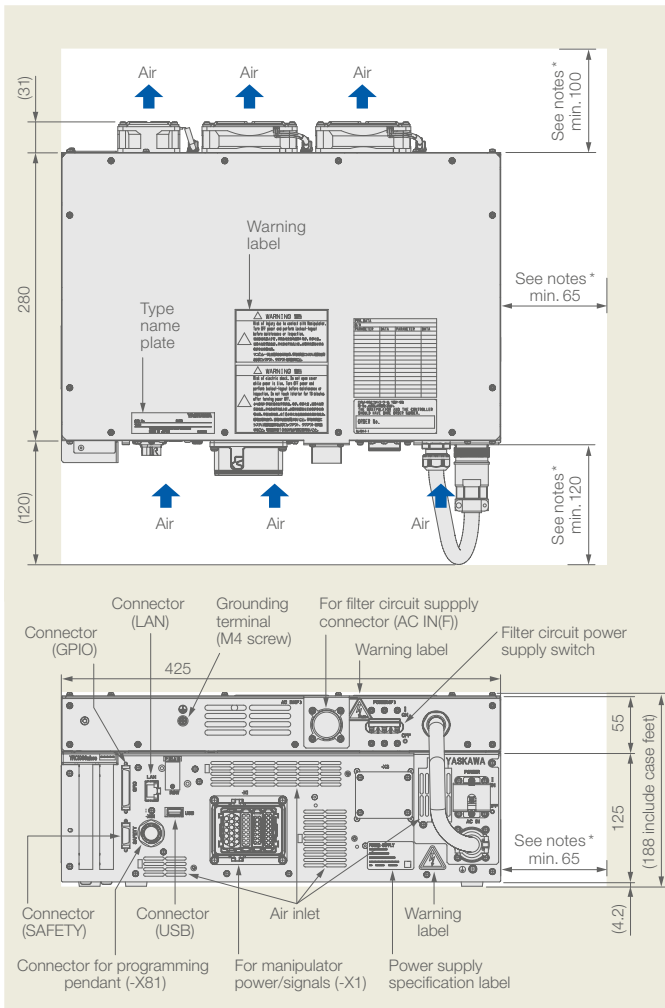
<sup>2</sup> If it is necessary to expand the number of points, a filed bus board is required

Specifications programming pendant	
Dimensions	152 (W) x 299 (H) x 53 (D) mm
Weight	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

## Programming Pendant (PHG) – ergonomical, light and easy

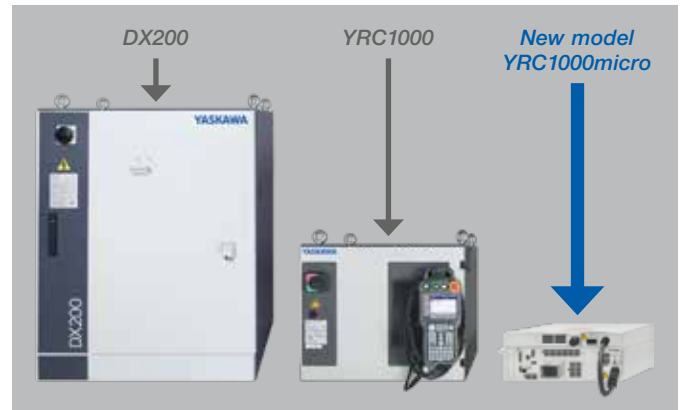


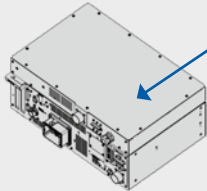
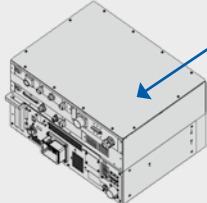
### Horizontally mounted \*\*\*



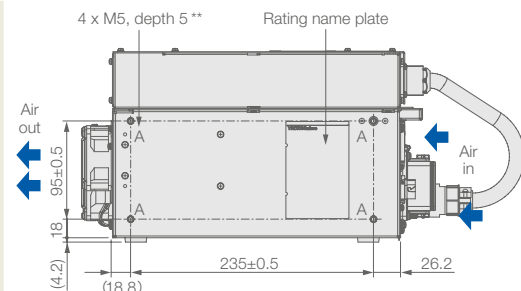
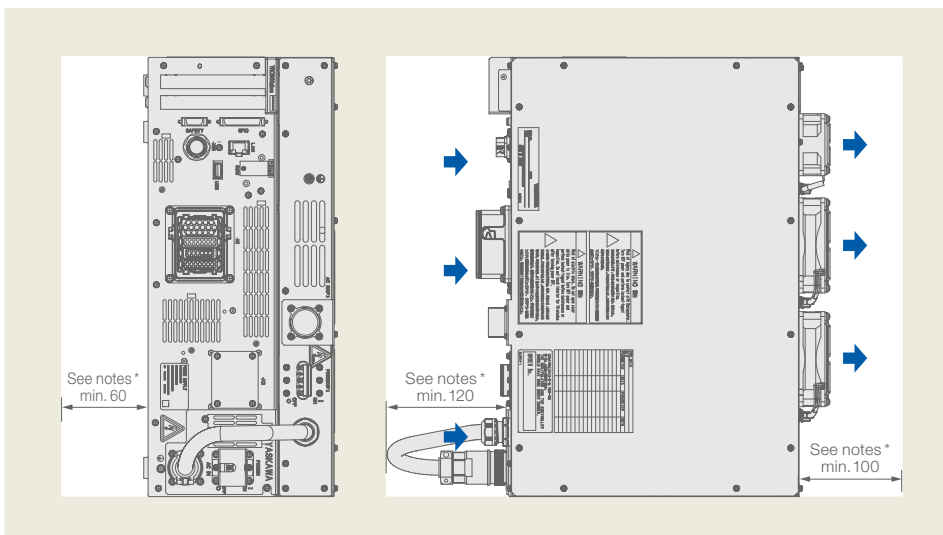
## Optimal Industrial Design

- Volume: 21.5 l (GP7/8/12, MotoMini), 33.5 l (HC10DT)



Manipulator type	Region: Europa and Korea (EMC directive required)
Standard size: 425 (W) x 125 (H) x 280 (D) mm  without additional boxes	<b>GP7</b> <b>GP8</b> <b>GP12</b>  <b>MotoMINI</b>   Top mount box for CE noise filter: 55 (H) x 280 (D) mm  Total litres: 21.5 l
without EMV	<b>HC10</b>   Top mount box for CE noise filter PFL-Card: 125 (H) x 280 (D) mm  Total litres: 33.5 l

### Vertically mounted \*\*\*



- \* Secure the dimensions stated in the placement space chart for cooling and maintenance.
- \*\* Use eight holes marked with the symbol "A" to fix the controller on the floor with fixing jigs and anchor bolts. When fixing the rack, use A hole (8 places).
- \*\*\* Values refer to version for GP7, GP8, GP12 und MotoMini).

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All drawing dimensions in mm.  
Technical data may be subject to change without previous notice.  
Please request detailed drawings at [robotics@yaskawa.eu.com](mailto:robotics@yaskawa.eu.com).

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