

# RC8 ROBOT CONTROLLER /

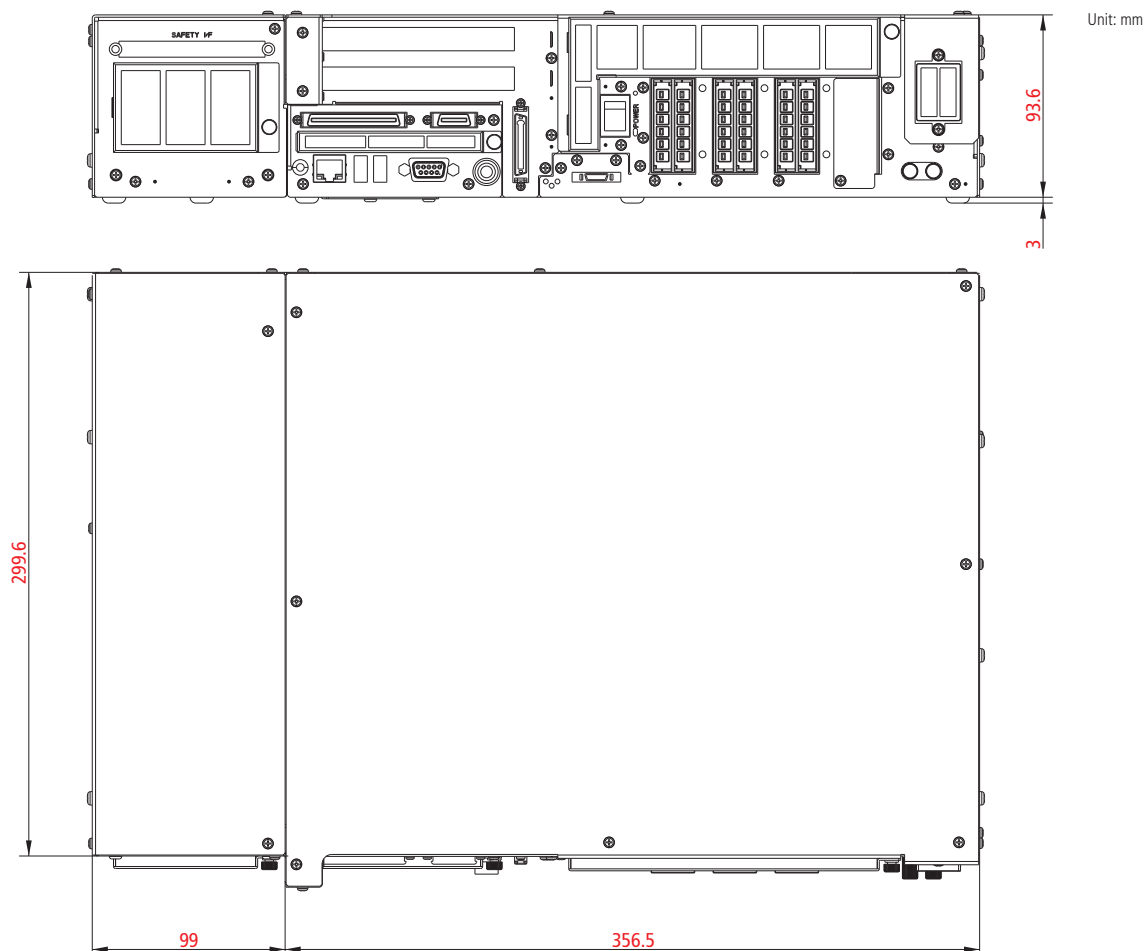
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The DENSO RC8 is 60 percent smaller and 45 percent lighter than the previous model, yet offers higher performance levels. Outstanding features include:

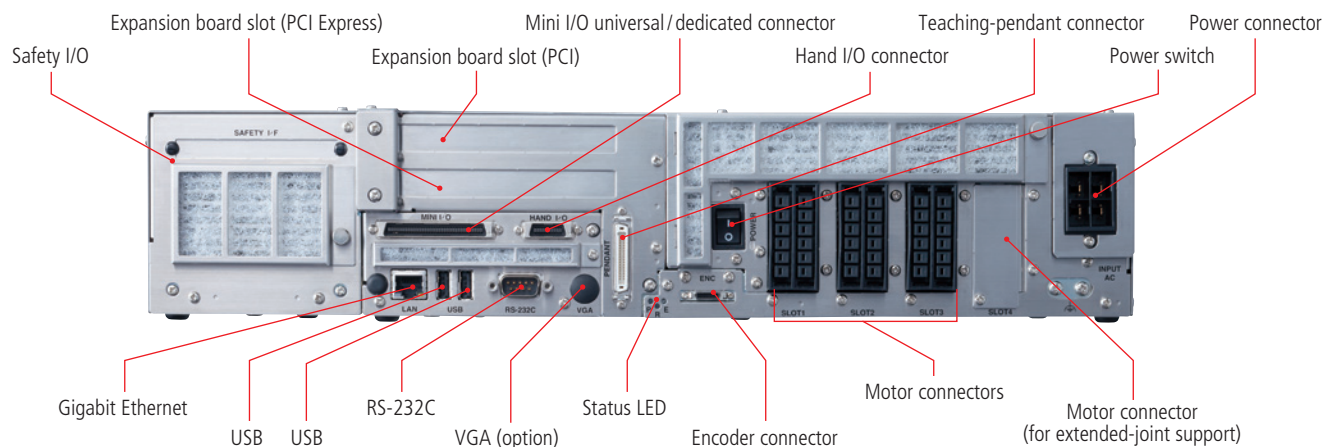
- World's smallest robot controller in the 3 kW output class
- Compact size saves valuable floor space, facilitates integration
- Footprint only 12 x 18 in (300 x 456 mm)
- Weighs only 26.5 lbs (12 kg)
- Built-in ORiN open-resource interface allows communication with more than 100 different types of devices
- 100 Base-T Ethernet, mini/hand I/O, RS-232C and USB standard
- CC-Link, DeviceNet, EtherCAT, EtherNet/IP, parallel discrete I/O, Profibus and Profinet optional
- Microsoft Windows-based graphical user interface reduces robot setup time
- ISO and UL safety compliance allows global deployment



## External Dimensions



# RC8 ROBOT CONTROLLER



## Specifications

			VP -5243/6242	VP -6242G2	VS -050/060	VS -068/087	VM -6083/60B1	HS -45****	HM -4****	XR -43****1
Power	Power supply (kVA)		1.00 <sup>1</sup>	1.00 <sup>1</sup>	1.15	2.78	3.30	1.80	2.45	1.80
	Input voltage range		Three phase, 200 VAC -15% to 240 VAC +10% (100 V specification also available for VP series)							
			Single phase, 200 VAC -15% to 240 VAC +10% <sup>1</sup>				Single phase, 200 VAC -15% to 240 VAC +10%			
Power supply frequency		50/60 Hz								
Power cable			5 m							
Controllable axes			5/6 <sup>2</sup>	6 <sup>2</sup>				4 <sup>2</sup>		
Control method			PTP, CP 3-dimensional linear, 3-dimensional arc (PTP control only for additional axes)							
Drive method			Digital AC servo on all axes							
Language used			DENS0 Robotics language (PacScript)							
Memory capacity, user area			Variable area: 1.75 MB (equivalent to 65,000 points); File area: 400 MB (5,000 steps × 256 files)							
Teaching system			Remote teaching Numerical entry (MDI) Direct teaching (HS Series and HM Series only)							
External signal (I/O, etc.) <sup>3</sup>	Universal/ dedicated I/O	Mini I/O	Input: 8 open user points + 14 fixed system points (safety-I/O-less version has 13 fixed system points) <sup>3</sup> Output: 8 open user points + 16 fixed system points (safety-I/O-less version has 12 fixed system points)							
		Hand I/O								
	Parallel I/O boards (option)		Bus: PCI Input: 40 open user points; Output: 48 open user points							
	DeviceNet slave board (option)		Bus: PCI Express Input: 256 points; Output: 256 points							
	CC-Link remote device board (option)		Bus: PCI Express Input: 128 points; Output: 128 points; Remote registers, Input: 256 points; Output: 256 points							
	Profibus slave board (option)		Bus: PCI Express Input: 256 points; Output: 256 points							
	EtherNet/IP adapter board (option)		Bus: PCI Express Input: 4,032 points; Output: 4,032 points							
External communication			RS-232C: 1 line; Gigabit Ethernet: 1 line; USB: 2 lines							
Expansion slot			PCI: 1 slot; PCI Express: 1 slot							
Self-diagnosis function			Overrun, servo error, memory error, input error, short-circuit detection (user wiring required), etc.							
Environmental condition (in motion)			Temperature: 0 to 40 °C; Humidity: 90% or less RH (no condensation allowed)							
Safety category			Standard specification: Category 4, PL = e (ISO 13849-1, 2006) <sup>4</sup>							
Protection level			IP20							
Weight			Standard: Approx. 12 kg <sup>5</sup>							

1. Power for 100 VAC specification: Single phase 100 VAC -10% to 110 VAC +10% 50/60 Hz, 1 kVA.

2. Up to two additional axes optional. Power modules, motors and cabling not included.

3. Support for EtherCAT and Profinet adapter board scheduled for March 2013.

4. If built-in safety I/O is not required, please specify safety-I/O-less controller.

5. Does not include supplied cables.

## DENSO ROBOTICS

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