

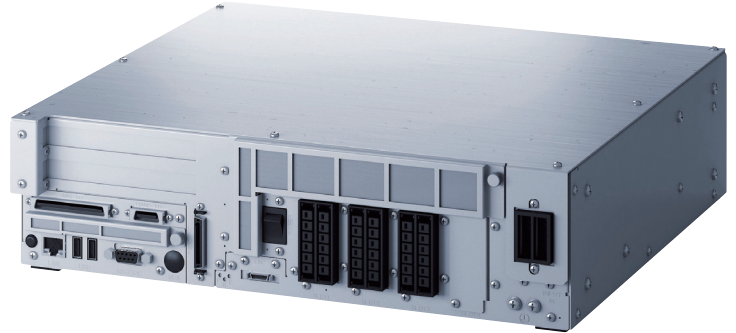
RC8A ROBOT CONTROLLER/

DENSO
robotics

The DENSO RC8A is 19 percent smaller and 17 percent lighter than the previous model, yet offers even 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 12.5 x 14 in (320 x 357 mm)*
- Weighs only 22 lbs (10 kg)**
- New Safety Motion function allows creation of virtual fences around robot, facilitating human-robot collaboration
- Built-in ORiN open-resource interface allows communication with more than 100 different types of devices
- Gigabyte Ethernet, mini/hand I/O, RS-232C and USB standard
- CC-Link, DeviceNet, EtherCAT, EtherNet/IP, parallel discrete I/O, Profibus, Profinet and more cards available***
- Microsoft Windows-based graphical user interface reduces robot setup time
- ISO and UL safety compliance allows global deployment

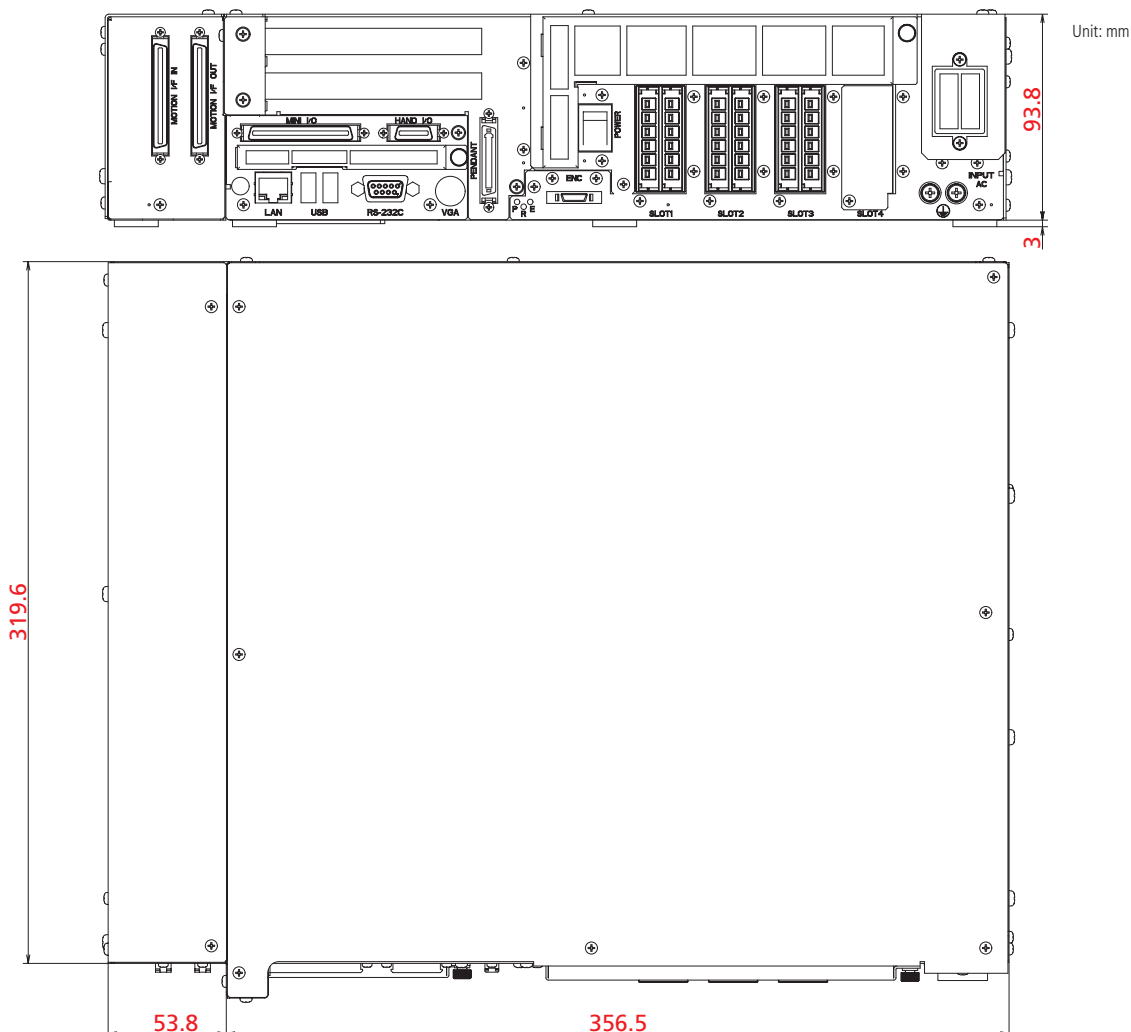


*RC8A Safety Motion type footprint 12.5 x 16 in (320 x 410 mm).

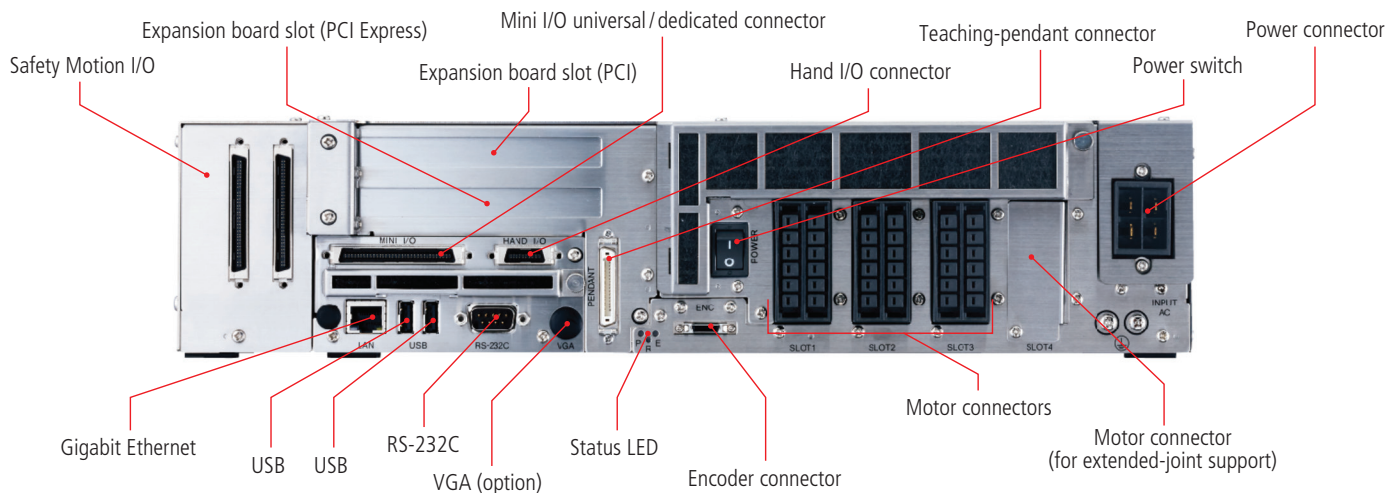
**RC8A Safety Motion type weighs 24 lbs (11 kg).

***Contact your local sales representative for a full list of cards available.

External Dimensions



RC8A ROBOT CONTROLLER



Specifications

		VP -5243/6242	VP -6242G2	VS -050/060	VS -068/087	VM -6083/60B1	HS -45***	HM -4****	XR -43****1	HSR	HS-A1
Power	Power supply (kVA)	1.00 ¹	1.00 ¹	1.15	2.78	3.30	1.80	2.45	1.80	1.80	1.80
	Input voltage range	Three-phase, 200 VAC -15% to 240 VAC +10% (100 V specification also available for VP series ¹)									
	Power supply frequency	Single-phase, 230 VAC -10% to 240 VAC +10%									
Power cable		50/60 Hz									
Controllable axes		5/6 ²									
Control method		6 ²									
Drive method		4 ²									
Language used		PTP, CP 3-dimensional linear, 3-dimensional arc (PTP control only for additional axes)									
Memory capacity, user area		Digital AC servo on all axes									
Teaching system		DENSRO Robotics language (PacScript)									
External signals (I/O, etc.)	Mini I/O	User area-Variable area: 1.75 MB (equivalent to 32,766 points); File area : 400 MB (5,000 steps × 256 files)									
		Remote teaching, Numerical entry (MDI), Direct teaching (HS, HM, HSR and HS-A1 Series only)									
	Standard type/Safety motion type	Input: User open 8 points + system fix 14 points / Output: 8 open user points + 17 fixed system points									
		Input: User open 8 points + system fix 13 points / Output: 8 open user points + 14 fixed system points									
	Safety I/O less type	Input: User open 8 points / Output: User open 8 points									
	Hand I/O	Input: Safety circuit signal: 30 points / Output: Safety circuit signal: 14 points									
	Motion I/O (Option)	Expansion slot: PCI / Input: 40 points / Output: 48 points									
	Parallel I/O Expansion Board (Option)	Expansion slot: PCI Express / Input: 8,192 points max. / Output: 8,192 points max. Remote register input: 2,048 words max. / Output: 2,048 words ³									
	CC-Link Remote Device Board (Option)	Expansion slot: PCI Express / Input: 256 points max. / Output: 256 points max.									
	DeviceNet Slave Board (Option)	Expansion slot: PCI Express / Input: 1,024 points / Output: 1,024 points									
	DeviceNet Master Board (Option)	Expansion slot: PCI Express / Input: 4,032 points max. / Output: 4,032 points max.									
EtherNet / IP Adapter Board (Option)		Expansion slot: PCI Express / Input: 256 points max. / Output: 256 points max.									
PROFIBUS Slave Board (Option)		Expansion slot: PCI Express / Input: 8,192 points max. / Output: 8,192 points max.									
PROFINET I/O Device Board (Option)		Expansion slot: PCI Express / Input: 2,048 points max. / Output: 2,048 points max.									
EtherCAT Slave Board (Option)		RS-232C: 1 line; Gigabit Ethernet: 1 line; USB: 2 lines; VGA: 1 line (Option)									
External communication		PCI: 1 slot; PCI Express: 1 slot									
Expansion slot		Overrun, servo error, memory error, input error, short-circuit detection (user wiring), etc.									
Self-diagnosis function		Temperature: 0 to 40 °C; Humidity: 90% or less RH (no condensation)									
Environmental requirements (when operating)		Standard type: (Safety I/O) Category 4, PL e Safety motion type: (Safety I/O) Category 4, PL e / (Motion I/O) Category 3 PL d									
Safety category		IP20									
Protection class		Safety I/O less type, standard type: approx. 10 kg, safety motion type: approx. 11 kg ⁴									
Weight											

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. For Version 2.00.

4. Does not include supplied cables.

DENSO ROBOTICS

3900 Via Oro Avenue, Long Beach, California 90810, U.S.A

Tel: 888-4-ROBOTX (888-476-2689) | Fax: (310) 952-7502 | info@densorobotics.com

© 2017 DENSO Corporation

Information subject to change without notice

DENSO
robotics

www.densorobotics.com