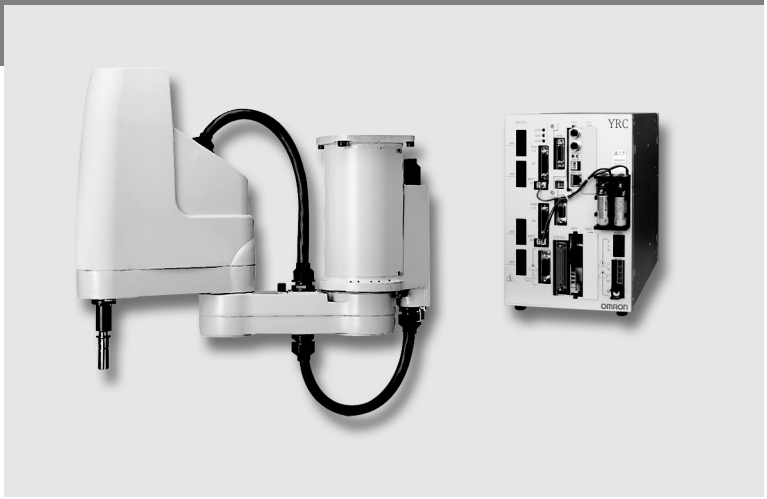
XS series

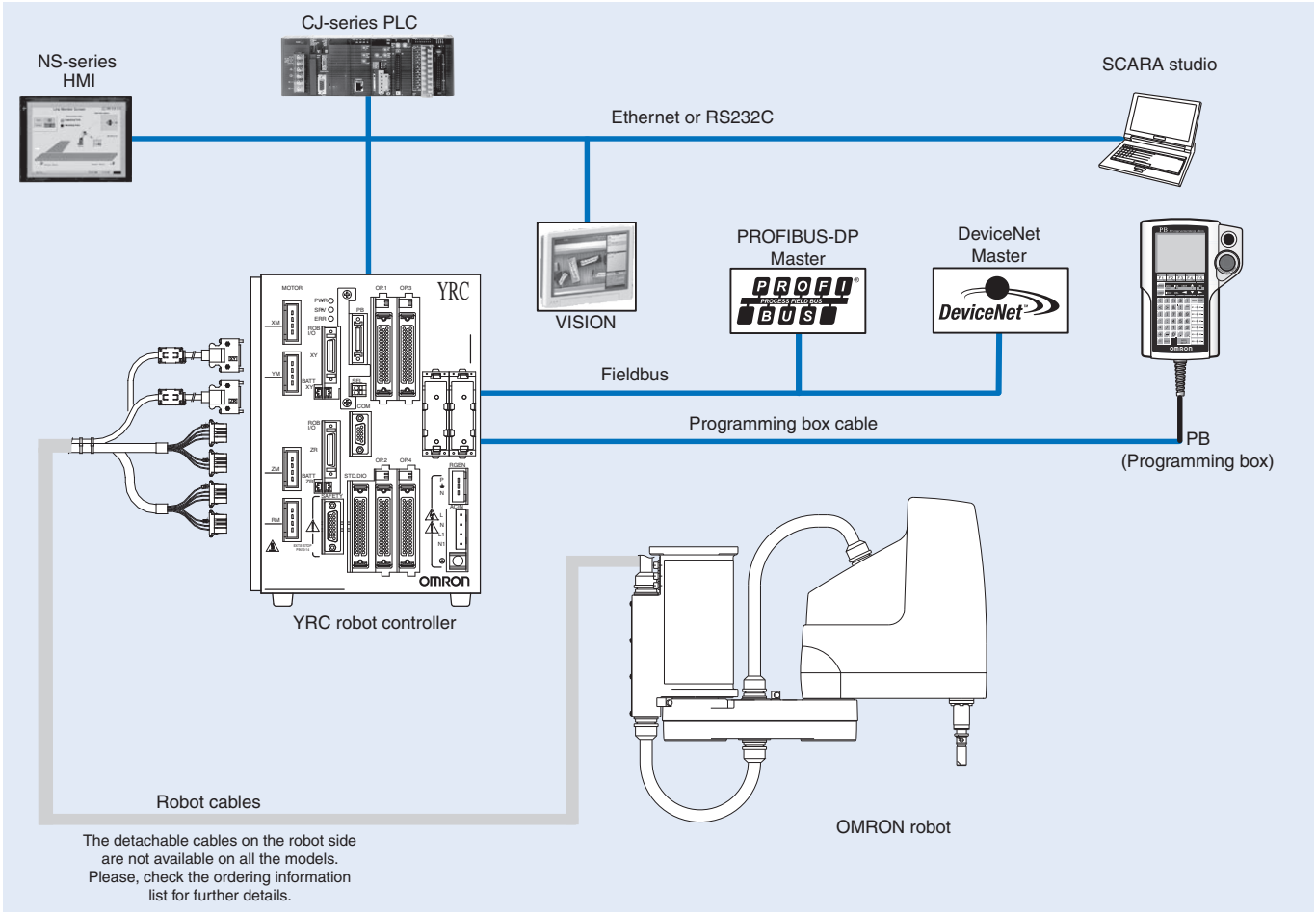
SCARA robots



SCARA robots for industrial applications:

- Ceiling-Hanging, Wall-Hanging, InverseType
- Higher precision and speed.
- Easier to use.
- Higher rigidity.
- Very compact design.

System configuration



YRC Robot controller

Specifications

Item			Description
YRC			YRC robot controller
Basic specifications	Number of controllable axes		4 axes maximum (Control simultaneously: 4 axes)
	Controllable robots		SCARA robots
	Maximum power consumption		2500 VA
	Capacity of the connected motor		1600 W
	Dimensions (WxHxD)		180x250x235 mm
	Weight		6.5 kg
	Input power supply	Control power supply	Single phase AC200 to 230 V +/-10% maximum (50/60 Hz)
		Motor power supply	Single phase AC200 to 230 V +/-10% maximum (50/60 Hz)
Axis control	Drive method		AC full-digital software servo
	Position detection method		Multi-turn resolver with data backup function, Magnetic linear scale
	Operating method		PTP (Point to point), Linear interpolation, Circular interpolation, ARCH
	Coordinate system		Joint coordinates, Cartesian coordinates
	Position indication units		Pulses, mm (millimeters), deg (degrees)
	Speed setting		1% to 100% (In units of 1%. However speed is in units of 0.01% during single-axis operation by DRIVE statement)
	Acceleration setting		1. Automatic acceleration setting based on robot model type and end mass parameter 2. Setting based on acceleration and deceleration parameter (Setting by 1% unit)
	Resolution		16384 P/rev, 1 micron
	Origin search method		Incremental, absolute, semi-absolute
Program	Program language		PSEUDO-BASIC (Conforming to JIS B8439 SLIM Language)
	Multitasks		8 tasks maximum
	Sequence program		1 program
	Point-data input method		Manual data input (coordinate value input), Direct teaching, Teaching playback
Memory	Memory capacity		364 KB (total capacity of program and points) (avaliable program capacity during use of maximum number of points is 84 KB)
	Programs		100 program (Max.) 9.999: maximum lines per program 98 KB: maximum capacity per program
	Points		10.000 points: maximum number of points
	Memory Backup battery		Lithium metallic battery (service life 4 years at a 0ºC to 40ºC)
	Internal flash memory		512 KB (ALL data only)
External input/output	STD.DIO	I/O input	General input 16 points, dedicated input 10 points (NPN/PNP specifications selectable)
		I/O output	General output 8 points, dedicated output 11 points
	SAFETY		Emergency stop input (Relay contact), Service mode input (NPN/PNP specification is set according to STD.DIO setting)
	Brake output		Relay contact
	Origin sensor input		Connectable to DC 24 V normally-closed contact sensor
	External communications		RS232C: 1CH D-SUB9 (female) RS422: 1CH (Dedicated PB)
	Options	Slots	4
		Type	Optional input/output (NPN/PNP): General input 24 points / General output 16 points
			CC-Link: Dedicated input 16 points, Dedicated output 16 points, General input 96 points, General output 96 points (4 nodes occupied)
			DeviceNet: Dedicated input 16 points, Dedicated output 16 points, General input 96 points, General output 96 points
			Profibus: Dedicated input 16 points, Dedicated output 16 points, General input 96 points, General output 96 points
			Ethernet: IEEE802.3 10Mbps (10BASE-T)
			IVY: Camera input (2ch), camera trigger input, PC connection input
			Tracking: AB phase input, lighting trigger input, lighting power supply input/output
			Lighting control: lighting trigger input, lighting power supply input/output
Options	Programming box		PB (with enable switch)
	Support software for PC		SCARA STUDIO
General specifications	Operating temperature		0ºC to 40ºC
	Storage temperature		-10ºC to 65ºC
	Operating humidity		35% to 85% RH (non-condensing)
	Absolute backup battery		Lithium metallic battery 3.6 V 5400 mAH (2700 mAH x 2)
	Absolute data backup period		1 year (in state with no power applied)
	Noise immunity		IEC61000-4-4 Level 3
	Protective structure		IP10

YRC-Optional Input/Output unit (PNP/NPN)

Item	Description
R6YACMA241 (NPN) R6YACMA242 (PNP)	Optional Input/Output unit
Optional Input/Output (NPN/PNP)	24 General purpose input, 16 General purpose output

YRC-DeviceNet slave unit

Item		Description
R6YACDRT01		DeviceNet slave unit
Applicable controllers		YRC
Applicable DeviceNet specifications		Volume 1 Release 2.0 / Volume 2 Release 2.0
Device Profile Name		Generic Device (device number 0)
Number of occupied CH *1		Normal: Input/Output 24ch each, Compact: Input/Output 2ch each
MAC ID setting		0 to 63
Transmission speed setting		500 Kbps, 250 Kbps, 125 Kbps (set using DIP switch on board)
DeviceNet I/O *2	Normal	General input 96 points, General output 96 points, Dedicated input 16 points, Dedicated output 16 points
	Compact	General input 16 points, General output 16 points, Dedicated input 16 points, Dedicated output 16 points
Parallel external I/O		The master module and up to four ports can be controlled regardless of the robot program by using the pseudoserialization function
Network length	Overall length *3	100 m/500 Kbps, 250 m/250 Kbps, 500 m/125 Kbps
	Branch length / Overall branch length	6 m max./39 m max., 6 m max./78 m max., 6 m max./156 m max.
Monitor LED		MS (Module Status), NS (Network Status)

*1 Use the robot parameter to select Normal or Compact.
*2 Controller I/O are updated every 10ms.
*3 These values apply when a thick cable is used. The distance is less when a fine cable is used or when thick and fine cables are mixed in use.

YRC-Profibus slave unit

Item	Description
R6YACPRT01	Profibus slave unit
Applicable controllers	YRC
Communication profile	Profibus-DP slave
Number of occupied nodes	1 node
Setting of station address	1 to 99 (set using Rotary switch on board)
Setting of comunication speed	9.6 Kbps, 19.2 Kbps, 93.75 Kbps, 187.5 Kbps, 500 Kbps, 1.5 Mbps, 3 Mbps, 6 Mbps, 12 Mbps (automatic recognition)
Profibus I/O *1	General input 96 points, General output 96 points, Dedicated input 16 points, Dedicated output 16 points
Parallel external I/O	The master module and up to four ports can be controlled regardless of the robot program by using the pseudoserialization function
Overall length	100 m/3 M·6 M·12 Mbps, 200 m/1.5 Mbps, 400 m/500 Kbps, 1000 m/187.5 Kbps, 1200 m/9.6 K· 19.2 K·93.75 Kbps
Monitor LED	RUN, ERR, SD, RD, DATA-EX

*1 The shortest I/O update interval of the controller is 10 ms but the actual I/O update time varies depending on the update time with the master station.

YRC-Ethernet unit

Item	Description
R6YACETN01	Ethernet unit
Applicable controllers	YRC
Network specification	As specified for Ethernet (IEEE802.3)
Connector specification	RJ-45 connector (8-pole modular connector) 1 port
Baud rate	10 Mbps (10BASE-T)
Communication mode	Half Duplex (Half-duplex)
Network protocol	Application layer: TELNET / Transport layer: TCP / IP Network layer: IP, ICMP, ARP / Data link layer:CSMA / CD Physical layer: 10BASE-T
Number of simultaneous log inputs	1
Setting of IP address, etc.	Set from PB
Monitor LED	Run, Collision, Link, Transmit, Receive

YRC-VISION board basic specifications

Item		Description
R6YACVI01		VISION board
Basic specifications	Applicable controller	YRC
	Pixels	640 (H) x 480 (V) (300,000 pixels, VGA)
	Settable part types	40 part types
	Connectable cameras	Maximum 2 units*1
	Camera types	Double speed compatible analog camera
	Memory	128 MB SDRAM, 256 MB miniSD card
	External I/F	Ethernet (100BASE-TX)
Search method		Edge search (Correlative edge filter, Sobel filter)
Image input	Trigger	S/W trigger, H/W trigger, Camera internal synch
	External trigger input	2 points
Functions	Search function	Position offset, Auto registry of point data
Setup support functions		Calibration, image storage function*2 (all images / specified image)

*1 If connecting 2 units, then must be the same model.
*2 Requires Windows PC.

Accessories for YRC-VISION board

Item	Description
R6YACS1	CCD CAMERA
R6YACCV003	Camera cable 3.5 m
R6YACCV006	Camera cable 6 m
R6YACCV009	Camera cable 9.5 m (3.5 m + 6 m)
R6YACLE008	Lens 8 mm
R6YACLE012	Lens 12 mm
R6YACLE016	Lens 16 mm
R6YACLE025	Lens 25 mm
R6YACLR005	Close up ring 0.5 mm
R6YACLR010	Close up ring 1.0 mm
R6YACLR020	Close up ring 2.0 mm
R6YACLR050	Close up ring 5.0 mm

YRC-Tracking board basic specifications

Item			Description
R6YACTR01			Tracking board
Basic specifications	Applicable controller		YRC
	Lighting control section	Number of lighting connected units	Up to 2 units
		Light adjusting system	PWM control (0 to 100%) (Cycle 60 KHz) Stroboscopic light (10 to 33000 µs)
		Trigger	S/W trigger, H/W trigger
		External trigger input	2 points
		Lighting power input	12 VDC or 24 VDC (Supplied from outside commonly to 2 channels)
		Lighting output	When DC 12 V is supplied: Less than 30 W with 2 channels totaled When DC 24 V is supplied: Less than 60 W with 2 channels totaled
	Pulse input section	Number of encoder connected units	Up to 2 units
		Encoder power source	DC 5 V (Less than 500 mA with 2 channels totaled) (Supplied from controller)
		Applicable encoder	Line driver equivalent to 26LS31 / 26C31 (Conforming to RS422)
		Input phase	A, $\overline{A}$, B, $\overline{B}$, Z, $\overline{Z}$
		Maximum response frequency	2 MHz
		Counter / Step-up multiplication	0 to 65535 / Double, quadruple
		Other	Provided with broken wire detect function

Note: The tracking board is required when using the tracking function.

Accessories for YRC-Tracking board

Item	Description
R6YACCR005	Encoder cable for tracking 10m

YRC-Lighting control board basic specifications

Item		Description
R6YACLI01		Lighting control board
Basic specifications	Applicable controller	YRC
	Number of lighting connected units	Up to 2 units
	Light adjusting system	PWM control (0 to 100%) (Cycle 60KHz) Stroboscopic light (10 to 33000us)
	Trigger	S/W trigger, H/W trigger
	External trigger input	2 points
	Lighting power input	12VDC or 24VDC (Supplied from outside commonly to 2 channels)
	Lighting output	When DC12V is supplied: Less than 30W with 2 channels totaled When DC24V is supplied: Less than 60W with 2 channels totaled

Accessories for YRC-PB (Programming box)

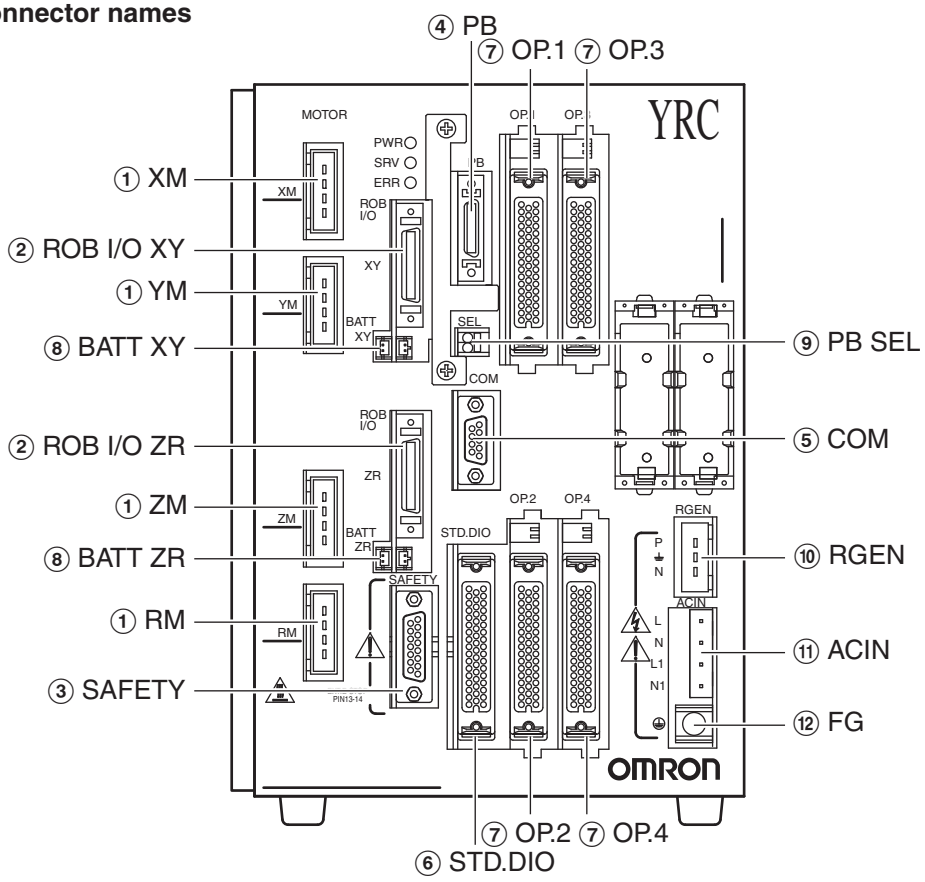
Item	Description
R6YACPB005E	Programming box cable 5m
R6YACPB012E	Programming box cable 12m

Accessories for YRC-SCARA studio software

Item	Description
R6YACSSC1	Support software SCARA studio
R6YACCC005	Communication cable 9-9 pin

YRC-Nomenclature

Connector names

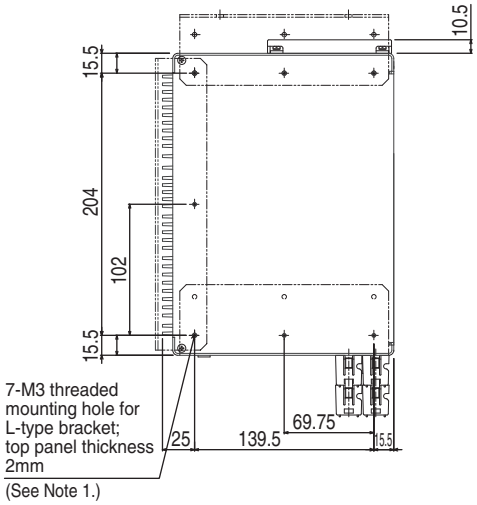


	Connector name	Function
①	XM/YM/ZM/RM	Connectors for servomotor drive
②	ROB I/O [XY/ZR]	Connectors for servomotor feedback and sensor signals
③	SAFETY	Input/output connector for safety function such as emergency stop
④	PB	Connector for PB
⑤	COM	RS-232C interface connector.
⑥	STD.DIO	Connector for dedicated input/output and standard generalpurpose input/output
⑦	OP.1 ,2, 3, 4	Conectors attached to optional expansion I/O boards
⑧	BATT [XY/ZR]	Battery connector for absolute backup
⑨	PB SEL	PB selector switch contact
⑩	RGEN [P/⏚/N]	Connector for regenerative unit
⑪	AC IN [L/N/L1/N1]	Terminal block for power cable. Use ring-tongue terminals to make connections.
⑫	FG	Ground terminal (⏚) . Provide Class D grounding (100 ohms or less) .

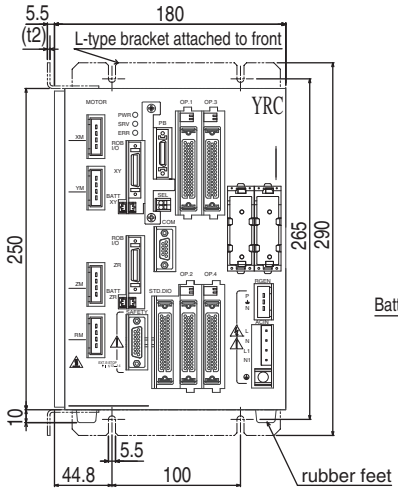
Dimensions

Standard YRC

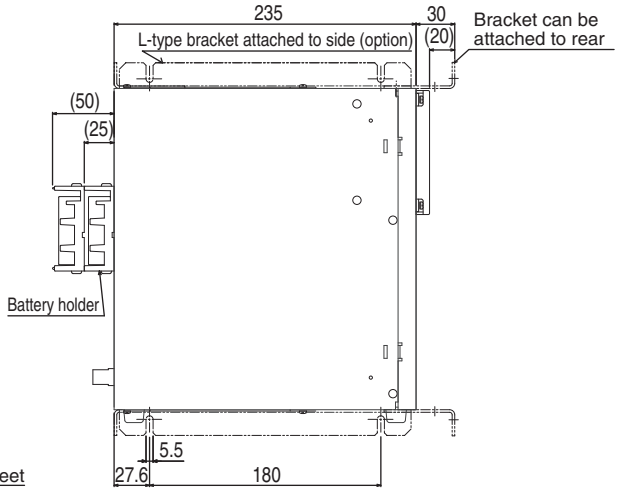
Top view



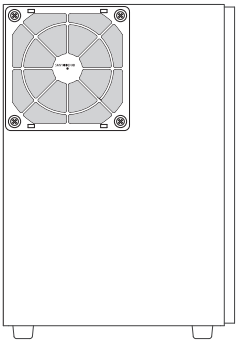
Front view



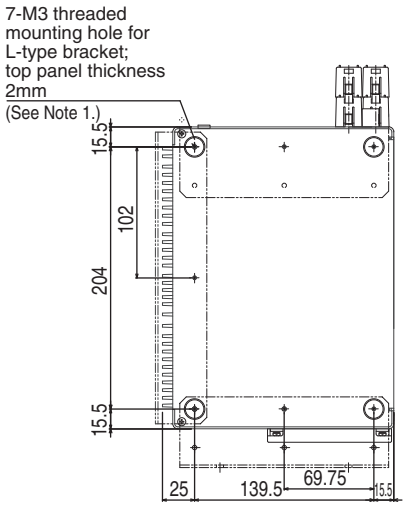
Side view



Rear view



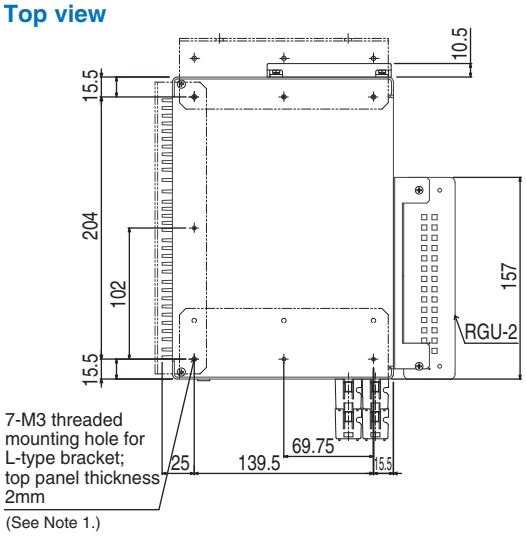
Bottom view



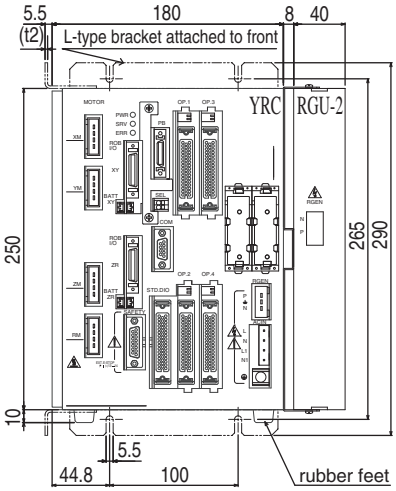
Note 1: When installing this controller using the supplied L-type brackets, remove the rubber feet on the bottom plate.

YRC with RGU2 option installed

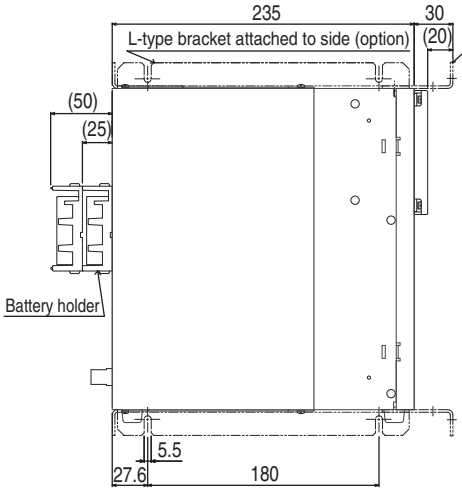
Top view



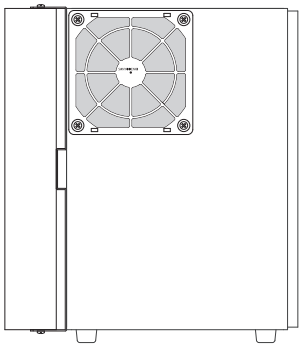
Front view



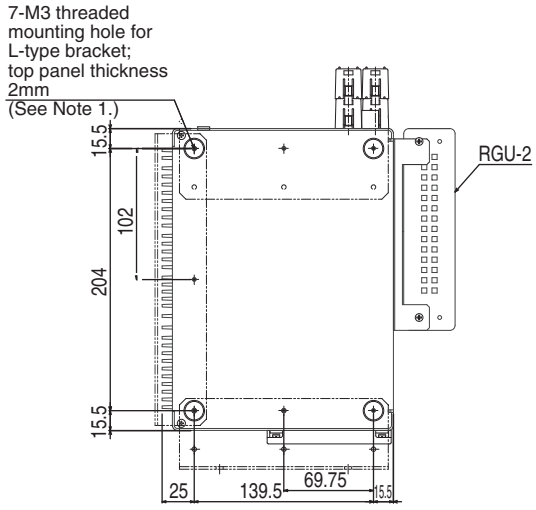
Side view



Rear view

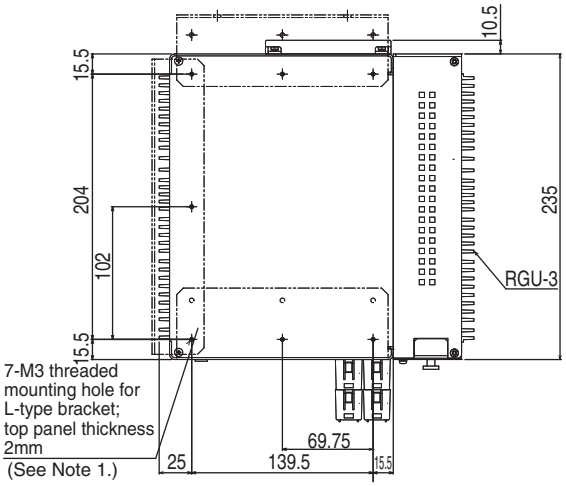


Bottom view

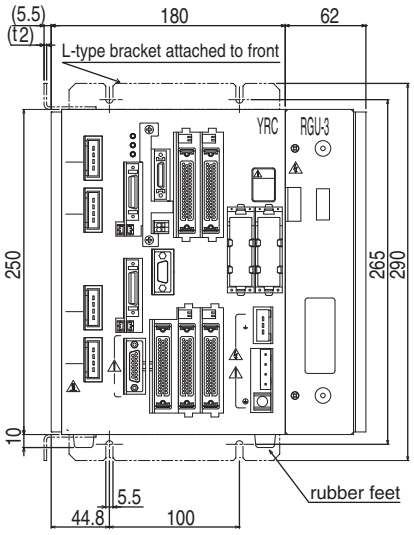


YRC with RGU3 option installed

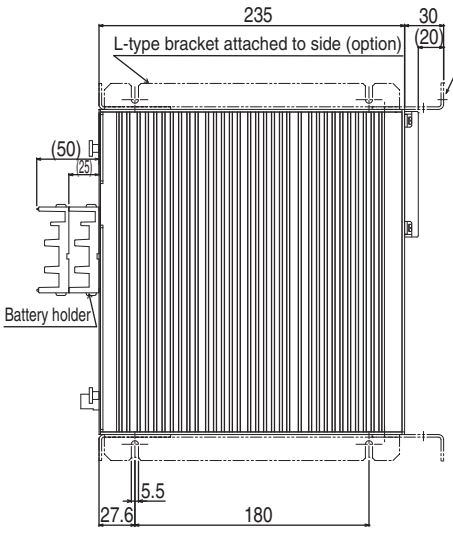
Top view



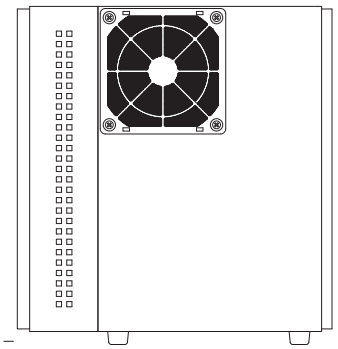
Front view



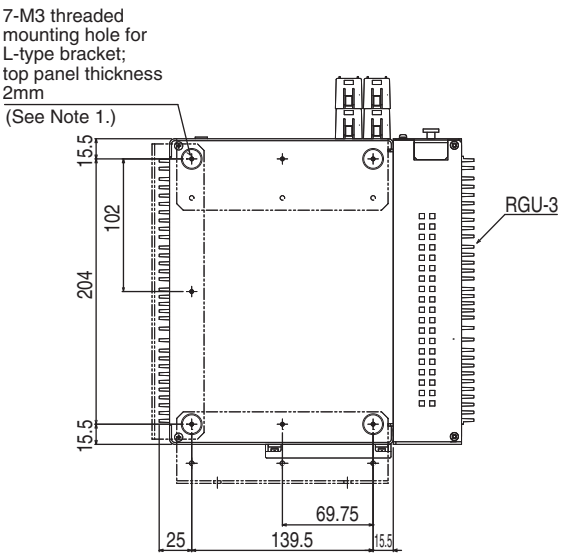
Side view



Rear view



Bottom view



OMRON

R6YXSH300 WALL-HANGING / INVERSE TYPE

Specifications

			X axis	Y axis	Z axis	R axis
Reach (mm)			300			
Maximum payload (kg)			3			
Repeatability*1 (XYZ:mm) (R:º)			+/-0.01		+/-0.01	+/-0.005
Axis specifications	Arm length (mm)		175	125	150	----
	Rotation range (º)		+/-115	+/-140	----	+/-360
Deceleration mechanism	Speed reducer		Harmonic drive	Harmonic drive	Ball screw	Harmonic drive
	Transmission method	Motor to speed reducer	Direct-coupled		Timing belt transmission	Timing belt transmission
		Speed reducer to output	Direct-coupled			
AC servo motor output (W)			200	100	100	100
Maximum speed (XYZ:m/sec) (R:º/sec)			4.4		1	1020
Standard cicle time: with 2kg payload*2 (sec)			0.54			
R axis allowable moment inertia *3 (kgm^2)			0.05			
User wiring (sq x pcs)			0.2 x 10			
User tubing (Outer diameter)			Ø4 x 3			
Movement limit setting			1.Soft limit 2.Mechanical stopper (X, Y, Z axis)			
Robot cable length (m)			Standard: 3.5 Option: 5, 10			
Weight (kg) (Excluding robot cable)			15			

*1 This is the value at a constant ambient temperature. (X,Y axes)
*2 When moving 25 mm in vertical direction and 300 mm in horizontal direction reciprocally.
*3 There are limits to the setting of the acceleration coefficient.

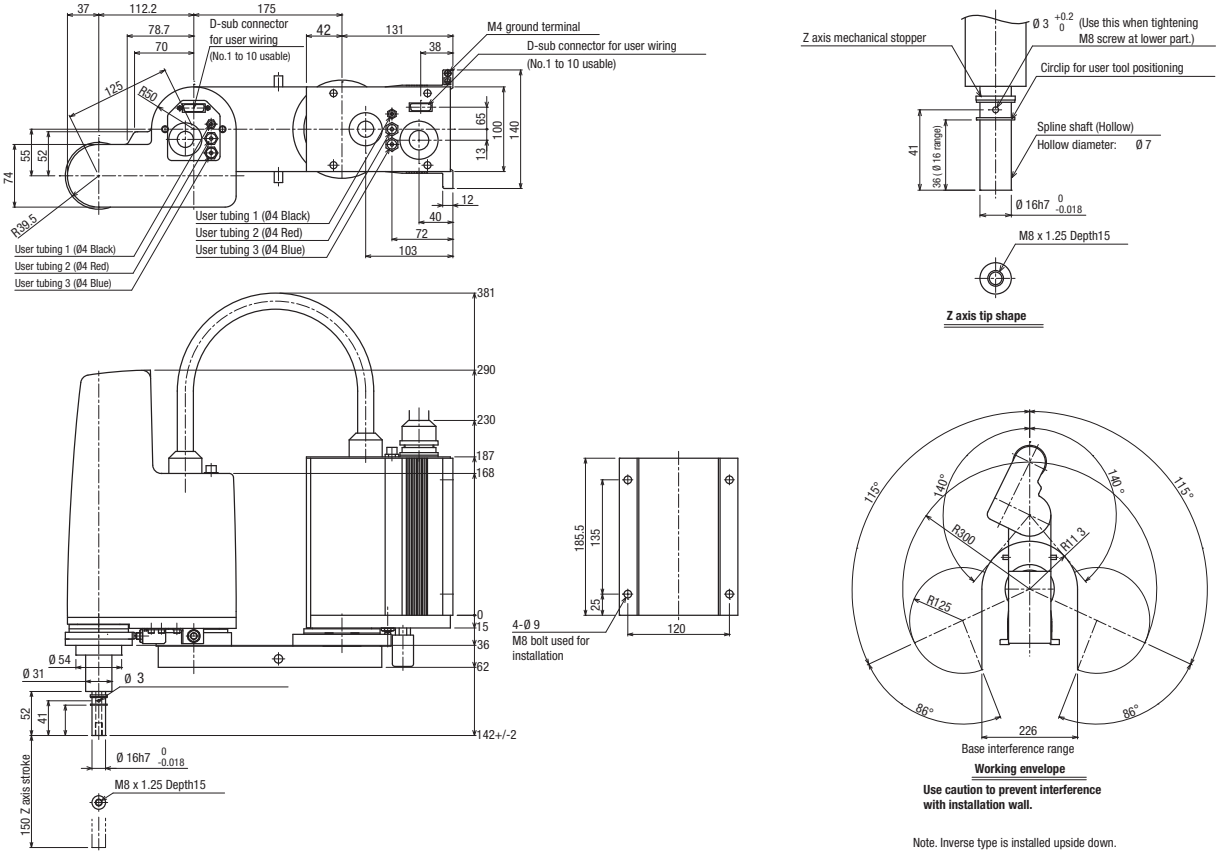
Controller

Controller	Power consumption (VA)	Operating method
YRC	1000	Programming / I/O point trace / Remote command / Operation using RS-232C communication

Ordering information

Description	Model
SCARA Reach: 300mm, Vertical Stroke: 150mm, Max. payload: 3kg.	R6YXSH300150YRC

Dimensions



Note. Inverse type is installed upside down.

R6YXSH400 WALL-HANGING / INVERSE TYPE

Specifications

			X axis	Y axis	Z axis	R axis
Reach (mm)			400			
Maximum payload (kg)			3			
Repeatability*1 (XYZ:mm) (R:º)			+/-0.01		+/-0.01	+/-0.005
Axis specifications	Arm length (mm)		225	175	150	----
	Rotation range (º)		+/-115	+/-140	----	+/-360
Deceleration mechanism	Speed reducer		Harmonic drive	Harmonic drive	Ball screw	Harmonic drive
	Transmission method	Motor to speed reducer	Direct-coupled		Timing belt transmission	Timing belt transmission
		Speed reducer to output	Direct-coupled			
AC servo motor output (W)			200	100	100	100
Maximum speed (XYZ:m/sec) (R:º/sec)			6		1	1020
Standard cicle time: with 2kg payload*2 (sec)			0.66			
R axis allowable moment inertia*3 (kgm^2)			0.05			
User wiring (sq x pcs)			0.2 x 10			
User tubing (Outer diameter)			Ø4 x 3			
Movement limit setting			1.Soft limit 2.Mechanical stopper (X, Y, Z axis)			
Robot cable length (m)			Standard: 3.5 Option: 5, 10			
Weight (kg) (Excluding robot cable)			15			

*1 This is the value at a constant ambient temperature. (X,Y axes)
*2 When moving 25mm in vertical direction and 300 mm in horizontal direction reciprocally.
*3 There are limits to the setting of the acceleration coefficient.

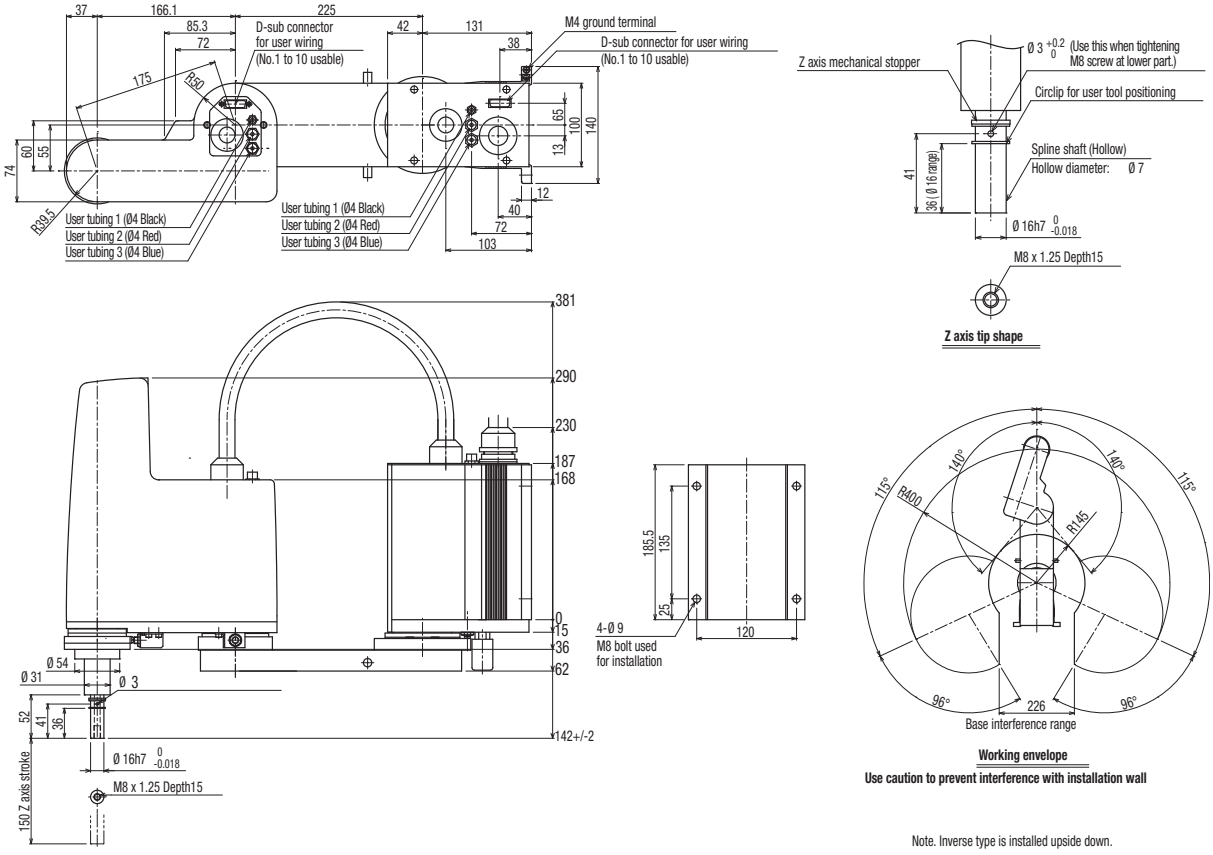
Controller

Controller	Power consumption (VA)	Operating method
YRC	1000	Programming / I/O point trace / Remote command / Operation using RS-232C communication

Ordering information

Description	Model
SCARA Reach: 400 mm, Vertical Stroke: 150 mm, Max. payload: 3kg.	R6YXSH400150YRC

Dimensions



Note. Inverse type is installed upside down.

OMRON

R6YXS500 CEILING-HANGING / INVERSE TYPE

Specifications

			X axis	Y axis	Z axis		R axis
Reach (mm)			500				
Maximum payload (kg)			10				
Repeatability*1 (XYZ:mm) (R:º)			+/-0.02		+/-0.01		+/-0.005
Axis specifications	Arm length (mm)		250	250	200	300	----
	Rotation range (º)		+/-120	+/-135	----		+/-360
Deceleration mechanism	Speed reducer		Harmonic drive	Harmonic drive	Ball screw		Harmonic drive
	Transmission method	Motor to speed reducer	Direct-coupled		Timing belt transmission		Timing belt transmission
		Speed reducer to output	Direct-coupled				
AC servo motor output (W)			400	200	200		100
Maximum speed (XYZ:m/sec) (R:º/sec)			4.9		1.7		876
Standard cicle time: with 2kg payload*2 (sec)			0.53				
R axis allowable moment inertia*3 (kgm^2)			0.12				
User wiring (sq x pcs)			0.2 x 20				
User tubing (Outer diameter)			Ø6 x 3				
Movement limit setting			1.Soft limit 2.Mechanical stopper (X, Y, Z axis)				
Robot cable length (m)			Standard: 3.5 Option: 5, 10				
Weight (kg) (Excluding robot cable)			30				

*1 This is the value at a constant ambient temperature. (X,Y axes)
*2 When moving 25 mm in vertical direction and 300 mm in horizontal direction reciprocally.
*3 There are limits to the setting of the acceleration coefficient.

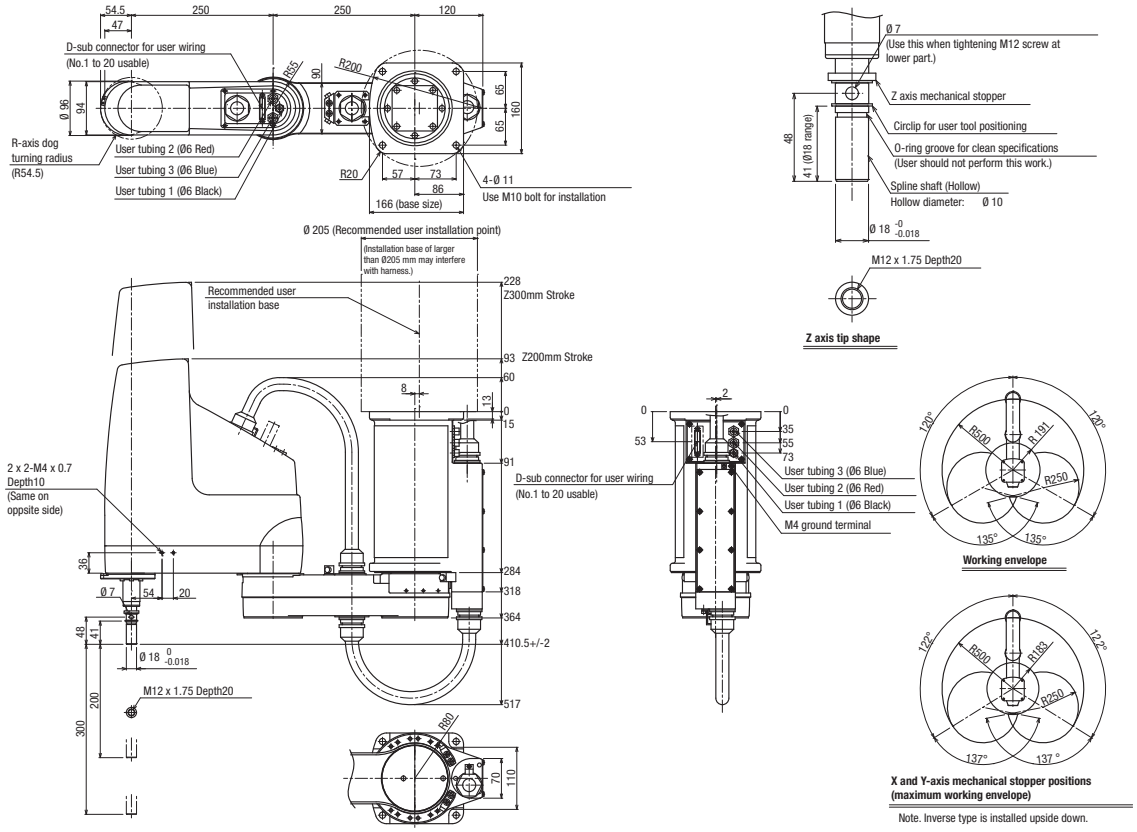
Controller

Controller	Power consumption (VA)	Operating method
YRC	1500	Programming / I/O point trace / Remote command / Operation using RS-232C communication

Ordering information

Description	Model
SCARA Reach: 500 mm, Vertical Stroke: 200 mm, Max. payload: 10 kg.	R6YXS500200YRC
SCARA Reach: 500 mm, Vertical Stroke: 300 mm, Max. payload: 10 kg.	R6YXS500300YRC

Dimensions



R6YXS600 CEILING-HANGING / INVERSE TYPE

Specifications

			X axis	Y axis	Z axis		R axis
Reach (mm)			600				
Maximum payload (kg)			10				
Repeatability*1 (XYZ:mm) (R:º)			+/-0.02		+/-0.01		+/-0.005
Axis specifications	Arm length (mm)		350	250	200	300	----
	Rotation range (º)		+/-120	+/-145	----		+/-360
Deceleration mechanism	Speed reducer		Harmonic drive	Harmonic drive	Ball screw		Harmonic drive
	Transmission method	Motor to speed reducer	Direct-coupled		Timing belt transmission		Timing belt transmission
		Speed reducer to output	Direct-coupled				
AC servo motor output (W)			400	200	200		100
Maximum speed (XYZ:m/sec) (R:º/sec)			5.6		1.7		876
Standard cicle time: with 2kg payload*2 (sec)			0.56				
R axis allowable moment inertia*3 (kgm^2)			0.12				
User wiring (sq x pcs)			0.2 x 20				
User tubing (Outer diameter)			Ø6 x 3				
Movement limit setting			1.Soft limit 2.Mechanical stopper (X, Y, Z axis)				
Robot cable length (m)			Standard: 3.5 Option: 5, 10				
Weight (kg) (Excluding robot cable)			32				

*1 This is the value at a constant ambient temperature. (X,Y axes)
*2 When moving 25 mm in vertical direction and 300 mm in horizontal direction reciprocally.
*3 There are limits to the setting of the acceleration coefficient.

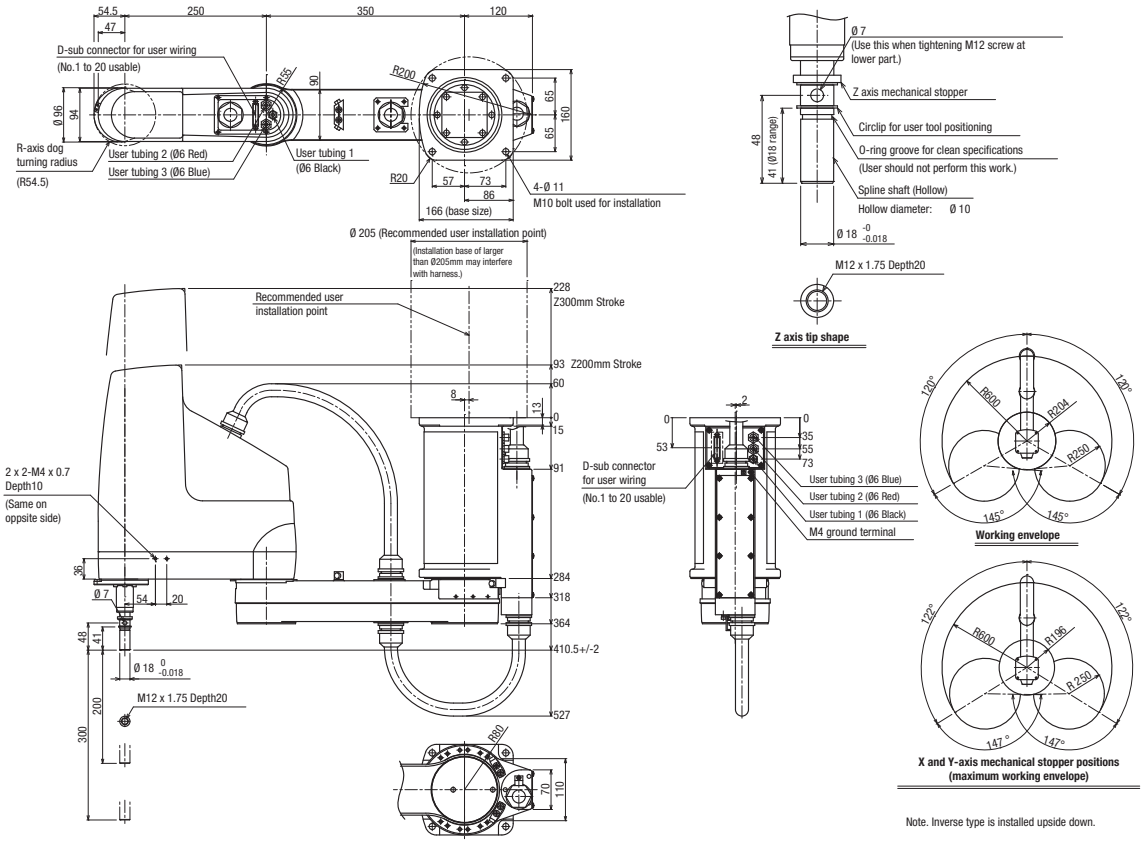
Controller

Controller	Power consumption (VA)	Operating method
YRC	1500	Programming / I/O point trace / Remote command / Operation using RS-232C communication

Ordering information

Description	Model
SCARA Reach: 600 mm, Vertical Stroke: 200 mm, Max. payload: 10 kg.	R6YXS600200YRC
SCARA Reach: 600 mm, Vertical Stroke: 300 mm, Max. payload: 10 kg.	R6YXS600300YRC

Dimensions



OMRON

R6YXS700 CEILING-HANGING / INVERSE TYPE

Specifications

			X axis	Y axis	Z axis		R axis
Reach (mm)			700				
Maximum payload (kg)			20				
Repeatability*1 (XYZ:mm) (R:º)			+/-0.02		+/-0.01		+/-0.005
Axis specifications	Arm length (mm)		350	350	200	400	----
	Rotation range (º)		+/-120	+/-145	----		+/-360
Deceleration mechanism	Speed reducer		Harmonic drive	Harmonic drive	Ball screw		Harmonic drive
	Transmission method	Motor to speed reducer	Direct-coupled		Timing belt transmission		Timing belt transmission
		Speed reducer to output	Direct-coupled				
AC servo motor output (W)			800	400	400		200
Maximum speed (XYZ:m/sec) (R:º/sec)			6.7		1.7		600
Standard cicle time: with 2kg payload*2 (sec)			0.57				
R axis allowable moment inertia*3 (kgm^2)			0.32				
User wiring (sq x pcs)			0.2 x 20				
User tubing (Outer diameter)			Ø6 x 3				
Movement limit setting			1.Soft limit 2.Mechanical stopper (X, Y, Z axis)				
Robot cable length (m)			Standard: 3.5 Option: 5, 10				
Weight (kg) (Excluding robot cable)			56				

*1 This is the value at a constant ambient temperature. (X,Y axes)
*2 When moving 25mm in vertical direction and 300mm in horizontal direction reciprocally.
*3 There are limits to the setting of the acceleration coefficient.

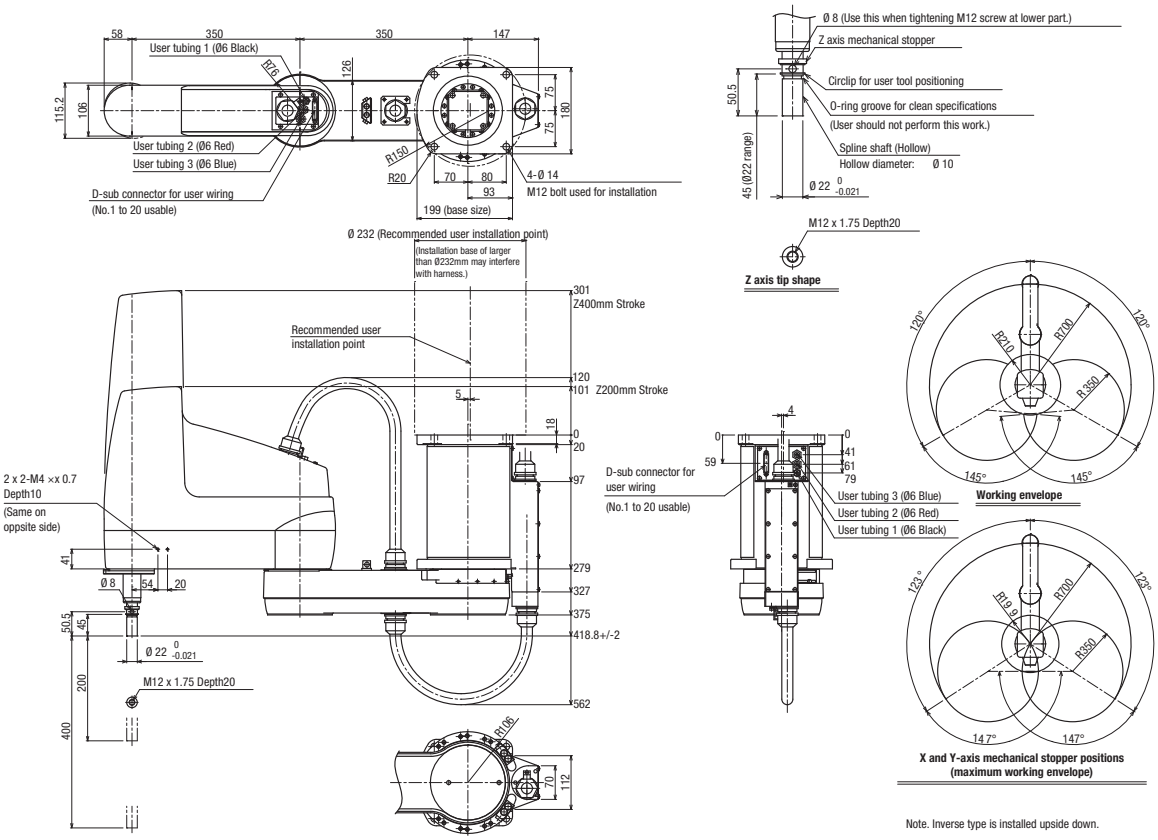
Controller

Controller	Power consumption (VA)	Operating method
YRC	2000	Programming / I/O point trace / Remote command / Operation using RS-232C communication

Ordering information

Description	Model
SCARA Reach: 700mm, Vertical Stroke: 200mm, Max. payload: 20kg.	R6YXS700200YRC
SCARA Reach: 700mm, Vertical Stroke: 400mm, Max. payload: 20kg.	R6YXS700400YRC

Dimensions



R6YXS800 CEILING-HANGING / INVERSE TYPE

Specifications

			X axis	Y axis	Z axis		R axis
Reach (mm)			800				
Maximum payload (kg)			20				
Repeatability*1 (XYZ:mm) (R:º)			+/-0.02		+/-0.01		+/-0.005
Axis specifications	Arm length (mm)		450	350	200	400	----
	Rotation range (º)		+/-120	+/-145	----		+/-360
Deceleration mechanism	Speed reducer		Harmonic drive	Harmonic drive	Ball screw		Harmonic drive
	Transmission method	Motor to speed reducer	Direct-coupled		Timing belt transmission		Timing belt transmission
		Speed reducer to output	Direct-coupled				
AC servo motor output (W)			800	400	400		200
Maximum speed (XYZ:m/sec) (R:º/sec)			7.3		1.7		600
Standard cicle time: with 2kg payload*2 (sec)			0.57				
R axis allowable moment inertia*3 (kgm^2)			0.32				
User wiring (sq x pcs)			0.2 x 20				
User tubing (Outer diameter)			Ø6 x 3				
Movement limit setting			1.Soft limit 2.Mechanical stopper (X, Y, Z axis)				
Robot cable length (m)			Standard: 3.5 Option: 5, 10				
Weight (kg) (Excluding robot cable)			57				

*1 This is the value at a constant ambient temperature. (X,Y axes)
*2 When moving 25mm in vertical direction and 300mm in horizontal direction reciprocally.
*3 There are limits to the setting of the acceleration coefficient.

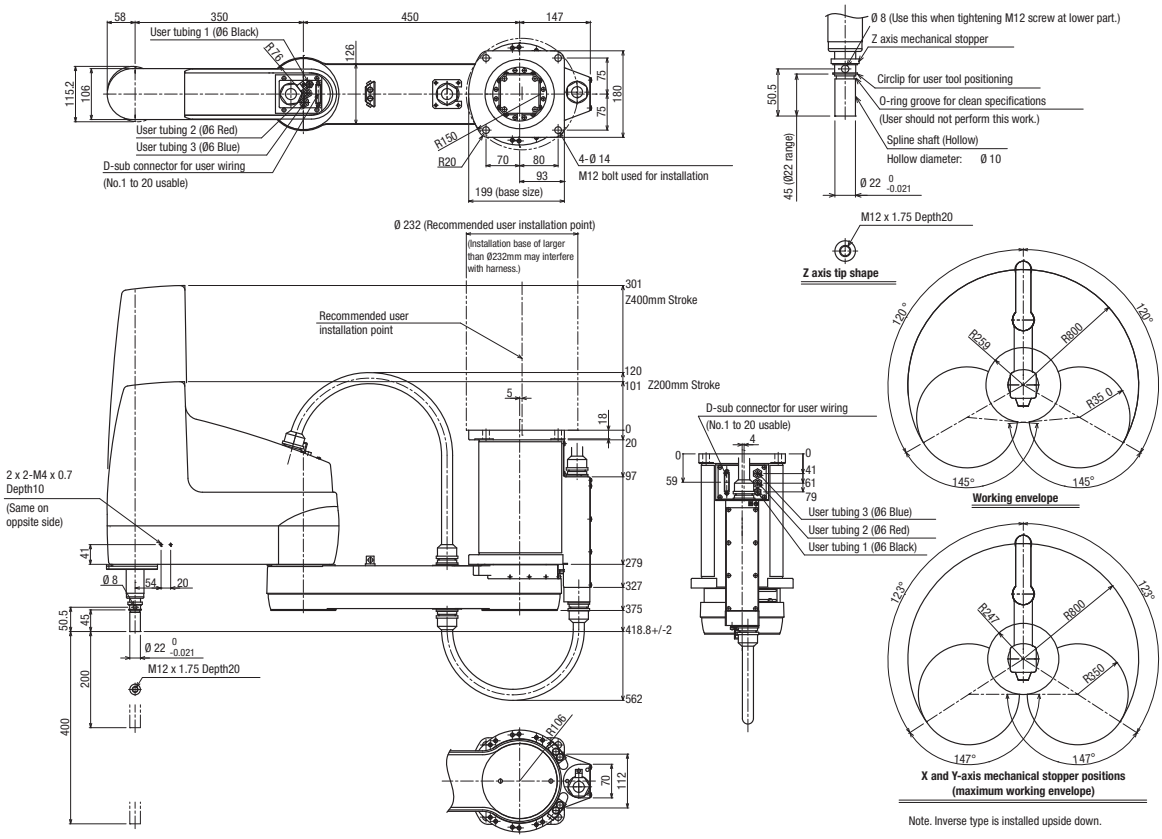
Controller

Controller	Power consumption (VA)	Operating method
YRC	2000	Programming / I/O point trace / Remote command / Operation using RS-232C communication

Ordering information

Description	Model
SCARA Reach: 800mm, Vertical Stroke: 200mm, Max. payload: 20kg.	R6YXS800200YRC
SCARA Reach: 800mm, Vertical Stroke: 400mm, Max. payload: 20kg.	R6YXS800400YRC

Dimensions



Note. Inverse type is installed upside down.

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R6YXS1000 CEILING-HANGING / INVERSE TYPE

Specifications

			X axis	Y axis	Z axis		R axis
Reach (mm)			1000				
Maximum payload (kg)			20				
Repeatability*1 (XYZ:mm) (R:º)			+/-0.02		+/-0.01		+/-0.005
Axis specifications	Arm length (mm)		550	450	200	400	----
	Rotation range (º)		+/-120	+/-145	----		+/-360
Deceleration mechanism	Speed reducer		Harmonic drive	Harmonic drive	Ball screw		Harmonic drive
	Transmission method	Motor to speed reducer	Direct-coupled		Timing belt transmission		Timing belt transmission
		Speed reducer to output	Direct-coupled				
AC servo motor output (W)			800	400	400		200
Maximum speed (XYZ:m/sec) (R:º/sec)			8		1.7		600
Standard cicle time: with 2kg payload*2 (sec)			0.6				
R axis allowable moment inertia*3 (kgm^2)			0.32				
User wiring (sq x pcs)			0.2 x 20				
User tubing (Outer diameter)			Ø6 x 3				
Movement limit setting			1.Soft limit 2.Mechanical stopper (X, Y, Z axis)				
Robot cable length (m)			Standard: 3.5 Option: 5, 10				
Weight (kg) (Excluding robot cable)			58				

*1 This is the value at a constant ambient temperature. (X,Y axes)
*2 When moving 25mm in vertical direction and 300mm in horizontal direction reciprocally.
*3 There are limits to the setting of the acceleration coefficient.

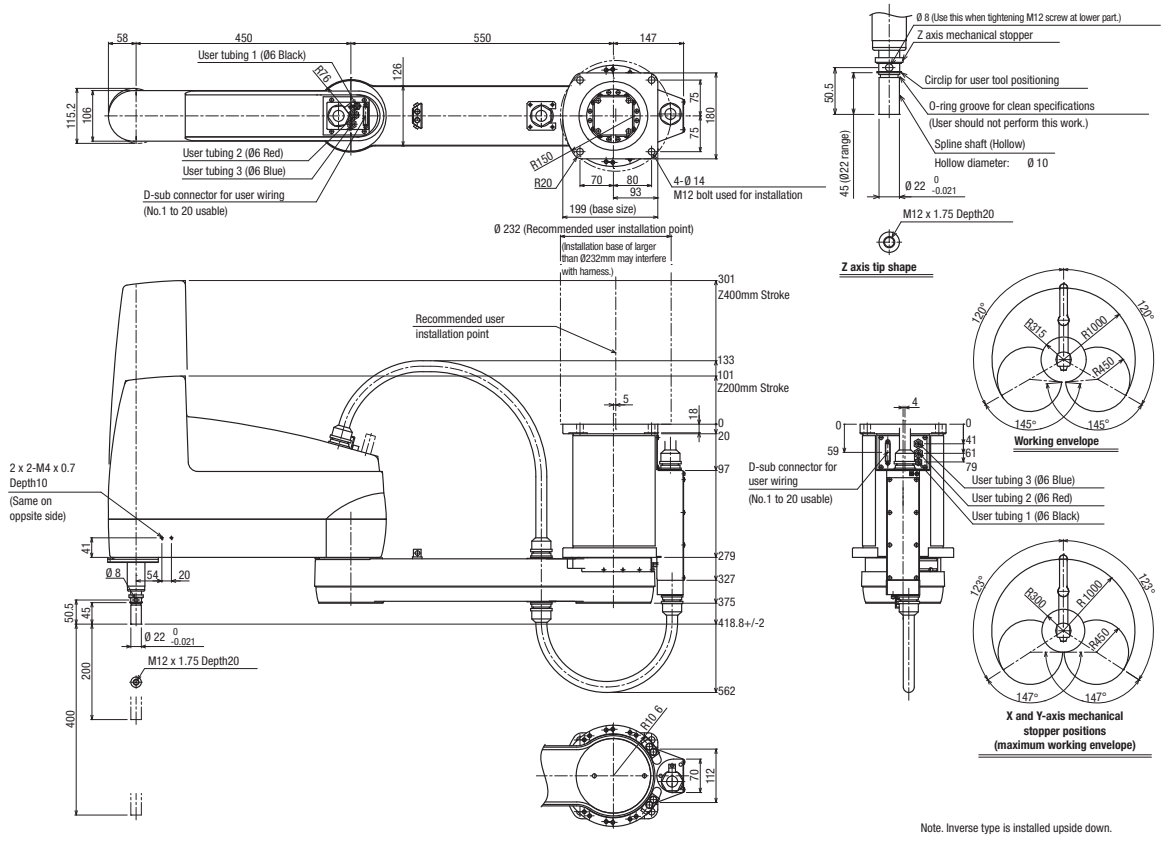
Controller

Controller	Power consumption (VA)	Operating method
YRC	2000	Programming / I/O point trace / Remote command / Operation using RS-232C communication

Ordering information

Description	Model
SCARA Reach: 1000mm, Vertical Stroke: 200mm, Max. payload: 20kg.	R6YXS1000200YRC
SCARA Reach: 1000mm, Vertical Stroke: 400mm, Max. payload: 20kg.	R6YXS1000400YRC

Dimensions



Note. Inverse type is installed upside down.

SCARA Robots Ceiling-hanging / wall-hanging / inverse type

Ordering information

	Series	Reach (mm)	Z-axis stroke (mm)	Payload (kg)	Robot item code	RGU	Robot cable length (m)	Cable item code	Detachable robot cable
R6Y	XSH	300	150	3	R6YXSH300150YRC	N.A.	3.5	R6YACCX003XSXC	N.A.
							5.0	R6YACCX005XSXC	N.A.
							10.0	R6YACCX010XSXC	N.A.
		400	150	3	R6YXSH400150YRC	N.A.	3.5	R6YACCX003XSXC	N.A.
							5.0	R6YACCX005XSXC	N.A.
							10.0	R6YACCX010XSXC	N.A.
	XS	500	200	10	R6YXS500200YRC	RGU2	3.5	R6YACCX003XSXC	N.A.
							5.0	R6YACCX005XSXC	N.A.
							10.0	R6YACCX010XSXC	N.A.
			300	10	R6YXS500300YRC	RGU2	3.5	R6YACCX003XSXC	N.A.
							5.0	R6YACCX005XSXC	N.A.
							10.0	R6YACCX010XSXC	N.A.
		600	200	10	R6YXS600200YRC	RGU2	3.5	R6YACCX003XSXC	N.A.
							5.0	R6YACCX005XSXC	N.A.
							10.0	R6YACCX010XSXC	N.A.
			300	10	R6YXS600300YRC	RGU2	3.5	R6YACCX003XSXC	N.A.
							5.0	R6YACCX005XSXC	N.A.
							10.0	R6YACCX010XSXC	N.A.
		700	200	20	R6YXS700200YRC	RGU2	3.5	R6YACCX003XSXC	N.A.
							5.0	R6YACCX005XSXC	N.A.
							10.0	R6YACCX010XSXC	N.A.
			400	20	R6YXS700400YRC	RGU2	3.5	R6YACCX003XSXC	N.A.
							5.0	R6YACCX005XSXC	N.A.
							10.0	R6YACCX010XSXC	N.A.
		800	200	20	R6YXS800200YRC	RGU2	3.5	R6YACCX003XSXC	N.A.
							5.0	R6YACCX005XSXC	N.A.
							10.0	R6YACCX010XSXC	N.A.
			400	20	R6YXS800400YRC	RGU2	3.5	R6YACCX003XSXC	N.A.
							5.0	R6YACCX005XSXC	N.A.
							10.0	R6YACCX010XSXC	N.A.
		1000	200	20	R6YXS1000200YRC	RGU2	3.5	R6YACCX003XSXC	N.A.
							5.0	R6YACCX005XSXC	N.A.
							10.0	R6YACCX010XSXC	N.A.
			400	20	R6YXS1000400YRC	RGU2	3.5	R6YACCX003XSXC	N.A.
							5.0	R6YACCX005XSXC	N.A.
							10.0	R6YACCX010XSXC	N.A.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.
To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

Cat. No. I132E-EN-01 In the interest of product improvement, specifications are subject to change without notice.