



for a greener tomorrow

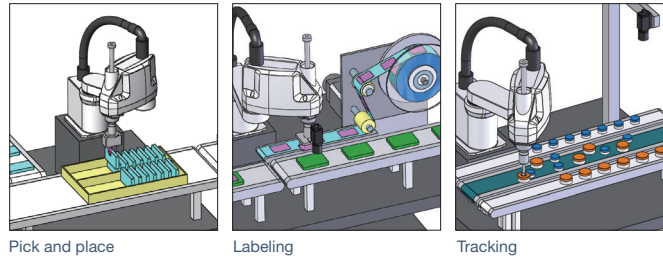
FACTORY AUTOMATION

# MITSUBISHI INDUSTRIAL ROBOT RH-3CH/6CH60/6CH70

## Features

- Compact arm for space saving**  
 Required space for J3 (Z) axis section: 512 mm/560 mm (3CH/6CH robot arm)
- Light weight robot arm**  
 14 kg/17 kg/18 kg (3CH/6CH60/6CH70 robot arm)
- High-speed movement and high performance for productivity**  
 Cycle time<sup>Note 1</sup> 0.44 s/0.41 s/0.43 s (3CH/6CH60/6CH70)  
 Standard equipment: I/O points: 32 inputs/32 outputs.  
 Configuring a circuit for controlling an additional axis is enabled.  
 Up to eight axes except the robot can be controlled.
- Offering of bellows-installed specifications and heavy load specifications (RH-3CH)**
- Easy operation**  
 Easy teaching operation can be performed by RT ToolBox2 (JOG operation and teaching position).

## Applications



## Specifications

Load	RH-3CH4018		RH-6CH6020	RH-6CH7020
		kg	Maximum: 6 (rating: 2)	
Arm length	No. 1 arm	mm	225	425
	No. 2 arm	mm	175	275
Maximum arrival point	Reach	mm	400	700
Operating range	J1	deg	264 (±132)	264 (±132)
	J2	deg	282 (±141)	300 (±150)
	J3	mm	180	200
	J4	deg	720 (±360)	720 (±360)
Pose repeatability	X-Y direction	mm	±0.01	±0.02
	J3 (Z)	mm	±0.01	±0.01
	J4 (θ)	deg	±0.01	±0.01
Maximum speed	J1	deg/sec	720	420
	J2	deg/sec	720	720
	J3 (Z)	mm/sec	1100	1100
	J4 (θ)	deg/sec	2600	2500
	J1+J2	mm/sec	7200	7800
Cycle time <sup>Note 2</sup>		sec	0.44	0.41
Allowable inertia	Rating	kg·m <sup>2</sup>	0.005	0.01
	Maximum <sup>Note 5</sup>	kg·m <sup>2</sup>	0.05 (0.075)	0.12 (0.18)
Mass		kg	14	17
Wiring and piping system for hand input/output			15 points, D-SUB/ø6 × 2, ø4 × 1	
Controller			CR751-D	CR751-D

Note 1, 2: The cycle time is measured based on reciprocating movements over a horizontal distance of 300 mm and vertical distance of 25 mm when the MVtune2 (high-speed movement mode) with the carrying mass of 2 kg is applied. The cycle time may increase with the case where the positioning accuracy of the workpiece etc. is necessary, or by the moving position.

Note 3: We also have 5 kg load specifications. However, there are restrictions. For details, refer to the specifications.

Note 4: We also have machine cables with special specifications (various lengths or flexed type) and bellows-installed specifications as options.

However, there are restrictions to the operating range, etc. For details, refer to the specifications manual.

Note 5: The values in parentheses are the values of the allowable inertia when the heavy load mode is enabled.

