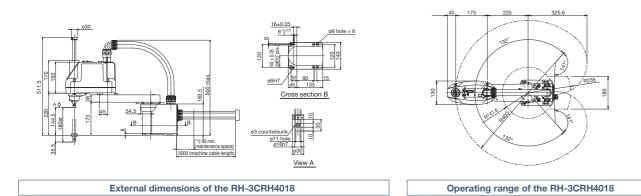
External dimensions



- (8 View A Variable dimensions Model A RH-6CRH7020 B700 External dimensions of the RH-6CRH6020 and 7020 Operating range of the RH-6CRH6020 and 7020

*1: This is the space required for battery replacement, and indicates the dimensions including the minimum bending radius of the machine cable

Mitsubishi Electric Corporation Nagoya Works is a factory certified for ISO14001 (standards for environmental management systems) and ISO9001 (standards for quality assurance management systems)

UKAS ANAGEMEN SYSTEMS

0008



MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE: TOKYO BLDG., 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN







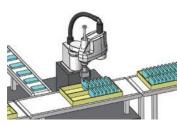
FACTORY AUTOMATION

Excellent cost performance and a compact and lightweight design!

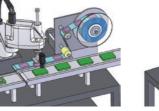


• CC-Link IE Field Basic as standard

Applications



Labeling





Pick-and-place operations

Robot arm specifications

			RH-3CRH4018-D	RH-6CRH6020-D	RH-6CRH7020-D
Payload	kg		Maximum: 3 (rated: 1)	Maximum: 6 (rated: 2)	
Arm length	Arm No. 1	mm	225	325	425
	Arm No. 2	mm	175	275	
Maximum reach	mm		400	600	700
	J1	deg	264 (±132)	264 (±132)	
Operating range	J2	deg	282 (±141)	300 (±150)	
	J3	mm	180	200	
	J4	deg	720 (±360)	720 (±360)	
	XY directions	mm	±0.01	±0.02	
Position repeatability	J3 (Z)	mm	±0.01	±0.01	
	J4 (θ)	deg	±0.01	±0.01	
	J1	deg/sec	720	420	360
	J2	deg/sec	720	720	
Maximum speed	J3 (Z)	mm/sec	1100	1100	
	J4 (θ)	deg/sec	2600	2500	
	J1+J2	mm/sec	7200	7800	
Cycle time*2	SE	ec	0.44	0.41 0.43	
Permissible inertia	Rating	kg∙m²	0.005	0.01	
rennissiole menua	Maximum ^{*3}	kg∙m²	0.05 (0.075)	0.12	(0.18)
Robot weight	kg		14	17	18
Hand I/O wires and hoses		D-sub 15 pins / Ø6 × 2, Ø4 × 1			
Robot controller			CR800-CHD		
IP rating		IP20			

*1, 2: The cycle time was calculated from reciprocating motion of the robot arm 300 mm horizontally and 25 mm vertically with the robot in MvTune2 (high-speed operation mode) while using a 2 kg payload. The cycle time may take longer depending on the position the robot is moving to or if the workpiece needs to be positioned more accurately.

*3: Values in parentheses indicate the maximum permissible inertia for when high inertia mode is enabled.

*4: Flexible machine cables and machine cables of different lengths are also available as options.

*5: HMS EtherNet/IP module (AB6314) to be supplied by customer. HMS PROFINET IO module (AB6489-B) to be supplied by customer.

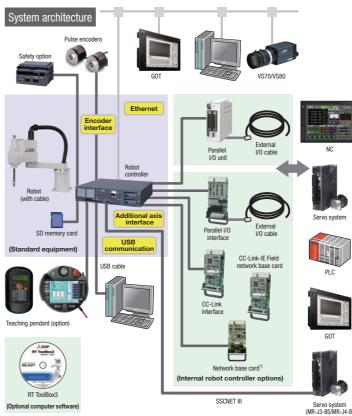
HMS CC-Link IE Field module (AB6709) to be supplied by customer. HMS EtherCAT module (AB6607) to be supplied by customer

*6: Recommended USB cable (USB Type-A to Mini USB Type-B): MR-J3USBCBL3M (manufactured by Mitsubishi Electric), GT09-C30USB-5P (Mitsubishi Electric System & Service Co., Ltd.)

*7: For connecting option interfaces. The parallel I/O unit (2D-TZ378) is installed in SLOT1 of the robot controller from the factory.

*8: The power voltage fluctuation rate is 10% or less.

*9: Recommended power capacity. Note that power-on current is not included in the power capacity. The power capacity value is for reference only. The input power voltage will affect whether the robot will operate properly



Robot controller specifications

	Item	Unit	Specification
Model			CR800-CHI
Number of a	Kes		Four axes at a
Maman	Number of teaching positions	Position	39,000
Memory capacity	Number of steps	Step	78,000
capacity	Number of programs	Program	512
Programming	g language		MELFA-BASIC
Position teac	hing method		Teaching or N
External I/O	1/0	Point	32 input points and 32
	Dedicated I/O		Assigned to general-p
	Hand I/O	Point	8 input points and 8 o
	Emergency stop input	Point	1
	Emergency stop output	Point	1
	Mode selector switch input	Point	1
	Mode output	Point	1
	Robot error output	Point	1
	Additional axis synchronization output	Point	1
	Door switch input	Point	1
	Encoder input	Channel	2
Interface	Additional axis, force sense interface	Channel	1
	Robot controller communication interface	Channel	2
	Remote I/O	Channel	1
	USB'6	Port	1
			1
	Ethernet (CC-Link IE Field Basic)	Port	1
	Option slot*7	Slot	2
	SD memory card slot	Slot	1
	BS-422	Port	1
_	Input voltage range*8	V	Single-phase 200 to
Power supply	Power capacity ^{'9}	kVA	0.5
	Power supply frequency	Hz	50 or 60
External dimensions		mm	430 (width) × 425 (depth
Weight		kg	About 12.5
Installation			Freestanding, open structure,
Ambient During operation			0 to 40
temperature	During transportation and storage	°C	-15 to +70
Ambient			45 to 85
humidity	During transportation and storage	%RH	90 or less
Overvoltage (II or less
Pollution dea		-	2 or less
Altitude		m	1000 or les



Overall height:50

Options

Item	Model	Specification	
Machine cable	1F-UCBL-04	Fixed type	
(replacement)	1F- LUCBL-04	Flexible type	
Simple teaching	R32TB	Cable length: 7 m	
pendant	R32TB-15	Cable length: 15 m	
High-performance	R56TB	Cable length: 7 m	
teaching pendant	R56TB-15	Cable length: 15 m	
Parallel I/O interface	2D-TZ368 (sink type) / 2D-TZ378 (source type)	32 input points and 32 output points Insulated output signal (output signal: 0.1 A/24 V per output point) Insulated input signal (Input signal: 9 mA/24 V per input point)	
External I/O cable	2D-CBL05	5 m	
(for the parallel I/O interface)	2D-CBL15	15 m	
Parallel I/O unit	2A-RZ361 (sink type) / 2A-RZ371 (source type)	32 input points and 32 output points Insulated output signal (output signal: 0.1 A/24 V per output point) Insulated input signal (Input signal: 7 mA/24 V per input point)	
External I/O cable	2A-CBL05	5 m	
(for the parallel I/O unit)	2A-CBL15	15 m	
CC-Link interface	2D-TZ576	Only supported with intelligent device stations and local stations	
Network base card (EtherNet/IP interface)*5	2D-TZ535	HMS Anybus CompactCom Module-connecting communication interface	
Network base card (PROFINET interface)*5	2D-TZ535-PN	HMS Anybus CompactCom Module-connecting communication interface	
Network base card (CC-Link IE Field interface)*5	2F-DQ535	HMS Anybus CompactCom Module-connecting communication interface	
Network base card (EtherCAT interface) ^{*5}	2F-DQ535-EC	HMS Anybus CompactCom Module-connecting communication interface	
SD memory card	2F-2GBSD	2 GB capacity	
Safety option	4F-SF002-01	Safety functions and I/O communication supported	
RT ToolBox3	3F-14C-WINJ	CD-ROM	
	3F-14C-WINJ 3F-15C-WINJ	CD-ROM CD-ROM	
RT ToolBox3			

