







							100
				HCR-3A	HCR-5A	HCR-12A	HCR-14
Robot Body	Basic Specifications	Payload		3 kg	5 kg	12 kg	14 kg
	•	Reach		630 mm	915 mm	1,300 mm	1,420 mm
		DOF		6	6	6	6
	Performance	Repeatability		±0.05 mm	±0.05 mm	±0.07 mm	±0.04 mm
		Linear Speed		1m/s	1m/s	1m/s	1.5m/s
		Motion Range & Speed	J1	±360°, Max 180°/sec	±360°, Max 178°/sec	±180°, Max 130°/sec	±360°, Max 155°/sec
			J2	±360°, Max 180°/sec	±360°, Max 178°/sec	±150°, Max 130°/sec	±360°, Max 155°/sec
			J3	±160°, Max 180°/sec	±165°, Max 178°/sec	±165°, Max 200°/sec	±165°, Max 230°/sec
			J4	±360°, Max 360°/sec	±360°, Max 180°/sec	±190°, Max 200°/sec	±360°, Max 270°/sec
			J5	±360°, Max 360°/sec	±360°, Max 180°/sec	±170°, Max 200°/sec	±360°, Max 270°/sec
			J6	Infinite, Max 360°/sec	±360°, Max 180°/sec	±360°, Max 200°/sec	±360°, Max 270°/sec
	Tool/IO	Tool/IO #1	Connector	M8, 8pin, A Coding	M8, 8pin, A Coding	M8, 8pin, A Coding	M8, 8pin, A Coding
			Power	DC 24V	DC 24V	DC 24V	DC 24V
			Digital In	2 ch	2 ch	2 ch	2 ch
			Digital Out	2 ch	2 ch	2 ch	2 ch
			Analog In	2 ch	2 ch	2 ch	2 ch
		Tool/IO #2	Connector	-	M8, 8pin, A Coding	M8, 8pin, A Coding	M8, 8pin, A Coding
			Power	-	DC 24V	DC 24V	DC 24V
			Digital In		2 ch	2 ch	2 ch
			Digital Out	-	2 ch	2 ch	2 ch
		EtherCAT	Connector	M8, 6 pin	M8, 6 pin	M8, 6 pin	M8, 6 pin
			DC	TX+, TX-, RX+, RX-DC 24V	TX+, TX-, RX+, RX-DC 24V	TX+, TX-, RX+, RX-DC 24V	TX+, TX-, RX+, RX-DC 24V
		DC Power		Max 1.5A (1.5A/pin)	Max 3A (1.5A/pin)	Max 3A (1.5A/pin)	Max 3A (1.5A/pin)
	Installation	Weight		13 kg	21 kg	53 kg	42 kg
		Footprint		Ø128 mm	Ø150 mm	220 x 227 mm	Ø190 mm
		Robot Mounting IP Ratings		Floor, Wall, Ceiling	Floor, Wall, Ceiling	Floor, Wall (Max 30°), Ceiling	Floor, Wall (Max 30°), Ceiling
				IP64	IP54	IP54	IP54
		Noise Level		≤60dBA	≤65dBA	≤70dBA	≤65dBA
		110.50 2010.					
Controller	Basic Specifications	Size (W x H x D)		450 x 470 x 223 mm	450 x 470 x 223 mm	450 x 470 x 223 mm	550 x 482 x 251mm
		Weight		17.6 kg	17.6 kg	19.8 kg	25.2 kg
		Power Source		100-240 VAC, 50-60Hz (1kW)	100-240 VAC, 50-60Hz (1kW)	100-240 VAC, 50-60Hz (1kW)	100-240 VAC, 50-60Hz (3.6kW
	Communication Protocols	TCP/IP		Yes	Yes	Yes	Yes
		Mobus TCP		Yes	Yes	Yes	Yes
		EtherNet/IP		Not Applicable	Not Applicable	Not Applicable	Yes
	Internal I/O Ports	Emergency		2 ch (4ports)	2 ch (4ports)	2 ch (4ports)	2 ch (4ports)
	internary or ores	Safety		2 ch (4ports)	2 ch (4ports)	2 ch (4ports)	2 ch (4ports)
		Remote Power On/Off		Yes / Yes	Yes / Yes	Yes / Yes	Yes / Yes
		Digital In		Flexible In 8 ch (SINK)	Flexible In 8 ch (SINK)	Flexible In 8 ch (SINK)	Flexible In 8 ch (SINK)
		Digital III		General In 8 ch (SINK)	General In 8 ch (SINK)	General In 8 ch (SINK)	General In 8 ch (SINK)
		Digital Out		Flexible Out 8 ch (SOURCE)	Flexible Out 8 ch (SOURCE)	Flexible Out 8 ch (SOURCE)	Flexible Out 8 ch (SOURCE)
		Digital Out		General Out 8 ch (SOURCE)	General Out 8 ch (SOURCE)	General Out 8 ch (SOURCE)	General Out 8 ch (SOURCE)
		Analog In Analog Out		* <1.2A/channel	* <1.2A/channel	* <1.2A/channel	* <1.2A/channel
				2 ch	2 ch	2 ch	2 ch
				2 ch	2 ch	2 ch	2 ch
		Incremental Encoder In		2 ch	2 ch	2 ch	2 ch
		merementar Encoder III		2 (11	2 (1)	2 (1)	
Teach Pendant	Basic Specifications	Size (W x H x D) Weight		343 x 270 x 81 mm	343 x 270 x 81 mm	343 x 270 x 81 mm	343 x 270 x 81 mm
	basic specifications			1.8 kg	1.8 kg	1.8 kg	1.8 kg
		Screen Size		12.1 inch	12.1 inch	12.1 inch	12.1 inch
		Display Resolution		1024 x 768	1024 x 768	1024 x 768	1024 x 768
		Power Switch					
				1 ea	1 ea	1 ea	1 ea
		Emergency Switch		1 ea	1 ea	1 ea	1 ea