

HR050/030L

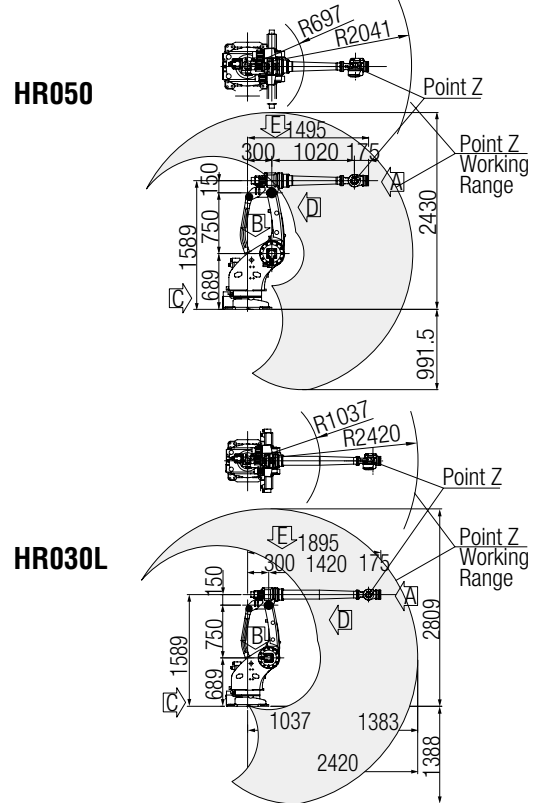


HR050, 030L

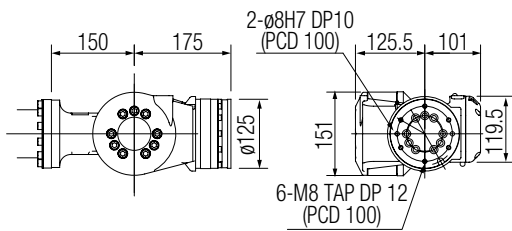
Manipulator Specifications

Item		Specification	
Model		HR050	HR030L
Payload		50 kg	30 kg
Structure		Articulated	
Degree of freedom		6 Axes	
Max. Motion Range	S Swivel	±180°	
	H For/Backward	+150° ~ -80°	+150° ~ -77°
	V Up/Downward	+140° ~ -135°	+134° ~ -135°
	R2 Rotation 2	±360°	
	B Bending	±127°	
	R1 Rotation 1	±360°	
Max. Speed	S Swivel	150 °/s	140 °/s
	H For/Backward	170 °/s	150 °/s
	V Up/Downward	170 °/s	150 °/s
	R2 Rotation 2	235 °/s	210 °/s
	B Bending	235 °/s	210 °/s
Allowable Moment	R2 Rotation 2	18 kgf·m	12 kgf·m
	B Bending	18 kgf·m	12 kgf·m
	R1 Rotation 1	9 kgf·m	6 kgf·m
Repeatability		±0.07 mm	
Ambient Temperature		0 ~ 45°C (273 ~ 318°K)	
Approximate Weight		650 kg	670 kg

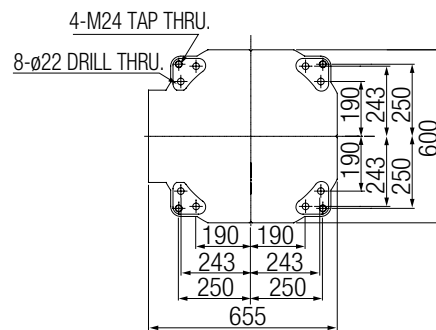
Working Envelope



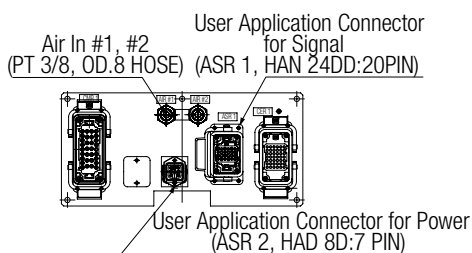
View "A" For Tool Attachment



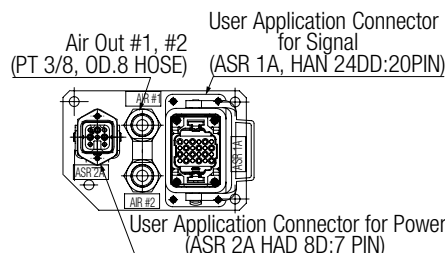
View "B" For Installation



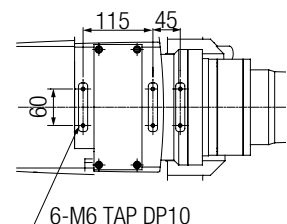
View "C" For User Application



View "D" For User Application



View "E" For Cable Guide



■ Controller Specifications

Item	Specification	
Model Name	Hi5	
Control Hardware	Multi Processor System	
Execution Mode	Teaching & Playback	
Interpolation Type	Point-to-Point, Linear, Circular	
Max. Axes	Max. 16 Axes Simultaneously	
Number of Step	17,000 Points	
External Program Selection	Binary 255 / Discrete 8	
Position Detector	Serial Absolute Encoder	
Program Back-up	USB Memory	
Servo Control	Full Digital Servo	
Digital Input / Output	Max. Input : 256 / Output : 256 Points	
Analog Input / Output	Input : 4 ch / Output : 4 ch	
Conveyor Pulse Counter	Differential Input / Open Collector Input, 2ch	
Communication	Ethernet	100BaseT (2 Ports)
	CAN	User1 / User2
	Serial	RS232C, RS422 (RS485)
	Field Bus	CC-Link, Profibus-DP, Devicenet, Modbus
Rated Supply Voltage	AC220V ± 10%, 50 / 60 Hz	
Max. Rated Power	8 kVA (Instant Max. 30 kVA)	
Cabinet Dimension (WxDxH)	650 mm x 600 mm x 1,100 mm (Except Caster)	
Weight	150 kg (Without Transformer)	
Protection Classification	IP54	
Ambient Temperature	0 ~ 45 °C	

■ Teaching Pendant Specifications

Item	Specification
Microprocessor	32 bits RISC Processor
Operating System	Windows CE
Display	7" Color TFT-LCD
Operation Mode	Menu Driven and Code Input / Touch Panel

· Easy and simple operation

- Easy/convenient programming language similar to BASIC

· Easy maintenance

- Excellent maintenance ability using on-line display function

· Advanced control technology

- Dynamic control
- Advanced vibration suppression control
- Extended torque-velocity control

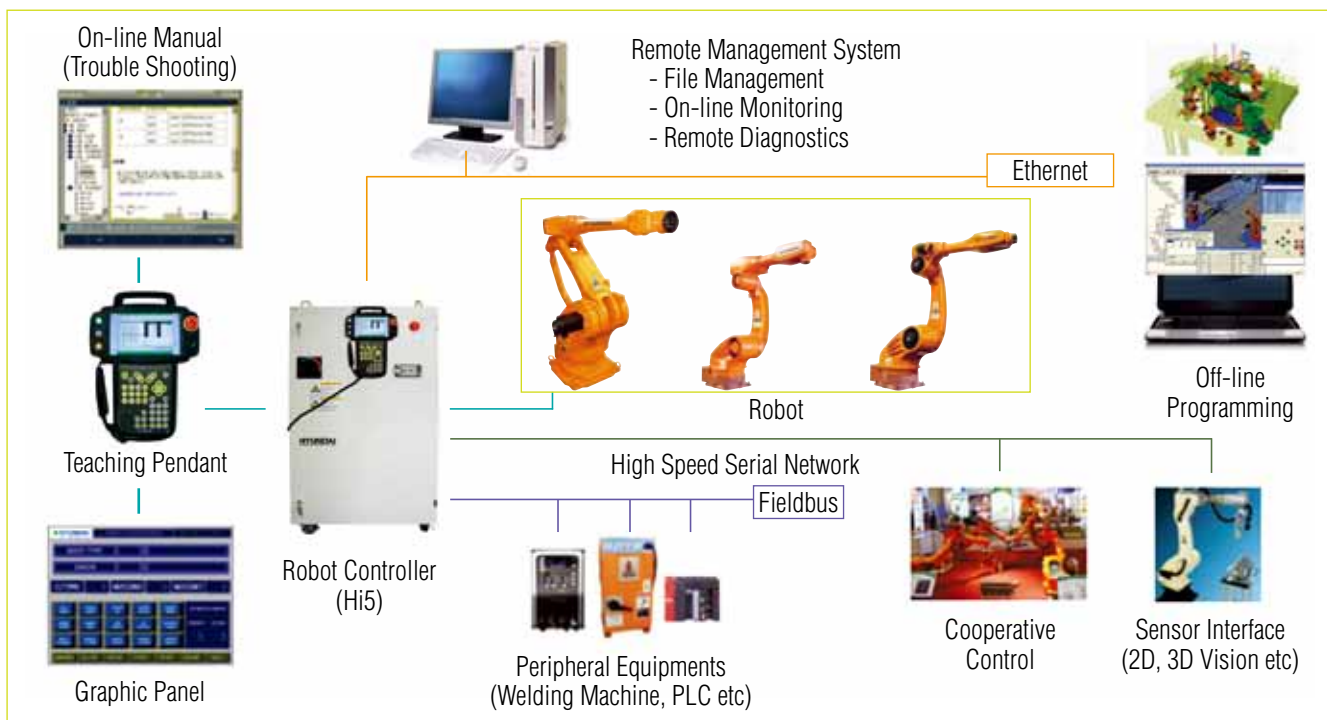
· Safety

- Compliant with ANSI/RIA15.6_1999 and CE Directives

· Compatibility and connectivity

- Embedded soft PLC
- Fieldbus : CC-Link, Profibus-DP, Devicenet, Modbus, etc.
- Ethernet, Serial Communication

■ System Configuration





Key Features

- Enlargement of working envelope by link structure
- Improvement of dynamic performance



Application

- Material Handling
- Assembly
- Deburring



■ Certificate (ISO 9001, ISO 14001, QS-9000TE, CE) ■



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*Materials and specifications are subject to change without notice