

# HX<sub>400S/200S</sub>

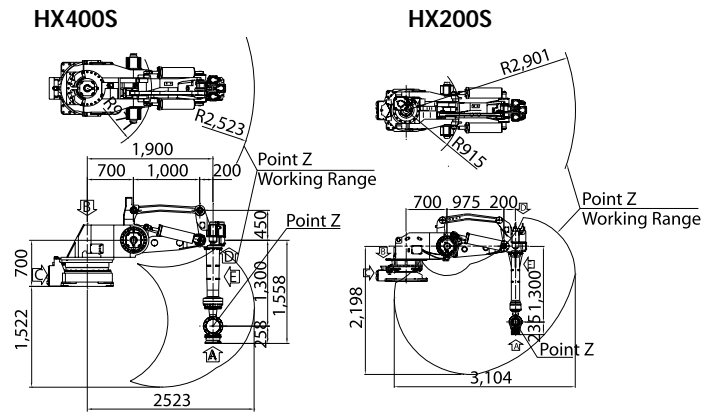


# HX400S, HX200S

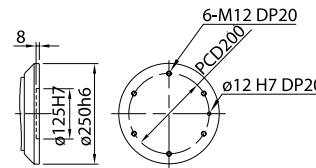
## Manipulator Specifications

Item		Specification		
Model		HX400S	HX200S	
Payload		400Kg	200Kg	
Mechanical Structure		Articulated		
Max. Reach		2,523mm	2,502mm	
Degree of freedom		6		
Installation		Shelf		
Max. Working Envelope	Arm	S Swivel	±160°	±180°
		H For/Backward	±65°	+85° ~ -65°
		V Up/Downward	±35°	+60° ~ -135°
	Wrist	R2 Rotation 2	±360°	
		B Bending	±120°	±125°
Max. Speed	Arm	S Swivel	60°/s	85°/s
		H For/Backward	60°/s	95°/s
		V Up/Downward	60°/s	80°/s
	Wrist	R2 Rotation2	100°/s	120°/s
		B Bending	100°/s	120°/s
		R1 Rotation 1	160°/s	180°/s
Wrist Torque	R2 Rotation 2	200Kgf·m	130Kgf·m	
	B Bending	200Kgf·m	130Kgf·m	
	R1 Rotation 1	84Kgf·m	62Kgf·m	
Accuracy of position repeatability		±0.5 mm	±0.3 mm	
Ambient Temperature		0 ~ 45°C (273~318K)		
Relative Humidity		20 ~ 85%RH		
Robot's Weight		2,800Kg	1,470Kg	
Working Envelope Section Area		2.36m <sup>2</sup>	5.18m <sup>2</sup>	

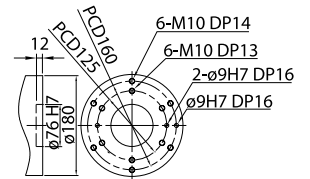
### Working Envelope



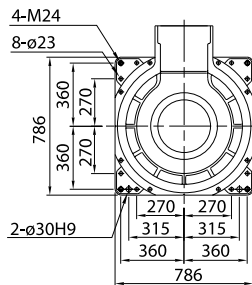
### View "A" For Tool Attachment - HX400S



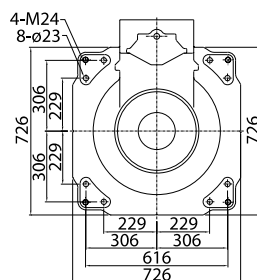
### View "A" For Tool Attachment - HX200S



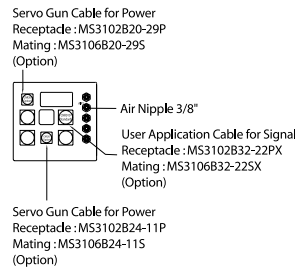
### View "B" For Installation-HX400S



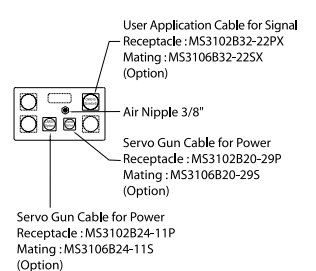
### View "B" For Installation-HX200S



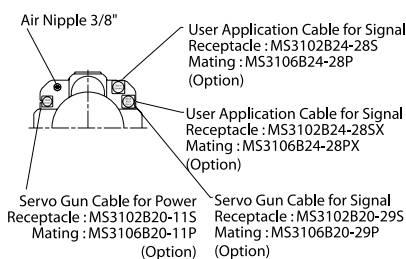
### View "C" For User Application-HX400S



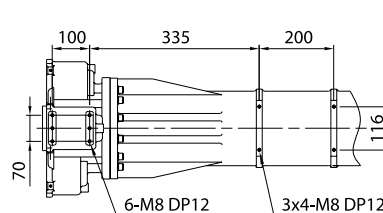
### View "C" For User Application-HX200S



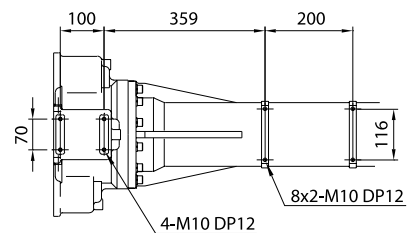
### View "D" For User Application (Option)



### View "E" For Cable Guide-HX400S



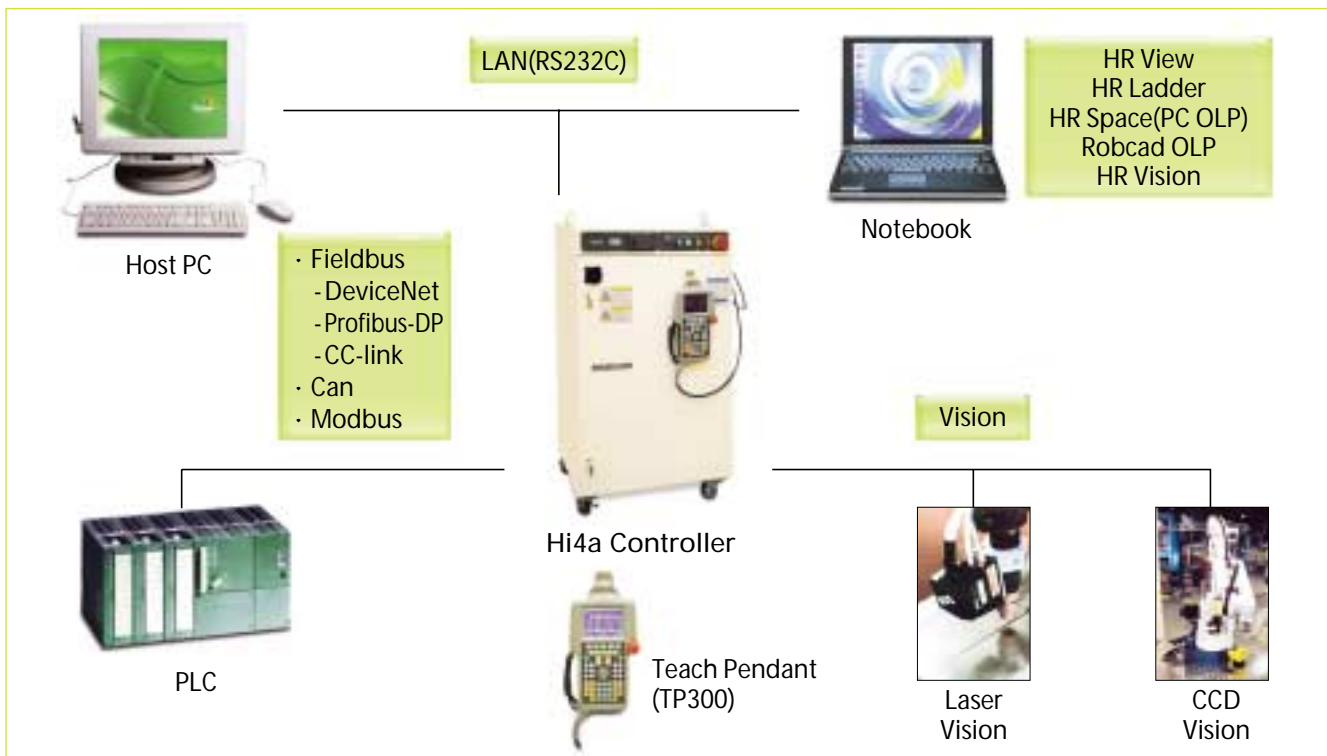
### View "E" For Cable Guide-HX200S



## ■ Controller Specifications

Item	Specification
Type	Hi4a
Microprocessor Technology	32 bits RISC CPU
Program Execution Mode	Teaching & Playback
Operation Mode	Menu-Driven & Code input
Interpolation Type	Linear, Circular
Memory Back-up Type	Battery back-up IC memory
Encoder Type	Absolute encoder
Servo Drive Unit	6 Axes/unit, digital servo
Maximum Axes	12 Axes Max. Simultaneously
Step	10,000 Points
Program Selection	255(Binary)/8(Discrete)
Teach Pendant Display Spec.	LCD(40X15), Backlight 57,600 baud rates, 3 Position Enable Switch
Digital I/O	Input : 32 points (160 points Max.) Output : 32 points (160Points Max.)
Analog I/O	Input : 4 Points (Option) Output : 4 Points (Option)
Conveyor Pulse Counter	Line Driver / Voltage Output (Option)
Serial Port	RS232C : 2 Ports (1Port : Option)
Communication Function (Option)	DeviceNet, Profibus-DP, Ethernet, CC-Link
PC Card Function	PCMCIA (IC card : Option)
Rated (Supply) Voltage	3-phase 220V (50/60Hz)±10%
Max. Rated Power	8KVA
Dimension (WxHxD)	675mm x 1,190mm x 675mm
Weight (Without Transformer)	205Kg
Protection Classification	IP54
Ambient Temperature	0-45°C
Ambient Humidity	Normal 75%

- Easy and Simple Operation
- Powerful Robot Language
- Easy Maintenance
  - Displaying cause of errors and troubleshooting
- Safety
- Compatibility and Connectivity
  - Embedded PLC
  - FieldBus : DeviceNet, Profibus-DP, CC-link
  - Easy I/O board expansion :  
Connecting I/O master through Computer
- Compact Size Controller
  - Default space for 2 additional axis amp





### Key Features

Optimal control of noise & vibration,  
high loading capacity!

- Adapting RV reducer for all axes
- Internally equipped application cables
- New structure for swing axes
- Various application by modular concept



### Application

- Spot welding
- Material handling
- Machine loading and unloading



### ■ Certificate (UL, CSA, CE, ISO, QS) ■



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