

CONTROLLER SPECIFICATIONS

Items	Specifications	
Model Name	Hi5a-S20	Hi5a-T10
Operating Mode	Teaching & Playback	
Interpolation	Point-to-Point, Linear, Circular	
Max. Axes	Max. 8 axes simultaneously	
Number of Steps	4MB (max. 21,000 steps)	
External Program Selection	Binary 255 / Discrete 8	
Position Detector	Serial Absolute Encoder	
Program Back-up	USB Memory	
Servo Drive System	Full Digital Servo	
Digital Input/Output	Max. 256 / 256	
Analog Input/Output	8 / 8	
Conveyor Pulse Counter	Differential & Open Collector Type	
User / Machine Interface	2 x Ethernet (100 Base-T)	
	2 x RS232C / RS422	
	1 x USB (for backup, version-up)	
	2 x CAN (1 option)	
	1 x SD Card	
Fieldbus(option)	PROFINET IO-Controller / IO-Device	
	EtherNet / IP Scanner / Adapter	
	DeviceNet Master / Slave	
	PROFIBUS-DP Master / Slave	
	CC-Link Slave (V1.10, V2.0)	
Rated Supply Voltage	3Φ AC220V±10%, 50/60Hz	
Max. Rated Power	4.4kVA	1.5kVA
Size (W X D X H)	550mm(W)	490mm(W)
	600mm(D)	430mm(D)
	300mm(H)	260mm(H)
Environment	Temperature: 0°C~45°C Relative Humidity: 20~95% Non-condensing	
Protection rating	IP Class: IP54	IP Class: IP20

Hi5a-S20



Hi5a-T10



TEACH PENDANT SPECIFICATIONS

Items	Specifications
Model Name	TP520 (option)
Operating System	Windows CE
Display	7" Color TFT-LCD / Touch Panel
Operating Mode	Menu Driven and Code Input

- Easy and simple operation : Programming language similar to BASIC
- Advanced control technologies : Path-invariant motion planning, dynamic model based control and vibration suppression control.
- Reliable maintenance methods for maximizing availability by on-line manual and remote monitoring system.
- Less installation time and high productivity with powerful SW tools on PC.
- Supporting various fieldbus and communication solutions to adapt any manufacturing environment.
- ISO 10218-1:2011, ANSI/RIA15.6:2012 safety standards.



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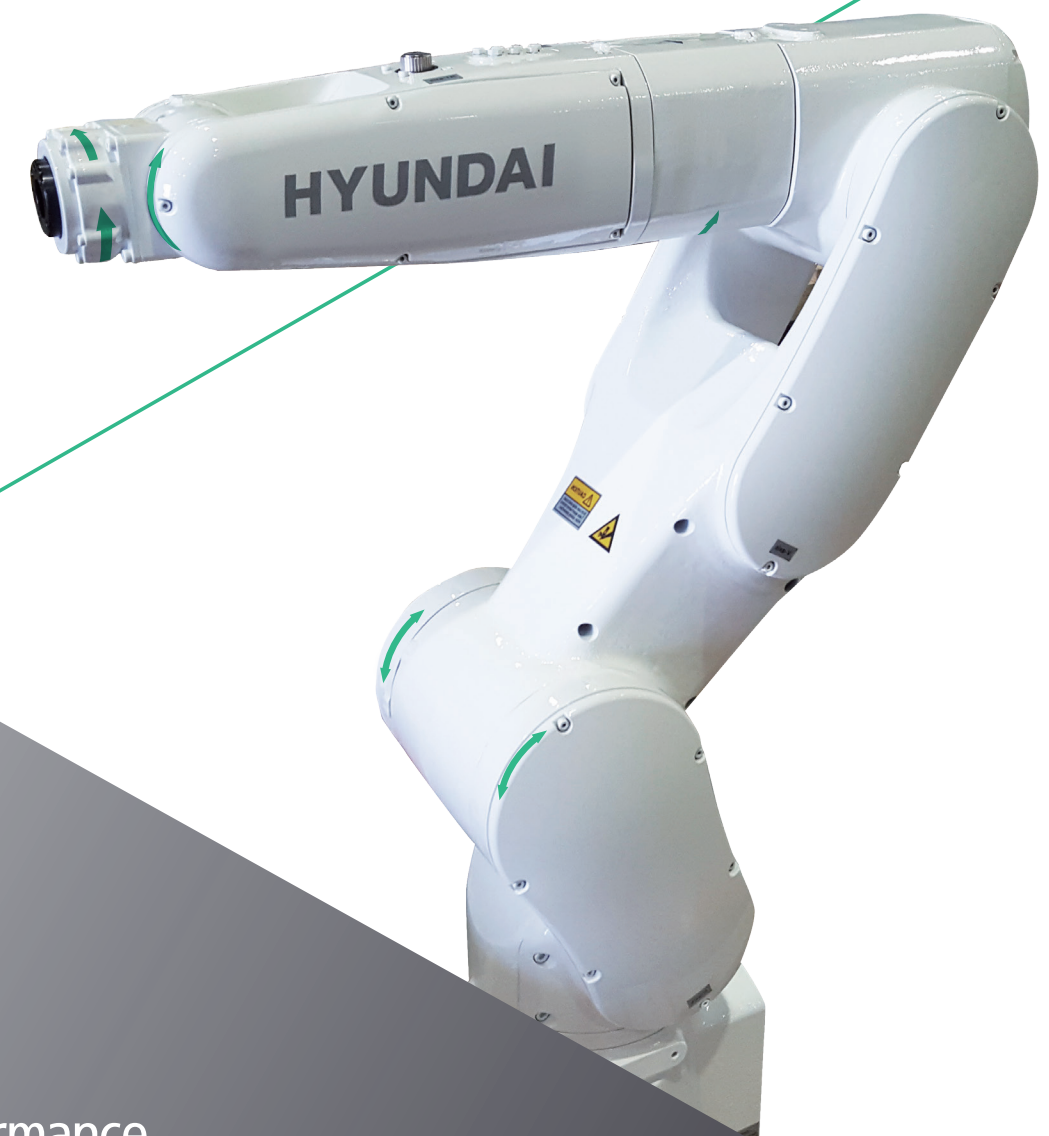
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HIGH SPEED COMPACT HANDLING ROBOT

HH7



The best performance
for electronic and industrial handling applications

High Speed Compact Handling Robot HH7

HH7 is a high speed handling robot with excellent performance, combined with high load capacity and high speed/acceleration. It can reduce cycle time.

Key Benefits

- Highest payloads, speeds, wrist allowable moment, and working range
- Compact, straight, and symmetrical arm design for minimum interference
- Slim body design for minimum installation space
- Easy installation, maintenance

Specifications

- 7 kg Payload
- 932mm Horizontal Reach
- $\pm 0.03\text{mm}$ Repeatability

Applications

- Assembly
- Material Handling
- Packaging
- Mounting Option: Floor, Ceiling, Wall, Tilt

Characteristic HH7

- The robot provides high operational performance with powerful programming flexibility.
- The robot creates smooth, consistent finish with outstanding efficiency.
- Slim wrist design is ideal for various parts handling.
- No interference between the hose and parts/fixtures.

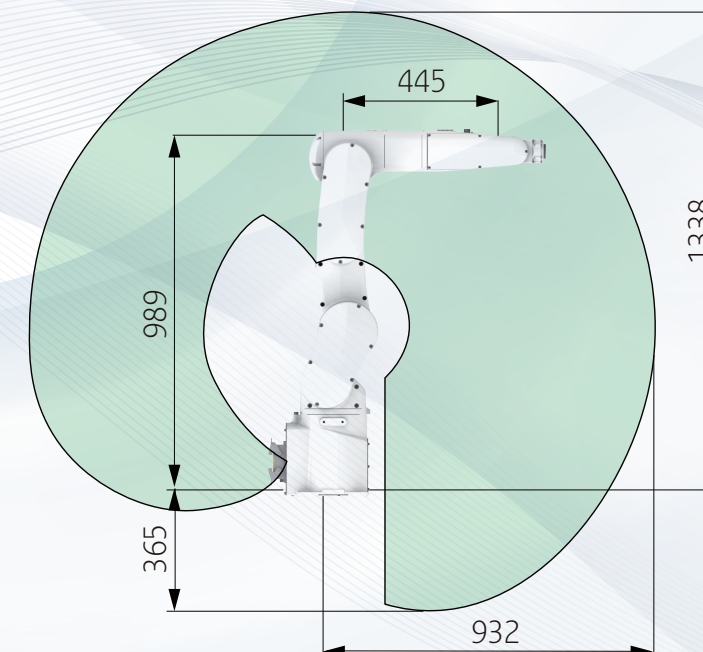
EXCELLENT PERFORMANCE

- Basic specification of robot

Item		Specification
Model		HH7
Max Payload		7 kg
Number of axis		6
Drive System		AC SERVO MOTOR
Working Envelope	Base	S Swivel $\pm 2.967 \text{ rad } (\pm 170^\circ)$
		H Fore/Back $+3.14 \sim -0.96 \text{ rad } (+180^\circ \sim -55^\circ)$
		V Up/Down $+3.71 \sim -1.22 \text{ rad } (+213^\circ \sim -70^\circ)$
	Wrist	R2 Rotation2 $\pm 3.31 \text{ rad } (\pm 190^\circ)$
		B Bend $\pm 2.36 \text{ rad } (\pm 135^\circ)$
		R1 Rotation1 $\pm 6.28 \text{ rad } (\pm 360^\circ)$
Max. Speed	Base	S Swivel $6.54 \text{ rad/s } (375^\circ/\text{s})$
		H Fore/Back $5.50 \text{ rad/s } (315^\circ/\text{s})$
		V Up/Down $7.16 \text{ rad/s } (410^\circ/\text{s})$
	Wrist	R2 Rotation2 $9.60 \text{ rad/s } (550^\circ/\text{s})$
		B Bend $9.60 \text{ rad/s } (550^\circ/\text{s})$
		R1 Rotation1 $17.45 \text{ rad/s } (1000^\circ/\text{s})$
Allowable Wrist Moment	R2	Rotation2 $17 \text{ N.m } (1.73 \text{ kgf.m})$
	B	Bend $17 \text{ N.m } (1.73 \text{ kgf.m})$
	R1	Rotation1 $10 \text{ N.m } (1.02 \text{ kgf.m})$
Position Repeatability		$\pm 0.03 \text{ mm}$
Conditions		$0 \sim 40^\circ\text{C } (273 \sim 313\text{K})$
Weight		42 kg
Installation		Floor / Ceiling / Wall / Tilt

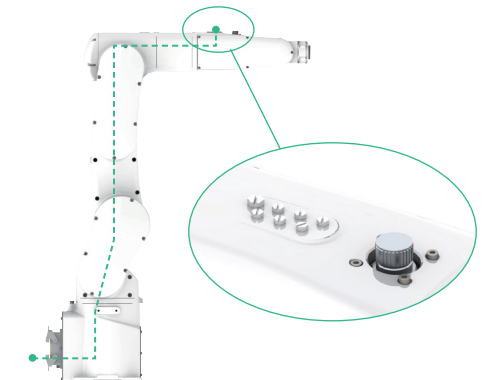
WIDE WORKING RANGE

Working Range is wider than other models



USER FRIENDLY APPLICATION

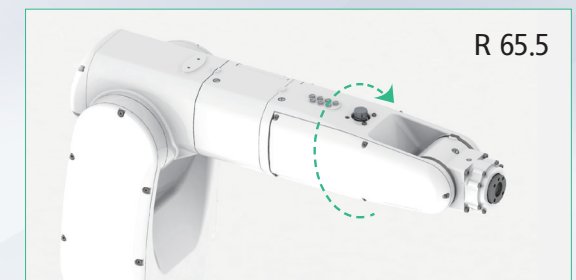
- Productivity improvement & Application area



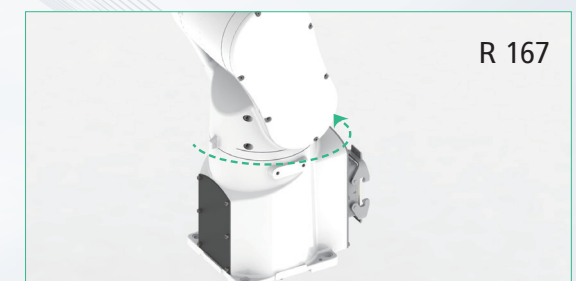
Wiring and tubing in robot arm
 • Wiring : 18ea • Air line : 7ea
 Single power and control cable reduces working time and increases efficiency.

COMPACT BODY DESIGN

- Minimized interference allows many applications



The reduced interference radius in wrist rotating is the smallest.



The reduced interference radius in lower frame rotating is the smallest.