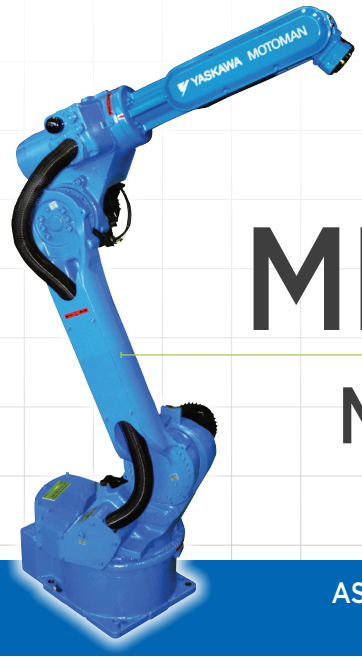
YASKAWA

COMPACT AND POWERFUL ROBOT



MH6F-Series

MH6F | MH6F-10

ASSEMBLY | DISPENSING | MACHINE TENDING
MATERIAL HANDLING | PACKAGING

KEY BENEFITS

Compact and powerful design

Highest speed in its class

Yields extraordinary production results while requiring minimal capital investment

Applicable to various industry environments

Open architecture enables programming and control through a wide variety of platforms

Compact FS100 controller can be mounted under conveyors or in space-saving locations

SPECIFICATIONS

6 kg payload (MH6F)

10 kg payload (MH6F-10)

1,422 mm horizontal reach

2,486 mm vertical reach

±0.08 mm repeatability

CONTROLLERS

☐ DX200 ☑ FS100 ☐ MLX200

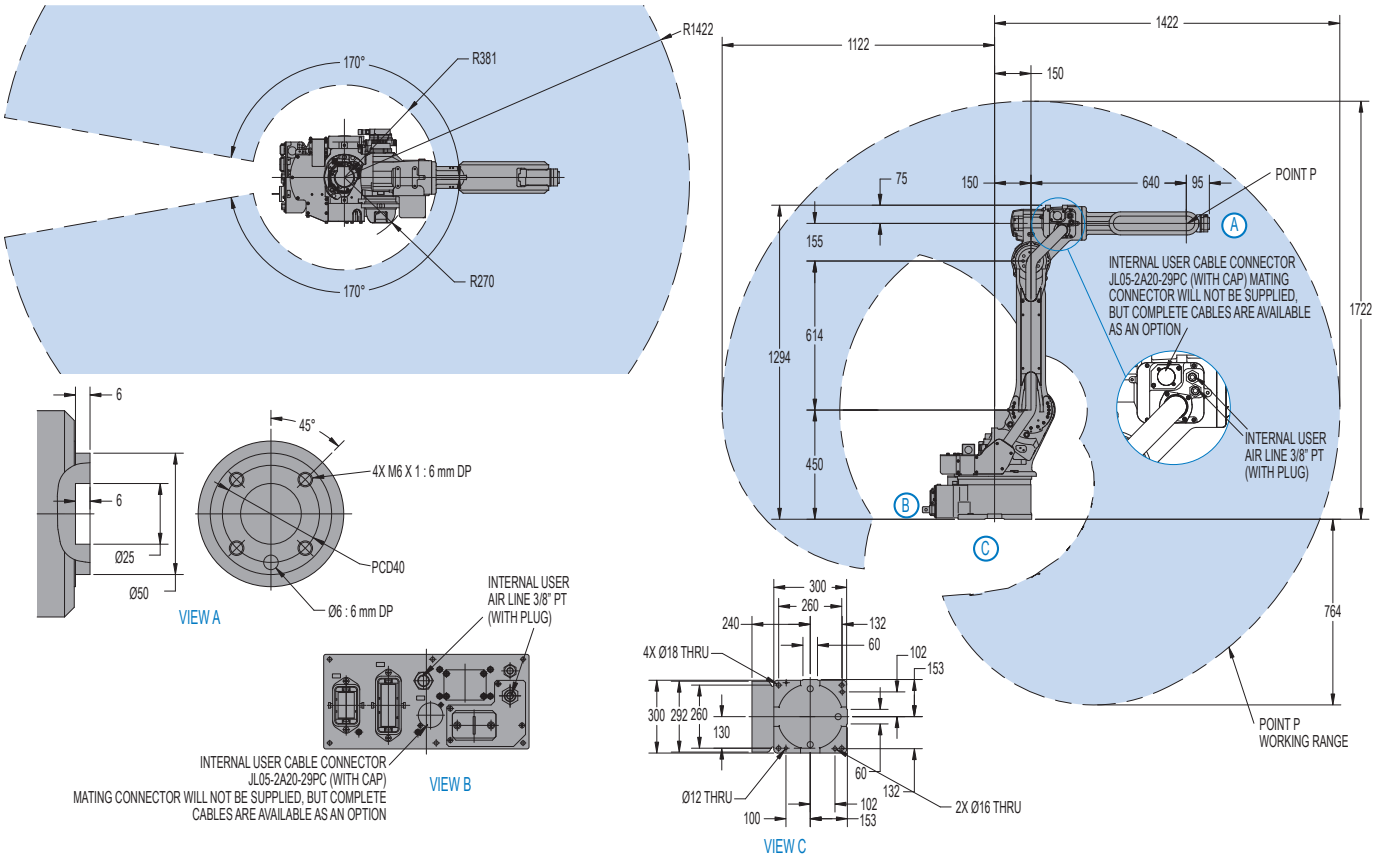
COMPACT, POWERFUL AND ECONOMICAL

- High-speed six-axis MH6F robots require minimal installation space.
- Both robots feature 1,422 mm horizontal reach, 2,486 mm vertical reach and ±0.08 mm repeatability.
- Widest work envelope in its class with small interference radius; allows robots to be placed close to workpieces/equipment.
- Powerful design with high moment of inertia ratings provides higher carrying capacity.
- The MH6F features a 6 kg payload capacity. Higher speeds on all axes provide maximum throughput.
- For similar applications requiring heavier payload requirements the MH6F-10 offers a 10 kg capactiy.
- Superior performance in assembly, dispensing, material handling, machine tending and packaging.
- Both robots can be floor-, wall-, or ceiling-mounted. Brakes on all axes.

FS100 CONTROLLER

- Small, compact controller.
- 470 mm wide, 200 mm high, 420 mm deep.
- Designed for packaging and small parts handling robots with payloads of 20 kg and under.
- Compatible with integrated MotoSight 2D vision (optional).
- Improved communication speeds and functionality.
- High-speed I/O response and high-resolution timers.
- Open architecture enables software customization in widely accepted environments such as C, C++, C# and .NET.
- Uses similar programming pendant hardware as DX200 controller, providing a consistent programming interface.
- Built-in collision avoidance with multiple robots.

MH6F | MH6F-10 ROBOTS



All dimensions are metric (mm) and for reference only.
Request detailed drawings for all design/engineering requirements.

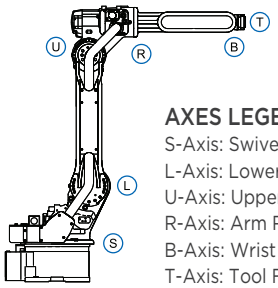
SPECIFICATIONS: MH6F | MH6F 10

Axes	Maximum motion range [°]		Maximum speed [°/sec.]		Allowable moment [N•m]		Allowable moment of inertia [kg•m²]	
	MH6F	MH6F-10	MH6F	MH6F-10	MH6F	MH6F-10	MH6F	MH6F-10
S	±170	±170	220	140	-	-	-	-
L	+155/-90	+155/-90	200	130	-	-	-	-
U	+250/-175	+250/-175	220	135	-	-	-	-
R	±180	±180	410	270	11.8	12.2	0.27	0.24
B	+225/-45	+225/-45	410	270	9.8	14.2	0.27	0.21
T	±360	±360	610	400	5.9	7.3	0.06	0.06

	MH6F	MH6F-10
Controlled axes	6	6
Maximum payload [kg]	6	10
Repeatability [mm]	±0.08	±0.08
Horizontal reach [mm]	1,422	1,422
Vertical reach [mm]	2,486	2,486
Weight [kg]	130	130
Power supply, average [kVA]	1.5	1.5
Internal I/O cable [conductors w/ ground]	17	17
Internal air line [connections]	(2) 3/8"	(2) 3/8"

OPTIONS

Extended length manipulator cables
Robot risers and base plates
Wide variety of fieldbus cards
Vision systems
Robot base and upper arm I/O cables



AXES LEGEND

S-Axis: Swivel Base
L-Axis: Lower Arm
U-Axis: Upper Arm
R-Axis: Arm Roll
B-Axis: Wrist Bend
T-Axis: Tool Flange

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