



MH3F

ASSEMBLY | HANDLING | MACHINE TENDING

KEY BENEFITS

- Full 6-axis capability provides high flexibility
- Super compact body
- Supports MotoPlus™ and MotomanSync™
- Open architecture programming environment

SPECIFICATIONS

- 3 kg payload
- 532 mm horizontal reach
- 804 mm vertical reach
- ±0.03 mm repeatability
- Floor, wall or ceiling mounted

CONTROLLERS

- | | | |
|--------------------------|-------------------------------------|--------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| DX200 | FS100 | MLX200 |

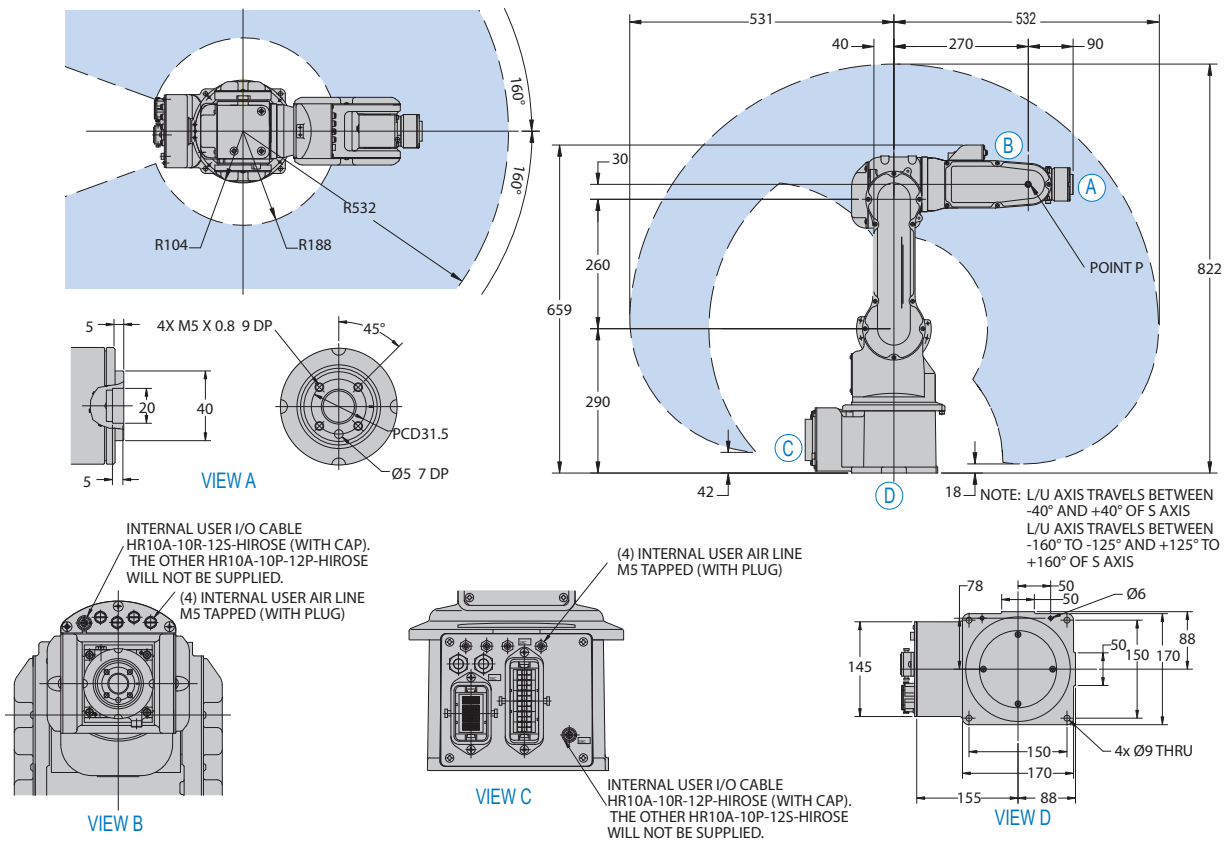
SMALL, POWERFUL AND AFFORDABLE

- Offers superior performance in small part handling and assembly. Ideal for lab automation, inspection/testing, education and research applications.
- Compact, high-speed robot requires minimal installation space; base width of only 200 mm allows it to be mounted in confined spaces.
- Compact design and built-in collision avoidance features with multiple robot control allow up to two robots to be used together to optimize productivity.
- Internally routed cables and hoses maximize system reliability.

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.

MH3F ROBOT



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

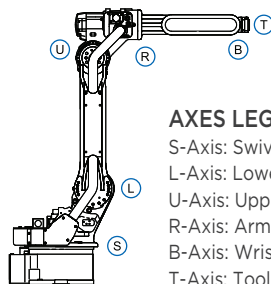
SPECIFICATIONS: MH3F

| Axes | Maximum motion range [°] | Maximum speed [°/sec.] | Allowable moment [N•m] | Allowable moment of inertia [kg•m ²] | Controlled axes | |
|------|--------------------------|------------------------|------------------------|--|---|----------|
| S | ±160 | 200 | - | - | Maximum payload [kg] | 3 |
| L | +90/-85 | 150 | - | - | Repeatability [mm] | ±0.03 |
| U | +260/-105 | 190 | - | - | Horizontal reach [mm] | 532 |
| R | ±170 | 300 | 5.39 | 0.1 | Vertical reach [mm] | 804 |
| B | ±120 | 300 | 5.39 | 0.1 | Weight [kg] | 27 |
| T | ±360 | 420 | 2.94 | 0.03 | Internal I/O cable [conductors w/ ground] | 10 |
| | | | | | Internal air line [connections] | (4) 5 mm |

Wall-mounted MH3F S-axis maximum motion range is ±25°

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

Yaskawa America, Inc.
Motoman Robotics Division

100 Automation Way
Miamisburg, OH 45342
Tel: 937.847.6200
Fax: 937.847.6277

motoman.com