

# MPP3H AND MPP3S

## HIGH-SPEED SORTING, PICKING AND PACKAGING

### KEY BENEFITS

Ideal for primary packaging with performance optimized for payload

Zero footprint and compact design ideal for high-density installation

NSF-H1 certified food-grade lubricants and anti-corrosive coating allow handling of wide variety of products

### SPECIFICATIONS

3 kg payload

±0.1 mm repeatability

IP67 protection rating

Motion Range (Ø x z-stroke):

MPP3S: 800 mm x 200 mm  
580 mm x 300 mm

MPP3H: 1,300 mm x 300 mm  
1,040 mm x 601 mm

### APPLICATION

Assembly  
Cartoning  
Kitting  
Packaging  
Pick and Place

### CONTROLLER

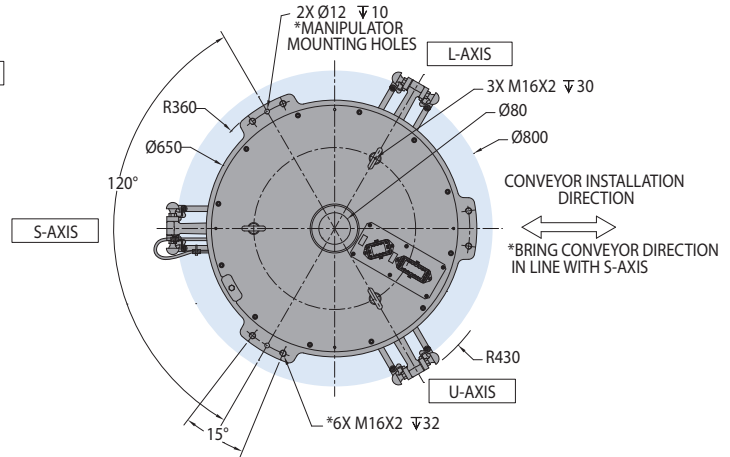
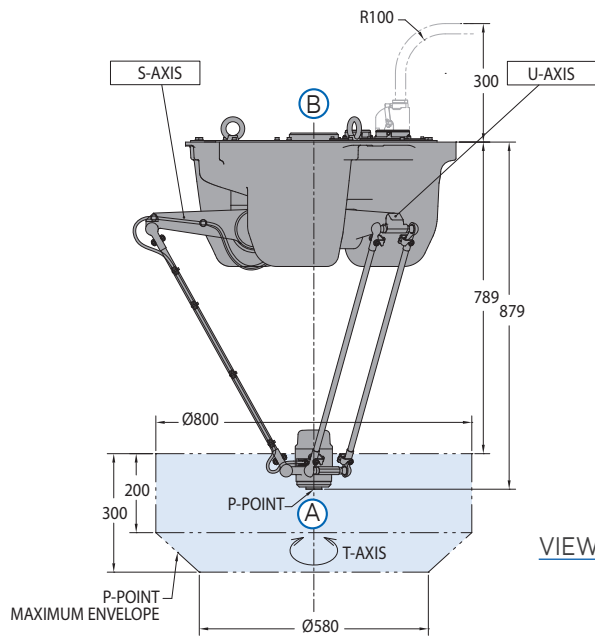
FS100  
MLX200



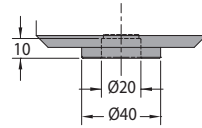
- High-speed operation - speeds up to 150 cycles per minute (CPM) with full 3 kg payload and up to 185 CPM with 1 kg payload. CPM rate includes 0.04 second per cycle for part acquisition and release.
- Highly accurate ±0.1 mm repeatability.
- Direct driven T-axis (rotary-axis) simplifies design and improves reliability of operations.
- Software-based arm dislocation detection promptly stops robot to avoid damage to parts, workcell and/or the robot itself.
- The MPP3-series robots offer versatility for application layout without compromising on payload, speed or performance.
- Zero footprint design with compact installation space of 650 mm diameter (MPP3S) and 750 mm diameter (MPP3H).

- Ø80 mm thru-hole at the base of the robot makes it easier to manage I/O and airline cabling challenges.
- Removable covers on top of base allow for easy grease replenishment.
- Available with advanced technologies such as MotoSight™, MotoPick™ and conveyor tracking.
- With its IP67 structure, NSF-H1 certified food-grade lubricants, anti-corrosive paint and ISO Class 5 (Federal standard 209E clean class 100), the MPP3-series robots are ideal for use in many industries including:
  - Food and beverage
  - Consumer packaged goods
  - Pharmaceutical
  - Life sciences
  - Automotive

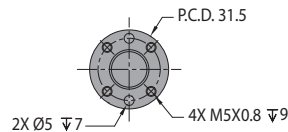
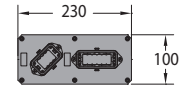
# MPP3H AND MPP3S ROBOTS



VIEW A



VIEW B



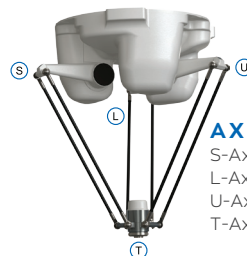
**MPP3S shown.** MPP3H has different reach, maximum envelope and mounting dimensions. All dimensions are metric (mm) and for reference only. Request detailed drawings for all design/engineering requirements.

## SPECIFICATIONS

Item	Unit	T-Axis	Item	Unit	MPP3S	MPP3H
Rotational Repeatability		±1 arc-min	Structure		Parallel Arm/Delta	Parallel Arm/Delta
Maximum Speed	°/sec.	1,400	Mounting		Ceiling	Ceiling
Range of Motion	°	±360	Controlled Axes		4	4
Allowable Moment	N·m	2.94	Payload	kg	3	3
Allowable Inertia (GD2/4)	kg·m <sup>2</sup>	0.017	Repeatability	mm	±0.1	±0.1
			Range of Motion	mm	Ø800 X Z200 Ø580 X Z300	Ø1,300 X Z300 Ø1,040 X Z601
			IP Rating		IP67	IP67
			Weight	kg	95	115
			Brakes		All axes	All axes
			Power Requirement		3-phase; 200/230 VAC; 50/60 Hz	3-phase; 200/230 VAC; 50/60 Hz
			Power Rating [kVA]	kVA	1.5	1.5

## OPTIONS

- Extended length manipulator cables
- MotoPick – scheduler and picking software integrated with vision and conveyor tracking
- MotoSight – easy to integrate vision software



### AXES LEGEND

- S-Axis: Upper Arm
- L-Axis: Upper Arm
- U-Axis: Upper Arm
- T-Axis: Tool Flange

**YASKAWA**

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