

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

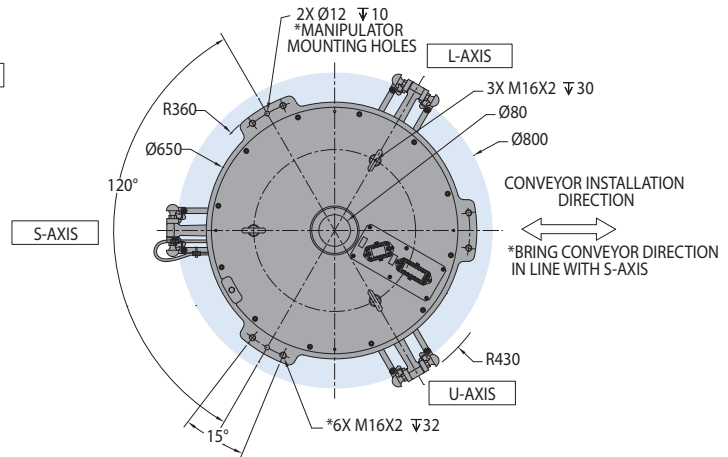
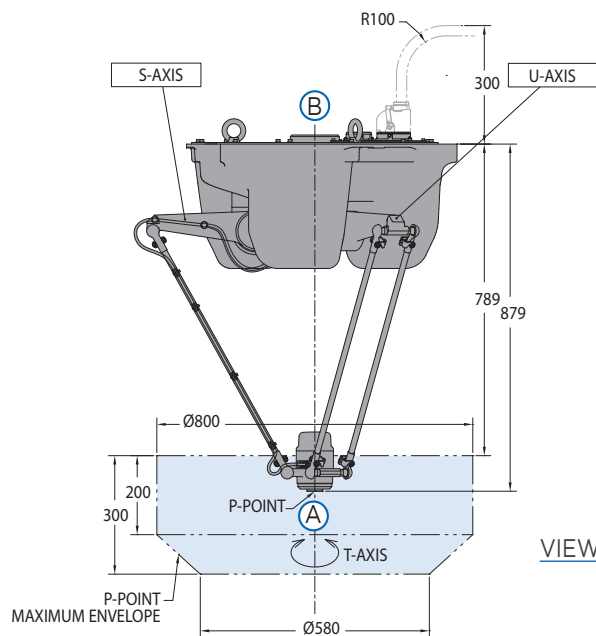
FS100
MLX200



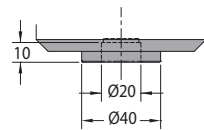
- High-speed operation - speeds up to 150 cycles per minute (CPM) with full 3 kg payload and up to 185 CPM with 1 kg payload. CPM rate includes 0.04 second per cycle for part acquisition and release.
- Highly accurate ±0.1 mm repeatability.
- Direct driven T-axis (rotary-axis) simplifies design and improves 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

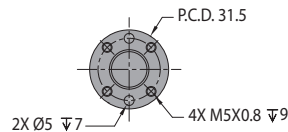
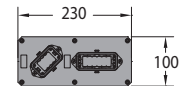
MPP3H AND MPP3S ROBOTS



VIEW A



VIEW B



MPP3S shown. MPP3H has different reach, maximum envelope and mounting dimensions.

All dimensions are metric (mm) and for reference only.

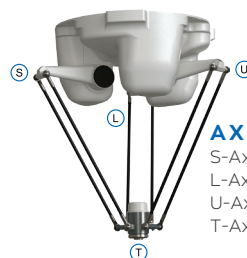
Request detailed drawings for all design/engineering requirements.

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•m²	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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