



MPL300

CASE PALLETIZING | BAG PALLETIZING | DE-PALLETIZING | LAYER PICKING | LAYER FORMING



KEY BENEFITS

High-speed, 4-axis palletizing robot with performance-driven design.

High allowable moment of inertia handles unbalanced loads effectively

Highly reliable

SPECIFICATIONS

300 kg maximum payload

3,024 mm vertical reach

3,159 mm horizontal reach

±0.5 mm repeatability

CONTROLLERS



DX100



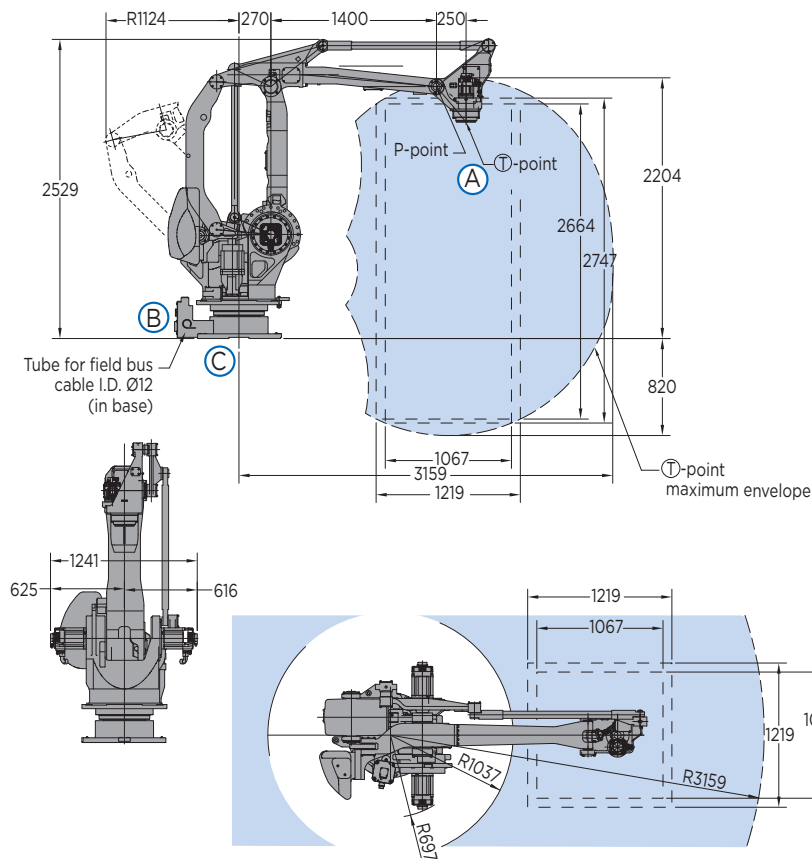
FS100



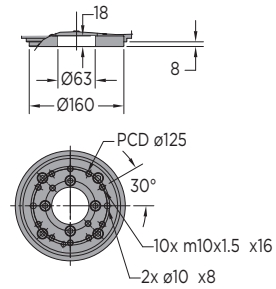
MLX200

- Versatile robot with 300 kg payload capacity is applicable to heavy duty case palletizing, bag palletizing, layer and pallet handling, order picking and many logistical tasks for end-of-line or distribution center automation.
- Extensive 3,024 mm vertical reach combined with 3,159 mm horizontal reach enables this robot to build 102 in. tall trailer-high loads on standard 48 in. x 40 in. pallet.
- Hollow wrist offers the flexibility to connect the end-of-arm tool providing wide range of wrist motion without interference.
- T-axis allowable moment of inertia (140 kg•m²) allows this robot to handle unbalanced loads effectively without compromising speed or performance.
- Internally routed airlines and cables from base to the end-of-arm tool maximizes reliability.
- Cable installation tube in robot base facilitates fieldbus routing to the upper arm and/or gripper.
- Available with PalletSolver™, Yaskawa Motoman's operator-friendly palletizing software suite for fast and easy creation of palletizing patterns.
 - PalletSolver's offline pattern generation tool with intuitive graphical interface allows quick changeovers without halting production.
- Highly customizable to each palletizing system.
- Directly imports pallet patterns generated in widely-used TOPS® or CAPE software.

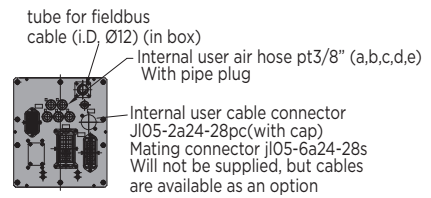
MPL300 ROBOT



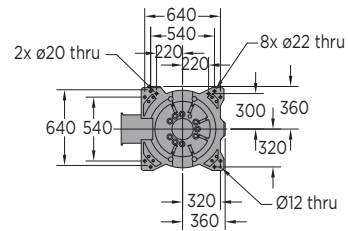
VIEW A



VIEW B



VIEW C



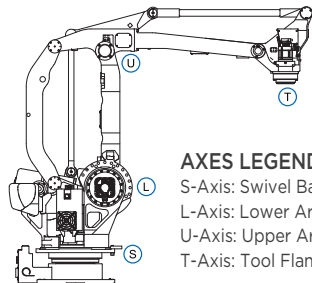
All dimensions are metric (mm) and for reference only.
Request detailed drawings for all design/engineering requirements.

SPECIFICATIONS

Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [N•m]	Allowable moment of inertia [kg•m ²]	Controlled axes	4
S	±180	90	-	-	Maximum payload [kg]	300
L	-45/+90	100	-	-	Repeatability [mm]	±0.5
U	-120/+15.5	110	-	-	Horizontal reach [mm]	3,159
T	±360	195	-	140	Vertical reach [mm]	3,024
					Protection (IP rating)	IP54
					Weight [kg]	1,820
					Power requirements	
					DX100	3-phase; 240/480/575 VAC at 50/60 Hz
					MLX200	3-phase; 230 VAC at 50/60 Hz
					Power rating [kVA]	9.5

OPTIONS

- Extended length manipulator cables
- PalletSolver - revolutionary palletizing software
- MotoSight™ - easy to integrate vision software



AXES LEGEND
S-Axis: Swivel Base
L-Axis: Lower Arm
U-Axis: Upper Arm
T-Axis: Tool Flange

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