FAST, FLEXIBLE PALLETIZING

## YASKAWA

VASKAWA

# MPL160 II

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

#### **KEY BENEFITS**

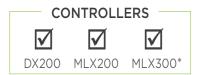
High-speed, 4-axis palletizing robot with performance-driven design

High allowable moment of inertia handles unbalanced loads effectively

Highly reliable

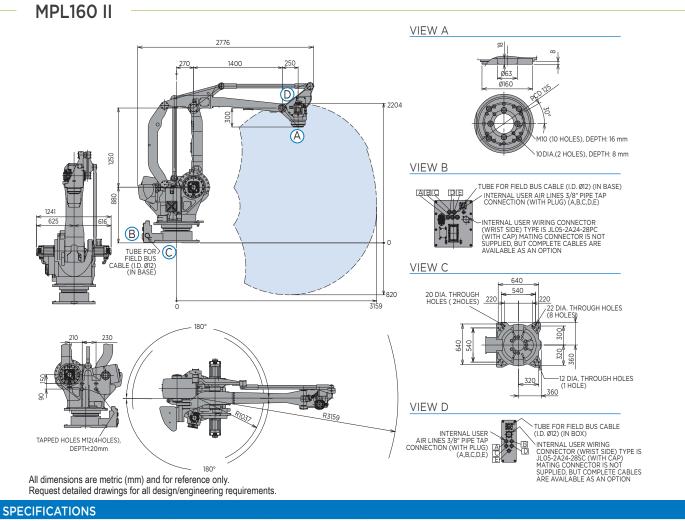
#### SPECIFICATIONS

160 kg maximum payload 3,024 mm vertical reach 3,159 mm horizontal reach ±0.5 mm repeatability



- Highly versatile, this 4-axis robot is ideal for a variety of palletizing applications, order picking and other logistical tasks for end-of-line or distribution center automation.
- Extensive 3,024 mm vertical reach, combined with 3,159 mm horizontal reach, provides ability to build 102 in. tall trailer-high loads on standard 48 in. x 40 in. pallet.
- Hollow wrist provides a wide range of wrist motion without interference.
- T-axis features high allowable moment of inertia; asymmetric loads are handled effectively without compromising speed or performance.
- Internally routed airlines and cables from base to end-of-arm tool maximize reliability.

- Cable installation tube facilitates fieldbus routing to the upper arm and/or gripper.
- NSF-H1 certified food-grade lubricant option available for food or consumer product packaging environment.
- Available with PalletSolver<sup>®</sup>, 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<sup>®</sup> or CAPE software.

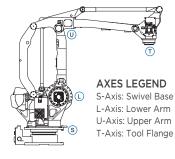


Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment of inertia [kg•m²]	Controlled axes Maximum payload [kg] Repeatability [mm]	4 160 ±0.5
S	±180	140	-	Horizontal reach [mm] Vertical reach [mm]	3,159 3,024
	45/200	140		Protection (IP Rating) Weight [kg]	IP54 1.700
L	-45/+90	140	-	Power requirements DX200 / MLX300	3-phase; 240/480/575 VAC at
U	-120/+15.5	140	-	MLX200	50/60 Hz 3-phase; 200/230 VAC at 50/60 Hz
				Power rating [kVA] DX200 / MLX300	9.5
Т	±360	305	80	MLX200	10

\* The MLX300 software option is not available for use with arc or spot welding, coating, dispensing, cutting or other "path control" applications. MLX300 fieldbus cards, I/O cards and vision equipment must be purchased separately from the supplier. All peripherals are programmed using a PLC.

### OPTIONS

NSF-H1 certified food-grade lubricants Extended length manipulator cables PalletSolver – revolutionary palletizing software MotoSight™ – easy to integrate vision software Robot risers and base plates Wide variety of fieldbus cards



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**YASKAWA** 

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