



MPL160 II

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

KEY BENEFITS

Performance driven design
Easy to use
Highly reliable

SPECIFICATIONS

160 kg maximum payload
Vertical reach 3,024 mm
Horizontal reach 3,159 mm
Food-grade lubricants

CONTROLLERS



DX200



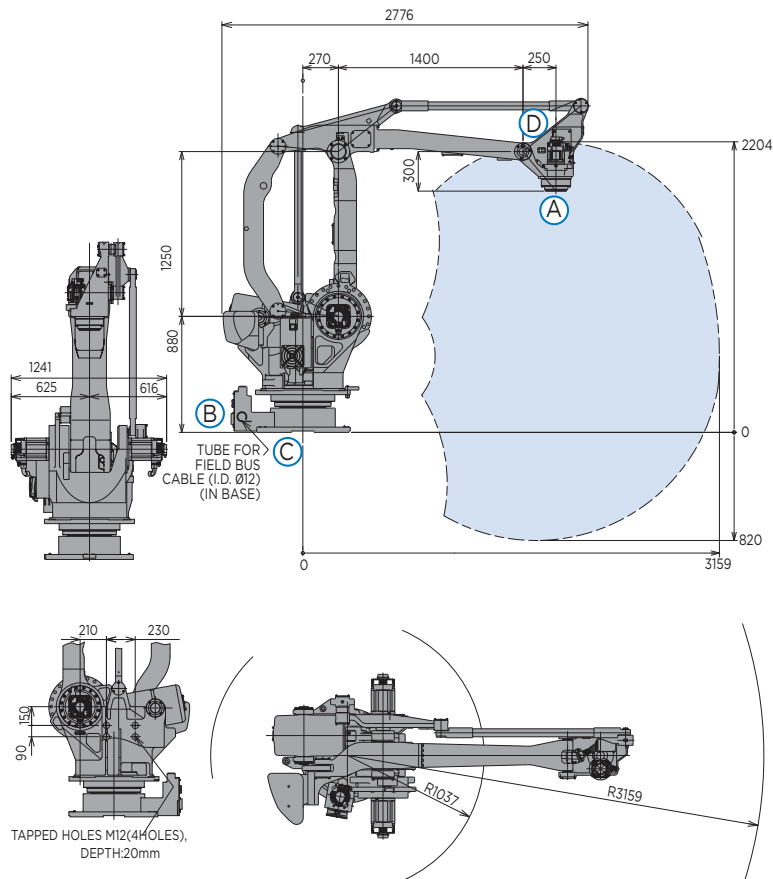
FS100



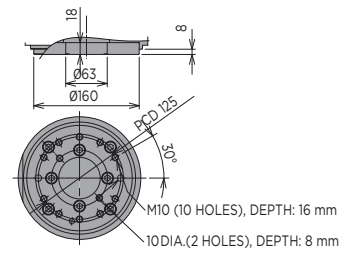
MLX200

- High-performance, 4-axis robot with 160 kg payload capacity and ± 0.5 mm repeatability.
- Highly versatile, this robot is ideal for case palletizing, bag palletizing, layer handling, pallet handling, 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" tall trailer-high loads on standard 48" x 40" 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 operation reliability.
- Internally routed fieldbus connection to T-axis/tool.
- NSF-H1 certified food-grade lubricant option available for food or consumer product packaging environment.
- 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.

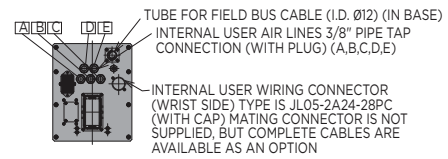
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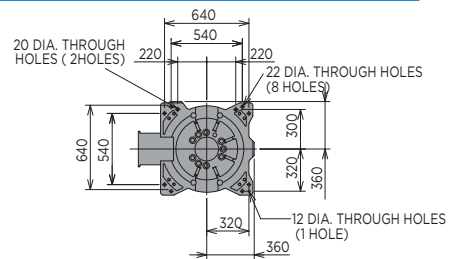
VIEW A



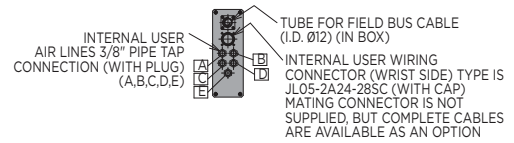
VIEW B



VIEW C



VIEW D



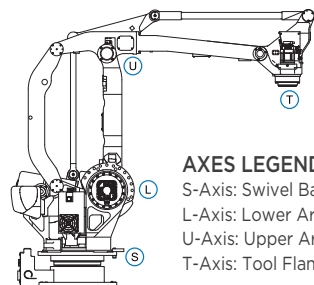
All dimensions are metric (mm) and for reference only.
Request detailed drawings for all design/engineering requirements.

SPECIFICATIONS

Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment of inertia [kg•m ²]	Controlled axes	4
S	±180	140	-	Maximum payload [kg]	160
L	+90/-45	140	-	Repeatability [mm]	±0.5
U	+15.5/-120	140	-	Horizontal reach [mm]	3,159
T	±360	305	80	Vertical reach [mm]	3,024
				Protection (IP Rating)	IP54
				Weight [kg]	1,700
				Power rating [kVA]	9.5

OPTIONS

- NSF-H1 certified food-grade lubricants
- Extended length manipulator cables
- Robot risers and base plates
- Wide variety of fieldbus connectivity



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

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