

MOTOMAN PL190-100

Palletizing & Handling with the PL-series



The fast 4-axis MOTOMAN PL190-100 achieves top performance with over 2000 cycles per hour for box, carton and pack palletizing in final packaging and logistics.

The special parameterization of the motors and the fine-tuned kinematics ensure highest accelerations for even faster cycle times with a high payload of 100 kg. The large working area with a maximum reach of 3,159 mm and an achievable stacking height of over of over 2,600 mm allows versatile use for all palletizing tasks. The MOTOMAN PL190-100 robot is very compact and no longer requires a heavy counterweight. It also features a low overall height, slim design and small footprint.

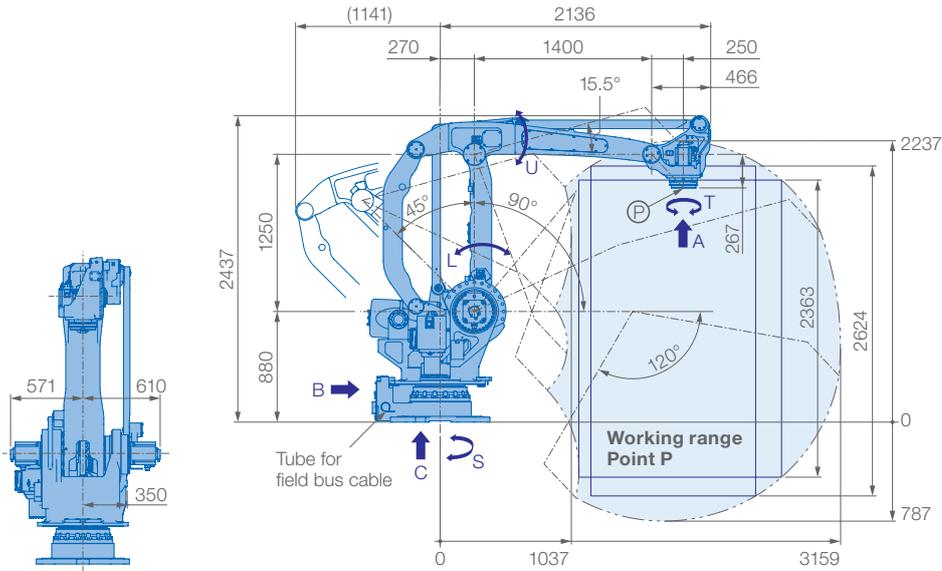
The media cables for grippers can be routed through all axes and its hollow wrist in a protected and collision-free manner.

The MOTOMAN PL190-100 uses energy-saving Yaskawa Sigma-7 generation servo motors and the compact YRC1000 high-performance controller.

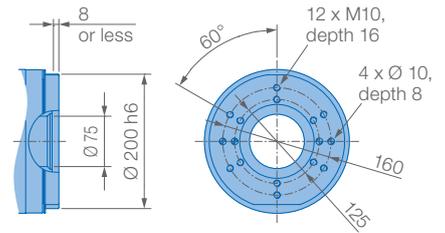
The perfect combination is offered with the optional Functional Safety Controller (FSU) for safeguarding compact work areas, or with MotoLogix® for easy programming of the robot via PLC function blocks.

KEY BENEFITS

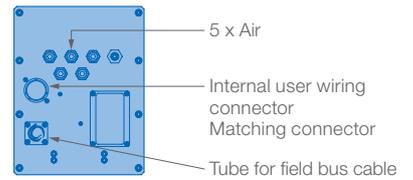
- High cycle time performance: > 2000 cycles/hour with full payload (400 mm – 2000 mm – 400 mm motion pattern)
- New Sigma-7 servo motors → high accelerations, speed, energy efficiency
- High payload: max. 100 kg
- Large working range: 3,159 mm
- Compact and slim design, no counterweight balancer
- Internal cable and wire routing, hollow wrist
- Advanced functional safety (FSU) with YRC1000 controller
- Programmable by PLC function blocks via MotoLogix software interface
- Dust and liquid proof wrist design (IP54/67)



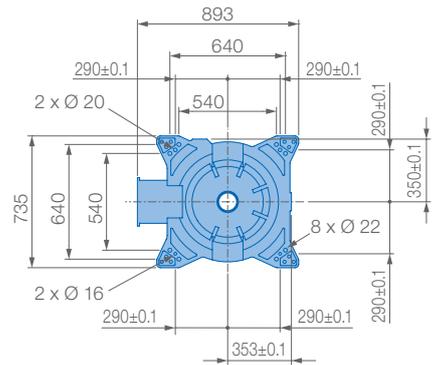
View A



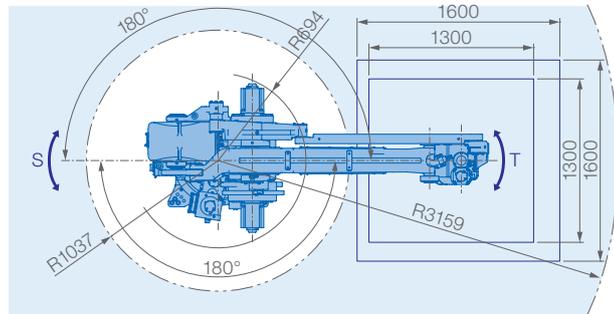
View B



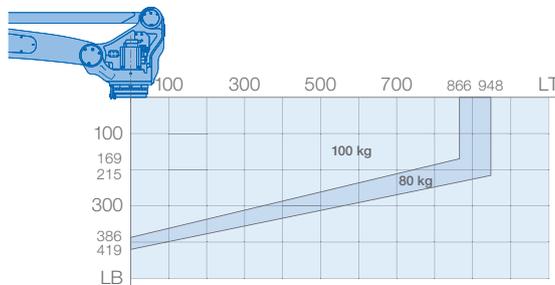
View C



Mounting option: Floor
IP Protection: IP54 (body), IP67 (wrist)



Allowable wrist load



Specifications PL190-100						
Axes	Maximum motion range [°]	Maximum speed [°/s]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	4
S	±180	140	-	-	Max. payload [kg]	100
L	+90/-45	145	-	-	Repeatability [mm]	±0.05
U	+15.5/-120	145	-	-	Max. working range R [mm]	3159
R	-	-	-	-	Temperature [°C]	0 to +45
B	-	-	-	-	Humidity [%]	20 - 80
T	±360	420	-	48	Weight [kg]	1680
					Max. connected load [kVA]	9.5

Yaskawa Europe GmbH

Robotics Division
Yaskawastraße 1
85391 Allershausen
Germany

Tel. +49 (0) 8166 90-0
robotics@yaskawa.eu
www.yaskawa.eu

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