

MOTOMAN GP280L

Handling & General Applications
with the GP Series



The MOTOMAN GP280L 6-axis robot is a powerful and versatile industrial robot that is ideal for a wide range of applications. The product features a high payload of 280 kg and a large working range.

The robot is an allrounder and ideal for a wide range of applications, including material handling, machine tending, assembly, and dispensing as well as palletizing tasks. It is particularly well suited for handling large workpieces, such as heavy battery modules or vehicle components in the automotive industry.

Thanks to its parallel kinematics, the robot offers high rigidity and stability when handling loads with high moments of inertia. Robust swivel bearings ensure smooth and reliable arm movement.

The GP280L is optionally available with the PLd, Category 3 »Functional Safety Unit (FSU)« for extended safety functions.

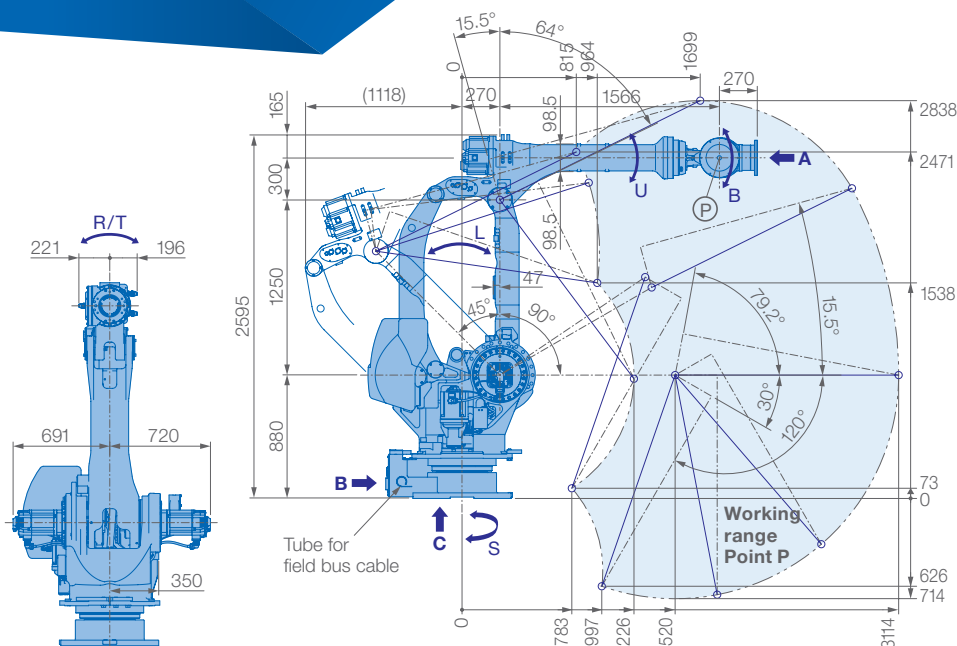
KEY BENEFITS

- Fast, flexible, and powerful
- High payload: 280 kg
- Large working range: 3,114 mm
- Parallel link design for high stability
- Heavy-duty swivel bearings for smooth arm rotation
- Advanced safety functions (PLd, Category 3 FSU available)

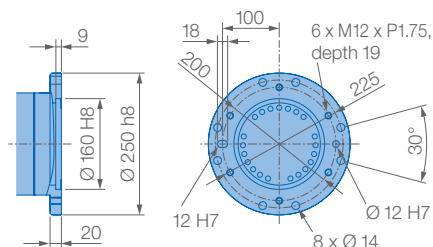
TYPICAL APPLICATIONS

- Material Handling
- Assembly
- Machine Tending
- Dispensing & Glueing
- Palletizing / Packaging

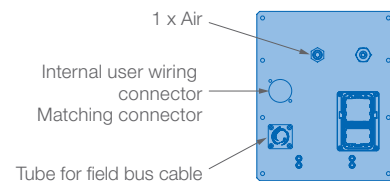




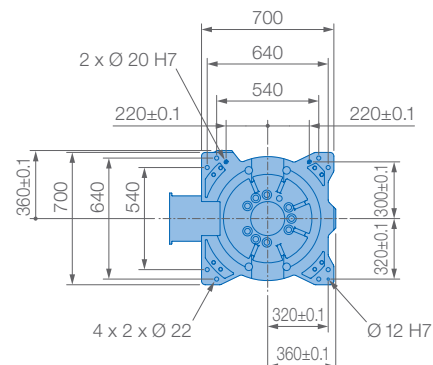
View A



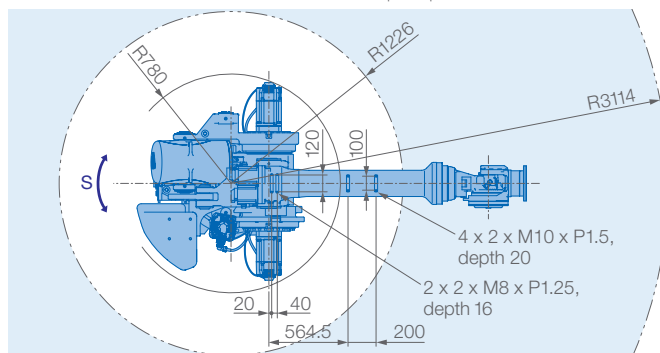
View B



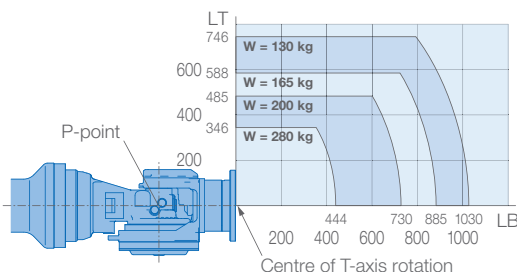
View C



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



Allowable wrist load



Specifications GP280L						
Axes	Maximum motion range [°]	Maximum speed [°/s]	Allowable moment [Nm]	Allowable moment of inertia [kg · m²]	Controlled axes	6
S	±180	110	–	–	Max. payload [kg]	280
L	+90/–45	90	–	–	Repeatability [mm]	±0.1
U	+15.5/–120	90	–	–	Max. working range R [mm]	3114
R	±360	125	1960	220	Temperature [°C]	0 to +45
B	+125	125	1960	220	Humidity [%]	20 – 80
T	±360	205	950	140	Weight [kg]	2390
					Max. connected load [kVA]	7.5

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All drawing dimensions in mm. Technical data may be subject to change without previous notice. Please request detailed drawings at robotics@yaskawa.eu.

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