YASKAWA

MOTOMAN GG250

High-Rigidity Robot for Friction Stir Welding and Handling Applications

The MOTOMAN GG250 is a 6-axis welding robot with exceptional rigidity. With a payload of 250 kg and a reach of up to 2711 mm, this industrial robot has been specially developed for use with heavy and overhanging welding equipment for Friction Stir Welding.

Friction Stir Welding is an advanced and energy efficient welding technology that offers reduced process times, excellent weld properties and cost effectiveness.

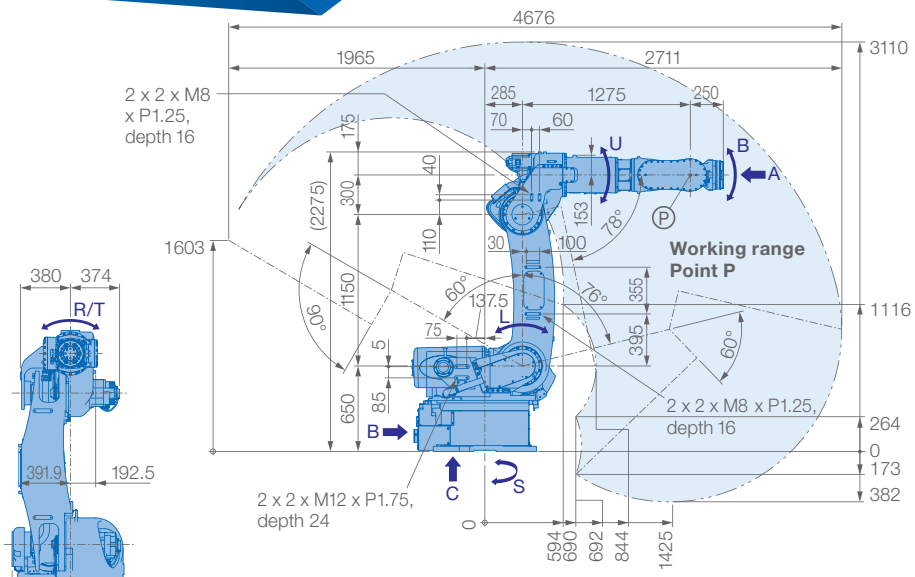
The increased diameter of the L-arm, combined with the design-optimised S-axis, ensures that the robot retains the rigidity required for high-precision applications.

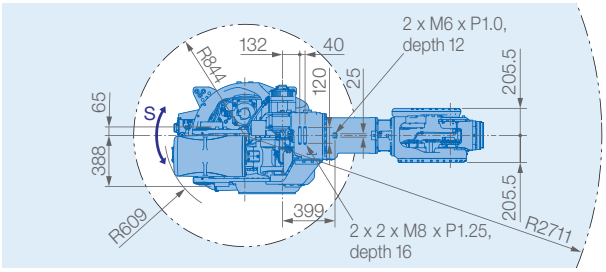
KEY BENEFITS

- Highly rigid 6-axis robot
- High payload (250 kg) and large working range (2711 mm)
- Repeatability of ± 0.025 mm
- Easy integration, commissioning and maintenance
- Supplied with +SFT instruction for simplified correction of teaching positions
- Protection class: IP54/IP65

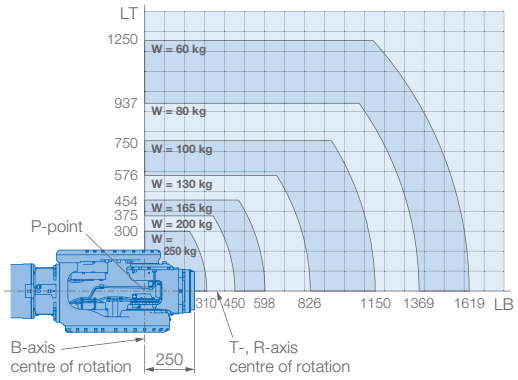
Controlled by YRC1000

MOTOMAN GG250

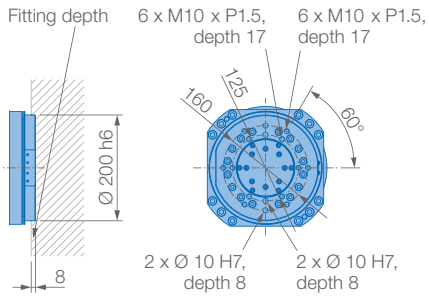




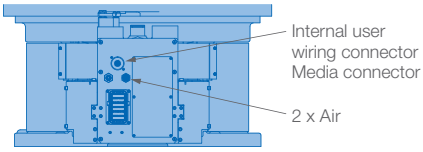
Allowable wrist load



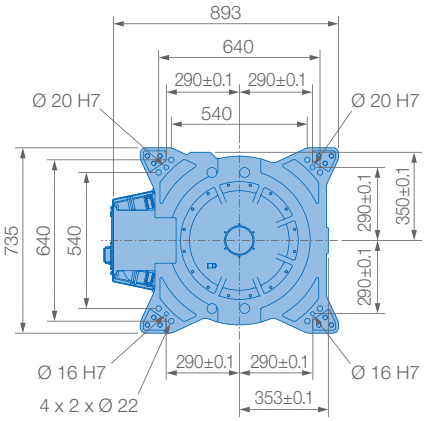
View A



View B



View C



Mounting option: Floor

Protection class: IP54/IP65

Specifications GG250						
Axes	**Maximum motion range [°]**	**Maximum speed [°/sec.]**	**Allowable moment [Nm]**	**Allowable moment of inertia [kg · m²]**	**Controlled axes**	6
					Max. payload [kg]	250
S	±180	80	–	–	**Repeatability [mm]**	±0.025
L	+76/–60	75	–	–	**Max. working range R [mm]**	2711
U	+90/–78	80	–	–	**Temperature [°C]**	0 to +45
R	±210	150	1372	209.8	**Humidity [%]**	20 – 80
B	±130	150	1372	209.8	**Weight [kg]**	1640
T	±360	190	735	162.1	**Power supply, average [KVA]**	5.0

Robotics Division

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