

MOTOMAN SP150R

Spot Welding & Handling with the SP-series

The MOTOMAN SP150R is a powerful 6-axis shelf-mounted spot welding and handling robot. Combined with its long reach of over 3 meters, it has a significantly extended working space below its installation level. It is used where the robot is mounted in an elevated position and needs to work downwards, e.g. on a steel structure.

With its maximum payload of 150 kg, it is suitable for a wide range of common spot-welding guns and grippers, especially also for servo-controlled welding guns as an integrated 7th axis with robot-supported gun compensation.

The MOTOMAN SP150R features the latest Yaskawa Sigma7 servo drive technology, is state-of-the-art in terms of dynamics and energy efficiency, and enables outstanding cycle times.

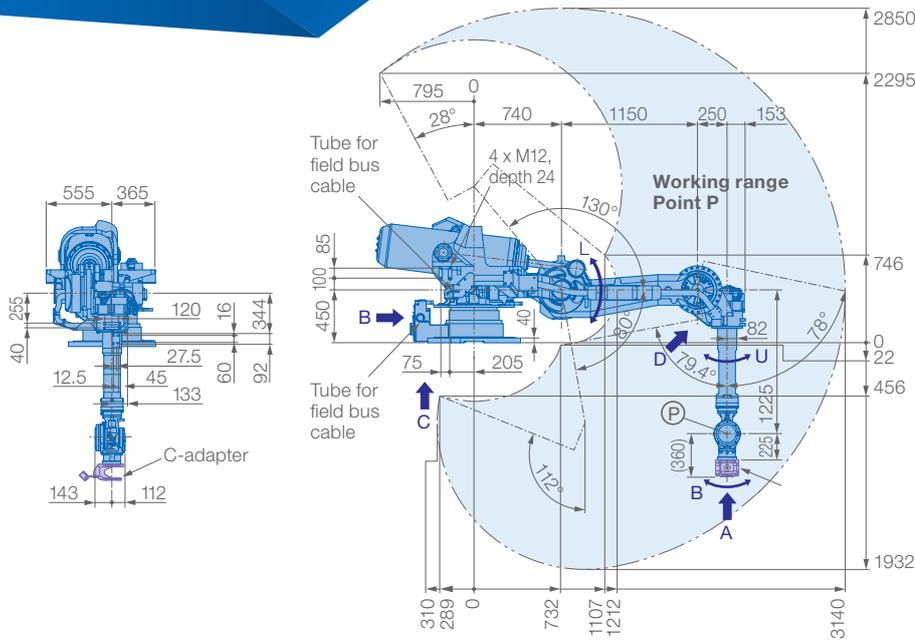
KEY BENEFITS

- Elevated console design possible
- Various application possibilities
- Minimum space requirements
- Large working range (3140 mm) and high payload (150 kg including C-adapter)
- High repeatability (± 0.05 mm)
- Slim design, compact footprint
- High robot density in production line possible
- Shortened process times
- High dynamics

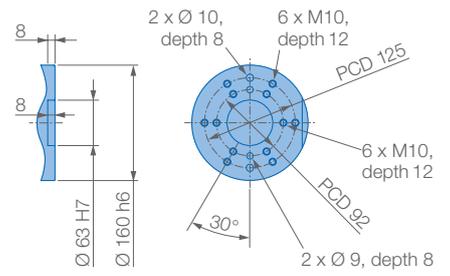
OPTIONS

- Cable packages of various designs, easily adaptable
- C-adapter for optimal cable routing on the wrist
- Sockets and base plates
- Extended robot cables
- Fieldbus and Safety Bus options
- External drive axes, travel paths
- Functional Safety Unit (FSU), area limits
- Vision system, e.g. MotoSight 2D

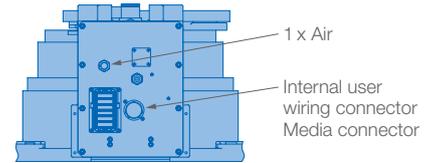




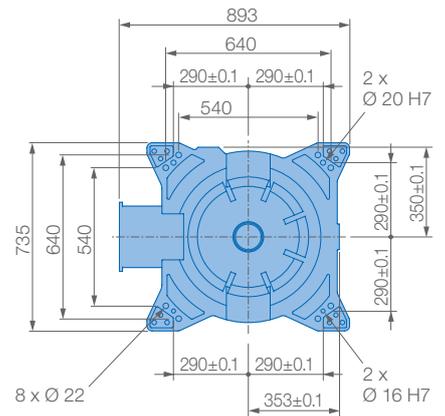
View A



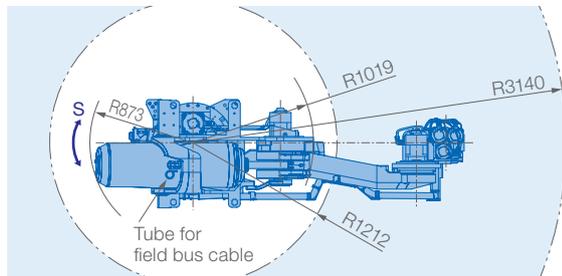
View B



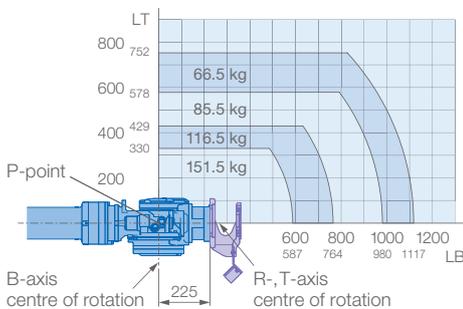
View C



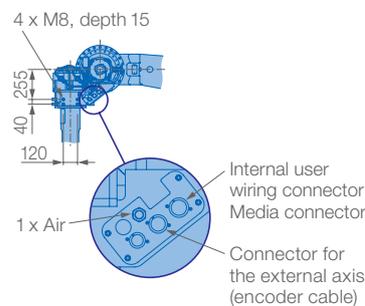
Mounting option: Shelf-mounted
IP Protection: IP54 (body), IP67 (wrist)



Allowable wrist load with C-adapter



View D



Specifications SP150R						
Axes	Maximum motion range [°]	Maximum speed [°/s]	Allowable moment [Nm]	Allowable moment of inertia [kg · m²]	Controlled axes	6
S	±180	105	–	–	Max. payload [kg]	151.5 (165*)
L	+130/–80	105	–	–	Repeatability [mm]	±0,05
U	+78/–79.4	105	–	–	Max. working range R [mm]	3140
R	±205 (±360*)	175	868 (921*)	83 (85*)	Temperature [°C]	0 to +45
B	±120 (±130*)	150	868 (921*)	83 (85*)	Humidity [%]	20 – 80
T	±180 (±360*)	240	490	45	Weight [kg]	1760
					Power supply, average [kVA]	5.0

* without C-adapter

Yaskawa Europe GmbH

Robotics Division
Yaskawastraße 1
85391 Allershausen
Germany

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

YR-1-06VR165-A00
A-04-2021, A-No. 212395