The MOTOMAN SP165 is a high-performance standard spot welding and handling robot with 165 kg payload. It is suitable for a wide range of common spot-welding guns and technologies, especially also for servo-controlled welding guns with robot-assisted gun alignment. Its slim design does not require a mechanical counterbalance and allows low moving masses as well as higher accelerations and speeds. The stable wrist is particularly suitable for small and fast positioning movements, as are common in spot welding applications.

The MOTOMAN SP165 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
- Versatile application possibilities
- High payload (165 kg including C-adapter) and large working range (2702 mm)
- High repeatability (±0.05 mm)
- Minimum space requirements
- Integrated cable and media guide in the robot arm
- High robot density in production line possible
- Shortened process times
- High dynamics

OPTIONS
- Cable packages of different types, easily adaptable
- C-adapter for optimal cable routing at the wrist
- Pedestals and base plates
- Extended robot cables
- Fieldbus and Safety Bus options
- External drive axes, tracks
- Functional Safety Unit (FSU), area limitations
- Vision system, e.g. MotoSight 2D
Specifications SP165

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* without C-adapter

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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.com.