

# MOTOMAN MS210

Spot Welding with the MS-series

The 6-axis MOTOMAN MS210 is a versatile, high speed robot offering superior performance in spot welding applications.

The MOTOMAN MS210 offers a large motion range and is equipped with external cables for flexible mounting of large spot welding guns, which contributes to increase the number of welding points per manipulator. The width of the MOTOMAN MS210 has been decreased by 625 mm and the installation area has also been reduced. In addition the payload has been increased to 210 kg.

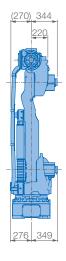
The number of power cables has been reduced from two to one resulting in reduced maintenance. A new vibration control system has been developed thanks to higher rotational axis speeds and rigidity of speed reducers. By reducing the cycle times, this system realises high increases in productivity.

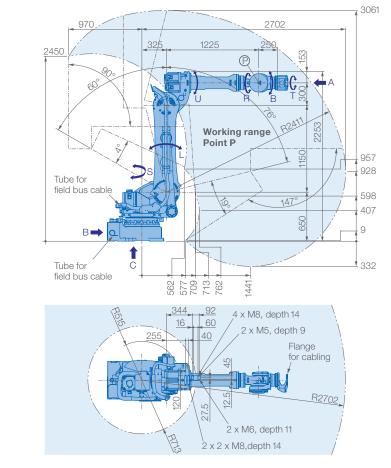
## **KEY BENEFITS**

- Fast, flexible and powerful
- High payload: 210 kg
- Wide motion range: 2702 mm
- Maximum performance using minimal floor space
- Equipped with media hose package for mounting spot welding guns
- Reduced maintenance (cable reduction from 2 to 1)

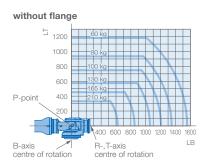


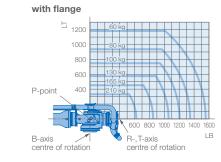
ASKAWA



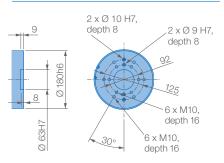


### Allowable wrist load





### View A

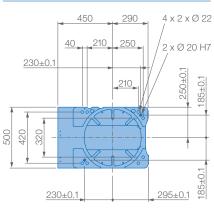


### View B



Internal user wiring connector Media connector

### View C



Mounting option: Floor Protection class: IP54/67

Specifications MS210						
Axes	motion range spee	Maximum	Allowable moment [Nm]	Allowable moment of inertia [kg · m²]	Flange	without with
		[°/sec.]			Controlled axes	6
Flange	without with*	without with	without with	without with	Max. payload [kg]	225 210
S	±180	120	-	-	Repeatability [mm]	±0.2
L.	+76/-60	97	-	-	Max. working range R [mm]	2702
U	+90/-147	115	-	-	Temperature [°C]	0 to +45
R	±360 ±210	145	1372 1323	145 143	Humidity [%]	20 - 80
В	±125	145	1372 1323	145 143	Weight [kg]	1000
т	±360 ±210	220	735	84	Power supply, average [KVA]	5.0

\* Recommended values

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Technical data may be subject to change without previous notice | Please request detailed drawings at robotics@yaskawa.eu.com

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