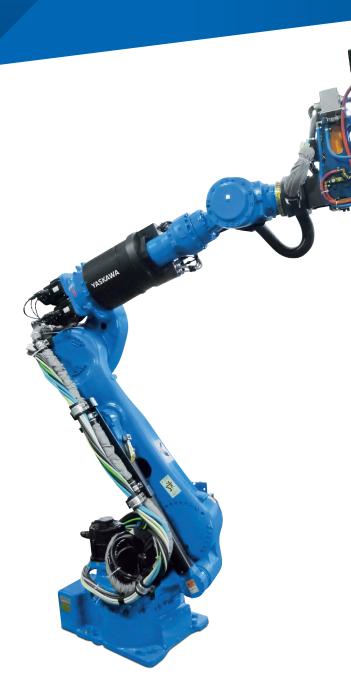
YASKAWA

MOTOMAN MS165

Spot Welding with the MS-series



The 6-axis MOTOMAN MS165 is a versatile, high speed robot offering superior performance in spot welding applications.

The MOTOMAN MS165 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 MS165 has been decreased by 625 mm and the installation area has also been reduced. In addition the payload has been increased to 165 kg.

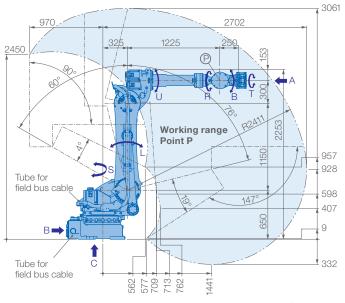
The number of power cables has been reduced from two to one resulting in reduced maintenance. A new vibration control system has been developed thanks to higher rotational axis speeds and rigidity of speed reducers. By reducing the cycle times, this system realises high increases in productivity.

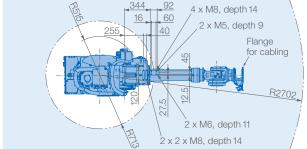
KEY BENEFITS

- Fast, flexible and powerful
- High payload: 165 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)



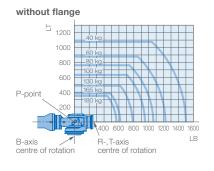
(275) 344 220 276 349

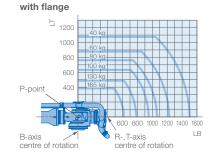




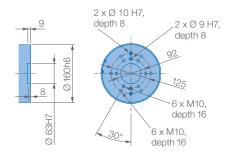


Allowable wrist load

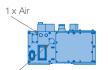




View A

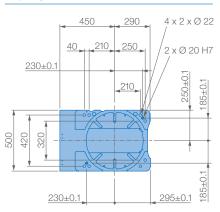


View B



Internal user wiring connector Media connector

View C



Mounting option: Floor Protection class: IP54/67

Specifications MS165						
Axes	Maximum motion range	Maximum speed	Allowable moment	Allowable moment of inertia [kg · m²]	Flange	without with
	[°]	[º/sec.]	[Nm]		Controlled axes	6
Flange	without with*	without with	without with	without with	Max. payload [kg]	180 165
S	±180	125	-	-	Repeatability [mm]	±0.2
L	+76/-60	115	-	-	Max. working range R [mm]	2702
U	+90/-147	125	-	-	Temperature [°C]	0 to +45
R	±360 ±210	182	1000 951	90.0 88.0	Humidity [%]	20 – 80
В	±130	175	1000 951	90.0 88.0	Weight [kg]	970
T	±360 ±210	265	618	46.3	Power supply, average [KVA]	5.0

^{*} Recommended values



YASKAWA Europe GmbH

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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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