

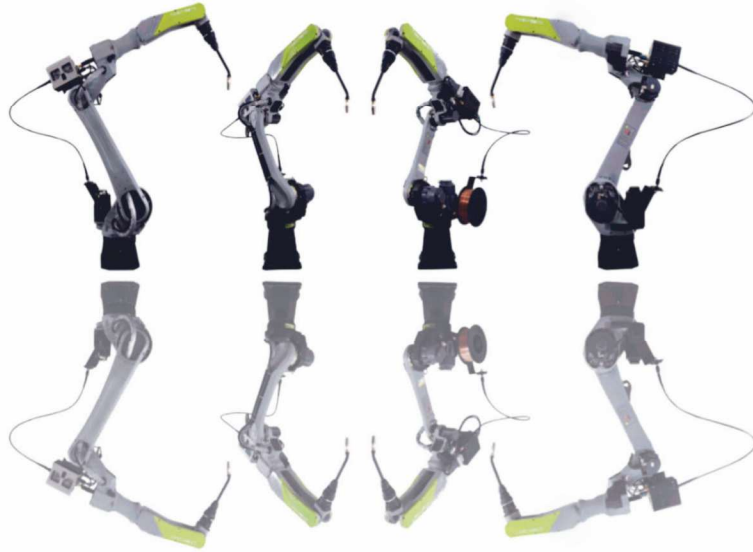
**Affordable
Reliable
Simple**

A close-up photograph of a welding torch tip in contact with a metal workpiece. A bright, intense light emanates from the point of contact, and a dense spray of bright orange and yellow sparks is being ejected from the torch. The background is dark, with wisps of white smoke or steam rising from the welding area.

WAW
WELDMATIC
— AUTOMATION —

Introducing RobotMeta

Welding Robotics, Now made Affordable, Reliable and Simple



At Weldmatic Automation, we thrive on finding the automation solution that suits your business the best at the right price.

The simplistic and yet highly efficient FastPendant allows you to pick up the robotics control in less than 30 mins.

Featuring industrial robotic arm tailored to arc welding applications with great working range, high payload capacity and productive output from a small footprint.

Clients across 6 Continents

18 Nations and constantly expanding

1800+

units sold

Diverse Client Base

From SMEs to Large Manufacturers



RM 2000/6 HW

Robotic Arm

Specification

Number of axis	6
Working Range	78.7" (2000 mm)
Rated Payload	13.3 lb (6 kg)
Repeatability	±0.003 in (±0.08 mm)
Mounting position	Floor, Wall & Overhead

Protection

Protection Rating	IP 65
-------------------	-------

Controller

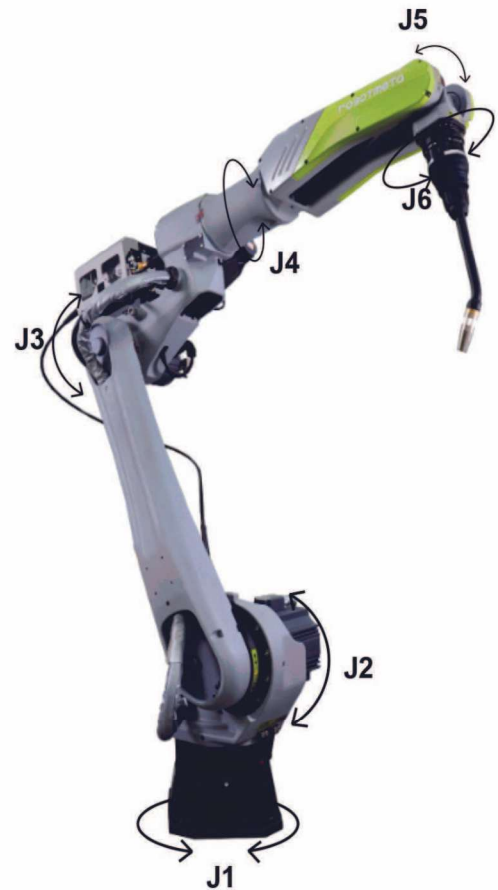
Controller	RMC 201/203
------------	-------------

Electrical Connections

Supply Voltage	220 V
Avg. Power Consumption	4.5 kwh

Physical

Base Dimension	15.7" x 11.1" (400mm x 283mm)
Weight	430 lb (195 kg)

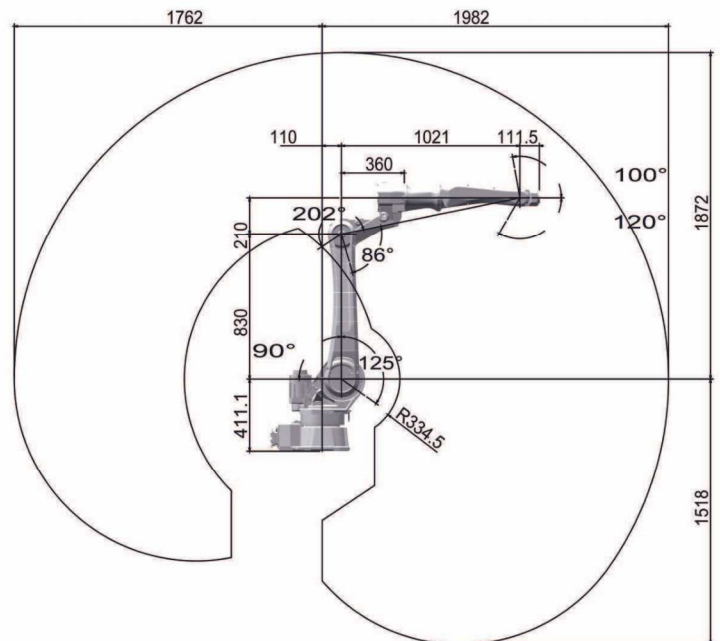


Movement

Axis	Working Range	Max Speed
J 1	-180° to +180°	165°/s
J 2	-125° to +90°	155°/s
J 3	-86° to +202°	216°/s
J 4	-170° to +170°	317°/s
J 5	-120° to +100°	309°/s
J 6	-540° to +540°	925°/s

OPTIONS

- External Axes including positioners and tracks
- Paired with FastPendant or FastPendant Pro
- Compatible with multiple brands of welding machines including Miller Invision MPa, Miller XMT Auto-Line and Miller Auto-Continuum
- Pre-assembled welding station cart
- Variety of MIG welding guns
- Robot base risers



* Units of lengths shown above are in mm.

RM 1450/6 HW

Robotic Arm

Specification

Number of axis	6
Working Range	57.2" (1453 mm)
Rated Payload	13.3 lb (6 kg)
Repeatability	±0.002 in (±0.05 mm)
Mounting position	Floor, Wall & Overhead

Protection

Protection Rating	IP 65
-------------------	-------

Controller

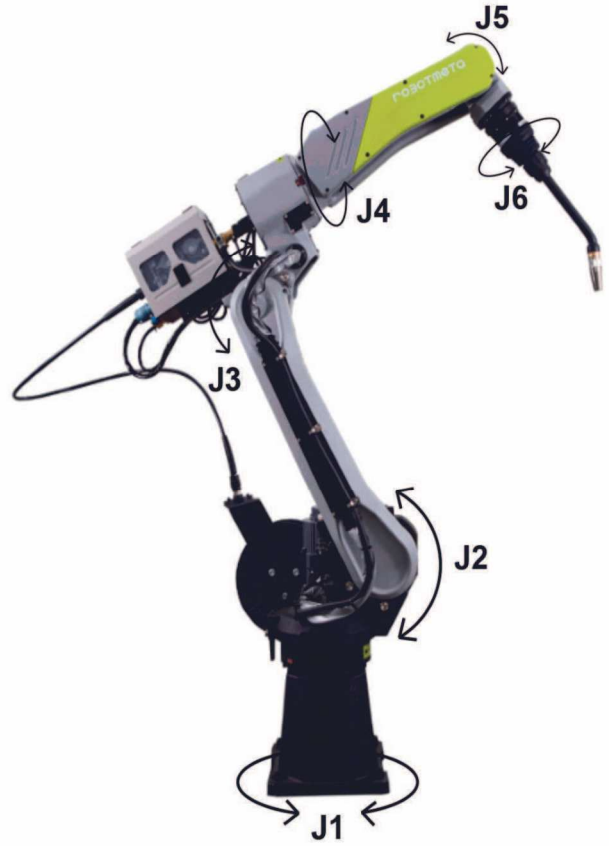
Controller	RMC 201 / 203
------------	---------------

Electrical Connections

Supply Voltage	220 V
Avg. Power Consumption	3 kwh

Physical

Base Dimension	11.7" x 11.3" (298mm x 286mm)
Weight	287 lb (130 kg)

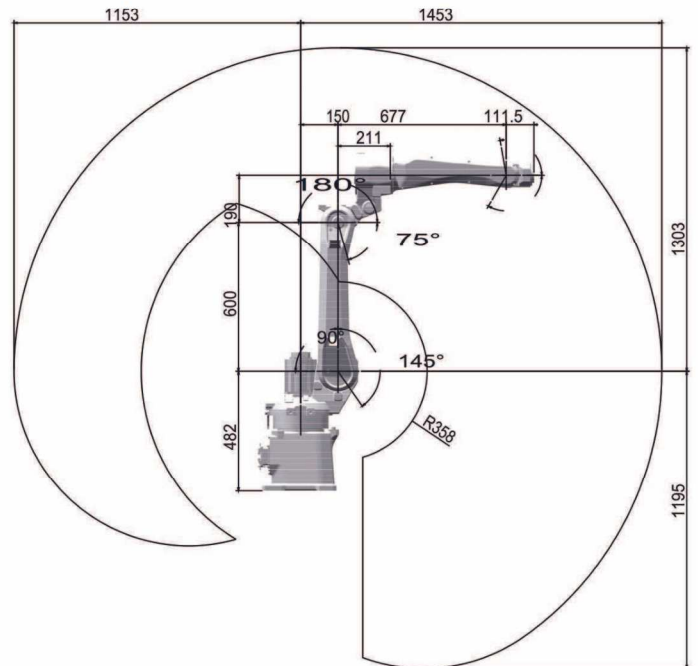


Movement

Axis	Working Range	Max Speed
J 1	-180° to +180°	167°/s
J 2	-145° to +90°	155°/s
J 3	-90° to +180°	357°/s
J 4	-170° to +170°	317°/s
J 5	-120° to +120°	317°/s
J 6	-540° to +540°	925°/s

OPTIONS

- External Axes including positioners and tracks
- Paired with FastPendant or FastPendant Pro
- Compatible with multiple brands of welding machines including Miller Invision MPa, Miller XMT Auto-Line and Miller Auto-Continuum
- Pre-assembled welding station cart
- Variety of MIG welding guns
- Robot base risers



* Units of lengths shown above are in mm.

RM 1500/10

Robotic Arm

Specification

Number of axis	6
Working Range	59.1" (1500 mm)
Rated Payload	22.0 lb (10 kg)
Repeatability	±0.003 in (±0.08 mm)
Mounting position	Floor, Wall & Overhead

Protection

Protection Rating	IP 54
-------------------	-------

Controller

Controller	RMC 203
------------	---------

Electrical Connections

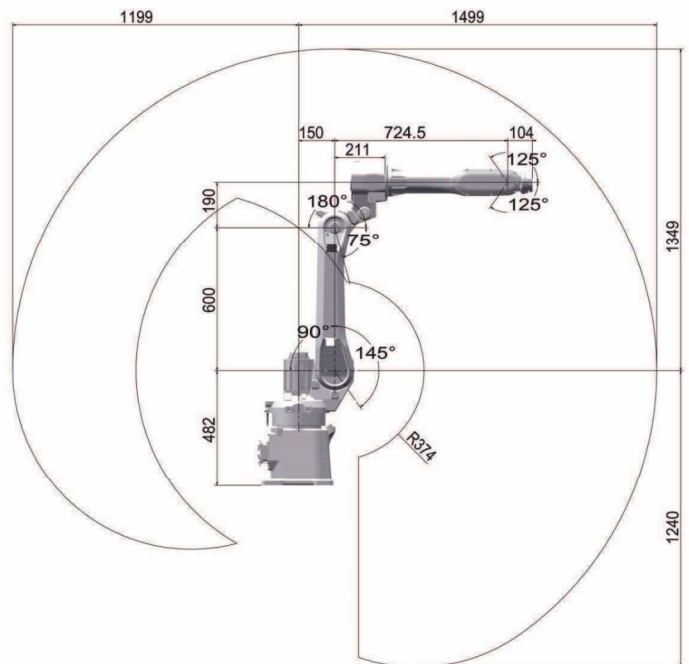
Supply Voltage	220 V
Avg. Power Consumption	3 kwh

Physical

Base Dimension	11.7" x 11.3" (298mm x 286mm)
Weight	313 lb (142 kg)

Movement

Axis	Working Range	Max Speed
J 1	-180° to +180°	167°/s
J 2	-145° to +90°	155°/s
J 3	-80° to +180°	216°/s
J 4	-170° to +170°	317°/s
J 5	-110° to +110°	309°/s
J 6	-360° to +360°	309°/s



* Units of lengths shown above are in mm.

RM 1800/25 (Robotic Laser Welding)

Robotic Arm

Specification

Number of axis	6
Working Range	71.2" (1808 mm)
Rated Payload	55.1 lb (25 kg)
Repeatability	±0.003 in (±0.08 mm)
Mounting position	Floor, Wall & Overhead

Protection

Protection Rating	IP 67
-------------------	-------

Controller

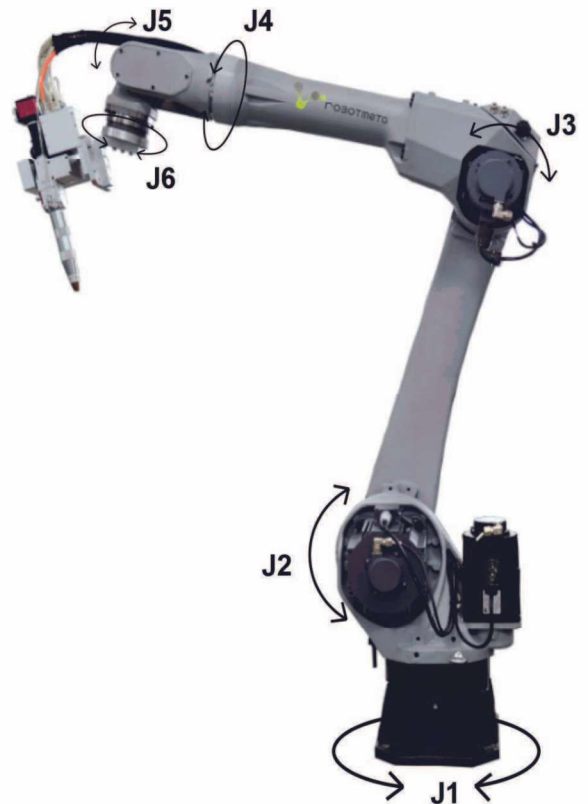
Controller	RMC 203
------------	---------

Electrical Connections

Supply Voltage	220 V
Avg. Power Consumption	3 kwh

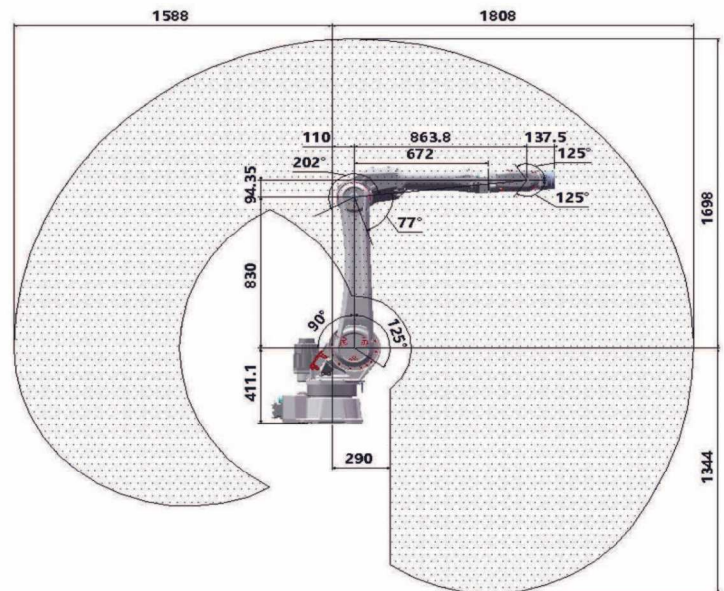
Physical

Base Dimension	11.7" x 11.3" (298mm x 286mm)
Weight	436.5 lb (198 kg)



Movement

Axis	Working Range	Max Speed
J 1	-180° to +180°	175°/s
J 2	-125° to +90°	162°/s
J 3	-77° to +202°	173°/s
J 4	-180° to +180°	417°/s
J 5	-125° to +125°	336°/s
J 6	-360° to +360°	456°/s



* Units of lengths shown above are in mm.

RMC 201

Programmable Logic Controller (PLC)

Hardware

4-core processor
 RAM: 2GB
 Flash disk for mass storage: 12GB
 USB drive connector
 EtherCAT fieldbus

Operation System

Senou Lite

Safety

Emergency Stop and Servo Braking
 Guardrail switch
 Anti-collision for welding torches
 EtherCAT fieldbus

Error Detection

Error detection for emergency stop, servo error, torch collision, arc start interruption, movement path, over-speed, etc.

Motion Capabilities

Point-to-point (joint motion), straight line, circular

Programming

Movement, Logic, Applications & Process, Arithmetic

External Axis

Options including varieties of tracks & positioners

Communication (Master Control Unit)

EtherCAT	3 in total (1 available for external devices)
CAN	1 reserved
Digital Input	8 in total (4 available for external devices)
Digital Output	12 in total (6 available for external devices)
Analog Output	2 (0 - 10V), occupied by welding power source



Application

MIG / MAG Welding	Built-in with MIG & MAG power source
	Ending arc / crater arc
	Individual welding parameter for each path Seam tracking thru welding arc (external sensor required)
Laser Welding	Standard

Electrical

Input Power	AC 3 Phase 480/600V
-------------	---------------------

Physical

Size (W x D x H)	21.6" x 16.9" x 28.0" (550 mm x 430 mm x 710mm)
Weight	59.5lb (27 kg)

RMC 203

Programmable Logic Controller (PLC)

Hardware

4-core processor
RAM: 2GB
Flash disk for mass storage: 12GB
USB drive connector
EtherCAT fieldbus

Operation System

Senou Lite

Safety

Emergency Stop and Servo Braking
Guardrail switch
Anti-collision for welding torches

Error Detection

Error detection for emergency stop, servo error, torch collision, arc start interruption, movement path, over-speed, etc.

Motion Capabilities

Point-to-point (joint motion), straight line, circular
--

Programming

Movement, Logic, Applications & Process, Arithmetic

External Axis

Options including varieties of tracks & positioners

Communication (Master Control Unit)

EtherCAT	3 in total (1 available for external devices)
CAN	1 reserved
Digital Input	8 in total (4 available for external devices)
Digital Output	12 in total (6 available for external devices)
Analog Output	2 (0 - 10V), occupied by welding power source

Additional I/O Unit

Digital Input	16 available for external devices
Digital Output	16 available for external devices
Communication for Robotic Laser Welding (available upon request)	



Application

MIG / MAG Welding	Built-in with MIG & MAG power source
	Ending arc / crater arc
	Individual welding parameter for each path
Laser Welding	Seam tracking thru welding arc (external sensor required)
	Standard

Electrical

Input Power	AC 3 Phase 480/600V
-------------	---------------------

Physical

Size (W x D x H)	21.6" x 21.3" x 28.0" (550 mm x 542 mm x 710mm)
Weight	98lb (44.5 kg)

FastPendant Teaching Pendant



FastPendant Pro Teaching Pendant



Positioners and Track



U-type Positioner / 1 Axis

Model	U1-250-1800/800	U1-500-1800/800	U1-1000-1800/800	U1-250-2500/800	U1-500-2500/800	U1-1000-2500/800	U1-2000-3000/800	U1-3000-3000/800
Payload (kg)	250	500	1000	250	500	1000	2000	3000
Height (mm)	650						950	
Frame Size (mm)	1800X1800			2500X800			3000X800	
Rotating Speed (°/s)	78	78	74	78	78	74	64.5	22.6



Turn-table / 1 Axis

Model	TT1-250-400	TT1-500-400	TT1-750-400
Payload (kg)	250	250	750
Frame Size (mm)	400		
Rotating Speed (°/s)	76.4	67.8	45.3



L-type Positioner/ Axis

Model	L1-250-400	L1-500-400	L1-1000-800	L1-2000-800
Payload (kg)	250	500	1000	2000
Frame Size (mm)	400		800	
Rotating Speed (°/s)	67.7	45	12.6	11.66



P-Type Positioner / 2 Axis

Model	P2-250-800	P2-500-800
Payload (kg)	250	500
Frame Size (mm)	800	
Rotating Speed (°/s)-Flipping Axis	78	45
Rotating Speed (°/s)-Rotating Axis	76.4	67.7



LU-type Positioner / 2 Axis

Model	LU2-2500-1800/800	LU2-500-1800/800	LU2-1000-1800-800	LU2-2000-1800/800
Payload (kg)	250	500	1000	2000
Frame Size (mm)	1800X800			
Rotating Speed (°/s)-Flipping Axis	42.7	12.5	12.5	11.6
Rotating Speed (°/s)	78	78	70	64.9

Positioners and Track



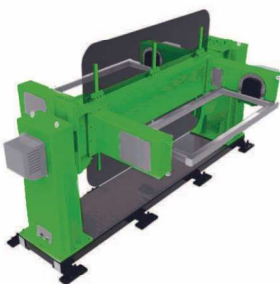
UT-type Positioner / 2 Axis

Model	UT2-250-1200	UT2-500-1200	UT2-250-1400	UT2-500-1400	UT2-1000-1500	UT2-1000-1600
Payload (kg)	250	500	250	500	1000	1000
Table diameter (mm)	1200		1400		1500	1600
Rotating Speed (°/s)-Flipping Axis			45		42	
Rotating Speed (°/s)-Rotating Axis			67.7		42	



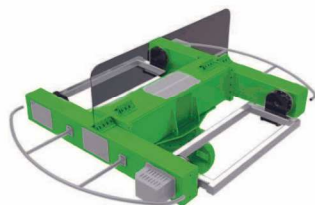
L-type Positioner / 2 Axis

Model	L2-250-800	L2-500-800	L2-1000-800	L2-2000-800
Payload (kg)	250	500	1000	2000
Table diameter (mm)	800		1200	
Rotating Speed (°/s)-Flipping Axis	45.3	42	12.6	11.6
Rotating Speed (°/s)-Rotating Axis	76.4	67.8	42.7	24.5



U-type Positioner / 3 Axis

Model	U3-250-1800/800	U3-500-1800/800	U3-1000-1800/800	U3-250-2500/800	U3-500-2500/800	U3-1000-2500/800
Payload (kg)	250	500	1000	250	500	1000
Frame Size (mm)	1800X800			2500X800		
Rotating Speed (°/s)-Flipping Axis	64	64	22.6	64	64	22.6
Rotating Speed (°/s)-Rotating Axis	78	78	70	78	78	70



Horizontal Rotating Positioner / 3 Axis

Model	HRU3-250-1800/800	HRU3-500-1800/800	HRU3-1000-1800/800	HRU3-250-2500/800	HRU3-500-2500/800	HRU3-1000-2500/800
Payload (kg)	250	500	1000	250	500	1000
Frame Size (mm)	1800X800			2500X800		
Rotating Speed (°/s)-Flipping Axis	78	78	74.5	78	78	74.5
Rotating Speed (°/s)-Rotating Axis	42	24.5	11.6	42	24.5	11.6



Track / Axis 1

Model	R1-500	R1-1000	R1-2000
Payload (kg)	500	1000	2000
Effective working length	1. Effective working length is 3m for 4m rail module, including base but without cover. 2. Effective working length is 5m for 6m rail module, including base but without cover. 3. Effective working length decreases by 20% if cover is added.	1. Effective working length is 2.5m for 4m rail module, including base but without cover. 2. Effective working length is 4.5m for 6m rail module, including base but without cover. 3. Effective working length decreases by 20% if cover is added.	1. Effective working length is 2.5m for 4m rail module, including base but without cover. 2. Effective working length is 4.5m for 6m rail module, including base but without cover. 3. Effective working length decreases by 20% if cover is added.
Maximum moving speed (mm/s)	800	500	500



(604) 579-1416



info@weldmatic.ca



weldmatic.ca



Unit 106 - 5290 185a St, Surrey, BC, Canada V3S 7A4

WELDMATIC AUTOMATION INC.

