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Kawasaki Robotics website

<https://robotics.kawasaki.com/>



Kawasaki Robotics brand site XYZ

<https://robotics.kawasaki.com/ja1/xyz/en/>



Kawasaki Robostage (showroom)

<https://robotics.kawasaki.com/ja1/robostage/en.html>



Kawasaki Robot

Arc Welding Robots

Small-to-medium robots
up to 80kg payload

Large robots
up to 300kg payload

Extra large robots
up to 1,500kg payload

Dual-arm Collaborative robots

Explosion-proof painting robots

Sealing robots

Arc welding robots

Palletizing robots

Medical & pharmaceutical robots

Picking robots

Wafer transfer robots

Global Network

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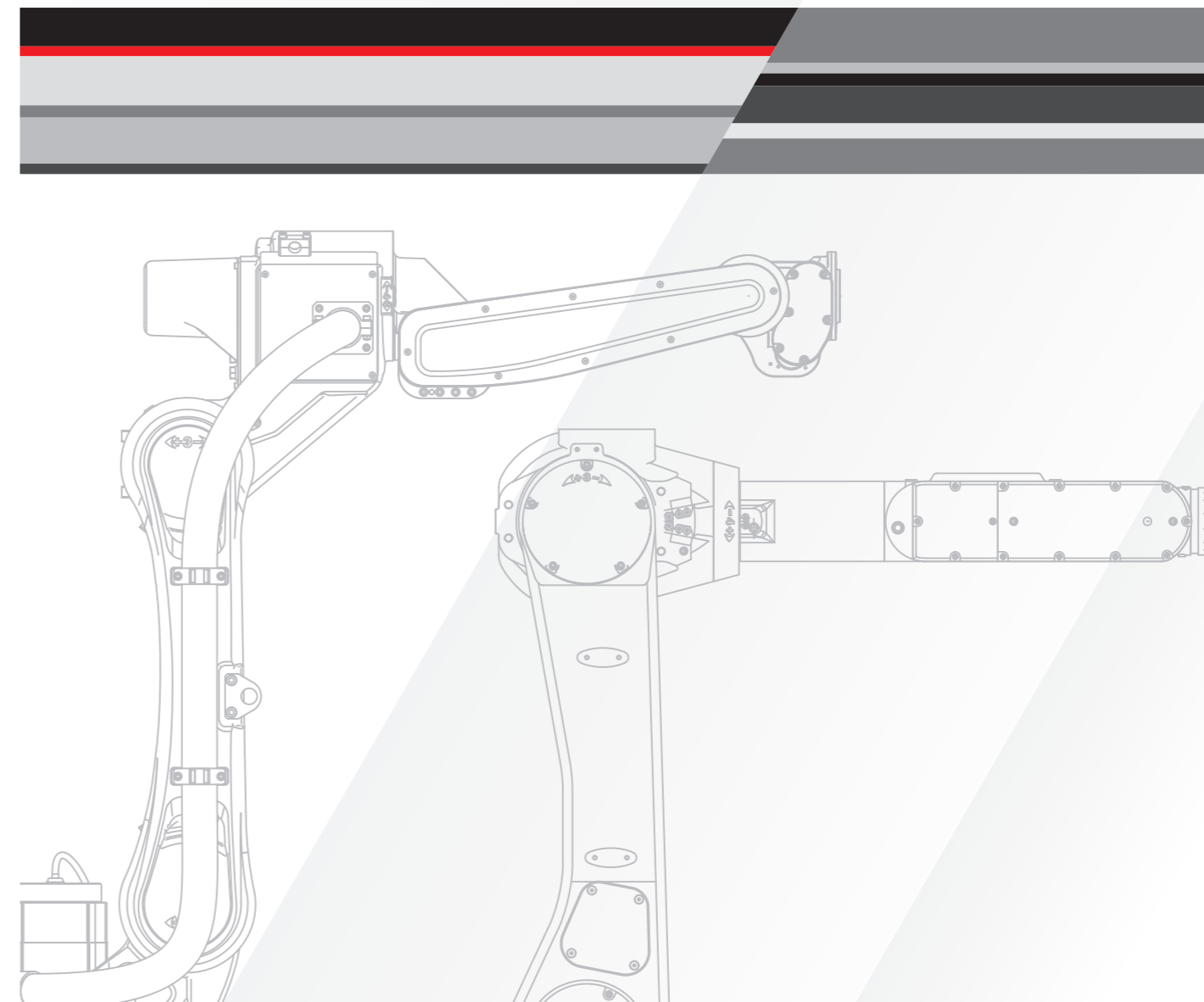


CAUTIONS TO BE TAKEN TO ENSURE SAFETY

- For those persons involved with the operation / service of your system, including Kawasaki Robot, they must strictly observe all safety regulations at all times. They should carefully read the Manuals and other related safety documents.
- Products described in this catalogue are general industrial robots. Therefore, if a customer wishes to use the Robot for special purposes, which might endanger operators or if the Robot has any problems, please contact us. We will be pleased to help you.
- Be careful as Photographs illustrated in this catalogue are frequently taken after removing safety fences and other safety devices stipulated in the safety regulations from the Robot operation system.



ISO certified in Akashi Works and Nishi-Kobe Works.



Arc Welding Robots

Kawasaki arc welding robots offer simple and friendly operations. They can be installed with ease thanks to one-cable connection between the robot and the welding equipment. Many hardware and software options are available, which support high quality arc welding.

BA series

The hollow arm enables hoses and cables to be installed inside the arm. It prevents interference with peripheral equipment and shortens off-line teaching time.

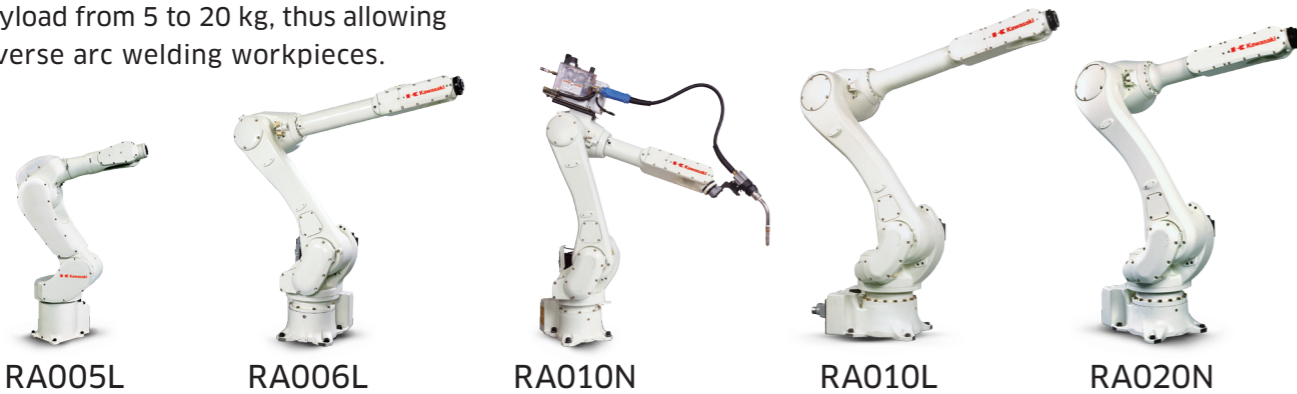


BA006N

BA006L

RA series

The RA series covers a wide range of payload from 5 to 20 kg, thus allowing diverse arc welding workpieces.



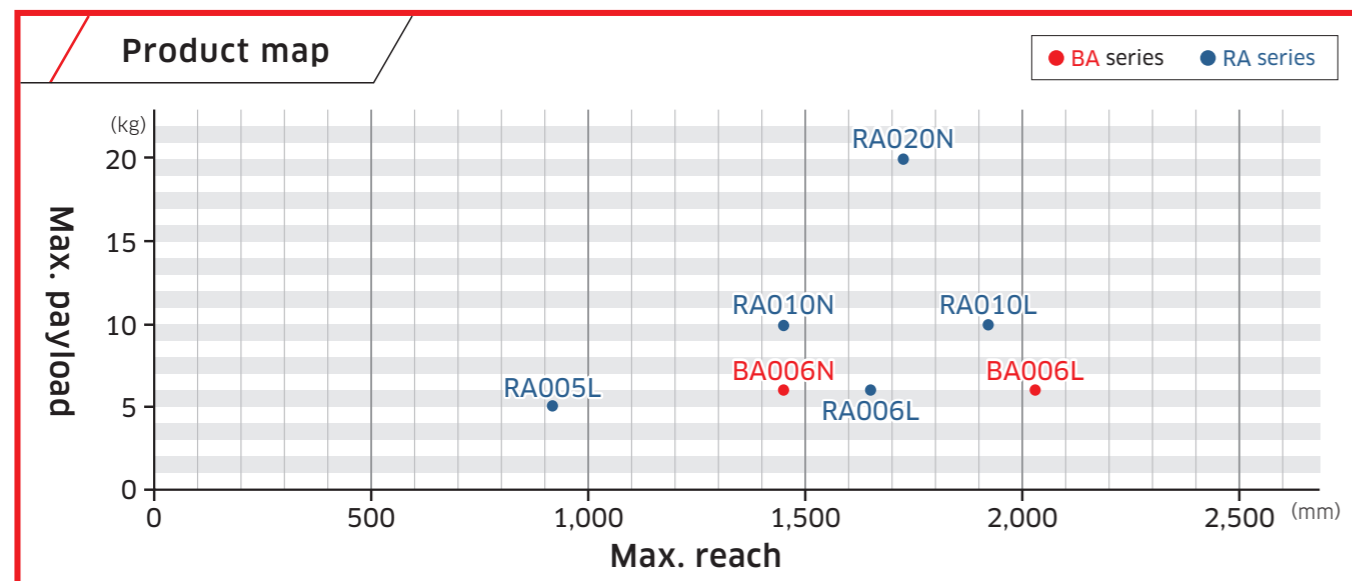
RA005L

RA006L

RA010N

RA010L

RA020N



BA series

[Applications] Arc welding

Features

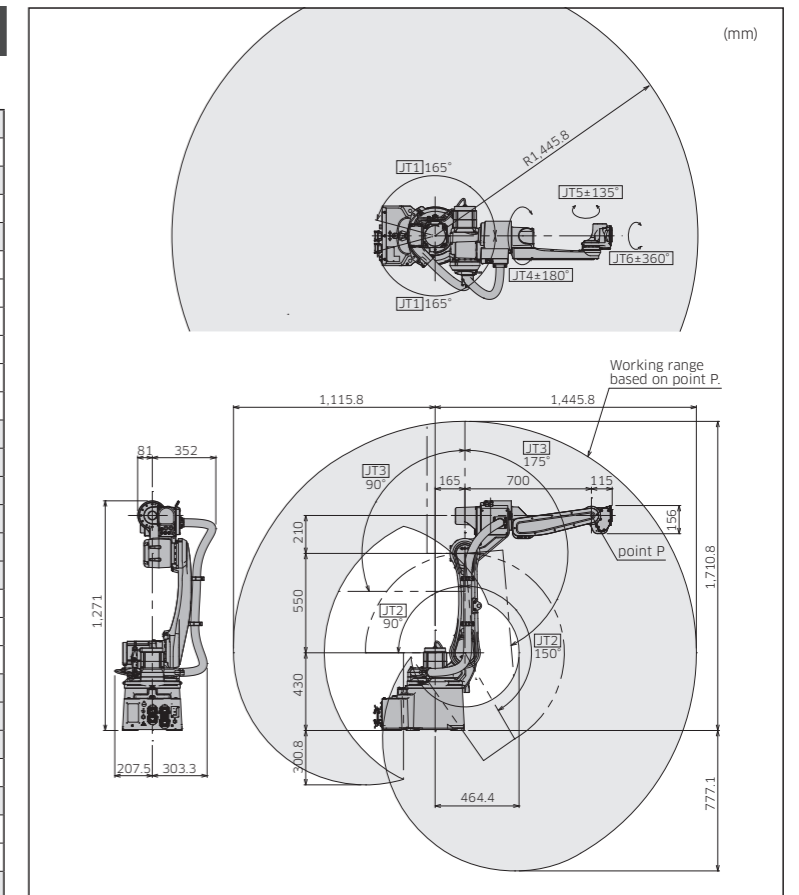
- Built-in cables
- Connection with a single cable between robot and welder.

BA006N

Standard Specifications

Type		Articulated robot
Degree of freedom (axes)		6
Payload (kg)		6
Max. reach (mm)		1,445
Position repeatability*1 (mm)		±0.06
Motion range (°)	Arm rotation (JT1)	±165
	Arm out-in (JT2)	+150 - -90
	Arm up-down (JT3)	+90 - -175
	Wrist swivel (JT4)	±180
	Wrist bend (JT5)	±135
	Wrist twist (JT6)	±360
Max. speed (°/s)	Arm rotation (JT1)	240
	Arm out-in (JT2)	240
	Arm up-down (JT3)	220
	Wrist swivel (JT4)	430
	Wrist bend (JT5)	430
	Wrist twist (JT6)	650
Allowable moment (N·m)	Wrist swivel (JT4)	12
	Wrist bend (JT5)	12
	Wrist twist (JT6)	3.75
Allowable moment of inertia (kg·m ²)	Wrist swivel (JT4)	0.4
	Wrist bend (JT5)	0.4
	Wrist twist (JT6)	0.07
Mass (kg)		150
Mounting		Floor, Ceiling
Installation environment	Ambient temperature (°C)	0 - 45
	Relative humidity (%)	35 - 85 (No dew, nor frost allowed)
Controller/Power requirements		F60/2.0kVA, E01/5.6kVA

*1: Conforms to ISO9283

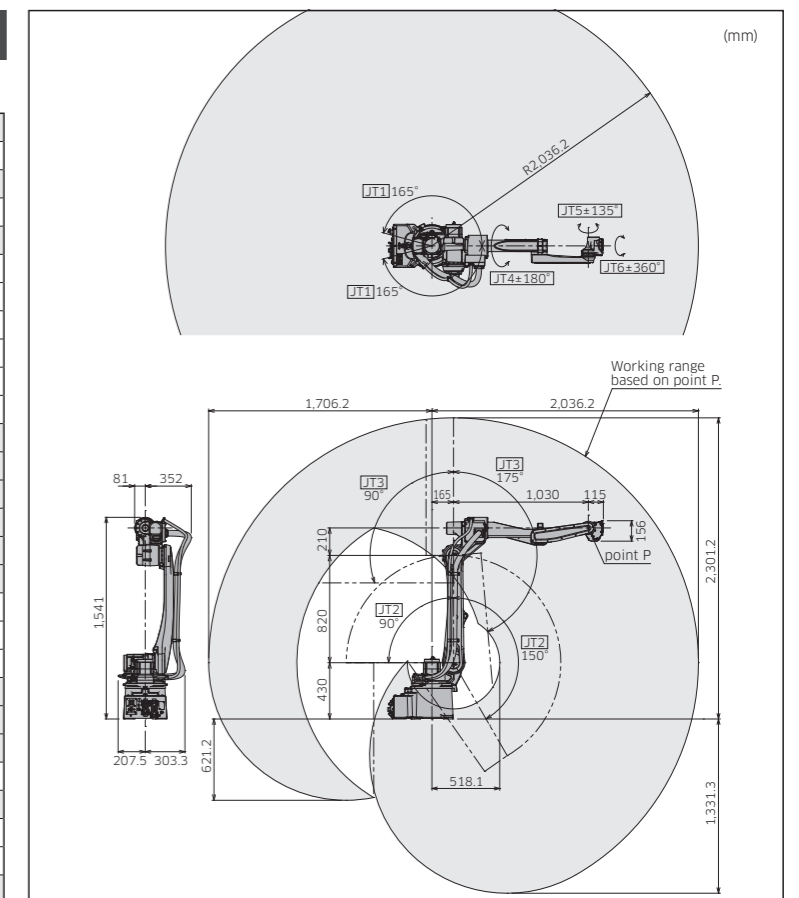


BA006L

Standard Specifications

Type		Articulated robot
Degree of freedom (axes)		6
Payload (kg)		6
Max. reach (mm)		2,036
Position repeatability*1 (mm)		±0.08
Motion range (°)	Arm rotation (JT1)	±165
	Arm out-in (JT2)	+150 - -90
	Arm up-down (JT3)	+90 - -175
	Wrist swivel (JT4)	±180
	Wrist bend (JT5)	±135
	Wrist twist (JT6)	±360
Max. speed (°/s)	Arm rotation (JT1)	210
	Arm out-in (JT2)	210
	Arm up-down (JT3)	220
	Wrist swivel (JT4)	430
	Wrist bend (JT5)	430
	Wrist twist (JT6)	650
Allowable moment (N·m)	Wrist swivel (JT4)	12
	Wrist bend (JT5)	12
	Wrist twist (JT6)	3.75
Allowable moment of inertia (kg·m ²)	Wrist swivel (JT4)	0.4
	Wrist bend (JT5)	0.4
	Wrist twist (JT6)	0.07
Mass (kg)		160
Mounting		Floor, Ceiling
Installation environment	Ambient temperature (°C)	0 - 45
	Relative humidity (%)	35 - 85 (No dew, nor frost allowed)
Controller/Power requirements		F60/2.0kVA, E01/5.6kVA

*1: Conforms to ISO9283



Features

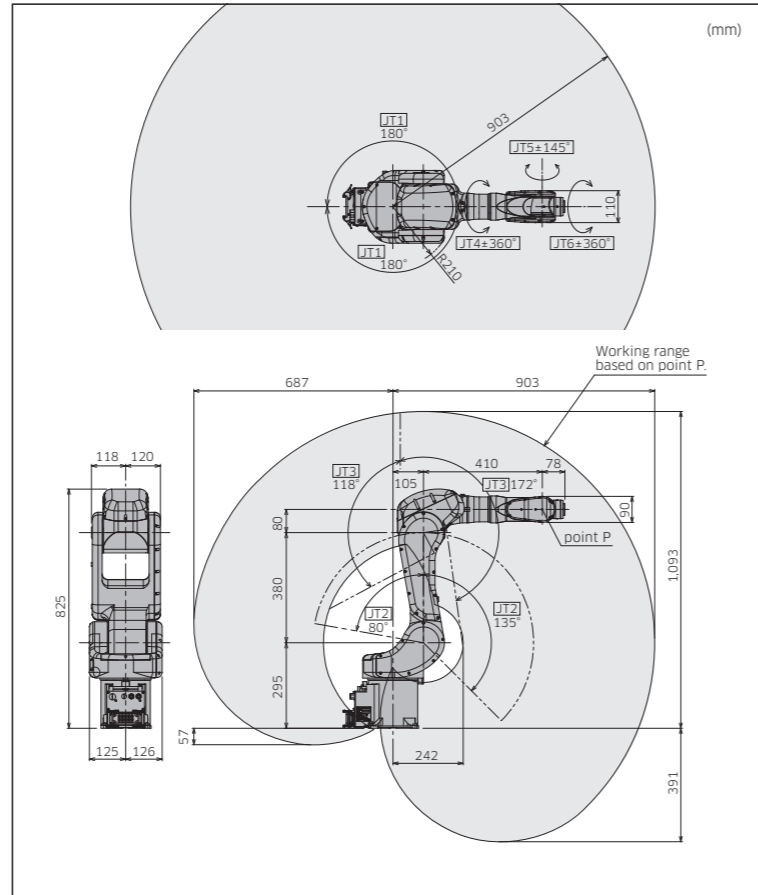
- Wide range of lineup to cover diverse size of parts.
- Connection with a single cable between the robot and the welder.

RA005L

Standard Specifications

Type	Articulated robot	
Degree of freedom (axes)	6	
Payload (kg)	5	
Max. reach (mm)	903	
Position repeatability*1 (mm)	±0.03	
Motion range (°)	Arm rotation (JT1)	±180
	Arm out-in (JT2)	+135 - -80
	Arm up-down (JT3)	+118 - -172
	Wrist swivel (JT4)	±360
	Wrist bend (JT5)	±145
	Wrist twist (JT6)	±360
Max. speed (°/s)	Arm rotation (JT1)	300
	Arm out-in (JT2)	300
	Arm up-down (JT3)	300
	Wrist swivel (JT4)	460
	Wrist bend (JT5)	460
	Wrist twist (JT6)	740
Allowable moment (N·m)	Wrist swivel (JT4)	12.3
	Wrist bend (JT5)	12.3
	Wrist twist (JT6)	7
Allowable moment of inertia (kg·m ²)	Wrist swivel (JT4)	0.4
	Wrist bend (JT5)	0.4
	Wrist twist (JT6)	0.12
Mass (kg)	37	
Mounting	Floor, Ceiling	
Installation environment	Ambient temperature (°C)	0 - 45
	Relative humidity (%)	35 - 85 (No dew, nor frost allowed)
Controller/Power requirements	F60/2.0kVA	

*1: Conforms to ISO9283

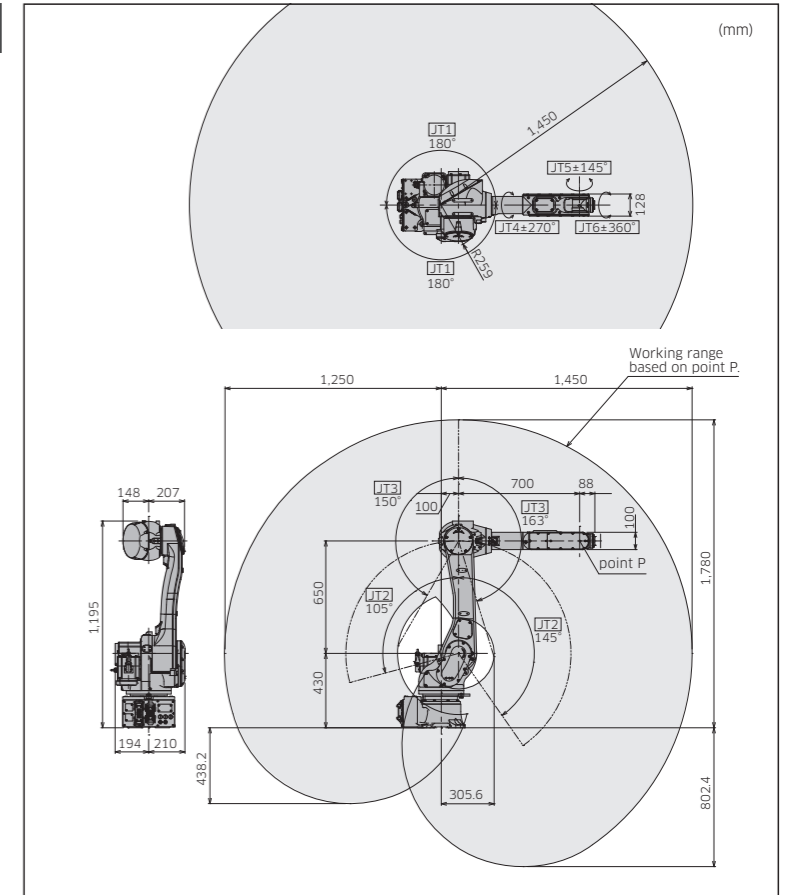


RA010N

Standard Specifications

Type	Articulated robot	
Degree of freedom (axes)	6	
Payload (kg)	10	
Max. reach (mm)	1,450	
Position repeatability*1 (mm)	±0.03	
Motion range (°)	Arm rotation (JT1)	±180
	Arm out-in (JT2)	+145 - -105
	Arm up-down (JT3)	+150 - -163
	Wrist swivel (JT4)	±270
	Wrist bend (JT5)	±145
	Wrist twist (JT6)	±360
Max. speed (°/s)	Arm rotation (JT1)	250
	Arm out-in (JT2)	250
	Arm up-down (JT3)	215
	Wrist swivel (JT4)	365
	Wrist bend (JT5)	380
	Wrist twist (JT6)	700
Allowable moment (N·m)	Wrist swivel (JT4)	22
	Wrist bend (JT5)	22
	Wrist twist (JT6)	10
Allowable moment of inertia (kg·m ²)	Wrist swivel (JT4)	0.7
	Wrist bend (JT5)	0.7
	Wrist twist (JT6)	0.2
Mass (kg)	150	
Mounting	Floor, Ceiling	
Installation environment	Ambient temperature (°C)	0 - 45
	Relative humidity (%)	35 - 85 (No dew, nor frost allowed)
Controller/Power requirements	F60/2.0kVA, E01/5.6kVA	

*1: Conforms to ISO9283

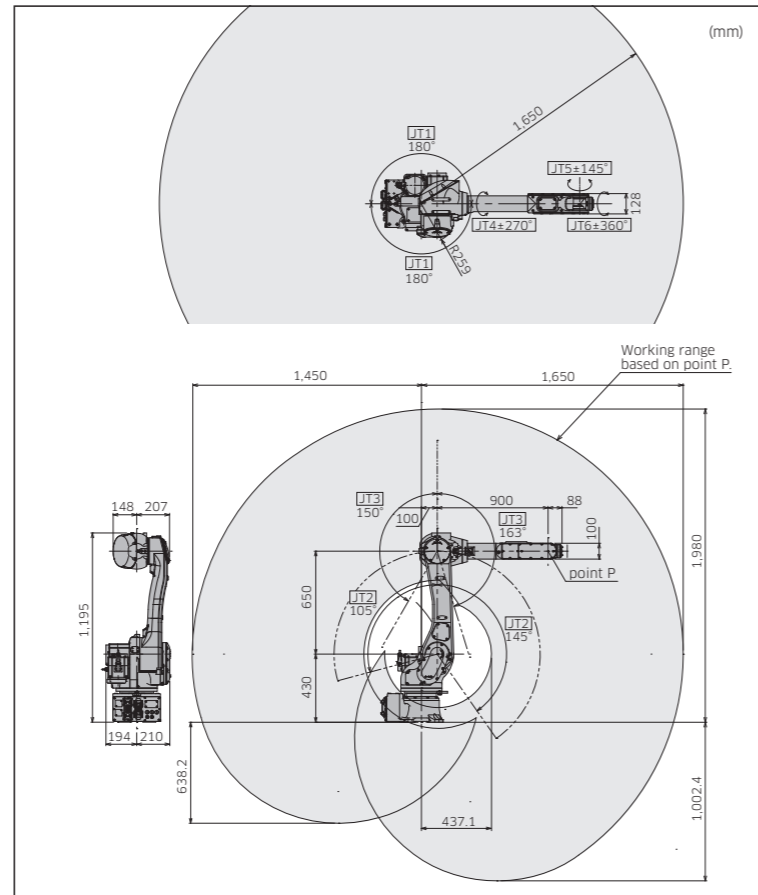


RA006L

Standard Specifications

Type	Articulated robot	
Degree of freedom (axes)	6	
Payload (kg)	6	
Max. reach (mm)	1,650	
Position repeatability*1 (mm)	±0.03	
Motion range (°)	Arm rotation (JT1)	±180
	Arm out-in (JT2)	+145 - -105
	Arm up-down (JT3)	+150 - -163
	Wrist swivel (JT4)	±270
	Wrist bend (JT5)	±145
	Wrist twist (JT6)	±360
Max. speed (°/s)	Arm rotation (JT1)	250
	Arm out-in (JT2)	250
	Arm up-down (JT3)	215
	Wrist swivel (JT4)	365
	Wrist bend (JT5)	380
	Wrist twist (JT6)	700
Allowable moment (N·m)	Wrist swivel (JT4)	13
	Wrist bend (JT5)	13
	Wrist twist (JT6)	7.5
Allowable moment of inertia (kg·m ²)	Wrist swivel (JT4)	0.45
	Wrist bend (JT5)	0.45
	Wrist twist (JT6)	0.14
Mass (kg)	150	
Mounting	Floor, Ceiling	
Installation environment	Ambient temperature (°C)	0 - 45
	Relative humidity (%)	35 - 85 (No dew, nor frost allowed)
Controller/Power requirements	F60/2.0kVA, E01/5.6kVA	

*1: Conforms to ISO9283

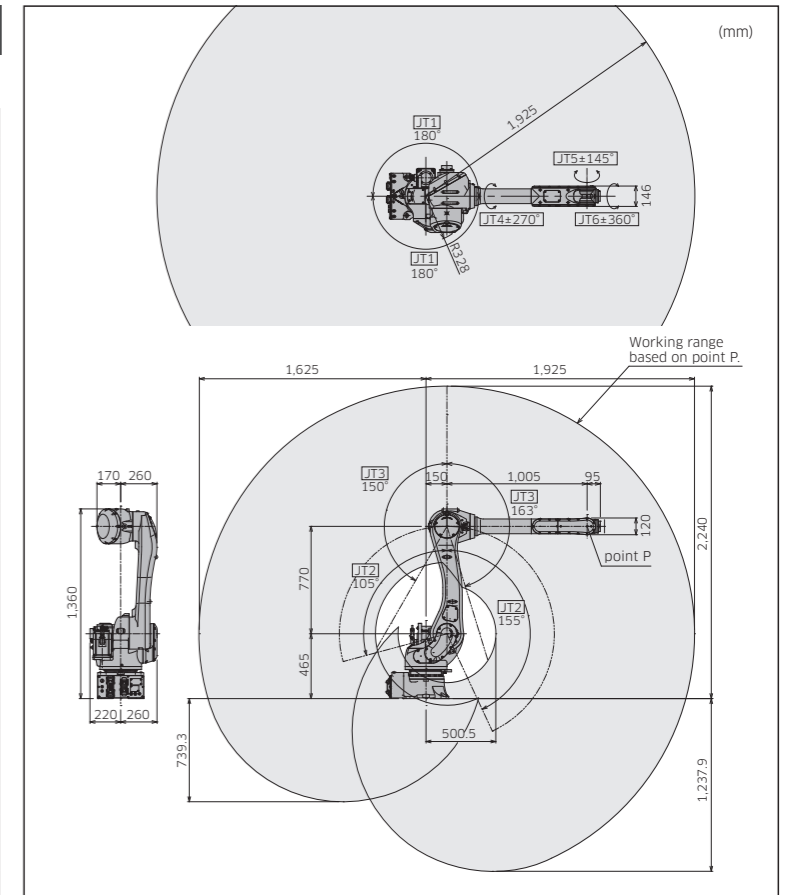


RA010L

Standard Specifications

Type	Articulated robot	
Degree of freedom (axes)	6	
Payload (kg)	10	
Max. reach (mm)	1,925	
Position repeatability*1 (mm)	±0.05	
Motion range (°)	Arm rotation (JT1)	±180
	Arm out-in (JT2)	+155 - -105
	Arm up-down (JT3)	+150 - -163
	Wrist swivel (JT4)	±270
	Wrist bend (JT5)	±145
	Wrist twist (JT6)	±360
Max. speed (°/s)	Arm rotation (JT1)	190
	Arm out-in (JT2)	205
	Arm up-down (JT3)	210
	Wrist swivel (JT4)	400
	Wrist bend (JT5)	360
	Wrist twist (JT6)	610
Allowable moment (N·m)	Wrist swivel (JT4)	22
	Wrist bend (JT5)	22
	Wrist twist (JT6)	10
Allowable moment of inertia (kg·m ²)	Wrist swivel (JT4)	0.7
	Wrist bend (JT5)	0.7
	Wrist twist (JT6)	0.2
Mass (kg)	230	
Mounting	Floor, Ceiling	
Installation environment	Ambient temperature (°C)	0 - 45
	Relative humidity (%)	35 - 85 (No dew, nor frost allowed)
Controller/Power requirements	E01/5.6kVA	

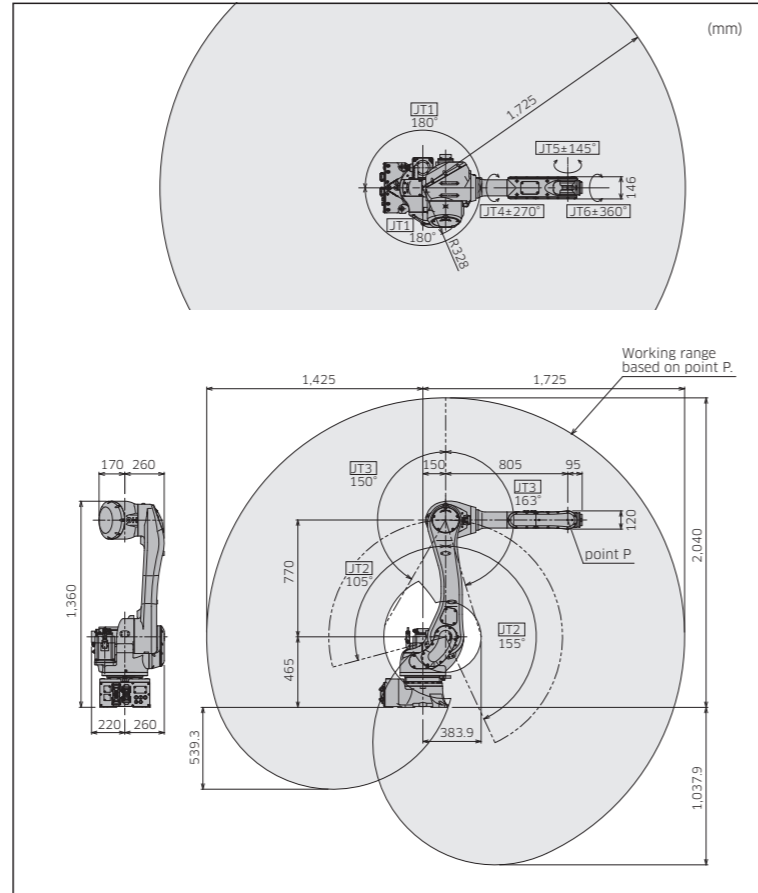
*1: Conforms to ISO9283



RA020N

Standard Specifications

Type		Articulated robot
Degree of freedom (axes)		6
Payload (kg)		20
Max. reach (mm)		1,725
Position repeatability*1 (mm)		±0.04
Motion range (°)	Arm rotation (JT1)	±180
	Arm out-in (JT2)	+155 - -105
	Arm up-down (JT3)	+150 - -163
	Wrist swivel (JT4)	±270
	Wrist bend (JT5)	±145
	Wrist twist (JT6)	±360
Max. speed (°/s)	Arm rotation (JT1)	190
	Arm out-in (JT2)	205
	Arm up-down (JT3)	210
	Wrist swivel (JT4)	400
	Wrist bend (JT5)	360
	Wrist twist (JT6)	610
Allowable moment (N·m)	Wrist swivel (JT4)	45
	Wrist bend (JT5)	45
	Wrist twist (JT6)	29
Allowable moment of inertia (kg·m ²)	Wrist swivel (JT4)	0.9
	Wrist bend (JT5)	0.9
	Wrist twist (JT6)	0.3
Mass (kg)		230
Mounting		Floor, Ceiling
Installation environment	Ambient temperature (°C)	0 - 45
	Relative humidity (%)	35 - 85 (No dew, nor frost allowed)
Controller/Power requirements		E01/5.6kVA



*1: conforms to ISO9283

E01

Features

- Universal controller has common specifications to be used worldwide.
- Dimensions and weight have been reduced from the previous controller.

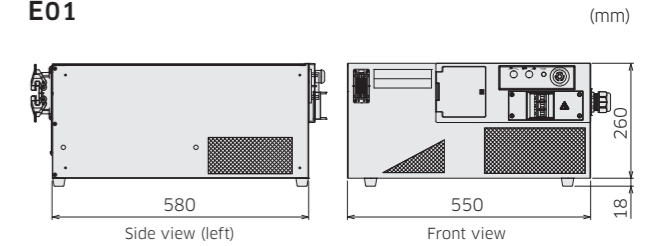
Standard Specifications

Dimensions (mm)		W550×D580×H278
Type		Enclosed type direct cooling system
Controlled (axes)		7
Memory capacity (MB)		8
I/O signals	External operation	Motor power off, Hold
	Input (Channels)	32
Cable length	Output (Channels)	32
	Teach pendant (m)	5
Mass (kg)	Robot-controller (m)	5
	40	
Power requirements		AC200 - AC220V ±10%, 50/60Hz, 3Φ Max. 5.6kVA
Installation environment	Ambient temperature (°C)	0 - 45
	Relative humidity (%)	35 - 85 (No dew, nor frost allowed)
Teach pendant		Color LCD display with touch-panel, E-Stop switch, teach lock switch, Enable switch
Operation panel		E-stop switch, teach/repeat switch, control power lamp

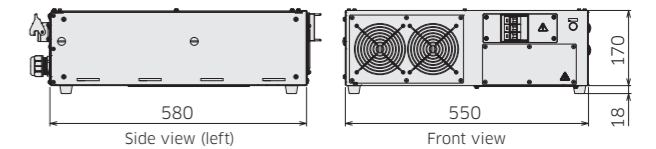


External view and dimensions

E01



Transformer unit *Option



F60

Features

- Universal controller has common specifications to be used worldwide.
- Drastic downsizing has achieved very compact dimensions and light weight (8.3kg). It is easy for a person to carry the controller.

Standard Specifications

Dimensions (mm)		W300×D320×H130
Type		Open type indirect cooling system
Controlled (axes)		6
Memory capacity (MB)		16
I/O signals	External operation	Motor power off, Hold
	Input (Channels)	16
Cable length	Output (Channels)	16
	Teach pendant (m)	5
Mass (kg)	Robot-controller (m)	5
	8.3	
Power requirements		AC200 - AC230V ±10%, 50/60Hz, 1Φ Max. 2.0kVA
Installation environment	Ambient temperature (°C)	0 - 45
	Relative humidity (%)	35 - 85 (No dew, nor frost allowed)
Teach pendant		Color LCD display with touch-panel, E-Stop switch, teach lock switch, Enable switch
Operation panel		E-stop switch, teach/repeat switch, control power lamp



External view and dimensions

F60

