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Kawasaki Robotics website

<https://kawasakirobotics.com/>



Kawasaki Robotics brand site XYZ

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



Kawasaki Robostage (showroom)

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



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.

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

Explosion-proof painting robots

Sealing robots

Arc welding robots

Palletizing robots

Medical & pharmaceutical robots

Delta robots

Wafer transfer robots

Collaborative robots

Arc Welding Robots

Kawasaki's arc welding robots use state-of-the-art technology to match the quality of a skilled welder, featuring a single cable connection, welding condition database, real-time path modification, and standard start sequences for a user-friendly experience.

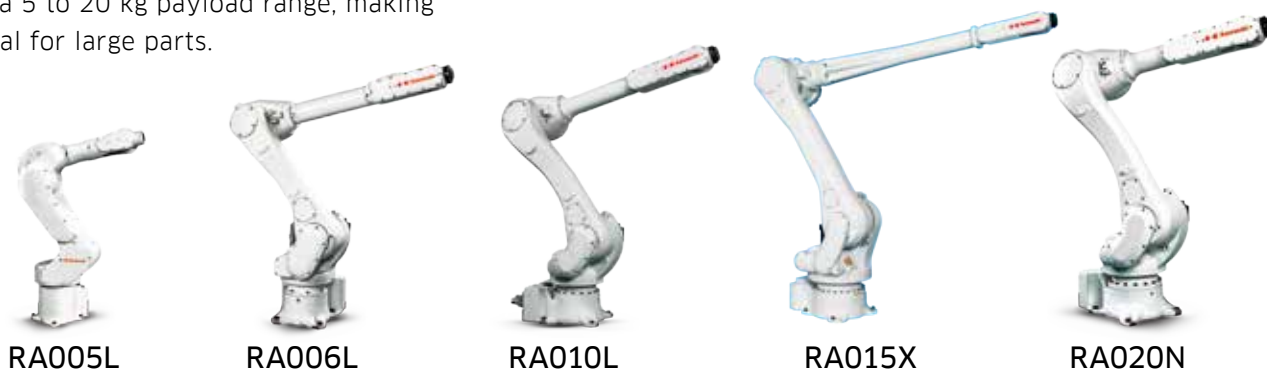
BA series

The hollow-arm structure enables through-arm cable routing, preventing interference with peripheral equipment and reducing off-line programming.

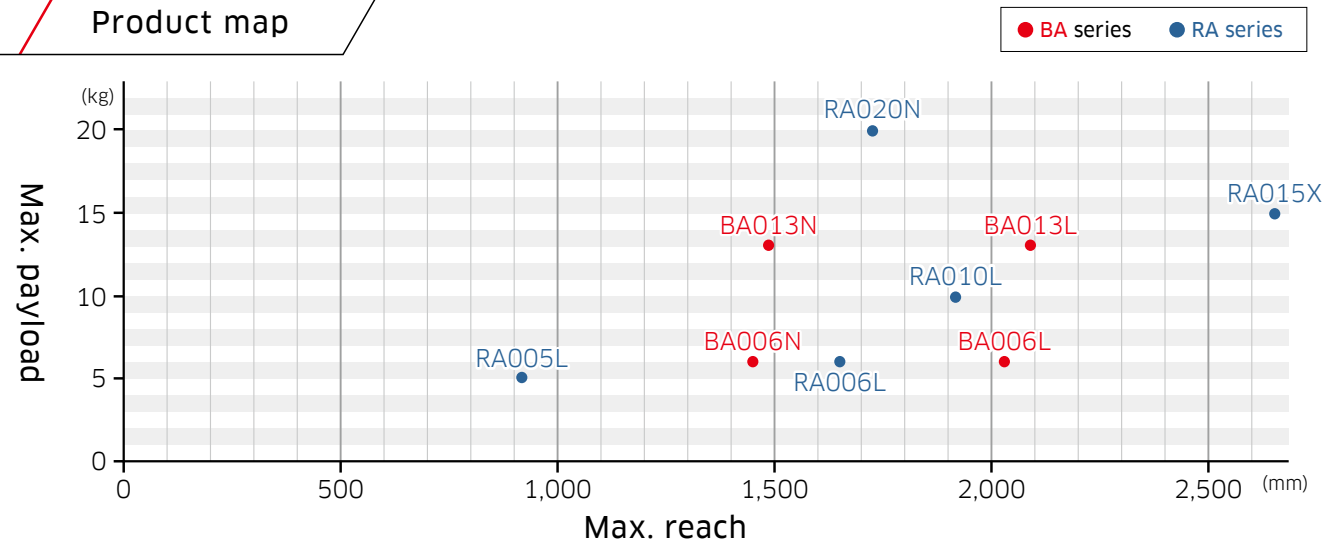


RA series

The RA Series combines extended reach with a 5 to 20 kg payload range, making it ideal for large parts.



Product map



BA series

[Applications]



Arc welding

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·m²)	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, F01/5.6kVA	

*1: Conforms to ISO9283

BA006L

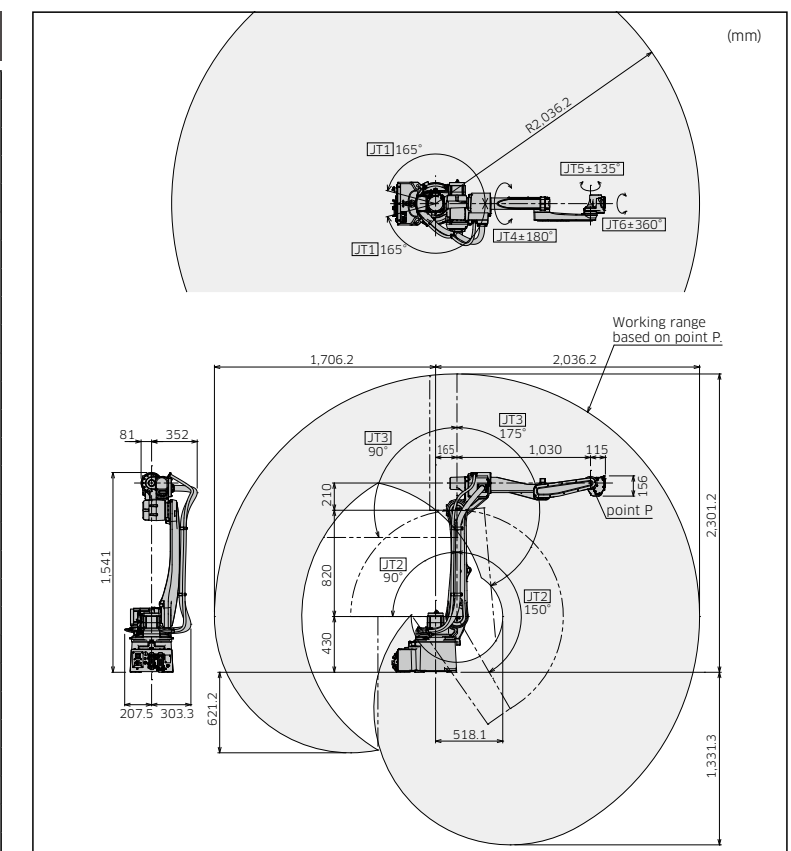
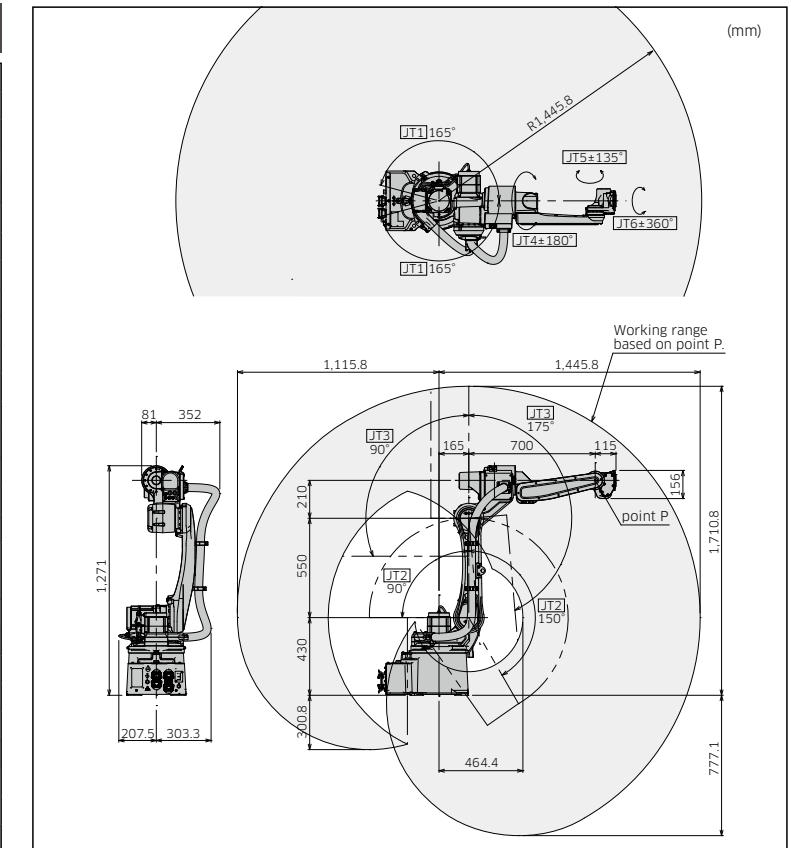
Standard Specifications

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·m²)	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, F01/5.6kVA	

*1: Conforms to ISO9283

Features

- Hollow-arm structure for easy install, maintenance and minimized wear.
- Single-cable connection between the robot and the welding equipment.



Features

- Extended payloads, reach and repeatability.
- Integration packages to all leading welding power supplies.
- Full line of K Positioners & K Tracks.

[Applications]



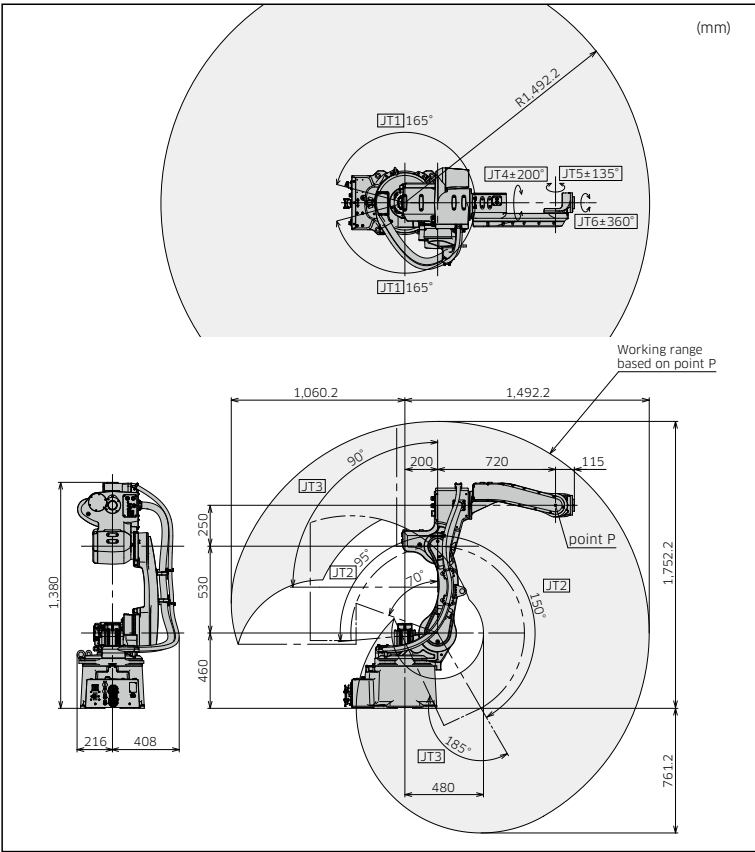
Arc welding

BA013N

Standard Specifications

Type	Articulated robot	
Degree of freedom (axes)	6	
Payload (kg)	13	
Max. reach (mm)	1,492	
Position repeatability*1 (mm)	±0.04	
Motion range (°)	Arm rotation (JT1)	±165
	Arm out-in (JT2)	+150 - -95
	Arm up-down (JT3)	+90 - -185
	Wrist swivel (JT4)	±200
	Wrist bend (JT5)	±135
	Wrist twist (JT6)	±360
Max. speed (°/s)	Arm rotation (JT1)	265
	Arm out-in (JT2)	250
	Arm up-down (JT3)	265
	Wrist swivel (JT4)	470
	Wrist bend (JT5)	475
	Wrist twist (JT6)	730
Allowable moment (N·m)	Wrist swivel (JT4)	26
	Wrist bend (JT5)	26
	Wrist twist (JT6)	10
Allowable moment of inertia (kg·m²)	Wrist swivel (JT4)	0.9
	Wrist bend (JT5)	0.9
	Wrist twist (JT6)	0.3
Mass (kg)	260	
Mounting	Floor	
Installation environment	Ambient temperature (°C)	0 - 45
	Relative humidity (%)	25 - 85 (No dew, nor frost allowed)
Controller/Power requirements	F01/5.6kVA	

*1: Conforms to ISO9283

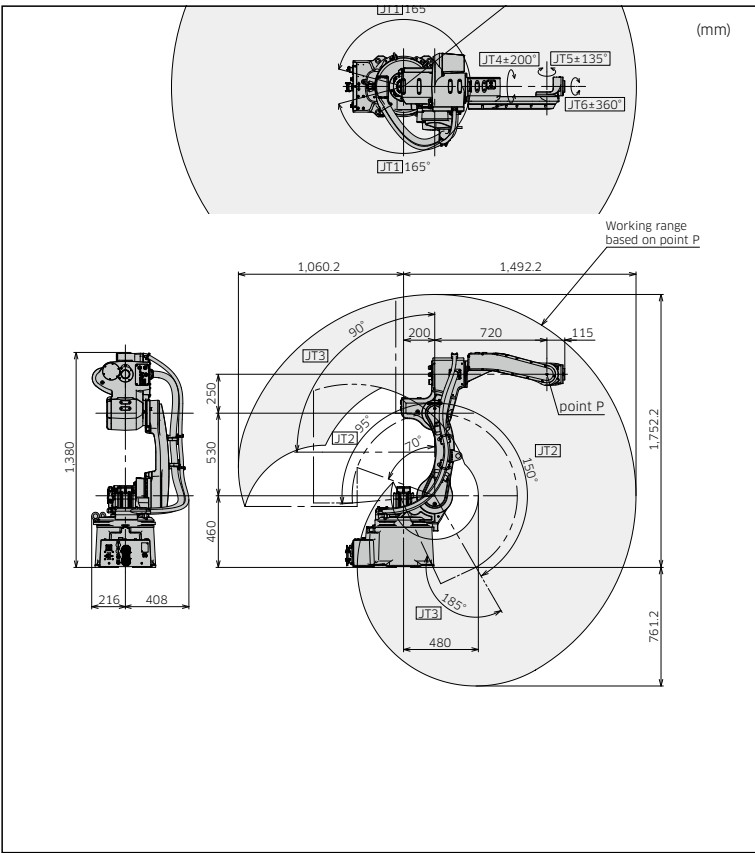


BA013L

Standard Specifications

Type	Articulated robot	
Degree of freedom (axes)	6	
Payload (kg)	13	
Max. reach (mm)	2,093	
Position repeatability*1 (mm)	±0.06	
Motion range (°)	Arm rotation (JT1)	±165
	Arm out-in (JT2)	+150 - -95
	Arm up-down (JT3)	+90 - -185
	Wrist swivel (JT4)	±200
	Wrist bend (JT5)	±135
	Wrist twist (JT6)	±360
Max. speed (°/s)	Arm rotation (JT1)	215
	Arm out-in (JT2)	215
	Arm up-down (JT3)	270
	Wrist swivel (JT4)	440
	Wrist bend (JT5)	475
	Wrist twist (JT6)	730
Allowable moment (N·m)	Wrist swivel (JT4)	26
	Wrist bend (JT5)	26
	Wrist twist (JT6)	10
Allowable moment of inertia (kg·m²)	Wrist swivel (JT4)	0.9
	Wrist bend (JT5)	0.9
	Wrist twist (JT6)	0.3
Mass (kg)	280	
Mounting	Floor	
Installation environment	Ambient temperature (°C)	0 - 45
	Relative humidity (%)	25 - 85 (No dew, nor frost allowed)
Controller/Power requirements	F02/7.5kVA	

*1: Conforms to ISO9283

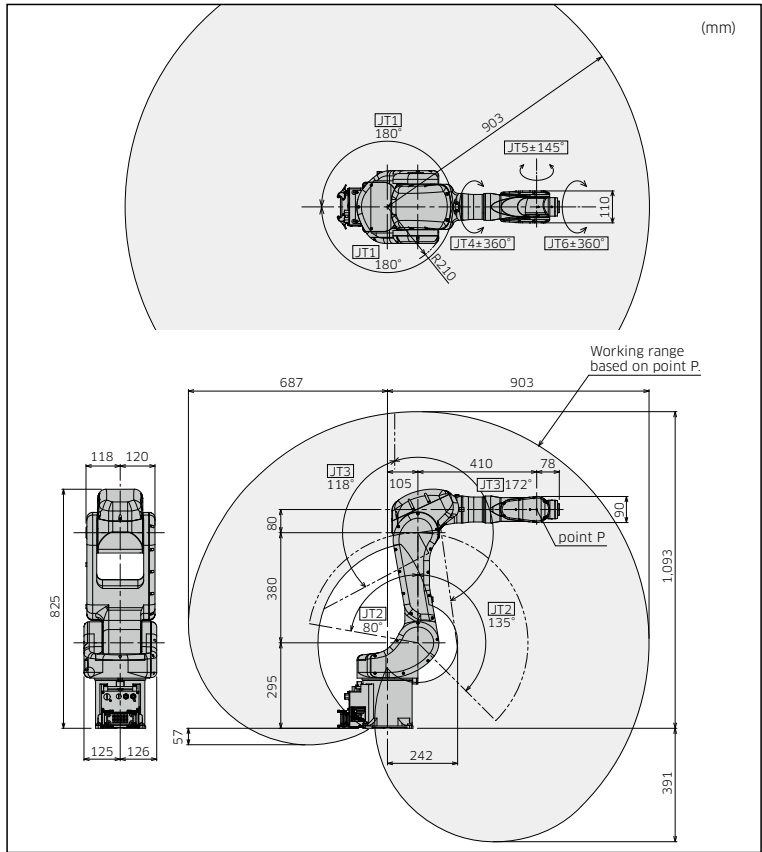


RA005L

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·m²)	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

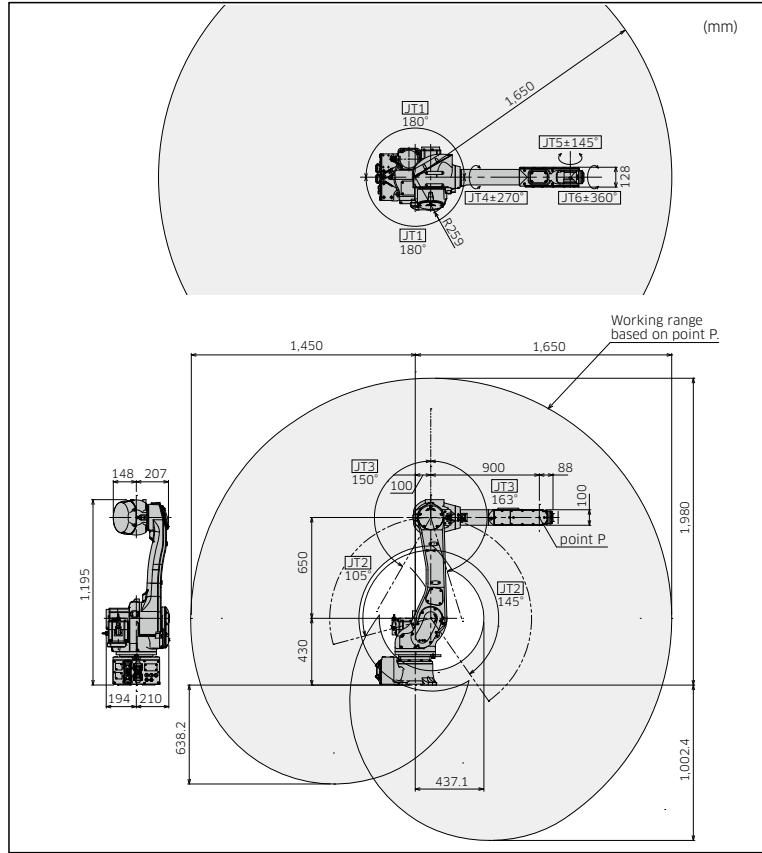


RA006L

Standard Specifications

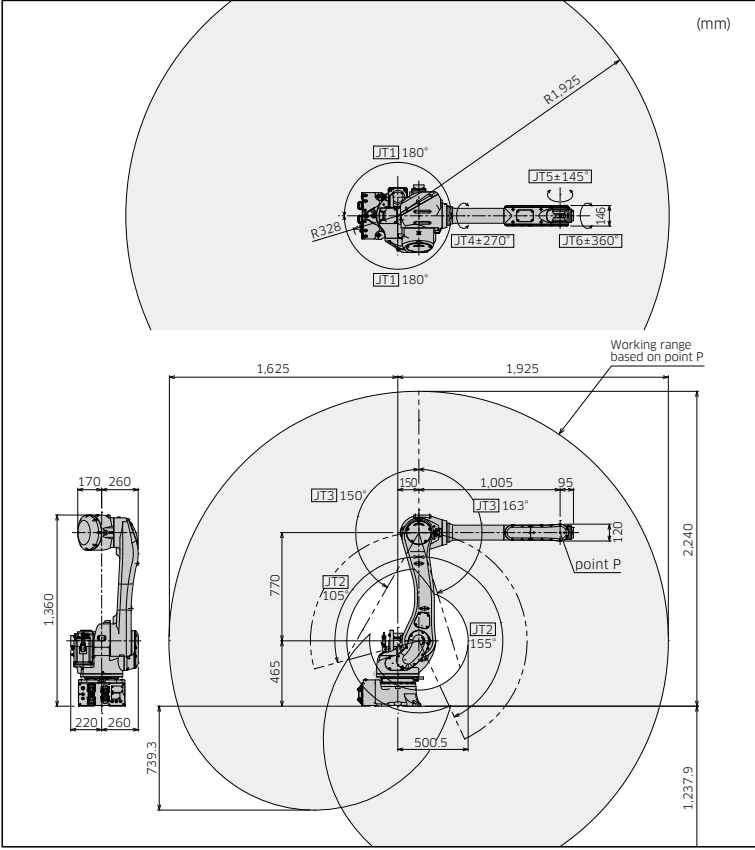
Type	Articulated robot	
Degree of freedom (axes)	6	
Payload (kg)	6	
Max. reach (mm)	1,650	
Position repeatability*1 (mm)	±0.03	
Motion range (°)	Arm rotation (JT1)	±180
	Arm out-in (JT2)	+145 - -105
	Arm up-down (JT3)	+150 - -163
	Wrist swivel (JT4)	±270
	Wrist bend (JT5)	±145
	Wrist twist (JT6)	±360
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·m²)	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, F01/5.6kVA	

*1: Conforms to ISO9283



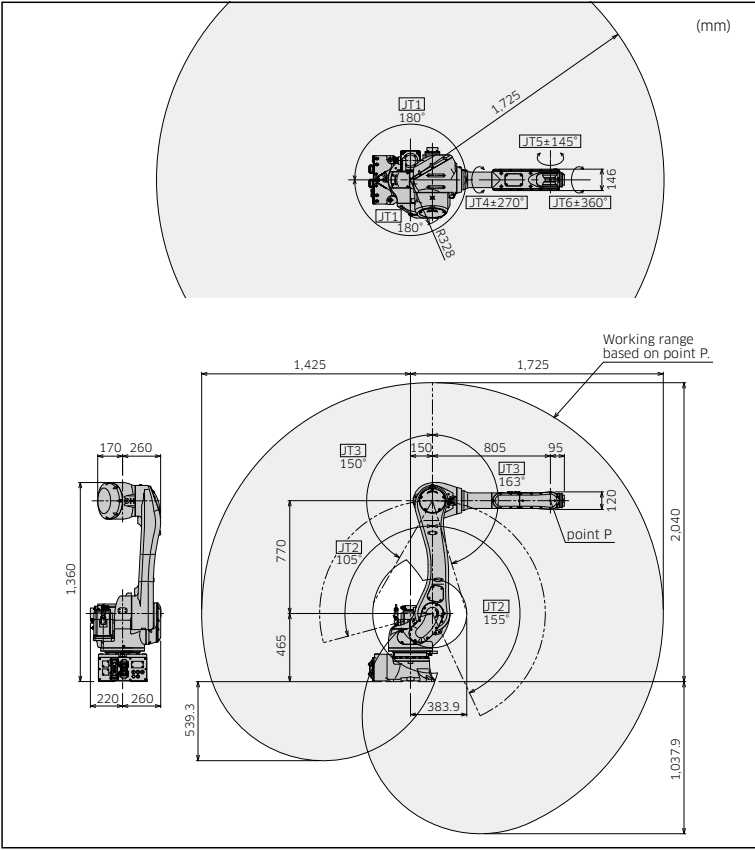
RA010L			Standard Specifications
Type		Articulated robot	
Degree of freedom (axes)		6	
Payload (kg)		10	
Max. reach (mm)		1,925	
Position repeatability*1 (mm)		±0.05	
Motion range (°)	Arm rotation (JT1)	±180	
	Arm out-in (JT2)	+155 - -105	
	Arm up-down (JT3)	+150 - -163	
	Wrist swivel (JT4)	±270	
	Wrist 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·m²)	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		F01/5.6kVA	

*1: Conforms to ISO9283



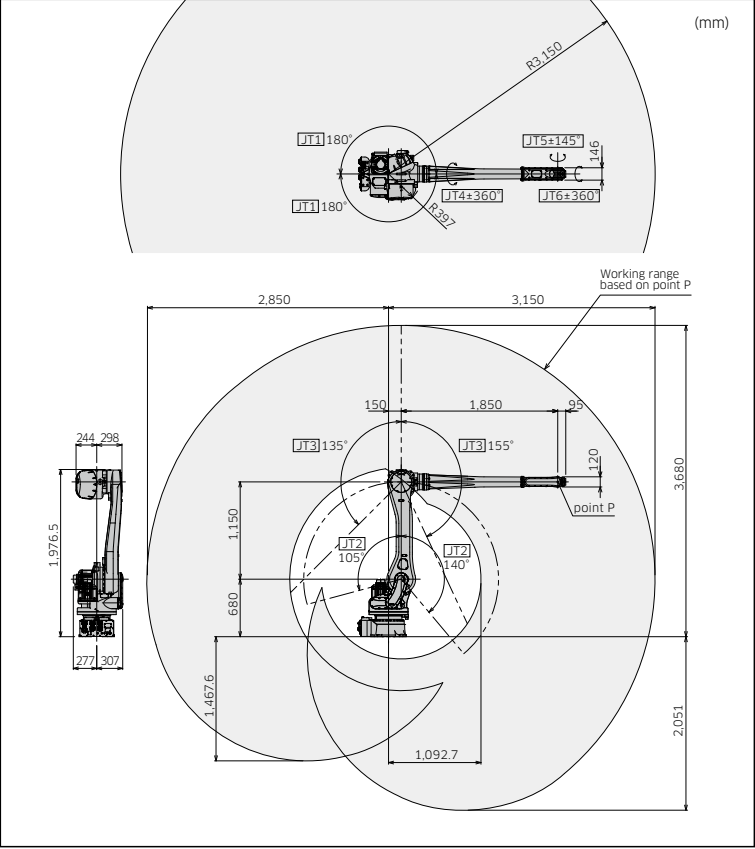
RA020N			Standard Specifications
Type		Articulated robot	
Degree of freedom (axes)		6	
Payload (kg)		20	
Max. reach (mm)		1,725	
Position repeatability*1 (mm)		±0.04	
Motion range (°)	Arm rotation (JT1)	±180	
	Arm out-in (JT2)	+155 - -105	
	Arm up-down (JT3)	+150 - -163	
	Wrist swivel (JT4)	±270	
	Wrist 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·m²)	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		F01/5.6kVA	

*1: conforms to ISO9283



RA015X			Standard Specifications
Type		Articulated robot	
Degree of freedom (axes)		6	
Payload (kg)		10	
Max. reach (mm)		3,150	
Position repeatability*1 (mm)		±0.06	
Motion range (°)	Arm rotation (JT1)	±180	
	Arm out-in (JT2)	+140 - -105	
	Arm up-down (JT3)	+135 - -155	
	Wrist swivel (JT4)	±360	
	Wrist bend (JT5)	±145	
	Wrist twist (JT6)	±360	
Max. speed (°/s)	Arm rotation (JT1)	180	
	Arm out-in (JT2)	180	
	Arm up-down (JT3)	200	
	Wrist swivel (JT4)	410	
	Wrist bend (JT5)	360	
	Wrist twist (JT6)	610	
Allowable moment (N·m)	Wrist swivel (JT4)	34	
	Wrist bend (JT5)	34	
	Wrist twist (JT6)	22	
Allowable moment of inertia (kg·m²)	Wrist swivel (JT4)	0.8	
	Wrist bend (JT5)	0.8	
	Wrist twist (JT6)	0.25	
Mass (kg)		545	
Mounting		Floor, Ceiling	
Installation environment	Ambient temperature (°C)	0 - 45	
	Relative humidity (%)	35 - 85 (No dew, nor frost allowed)	
Controller/Power requirements		F02/7.5kVA	

*1: Conforms to ISO9283



F60

Features

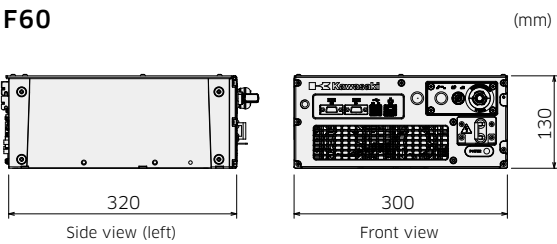
- Universal controller with common specifications for global use.
- Lightweight (8.3kg), reduced energy consumption, with enhanced integrated features.

Standard Specifications

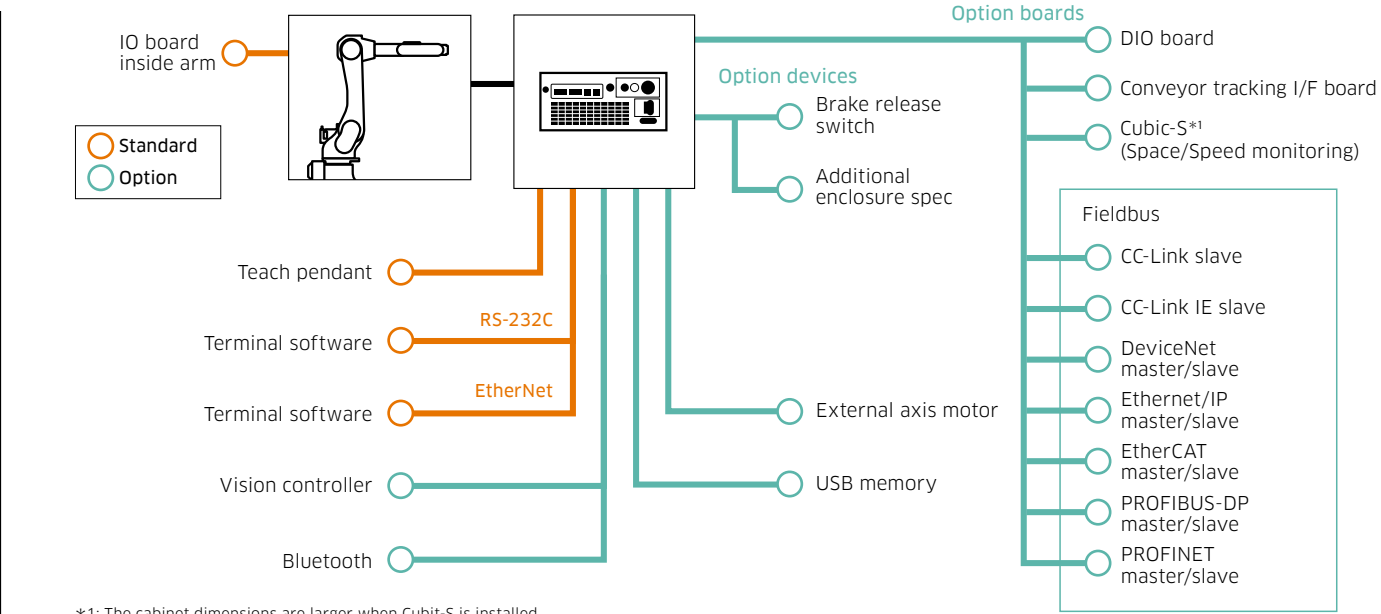
Dimensions (mm)		W300×D320×H130
Type		Open type indirect cooling system
Controlled (axes)		6
Memory capacity (MB)		16
I/O signals	External operation	Motor power off, Hold
	Input (Channels)	16
	Output (Channels)	16
Cable length	Teach pendant (m)	5
	Robot-controller (m)	5
Mass (kg)		8.3
Power requirements		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



System configuration



*1: The cabinet dimensions are larger when Cubic-S is installed.

F01/F02

Features

- Reduced size & energy consumption, with enhanced integrated features.
- Universal controller with common specifications that can be used globally. (An optional transformer unit is necessary in the region where the power supply and safety standard differ.)

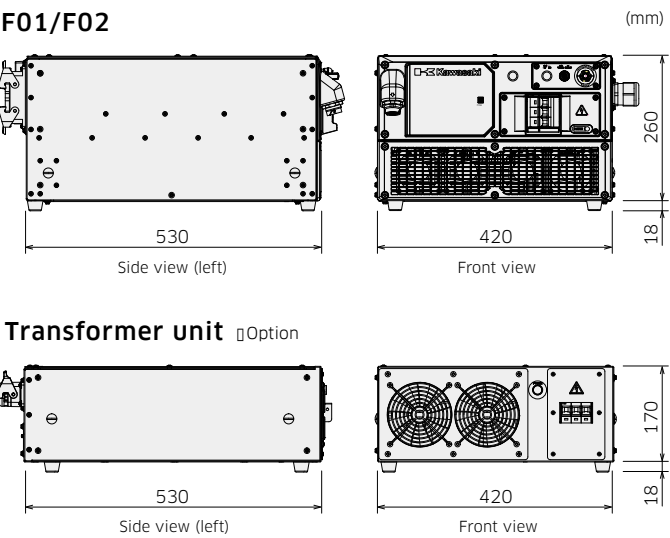


Standard Specifications

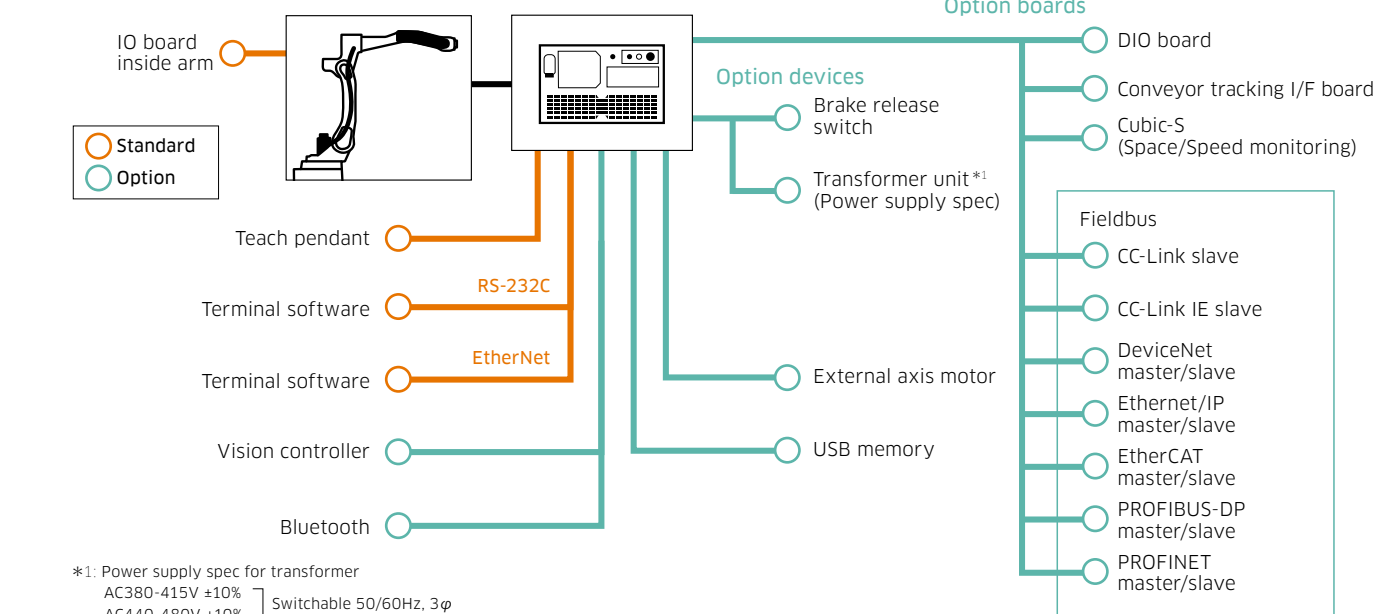
		F01	F02
Dimensions (mm)		W420×D530×H278	
Type		Enclosed type, indirect cooling system (IP54 or equivalent)	
Controlled (axes)		7	
Memory capacity (MB)		16	
I/O signals	External operation	Motor power off, Hold	
	Input (Channels)	32	
	Output (Channels)	32	
Cable length	Teach pendant (m)	5	
	Robot-controller (m)	5	
Mass (kg)		20	25
Power requirements		AC200V - AC220V ±10%, 50/60Hz, 3Φ AC200V - AC230V ±10%, 50/60Hz, 1Φ*1 Max. 5.6kVA Max. 7.5kVA	
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	

*1: The 200V, single-phase power can be used for the F01 controller only.

External view and dimensions



System configuration



*1: Power supply spec for transformer
AC380-415V ±10% Switchable 50/60Hz, 3Φ
AC440-480V ±10%