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Kawasaki Robotics website
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Kawasaki Robotics brand site XYZ
<https://robotics.kawasaki.com/ja1/xyz/en/>



Kawasaki Robostage (showroom)
<https://robotics.kawasaki.com/ja1/robostage/en.html>



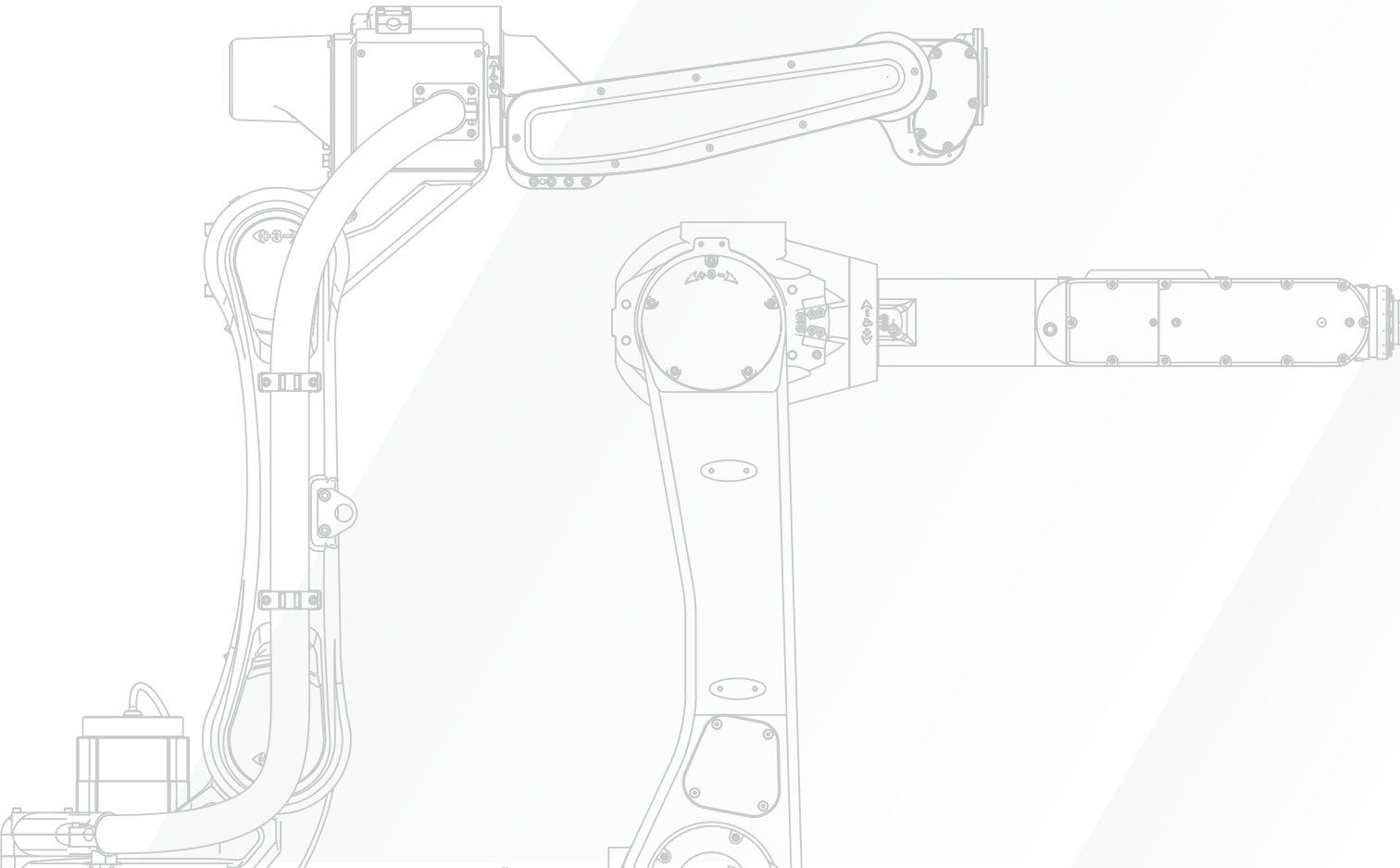
**CAUTIONS TO BE TAKEN
 TO ENSURE SAFETY**

- 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.

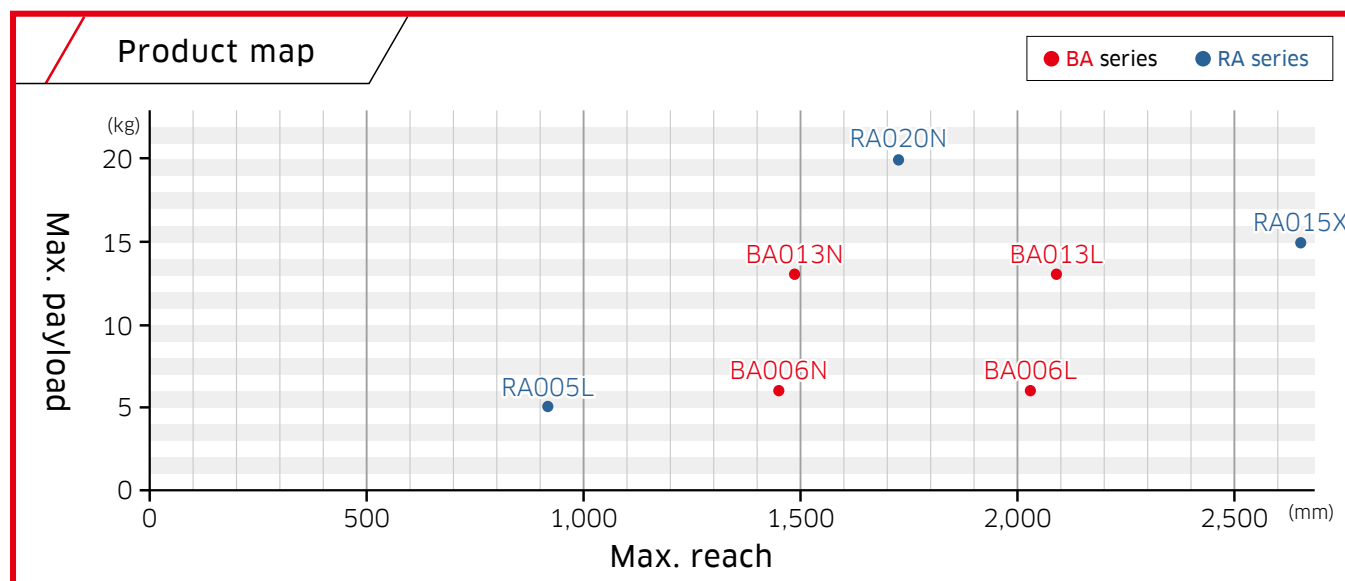
BA series

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, and is ideal for large parts.



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·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, F01/5.6kVA	

*1: Conforms to ISO9283

BA006L

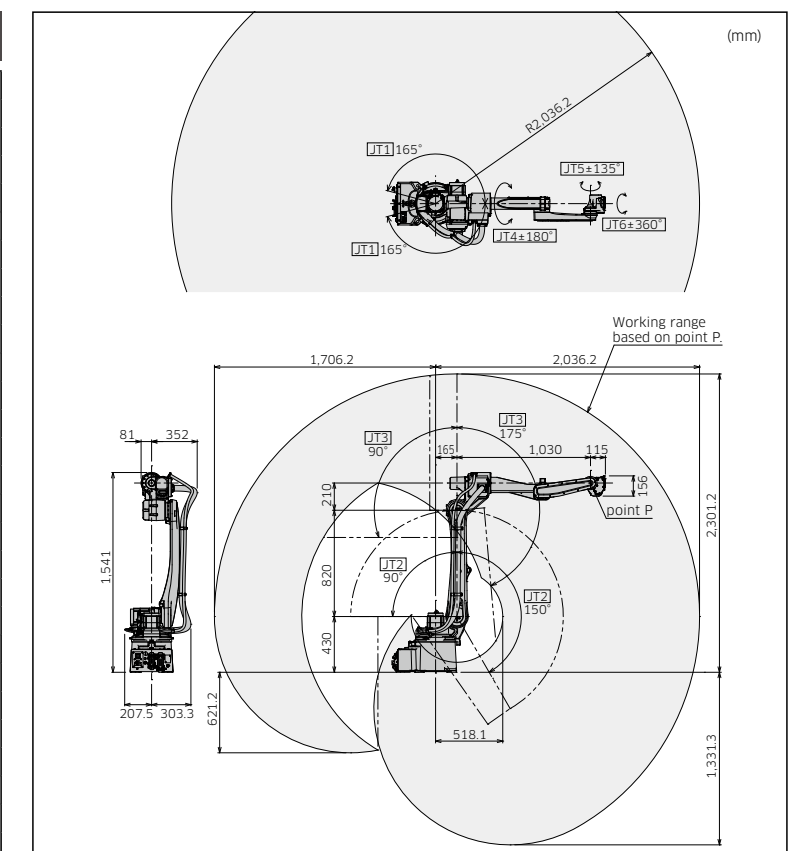
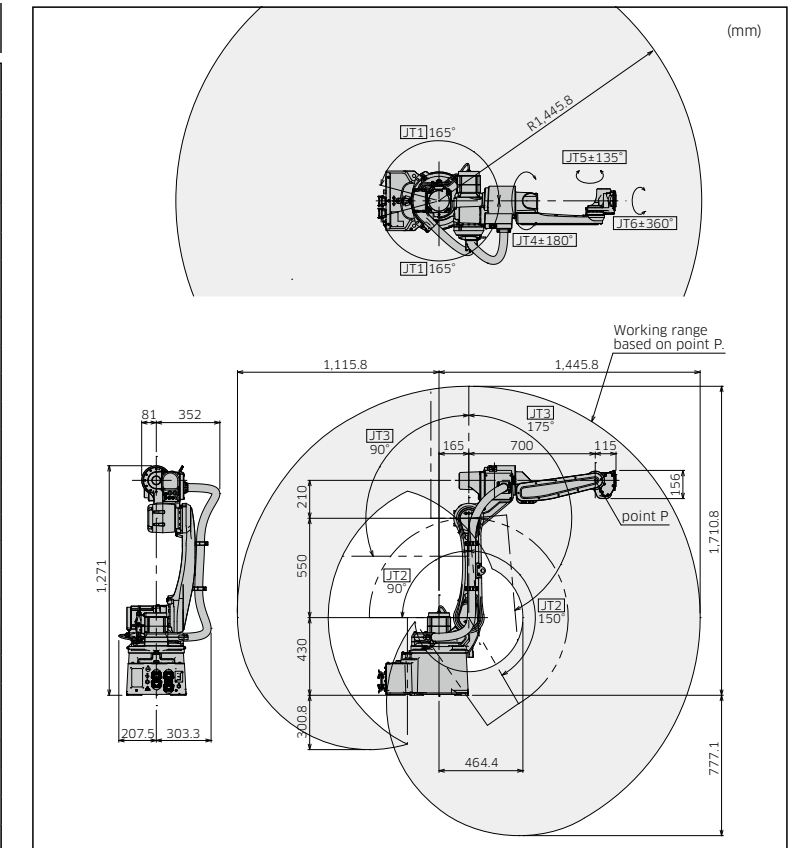
Standard Specifications

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·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, 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.

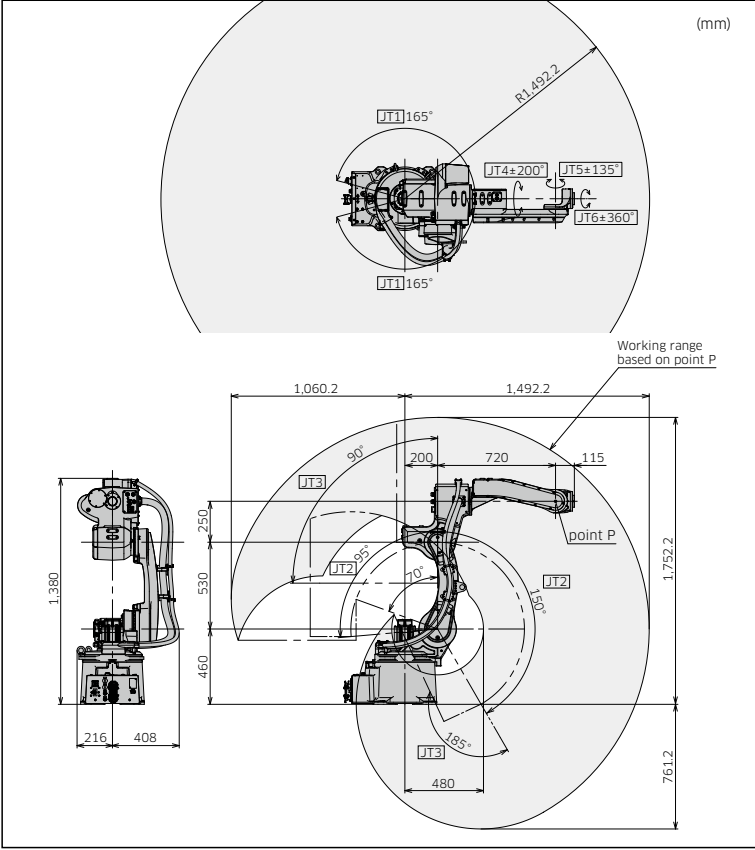




- Kawasaki's RA Series offers extended payloads, reach and repeatability.
- Integration packages to all the leading welding power supplies.

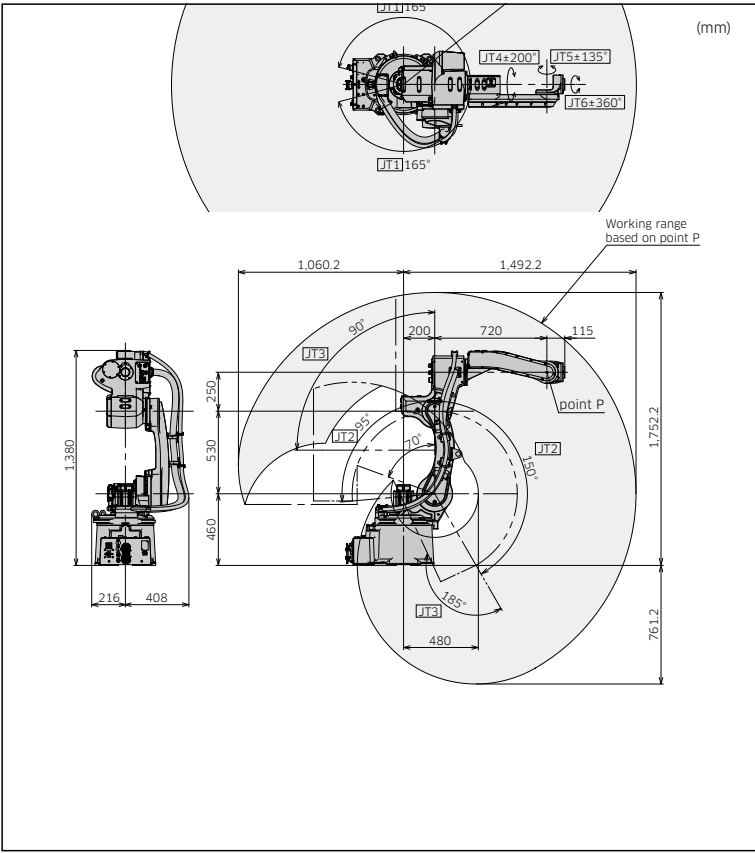
BA013N			Standard Specifications
Type		Articulated robot	
Degree of freedom (axes)		6	
Payload (kg)		13	
Max. reach (mm)		1,492	
Position repeatability*1 (mm)		±0.04	
Motion range (°)	Arm rotation (JT1)	±165	
	Arm out-in (JT2)	+150 - -95	
	Arm up-down (JT3)	+90 - -185	
	Wrist swivel (JT4)	±200	
	Wrist 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



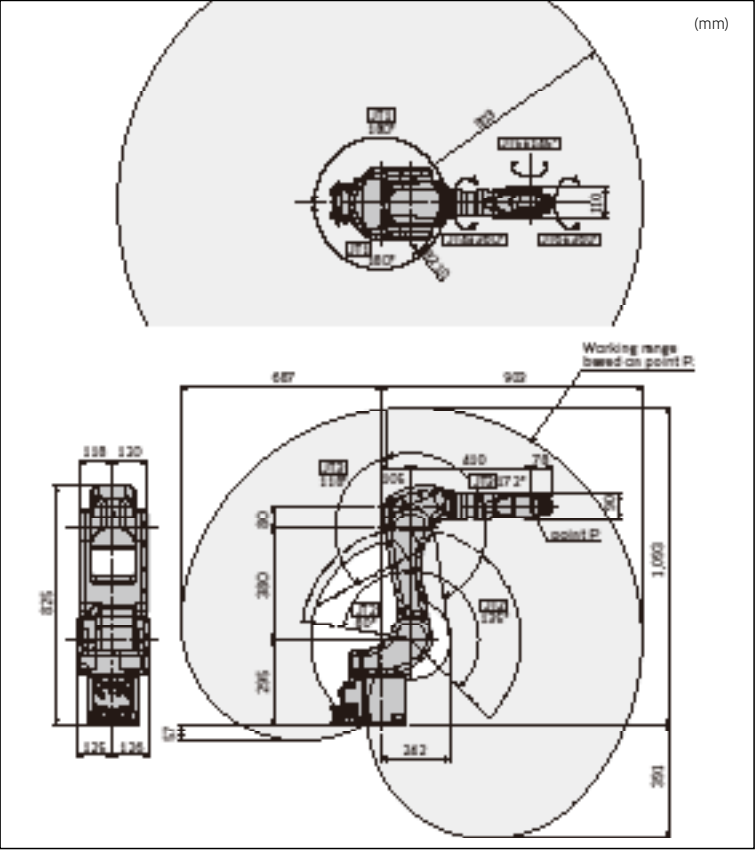
BA013L			Standard Specifications
Type		Articulated robot	
Degree of freedom (axes)		6	
Payload (kg)		13	
Max. reach (mm)		2,093	
Position repeatability*1 (mm)		±0.06	
Motion range (°)	Arm rotation (JT1)	±165	
	Arm out-in (JT2)	+150 - -95	
	Arm up-down (JT3)	+90 - -185	
	Wrist swivel (JT4)	±200	
	Wrist 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



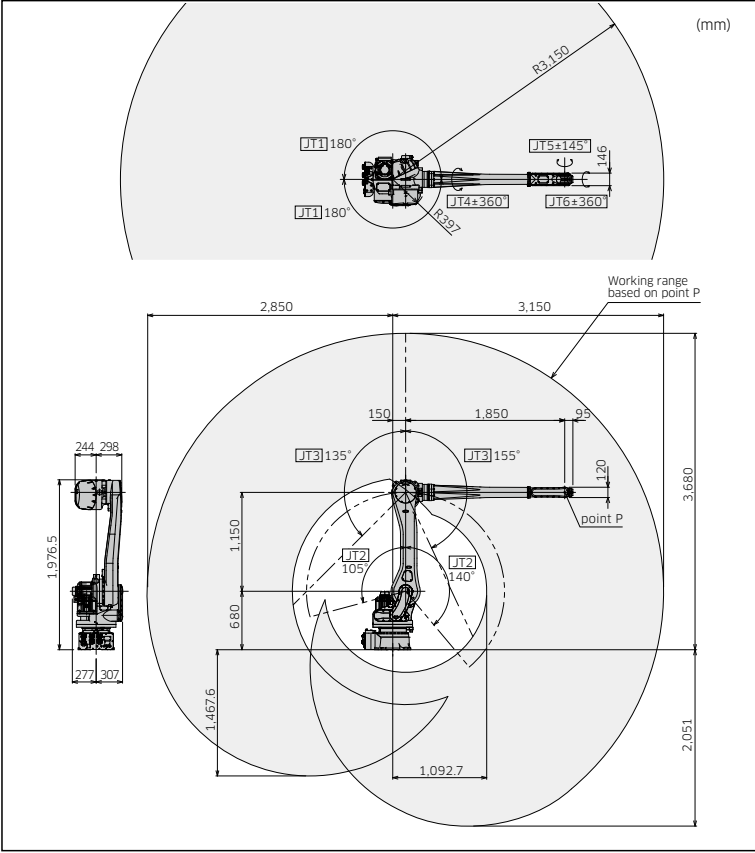
RA005L			Standard Specifications
Type		Articulated robot	
Degree of freedom (axes)		6	
Payload (kg)		5	
Max. reach (mm)		903	
Position repeatability*1 (mm)		±0.03	
Motion range (°)	Arm rotation (JT1)	±180	
	Arm out-in (JT2)	+135 - -80	
	Arm up-down (JT3)	+118 - -172	
	Wrist swivel (JT4)	±360	
	Wrist 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



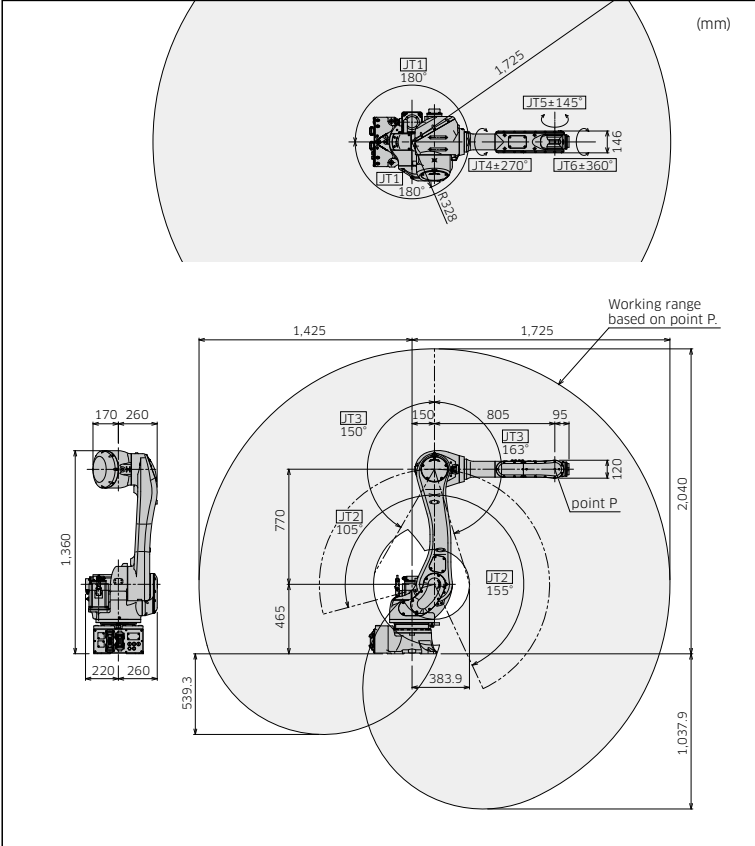
RA015X			Standard Specifications
Type		Articulated robot	
Degree of freedom (axes)		6	
Payload (kg)		15	
Max. reach (mm)		3,150	
Position repeatability*1 (mm)		±0.06	
Motion range (°)	Arm rotation (JT1)	±180	
	Arm out-in (JT2)	+140 - -105	
	Arm up-down (JT3)	+135 - -155	
	Wrist swivel (JT4)	±360	
	Wrist 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



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



F60

Features

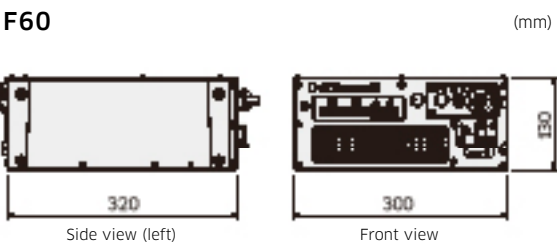
- Universal controller with common specifications for global use.
- Lightweight (8.3kg), reduced energy consumption, with enhanced integrated features.

Standard Specifications

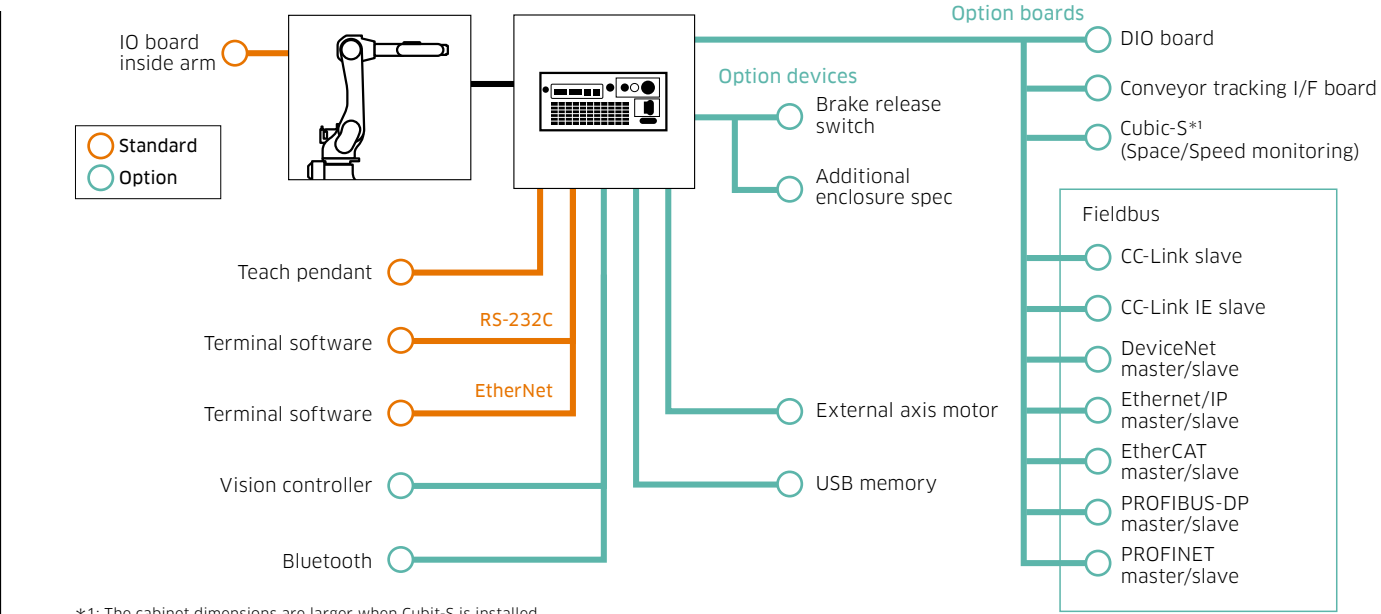
Dimensions (mm)		W300×D320×H130
Type		Open type indirect cooling system
Controlled (axes)		6
Memory capacity (MB)		16
I/O signals	External operation	Motor power off, Hold
	Input (Channels)	16
	Output (Channels)	16
Cable length	Teach pendant (m)	5
	Robot-controller (m)	5
Mass (kg)		8.3
Power requirements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

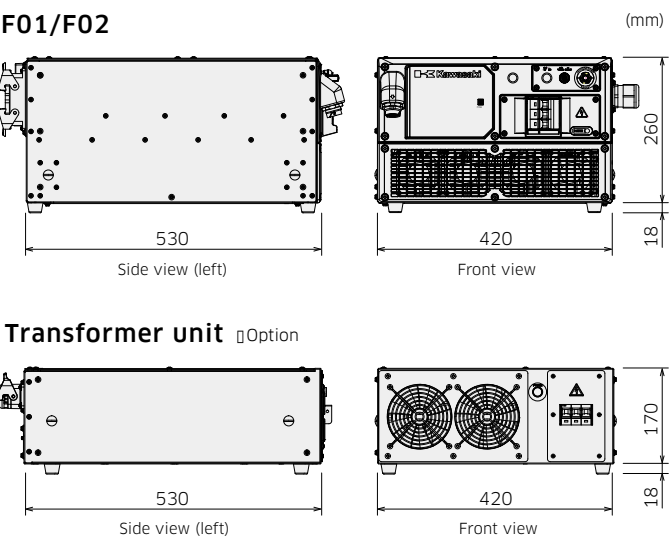


Standard Specifications

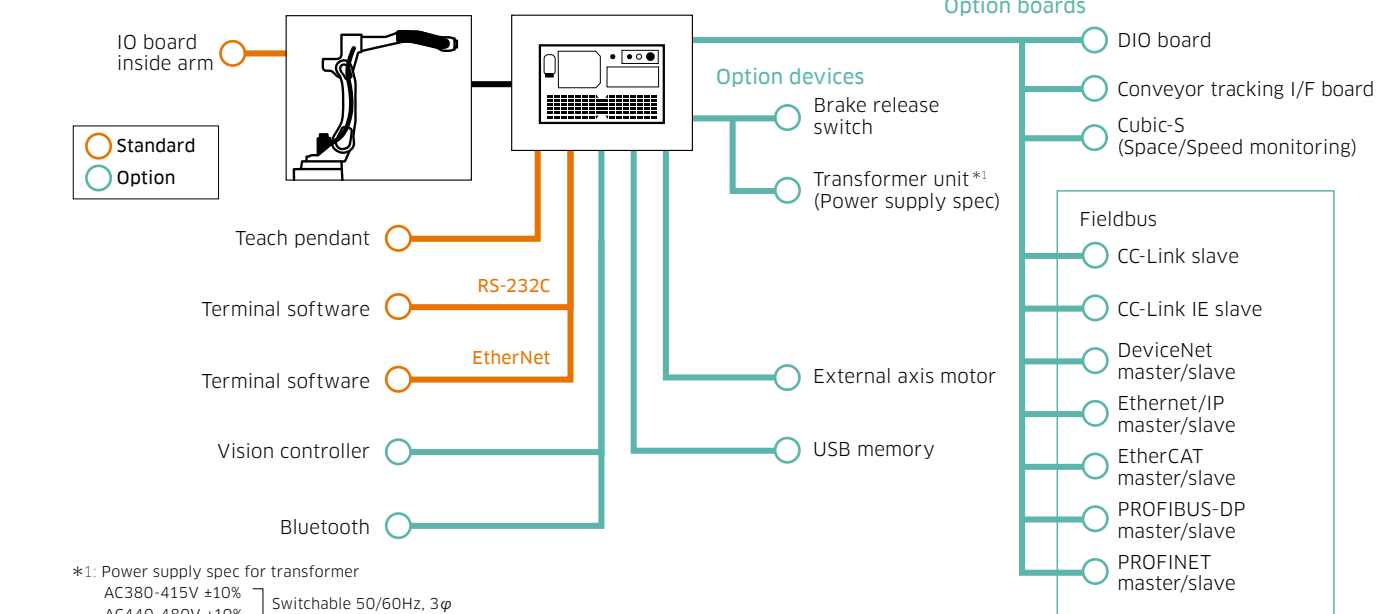
		F01	F02
Dimensions (mm)		W420×D530×H278	
Type		Enclosed type, indirect cooling system (IP54 or equivalent)	
Controlled (axes)		7	
Memory capacity (MB)		16	
I/O signals	External operation	Motor power off, Hold	
	Input (Channels)	32	
	Output (Channels)	32	
Cable length	Teach pendant (m)	5	
	Robot-controller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