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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>



Kawasaki Robot

Small-to-Medium Robots

up to 80kg payload

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

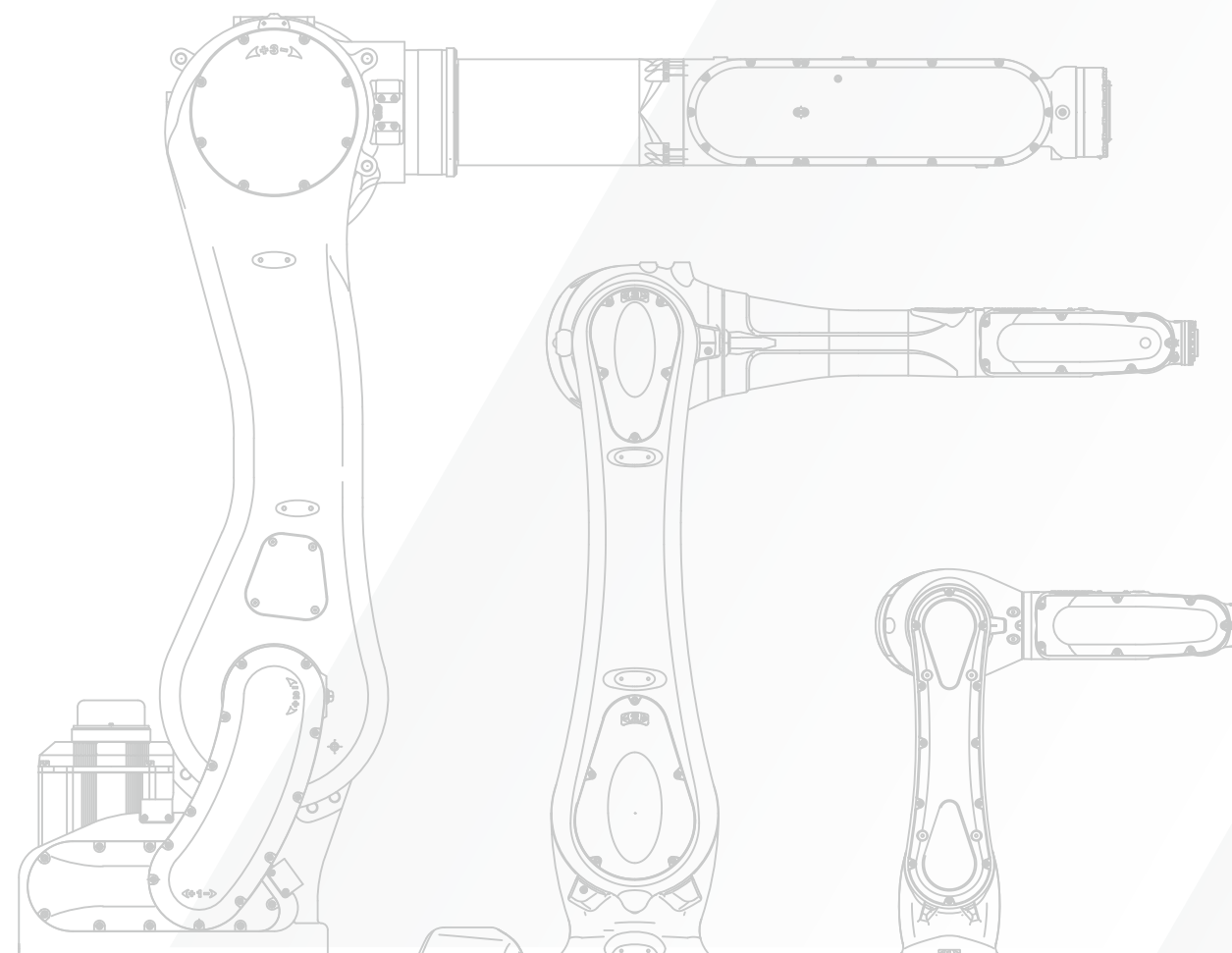
Wafer transfer robots

Collaborative robots



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.



Small-to-medium, general-purpose robots

Kawasaki's R series robots are a go-to for users looking for reliable, high-performance automation that can streamline numerous manufacturing processes by offering industry-leading speed, reach, and payload range, making them ideal for various applications.

RS series



RS003N



RS005N



RS005L



RS006L



RS007N



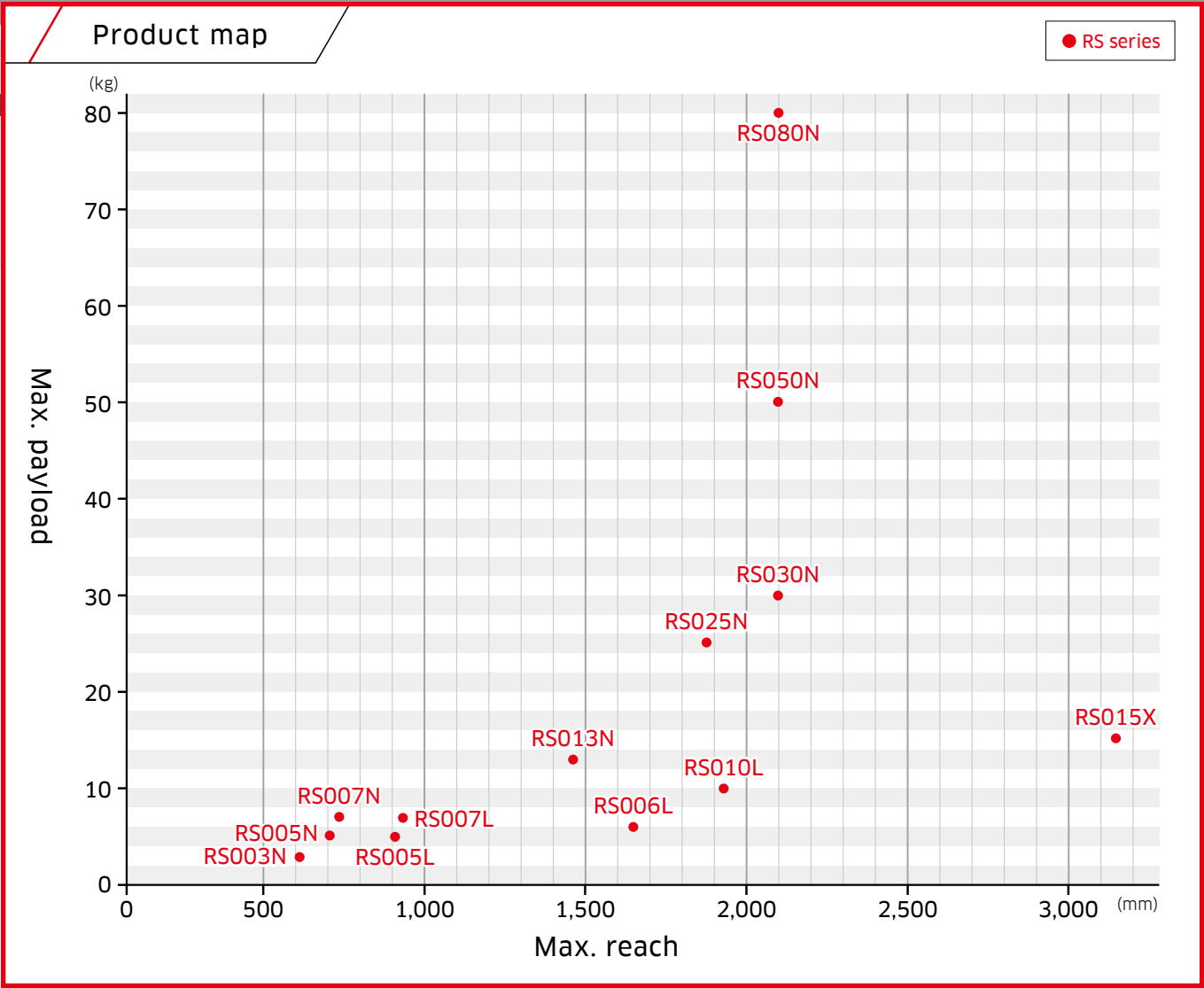
RS007L



RS013N



RS015X



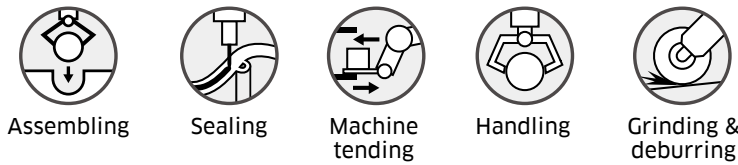
RS020N



RS025N



RS030N/RS050N/RS080N

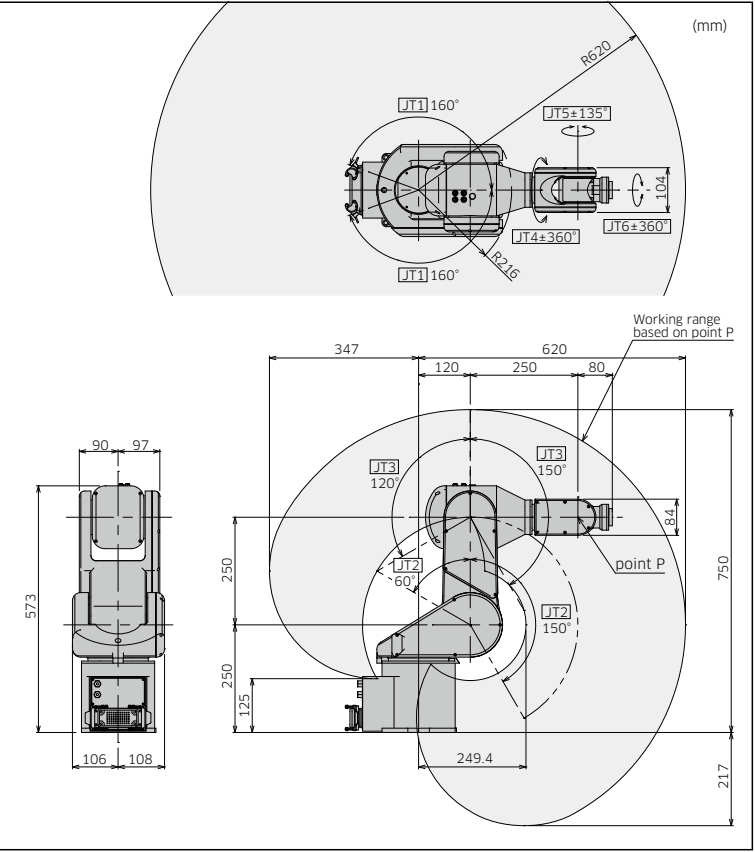


- Full lineup for diverse applications
- Industry leading speed
- Compact, yet wide work range

RS003NStandard Specifications

Type	Articulated robot	
Degree of freedom (axes)	6	
Payload (kg)	3	
Max. reach (mm)	620	
Position repeatability*1 (mm)	±0.02	
Motion range (°)	Arm rotation (JT1)	±160
	Arm out-in (JT2)	+150 - -60
	Arm up-down (JT3)	+120 - -150
	Wrist swivel (JT4)	±360
	Wrist bend (JT5)	±135
	Wrist twist (JT6)	±360
Max. speed (°/s)	Arm rotation (JT1)	360
	Arm out-in (JT2)	250
	Arm up-down (JT3)	225
	Wrist swivel (JT4)	540
	Wrist bend (JT5)	225
	Wrist twist (JT6)	540
Allowable moment (N·m)	Wrist swivel (JT4)	5.8
	Wrist bend (JT5)	5.8
	Wrist twist (JT6)	2.9
Allowable moment of inertia (kg·m²)	Wrist swivel (JT4)	0.12
	Wrist bend (JT5)	0.12
	Wrist twist (JT6)	0.03
Mass (kg)	20	
Mounting	Floor, Ceiling	
Installation environment	Ambient temperature (°C)	0 - 45
	Relative humidity (%)	35 - 85 (No dew, nor frost allowed)
Degee of protection	IP54 or equivalent	
Controller/Power requirements	F60/2.0kVA	

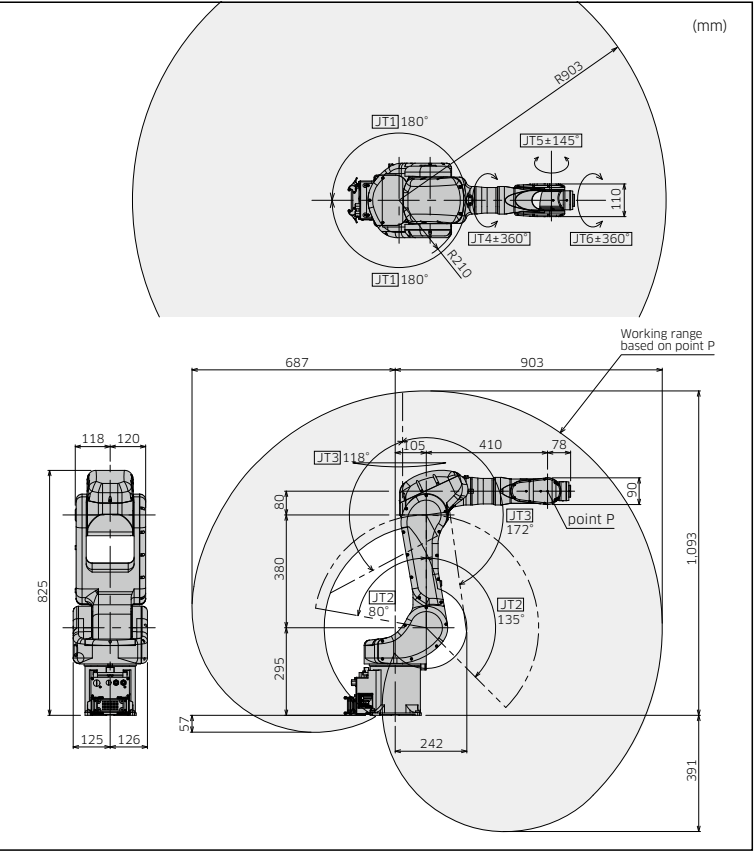
*1: Conforms to ISO9283



RS005LStandard 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)
Degee of protection	Wrist : IP67 or equivalent Base axes : IP65 or equivalent	
Controller/Power requirements	F60/2.0kVA	

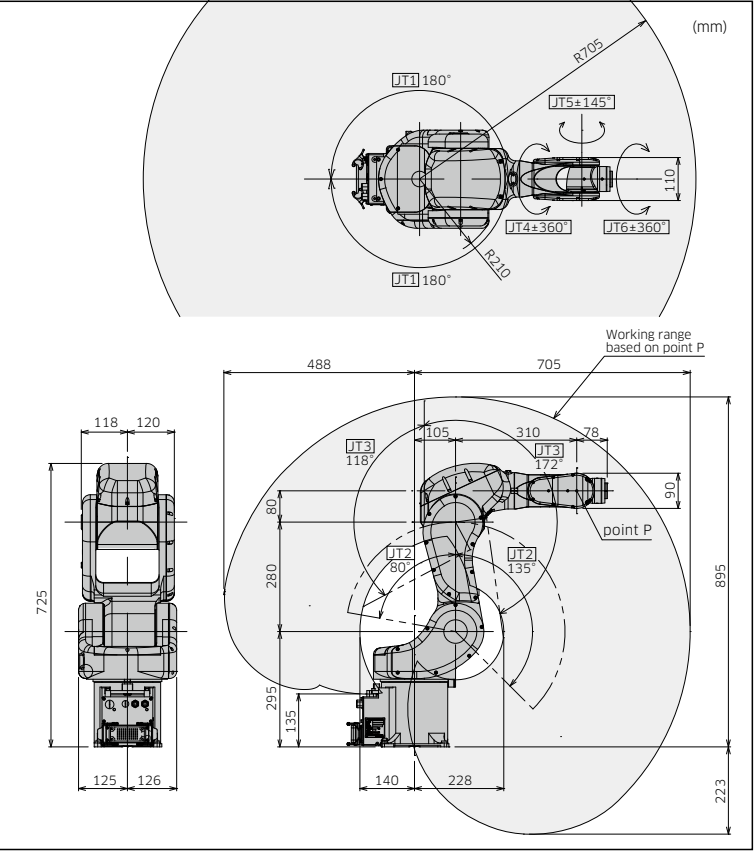
*1: Conforms to ISO9283



RS005NStandard Specifications

Type	Articulated robot	
Degree of freedom (axes)	6	
Payload (kg)	5	
Max. reach (mm)	705	
Position repeatability*1 (mm)	±0.02	
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)	360
	Arm out-in (JT2)	360
	Arm up-down (JT3)	410
	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)	34	
Mounting	Floor, Ceiling	
Installation environment	Ambient temperature (°C)	0 - 45
	Relative humidity (%)	35 - 85 (No dew, nor frost allowed)
Degee of protection	Wrist : IP67 or equivalent Base axes : IP65 or equivalent	
Controller/Power requirements	F60/2.0kVA	

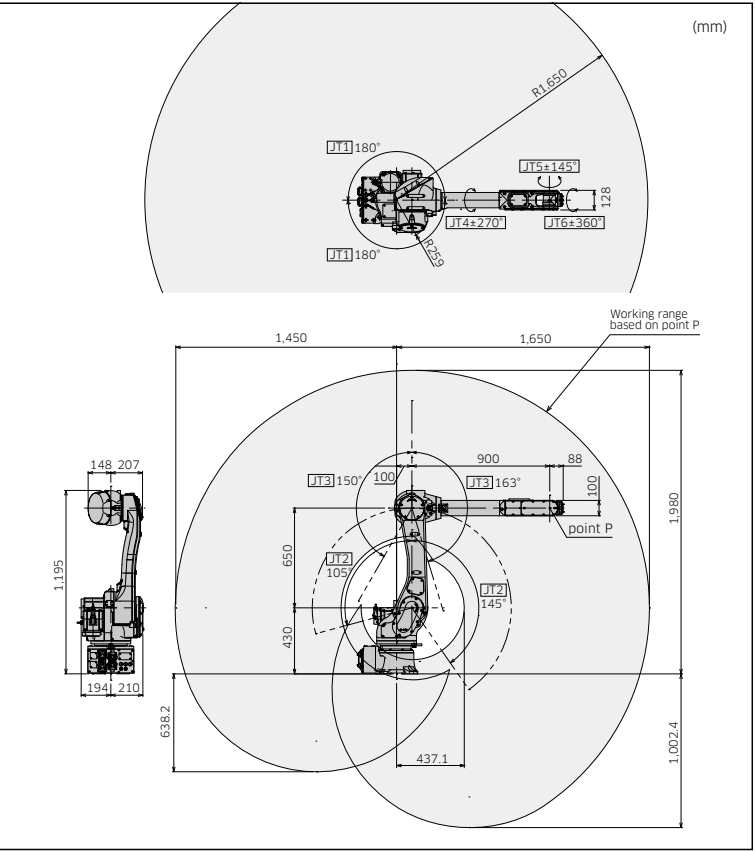
*1: Conforms to ISO9283



RS006LStandard Specifications

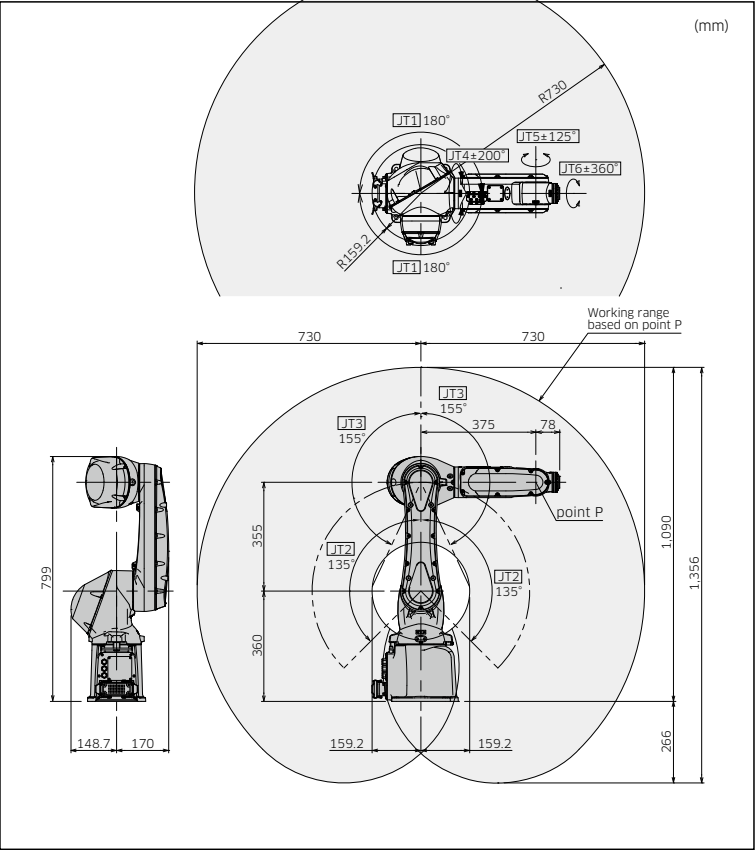
Type	Articulated robot	
Degree of freedom (axes)	6	
Payload (kg)	6	
Max. reach (mm)	1,650	
Position repeatability*1 (mm)	±0.03	
Motion range (°)	Arm rotation (JT1)	±180
	Arm out-in (JT2)	+145 - -105
	Arm up-down (JT3)	+150 - -163
	Wrist swivel (JT4)	±270
	Wrist bend (JT5)	±145
	Wrist twist (JT6)	±360
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)
Degee of protection	Wrist : IP67 or equivalent Base axes : IP65 or equivalent	
Controller/Power requirements	F60/2.0kVA, F01/5.6kVA	

*1: Conforms to ISO9283



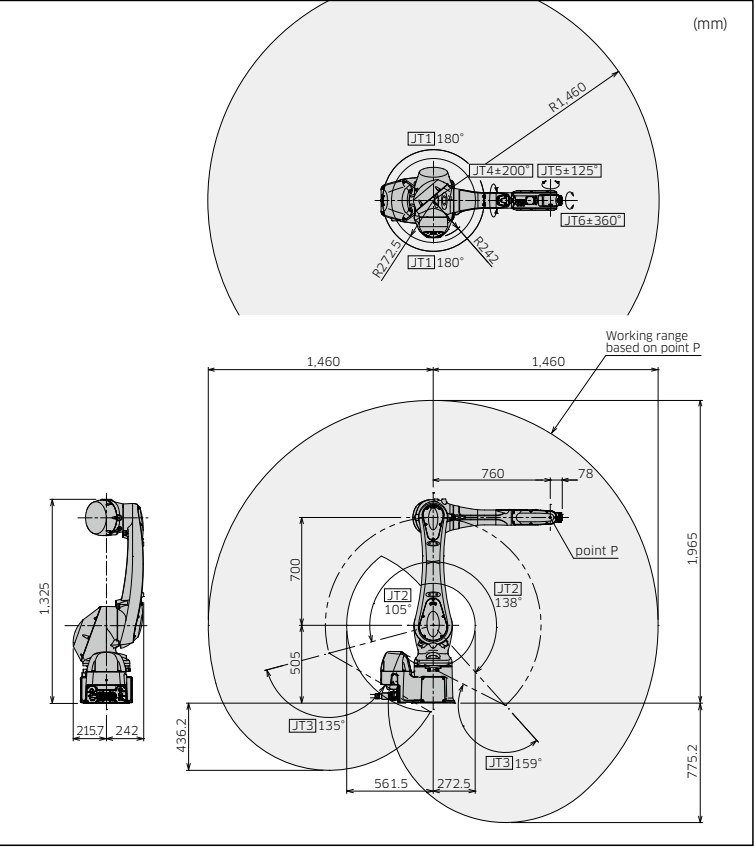
RS007N			Standard Specifications
Type		Articulated robot	
Degree of freedom (axes)		6	
Payload (kg)		7	
Max. reach (mm)		730	
Position repeatability*1 (mm)		±0.02	
Motion range (°)	Arm rotation (JT1)	±180	
	Arm out-in (JT2)	±135	
	Arm up-down (JT3)	±155	
	Wrist swivel (JT4)	±200	
	Wrist bend (JT5)	±125	
	Wrist twist (JT6)	±360	
Max. speed (°/s)	Arm rotation (JT1)	470	
	Arm out-in (JT2)	380	
	Arm up-down (JT3)	520	
	Wrist swivel (JT4)	550	
	Wrist bend (JT5)	550	
	Wrist twist (JT6)	1,000	
Allowable moment (N·m)	Wrist swivel (JT4)	17	
	Wrist bend (JT5)	17	
	Wrist twist (JT6)	10	
Allowable moment of inertia (kg·m²)	Wrist swivel (JT4)	0.5	
	Wrist bend (JT5)	0.5	
	Wrist twist (JT6)	0.2	
Mass (kg)		35	
Mounting		Floor, Ceiling	
Installation environment	Ambient temperature (°C)	0 - 45	
	Relative humidity (%)	35 - 85 (No dew, nor frost allowed)	
Degee of protection		Wrist : IP67 or equivalent Base axes : IP65 or equivalent	
Controller/Power requirements		F60/2.0kVA	

*1: Conforms to ISO9283



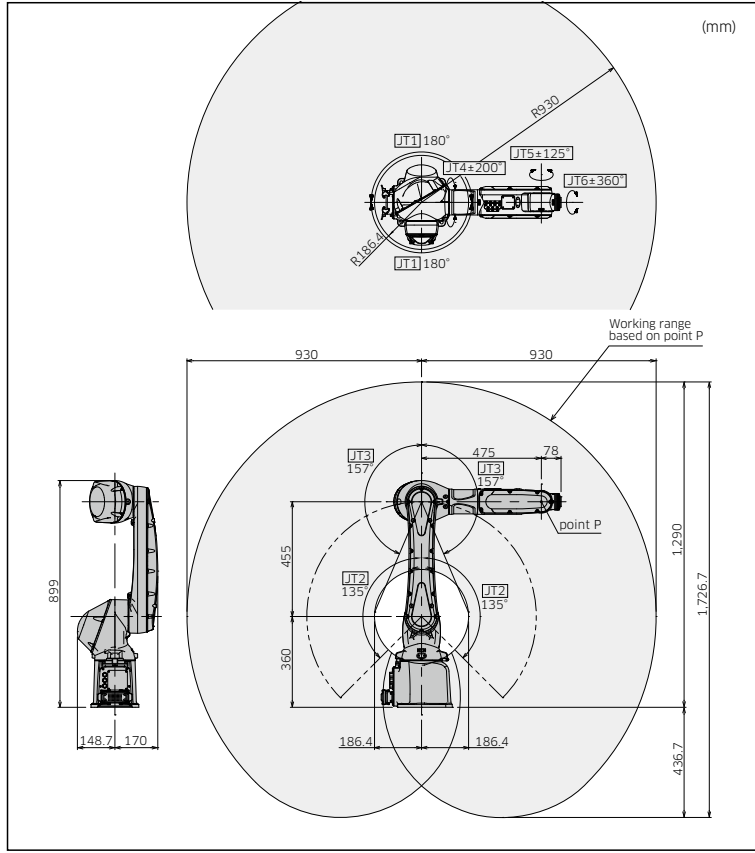
RS013N			Standard Specifications
Type		Articulated robot	
Degree of freedom (axes)		6	
Payload (kg)		13	
Max. reach (mm)		1,460	
Position repeatability*1 (mm)		±0.03	
Motion range (°)	Arm rotation (JT1)	±180	
	Arm out-in (JT2)	+138 - -105	
	Arm up-down (JT3)	+135 - -159	
	Wrist swivel (JT4)	±200	
	Wrist bend (JT5)	±125	
	Wrist twist (JT6)	±360	
Max. speed (°/s)	Arm rotation (JT1)	265	
	Arm out-in (JT2)	250	
	Arm up-down (JT3)	265	
	Wrist swivel (JT4)	475	
	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)		170	
Mounting		Floor, Ceiling	
Installation environment	Ambient temperature (°C)	0 - 45	
	Relative humidity (%)	35 - 85 (No dew, nor frost allowed)	
Degee of protection		IP67 or equivalent	
Controller/Power requirements		F60/2.0kVA, F01/5.6kVA	

*1: Conforms to ISO9283



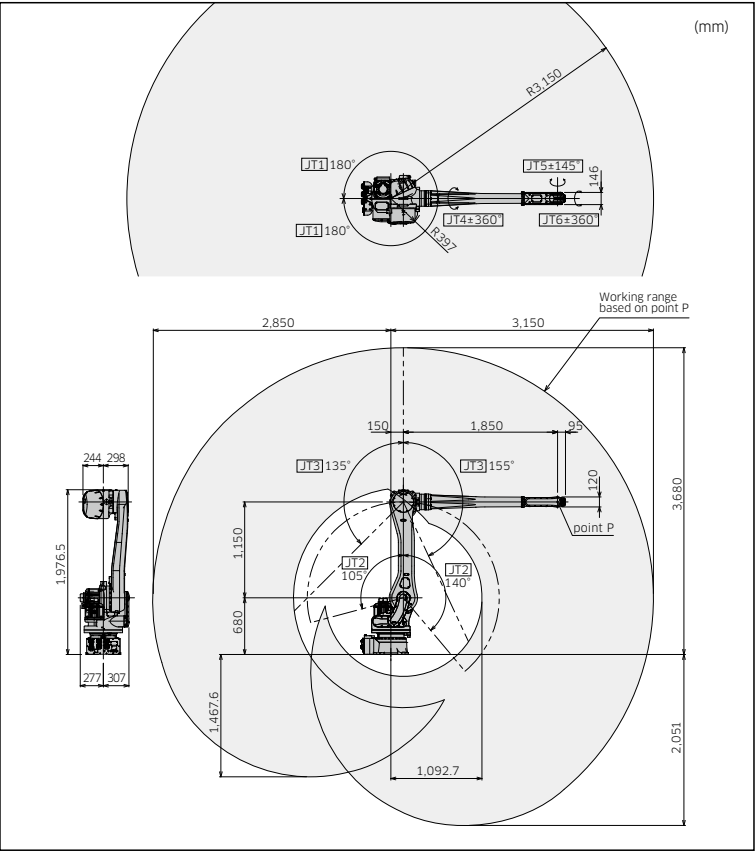
RS007L			Standard Specifications
Type		Articulated robot	
Degree of freedom (axes)		6	
Payload (kg)		7	
Max. reach (mm)		930	
Position repeatability*1 (mm)		±0.03	
Motion range (°)	Arm rotation (JT1)	±180	
	Arm out-in (JT2)	±135	
	Arm up-down (JT3)	±157	
	Wrist swivel (JT4)	±200	
	Wrist bend (JT5)	±125	
	Wrist twist (JT6)	±360	
Max. speed (°/s)	Arm rotation (JT1)	370	
	Arm out-in (JT2)	310	
	Arm up-down (JT3)	410	
	Wrist swivel (JT4)	550	
	Wrist bend (JT5)	550	
	Wrist twist (JT6)	1,000	
Allowable moment (N·m)	Wrist swivel (JT4)	17	
	Wrist bend (JT5)	17	
	Wrist twist (JT6)	10	
Allowable moment of inertia (kg·m²)	Wrist swivel (JT4)	0.5	
	Wrist bend (JT5)	0.5	
	Wrist twist (JT6)	0.2	
Mass (kg)		36	
Mounting		Floor, Ceiling, Wall	
Installation environment	Ambient temperature (°C)	0 - 45	
	Relative humidity (%)	35 - 85 (No dew, nor frost allowed)	
Degee of protection		Wrist : IP67 or equivalent Base axes : IP65 or equivalent	
Controller/Power requirements		F60/2.0kVA	

*1: Conforms to ISO9283



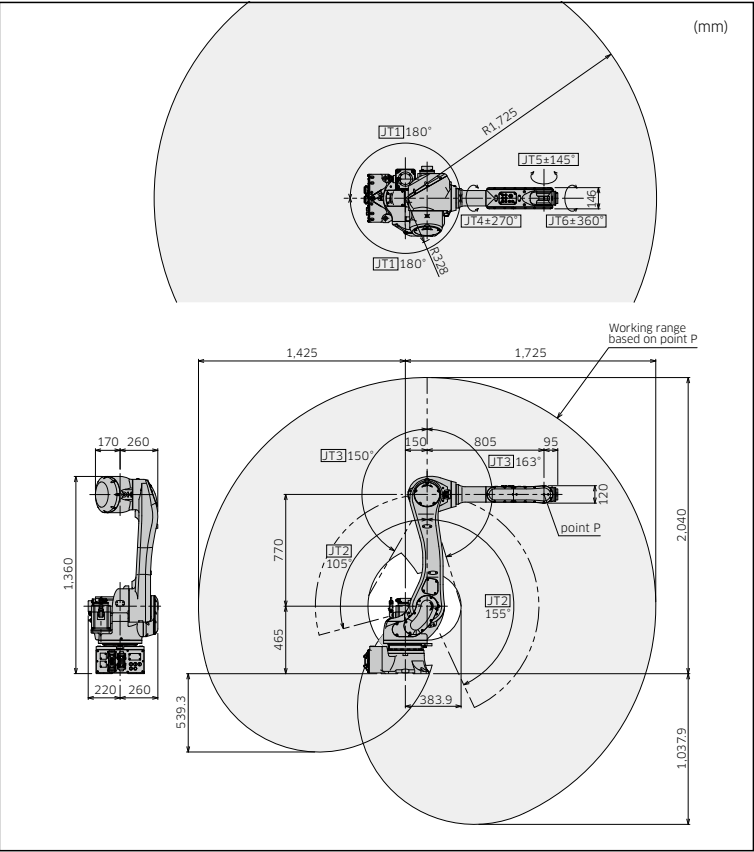
RS015X			Standard Specifications
Type		Articulated robot	
Degree of freedom (axes)		6	
Payload (kg)		15	
Max. reach (mm)		3,150	
Position repeatability*1 (mm)		±0.06	
Motion range (°)	Arm rotation (JT1)	±180	
	Arm out-in (JT2)	+140 - -105	
	Arm up-down (JT3)	+135 - -155	
	Wrist swivel (JT4)	±360	
	Wrist 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)	
Degee of protection		Wrist : IP67 or equivalent Base axes : IP65 or equivalent	
Controller/Power requirements		F02/7.5kVA	

*1: Conforms to ISO9283



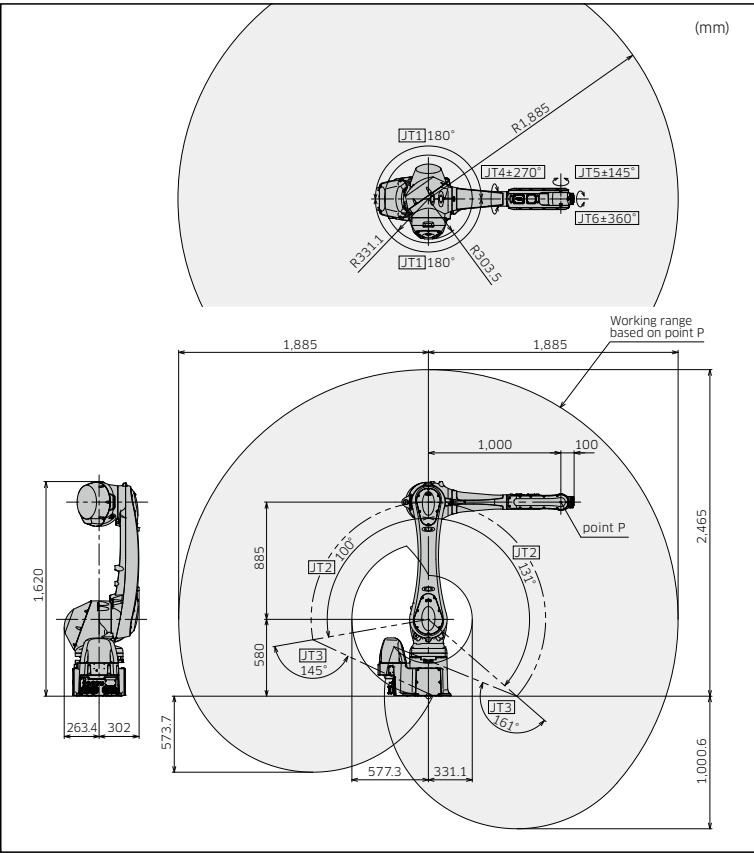
RS020N			Standard Specifications
Type		Articulated robot	
Degree of freedom (axes)		6	
Payload (kg)		20	
Max. reach (mm)		1,725	
Position repeatability*1 (mm)		±0.04	
Motion range (°)	Arm rotation (JT1)	±180	
	Arm out-in (JT2)	+155 - -105	
	Arm up-down (JT3)	+150 - -163	
	Wrist swivel (JT4)	±270	
	Wrist 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	
Installation environment	Ambient temperature (°C)	0 - 45	
	Relative humidity (%)	35 - 85 (No dew, nor frost allowed)	
Degee of protection		IP67 or equivalent	
Controller/Power requirements		F02/7.5kVA	

*1: Conforms to ISO9283



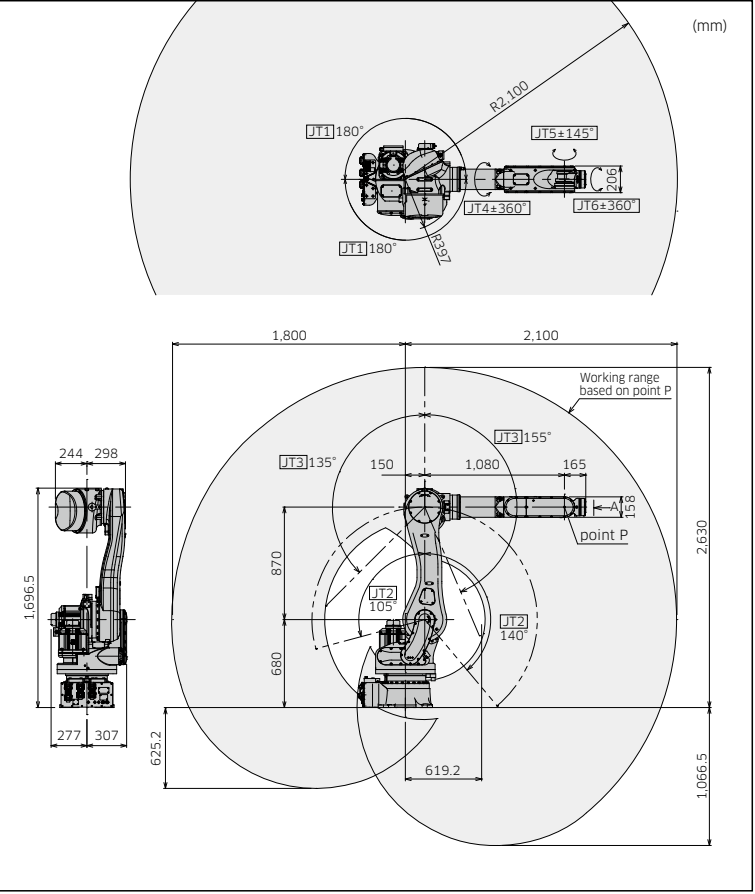
RS025N			Standard Specifications
Type		Articulated robot	
Degree of freedom (axes)		6	
Payload (kg)		25	
Max. reach (mm)		1,885	
Position repeatability*1 (mm)		±0.04	
Motion range (°)	Arm rotation (JT1)	±180	
	Arm out-in (JT2)	+131 - -100	
	Arm up-down (JT3)	+145 - -161	
	Wrist swivel (JT4)	±270	
	Wrist bend (JT5)	±145	
	Wrist twist (JT6)	±360	
Max. speed (°/s)	Arm rotation (JT1)	215	
	Arm out-in (JT2)	215	
	Arm up-down (JT3)	270	
	Wrist swivel (JT4)	420	
	Wrist bend (JT5)	420	
	Wrist twist (JT6)	780	
Allowable moment (N·m)	Wrist swivel (JT4)	60	
	Wrist bend (JT5)	60	
	Wrist twist (JT6)	32	
Allowable moment of inertia (kg·m²)	Wrist swivel (JT4)	2.6	
	Wrist bend (JT5)	2.6	
	Wrist twist (JT6)	1.3	
Mass (kg)		270	
Mounting		Floor	
Installation environment	Ambient temperature (°C)	0 - 45	
	Relative humidity (%)	35 - 85 (No dew, nor frost allowed)	
Degee of protection		IP67 or equivalent	
Controller/Power requirements		F02/7.5kVA	

*1: Conforms to ISO9283



RS030N/RS050N/RS080N			Standard Specifications
Type		Articulated robot	
Degree of freedom (axes)		6	
Payload (kg)		30/50/80	
Max. reach (mm)		2,100	
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)	185/185/160	
	Wrist swivel (JT4)	260/260/185	
	Wrist bend (JT5)	260/260/165	
	Wrist twist (JT6)	360/360/280	
Allowable moment (N·m)	Wrist swivel (JT4)	210/210/336	
	Wrist bend (JT5)	210/210/336	
	Wrist twist (JT6)	130/130/194	
Allowable moment of inertia (kg·m²)	Wrist swivel (JT4)	16.8/28/34	
	Wrist bend (JT5)	16.8/28/34	
	Wrist twist (JT6)	6.6/11/13.7	
Mass (kg)		555	
Mounting		Floor, Ceiling	
Installation environment	Ambient temperature (°C)	0 - 45	
	Relative humidity (%)	35 - 85 (No dew, nor frost allowed)	
Degee of protection		Wrist : IP67 or equivalent Base axes : IP65 or equivalent	
Controller/Power requirements		F02/7.5kVA	

*1: Conforms to ISO9283



F60

Features

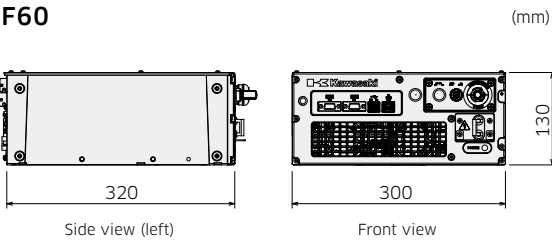
- Universal controller with common specifications for global use.
- Lightweight (8.3kg), reduced energy consumption, with enhanced integrated features.

Standard Specifications

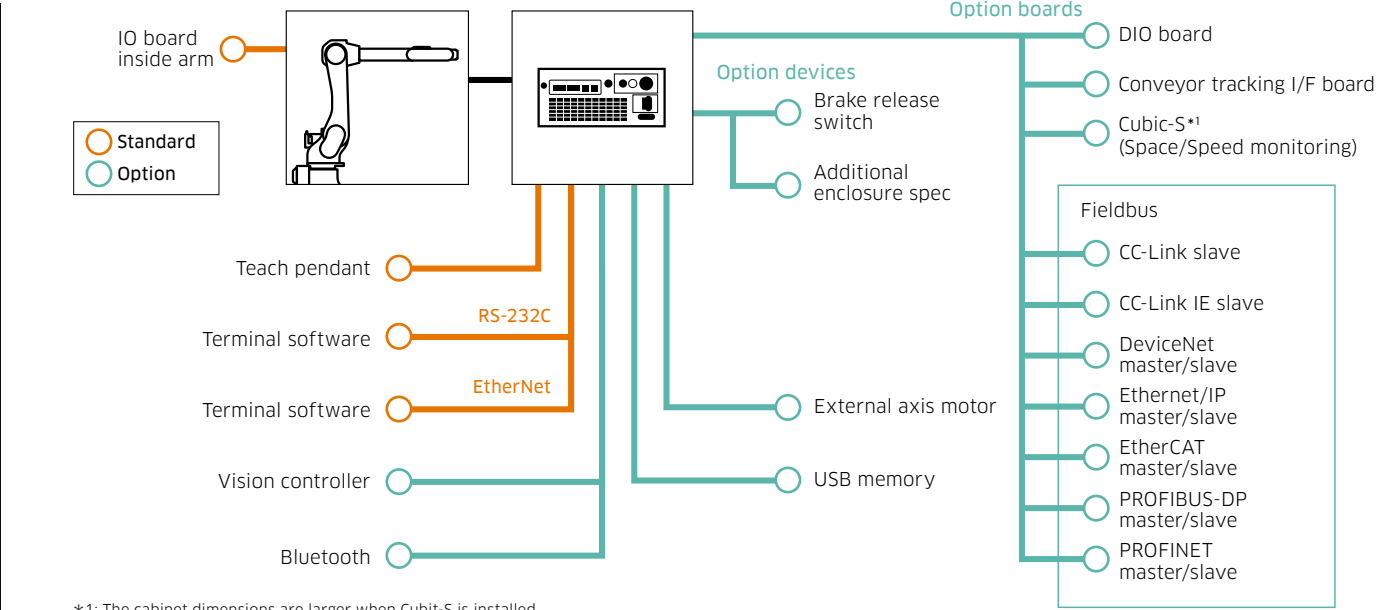
Dimensions (mm)		W300×D320×H130
Type		Open type indirect cooling system (IP20 or equivalent)
Controlled (axes)		6
Memory capacity (MB)		16
I/O signals	External operation	Motor power off, Hold
	Input (Channels)	16
	Output (Channels)	16
Cable length	Teach pendant (m)	5
	Robot-controller (m)	5
Mass (kg)		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		TFT color LCD display with touch-panel, E-Stop switch, Teach lock switch, Enable switch
Operation panel		E-stop switch, teach/repeat switch



External view and dimensions



System configuration



*1: The cabinet dimensions are larger when Cubit-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.)

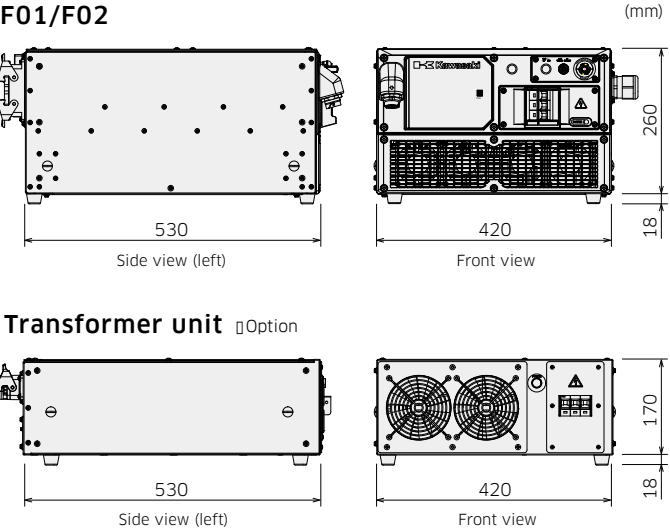
Standard Specifications

		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	

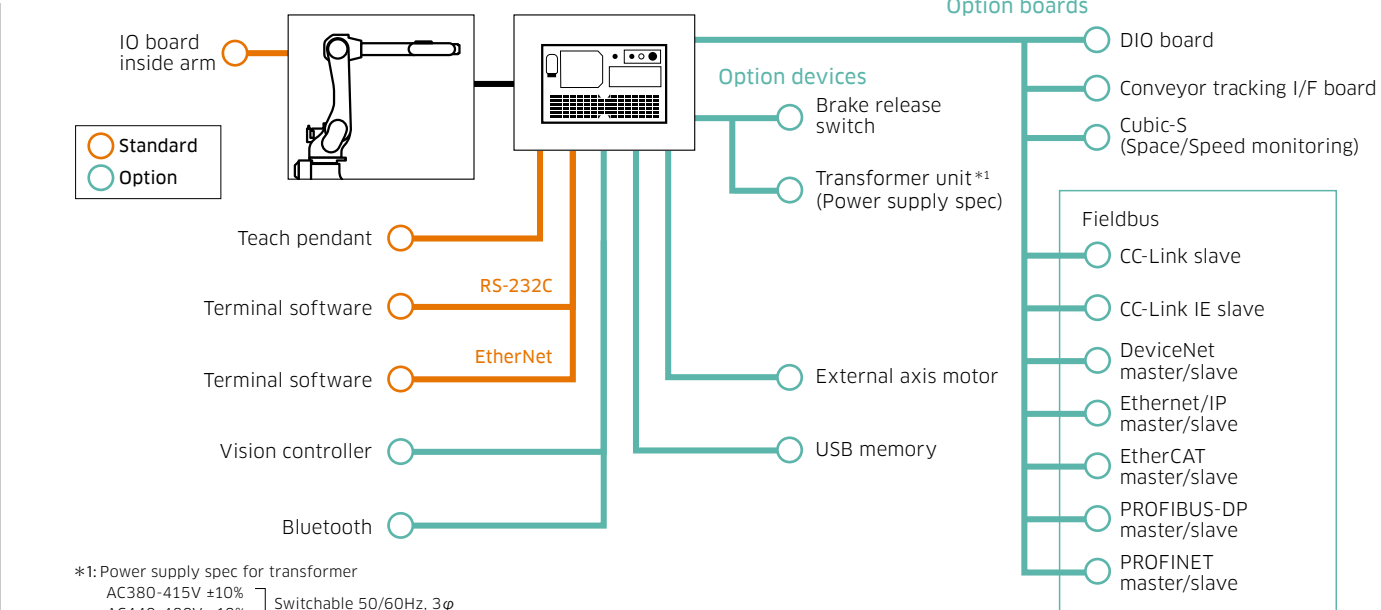
*1: 200V single phase is available for some robot models only.



External view and dimensions



System configuration



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