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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>



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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.

Kawasaki Robot

Sealing 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

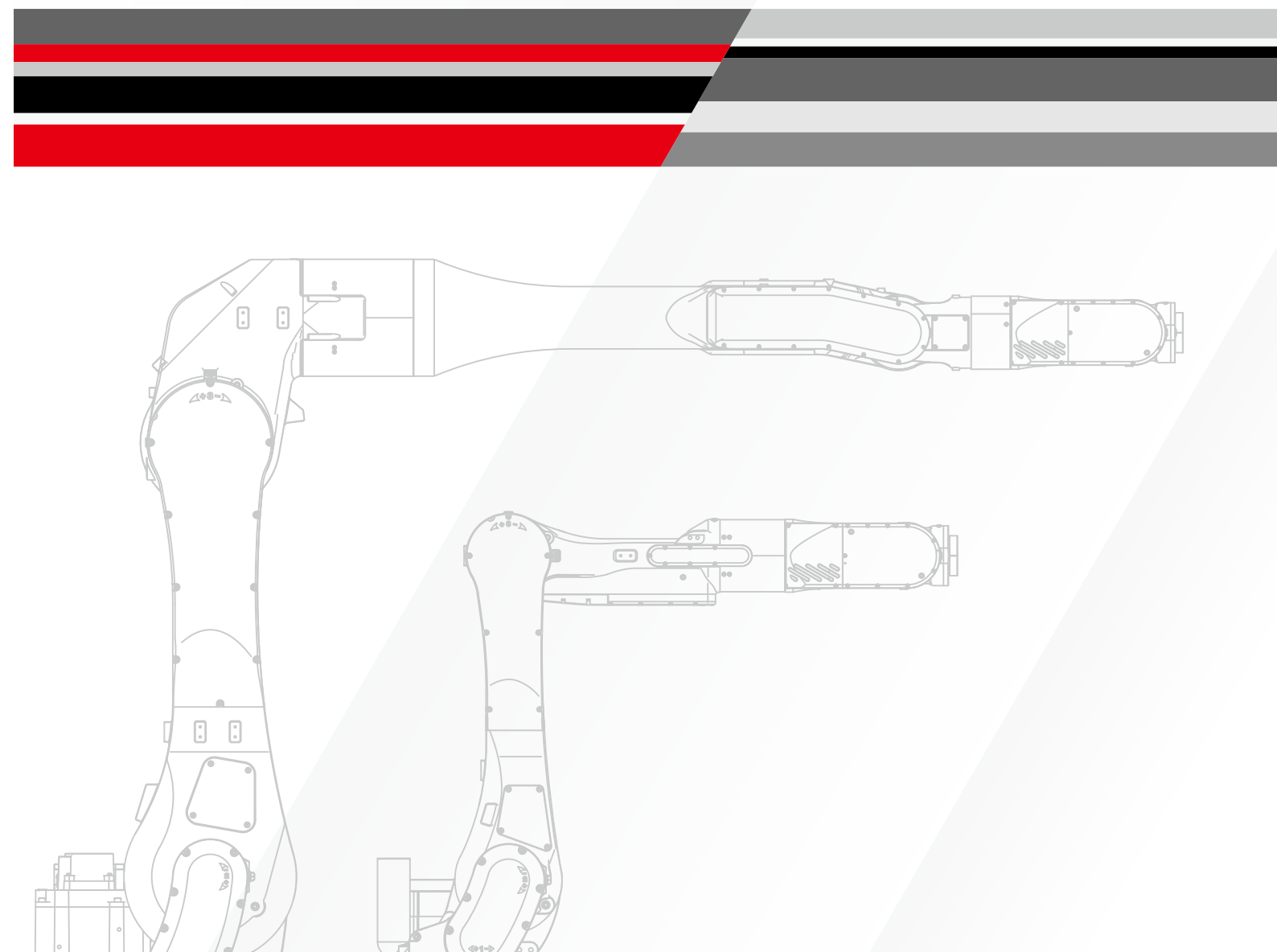
Arc welding robots

Palletizing robots

Medical & pharmaceutical robots

Picking robots

Wafer transfer robots



Sealing robots

Kawasaki sealing robots are of the non-explosion proof type. The BU series sealing robots cover a wide range of small to large workpieces for sealing and base-coating.

BU series

[Applications]



Sealing

Features

- Built-in cable and hoses
- Reduced interference for mirror operations.
- 7-axis design improves sealing capability (BU015X).



Controller

E51/E52

Features

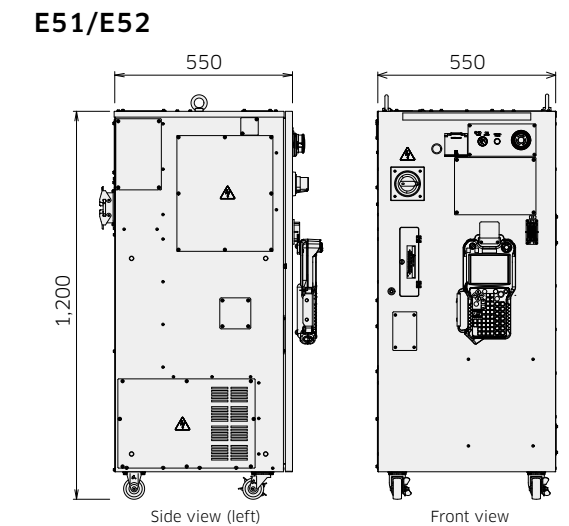
- The E51 and E52 controllers can be used anywhere in the world.
- Diverse options such as an interlock circuitry assure a high expandability.



Standard Specifications

		E51	E52
Dimensions (mm)		W550×D550×H1,200	
Type		Enclosed type, indirect cooling system	
Controlled (axes)		6	7
Memory capacity (MB)		8	
I/O signals		Motor power off, Hold	
		Input (Channels)	32
		Output (Channels)	32
Cable length		5	
		Teach pendant (m)	5
		Robot-controller (m)	5
Mass (kg)		110	
Power requirements		AC200 - AC220 V±10%, 50/60 Hz, 3Φ	
		Max. 5.6kVA	Max. 10kVA
Environmental conditions		0 - 45	
		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	

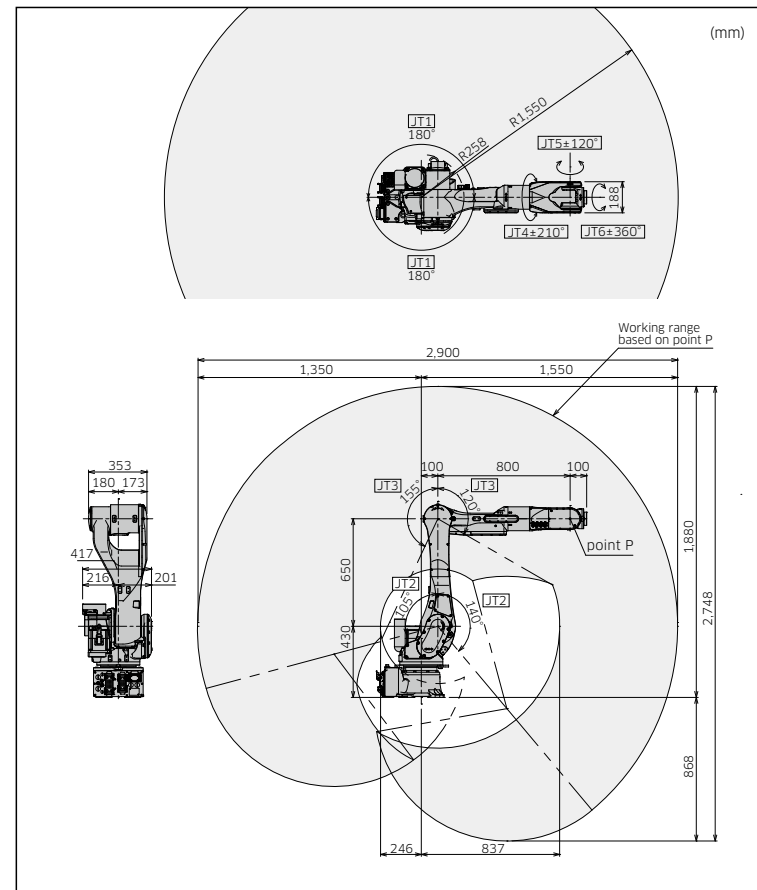
External view and dimensions



BU015N

Standard Specifications

Type		Articulated
Degree of freedom (axes)		6
Payload (kg)		15
Max. reach (mm)		1,550
Position repeatability*1 (mm)		±0.04
Motion range (°)	Arm rotation (JT1)	±180
	Arm out-in (JT2)	+140 - -105
	Arm up-down (JT3)	+155 - -120
	Wrist swivel (JT4)	±210
	Wrist bend 2 (JT5)	±120
	Wrist twist (JT6)	±360
Max. speed (°/s)	Arm rotation (JT1)	250
	Arm out-in (JT2)	250
	Arm up-down (JT3)	215
	Wrist swivel (JT4)	280
	Wrist bend 2 (JT5)	280
	Wrist twist (JT6)	360
Allowable moment (N·m)	Wrist swivel (JT4)	27.0
	Wrist bend 2 (JT5)	27.0
	Wrist twist (JT6)	22.0
Allowable moment of inertia*2 (kg·m ²)	Wrist swivel (JT4)	0.70
	Wrist bend 2 (JT5)	0.70
	Wrist twist (JT6)	0.25
Mass (kg)		160
Mounting		Floor
Installation environment	Ambient temperature (°C)	0 - 45
	Relative humidity (%)	35 - 85 (No dew, nor frost allowed)
Controller/Power requirements		E51/5.6KVA

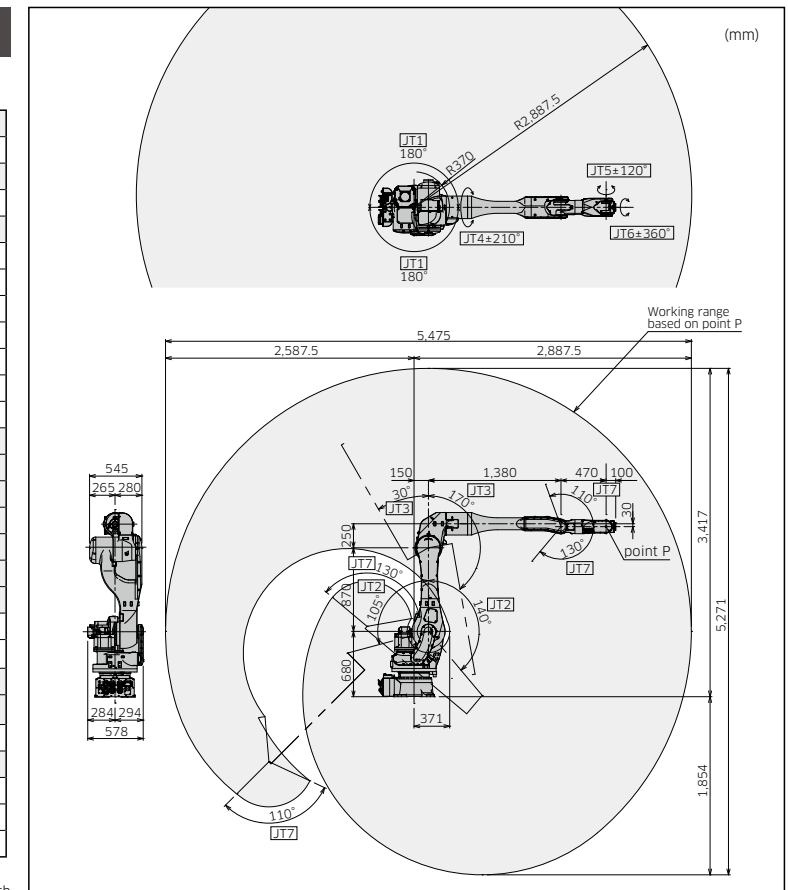


*1: Conforms to ISO9283
*2: Represents allowable moment of inertia when allowable maximum torque is loaded to each wrist axes.

BU015X

Standard Specifications

Type		Articulated
Degree of freedom (axes)		7
Payload (kg)		15
Max. reach (mm)		2,887.5
Position repeatability*1 (mm)		±0.06
Motion range (°)	Arm rotation (JT1)	±180
	Arm out-in (JT2)	+140 - -105
	Arm up-down (JT3)	+30 - -170
	Wrist swivel (JT4)	±210
	Wrist bend 1 (JT7)	+110 - -130
	Wrist bend 2 (JT5)	±120
	Wrist twist (JT6)	±360
Max. speed (°/s)	Arm rotation (JT1)	200
	Arm out-in (JT2)	200
	Arm up-down (JT3)	200
	Wrist swivel (JT4)	290
	Wrist bend 1 (JT7)	170
	Wrist bend 2 (JT5)	280
	Wrist twist (JT6)	360
Allowable moment (N·m)	Wrist bend 2 (JT5)	27.0
	Wrist twist (JT6)	22.0
Allowable moment of inertia*2 (kg·m ²)	Wrist bend 2 (JT5)	0.70
	Wrist twist (JT6)	0.25
Mass (kg)		590
Mounting		Floor
Installation environment	Ambient temperature (°C)	0 - 45
	Relative humidity (%)	35 - 85 (No dew, nor frost allowed)
Controller/Power requirements		E52/10KVA



*1: Conforms to ISO9283
*2: Represents allowable moment of inertia when allowable maximum torque is loaded to each wrist axes.