

## Kawasaki Heavy Industries, Ltd

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#### Kawasaki Robotics website

<https://kawasakirobotics.com/>



#### Kawasaki Robostage (showroom)

<https://kawasakirobotics.com/jp-sp/robostage/en/>



# 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

### Global Network

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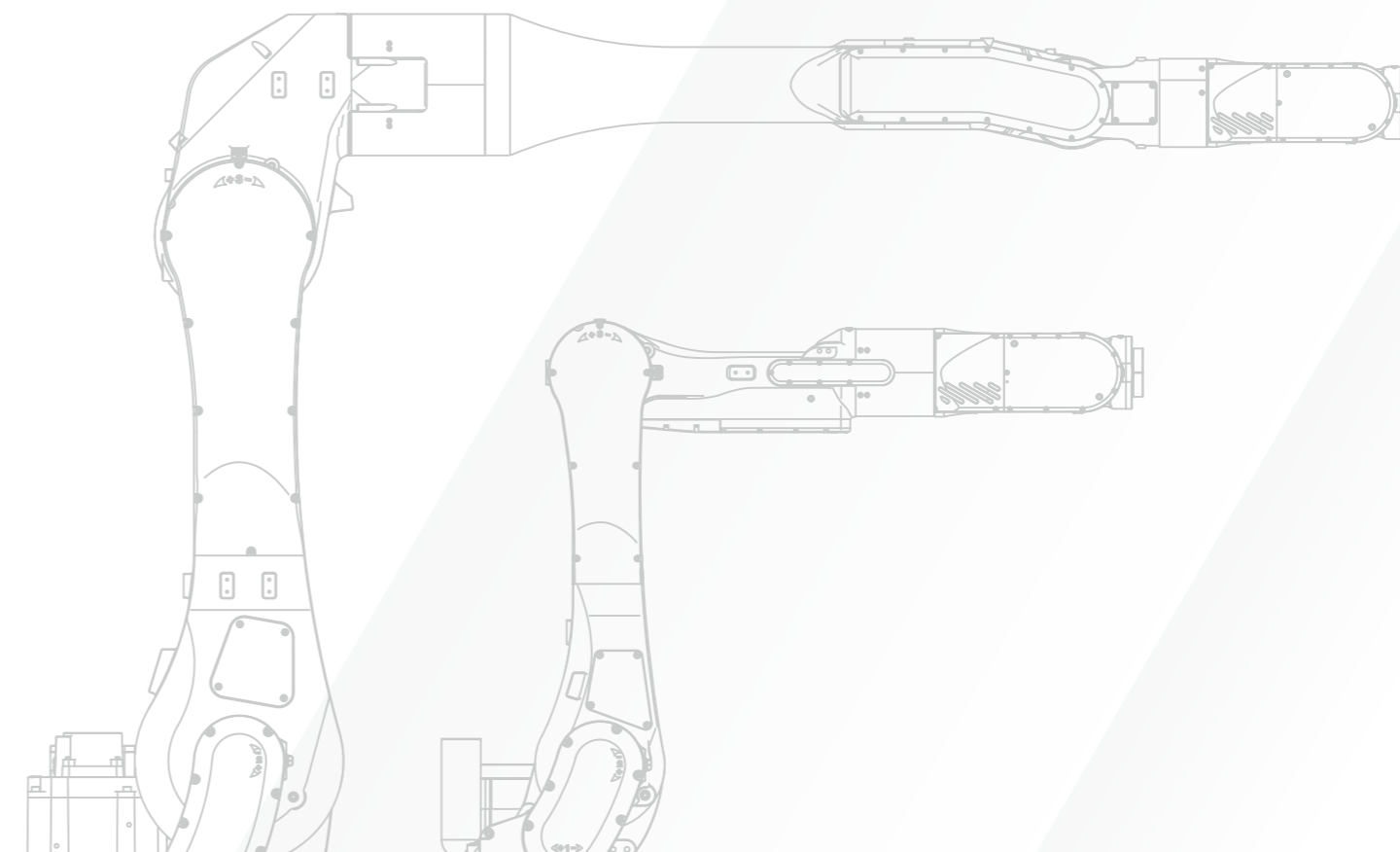
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Phone: +91-124-437-1845



#### 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.



# 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

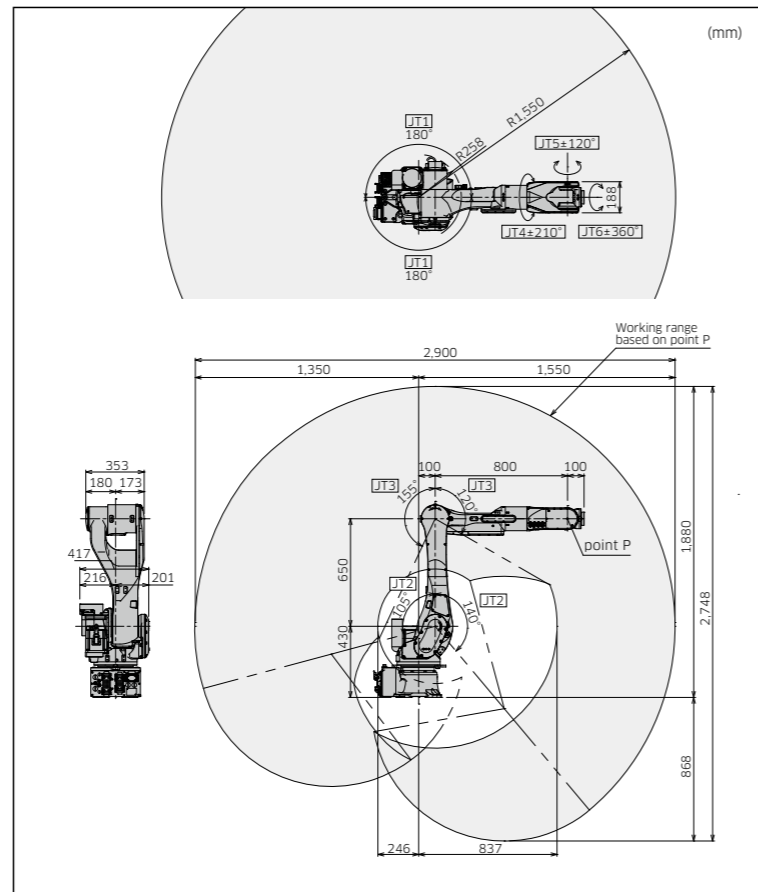
- Built-in cable and hoses
- Reduced interference for mirror operations.
- 7-axis design improves sealing capability (BU015X).

## 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
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
Allowable moment (N·m)	Wrist twist (JT6)	360
	Wrist swivel (JT4)	27.0
	Wrist bend 2 (JT5)	27.0
Allowable moment of inertia*2 (kg·m <sup>2</sup> )	Wrist twist (JT6)	22.0
	Wrist swivel (JT4)	0.70
	Wrist bend 2 (JT5)	0.70
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.



## Controller

# E51/E52

### Features

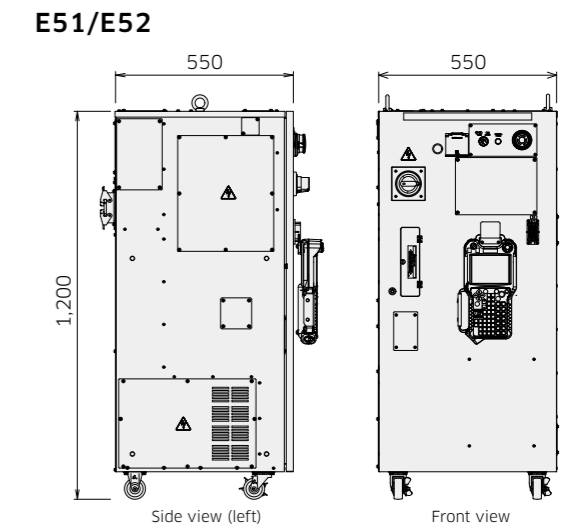
- The E51 and E52 controllers can be used anywhere in the world.
- Diverse options such as an interlock circuitry assure a high expandability.



### 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	External operation	Motor power off, Hold
	Input (Channels)	32
Cable length	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	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



## 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
Allowable moment (N·m)	Wrist bend 2 (JT5)	280
	Wrist twist (JT6)	360
	Wrist bend 2 (JT5)	27.0
Allowable moment of inertia*2 (kg·m <sup>2</sup> )	Wrist twist (JT6)	22.0
	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.

