

ROBOT  
SEARCH



# RS080N Robot

## HIGH-SPEED, HIGH-PERFORMANCE ROBOT

The RS080N robot has a payload capacity of 80 kg, the highest of the R series robots, which are setting the benchmark for all small to medium duty industrial robots. The compact design, along with industry leading speed, reach and work range make the R series robots ideal for a wide range of applications throughout a multitude of diverse industries.

### RS080N Overview:

Payload **80 kg**  
Max.Reach **2,100 mm**



### Applications:

- [Assembly](#)
- [Machine Tending](#)
- [Material Handling](#)
- [Material Removal](#)
- [Sealing / Dispensing](#)

## DATA DOWNLOAD

- [Brochure](#)
- [Specifications](#)
- [2D CAD Drawings \(DXF\)](#)
- [3D CAD Model \(STEP\)](#)
- [Installation & Connection Manual](#)

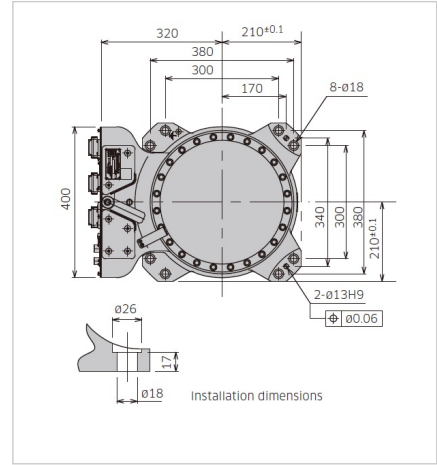
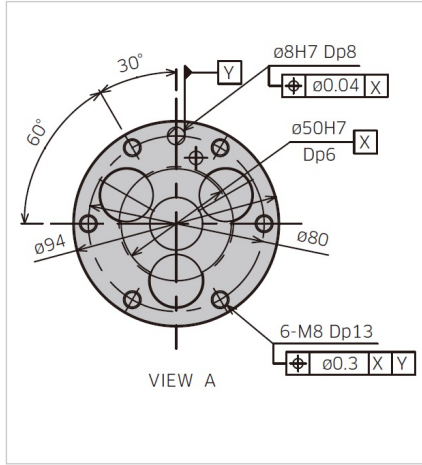
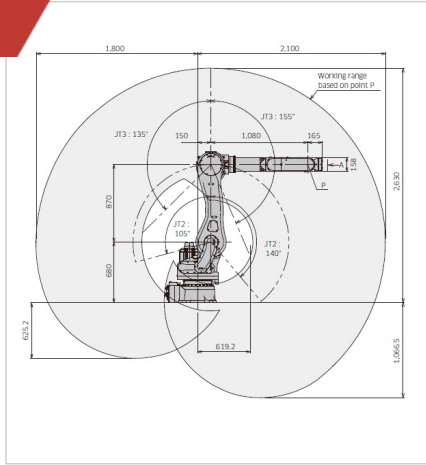
※ Before using CAD data, please be sure to read disclaimer [here](#).

## MOTION RANGE & DIMENSIONS

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See the drawings below to view. Dimensions shown are in (mm).



## RS080N SPECIFICATIONS

RS080N SPECIFICATIONS		
<b>Type</b>	Articulated Robot	
<b>Degrees of Freedom (axes)</b>	6	
<b>Payload (kg)</b>	80	
<b>Max. Reach (mm)</b>	2,100	
<b>Positional Repeatability (mm) *1</b>	±0.06	
<b>Motion Range (°)</b>	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
<b>Max. Speed (°/s)</b>	Arm Rotation (JT1)	180
	Arm Out-in (JT2)	180
	Arm Up-down (JT3)	160
	Wrist Swivel (JT4)	185
	Wrist Bend (JT5)	165
	Wrist Twist (JT6)	280
<b>Allowable Moment (N•m)</b>	Wrist Swivel (JT4)	336
	Wrist Bend (JT5)	336
	Wrist Twist (JT6)	194
<b>Allowable Moment of Inertia (kg•m<sup>2</sup>)</b>	Wrist Swivel (JT4)	34
	Wrist Bend (JT5)	34
	Wrist Twist (JT6)	13.7
<b>Mass (kg)</b>	555	
<b>Mounting</b>	Floor, Ceiling	
<b>Installation Environment</b>	Ambient Temperature (°C)	0 - 45

	Relative Humidity (%)	35 - 85 (No dew, nor frost allowed)
<b>Controller / Power Requirements (kVA)</b>	E02 / 7.5	
<b>Protection</b>	Wrist : IP67 equivalent / Base axis : IP65 equivalent	

\*1: The figure conforms to ISO9283.



## Contact

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