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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

Palletizing 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

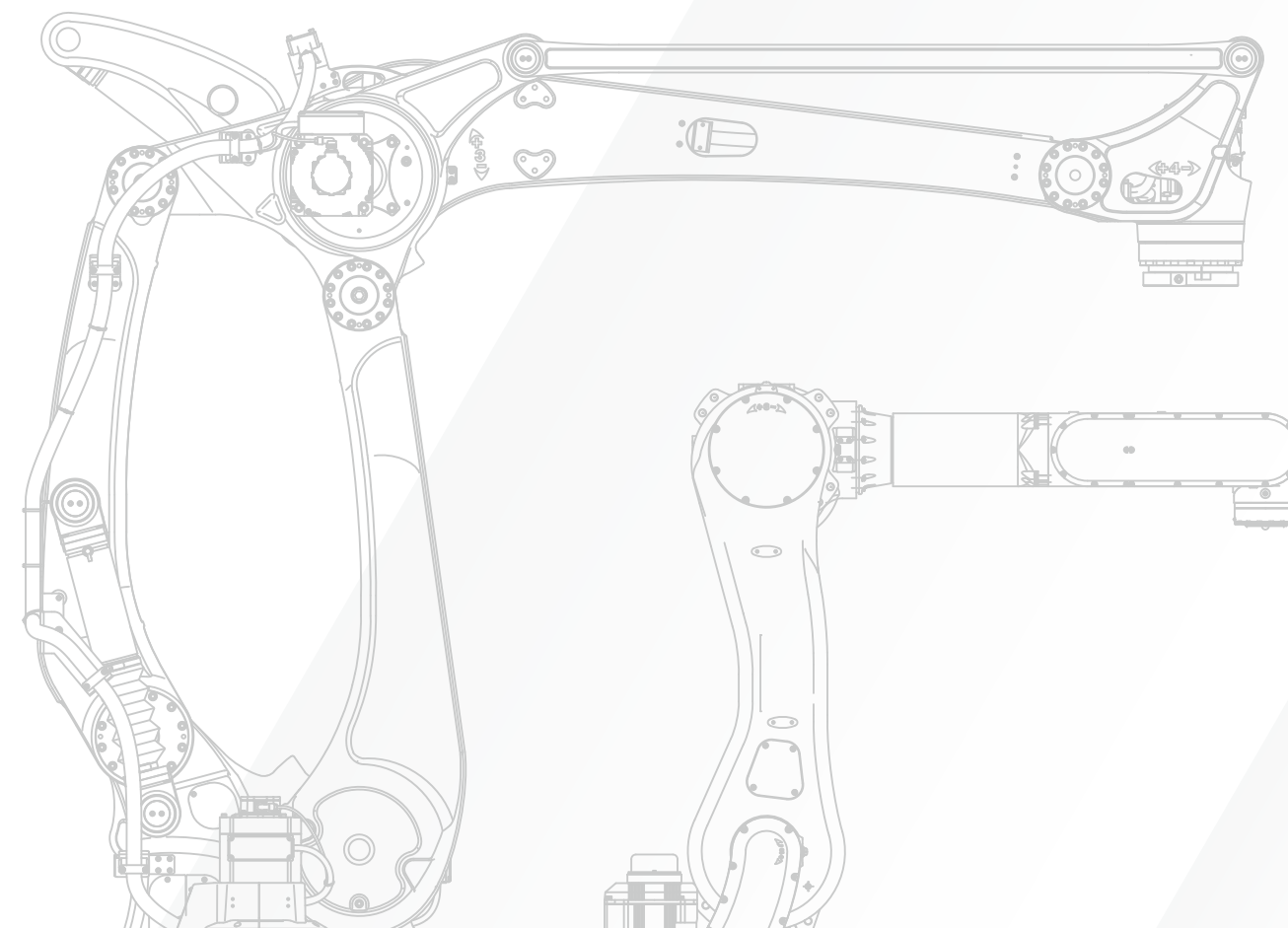
Wafer transfer robots

Collaborative robots



CAUTIONS TO BE TAKEN TO ENSURE SAFETY

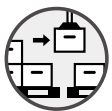
- For those persons involved with the operation / service of your system, including Kawasaki Robot, they must strictly observe all safety regulations at all times. They should carefully read the Manuals and other related safety documents.
- Products described in this catalogue are general industrial 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.



Palletizing Robots

Kawasaki's line of palletizing robots built to tackle end-of-line tasks offers industry-leading speeds and a payload range of 80 to 700 kg, helping companies exceed production goals by boosting efficiency, addressing labor shortages, and increasing throughput.

{Applications}



Palletizing

Features

- Smart design, flexible lineup for a wide range of products.
- Extended vertical reach capability for tall pallet creation and multi-lane applications.
- Cubic-S: safety-rated hardware & software for advanced safety monitoring.

CP series

The CP Series, with payloads of 180/300/500/700 kg, maximizes palletizing & depalletizing throughput in a wide range of industries.



CP180L/300L



CP500L



CP700L

RD series

With a payload of 80 kg and a compact design, the RD series is a high-speed palletizing robot with a unique 5-axis design allowing floor or ceiling installation in confined spaces.



RD080N

CP180L/300L

Standard Specifications

Type	Articulated robot	
Degree of freedom (axes)	4	
Payload (kg)	180/300	
Max. reach (mm)	3,255	
Position repeatability*1 (mm)	±0.5	
Motion range (°)	Arm rotation (JT1)	±160
	Arm out-in (JT2)	+95 - -46
	Arm up-down (JT3)	+15 - -110
	Wrist swivel (JT4)	±360
Max. speed (°/s)	Arm rotation (JT1)	130/100
	Arm out-in (JT2)	125/90
	Arm up-down (JT3)	125/90
	Wrist swivel (JT4)	330/220
Allowable moment of inertia (kg·m²)	Wrist swivel (JT4)	85/140
Mass (kg)	1,600	
Mounting	Floor	
Installation environment	Ambient temperature (°C)	0 - 45
	Relative humidity (%)	35 - 85 (No dew, nor frost allowed)
Controller/Power requirements	F03/12kVA	

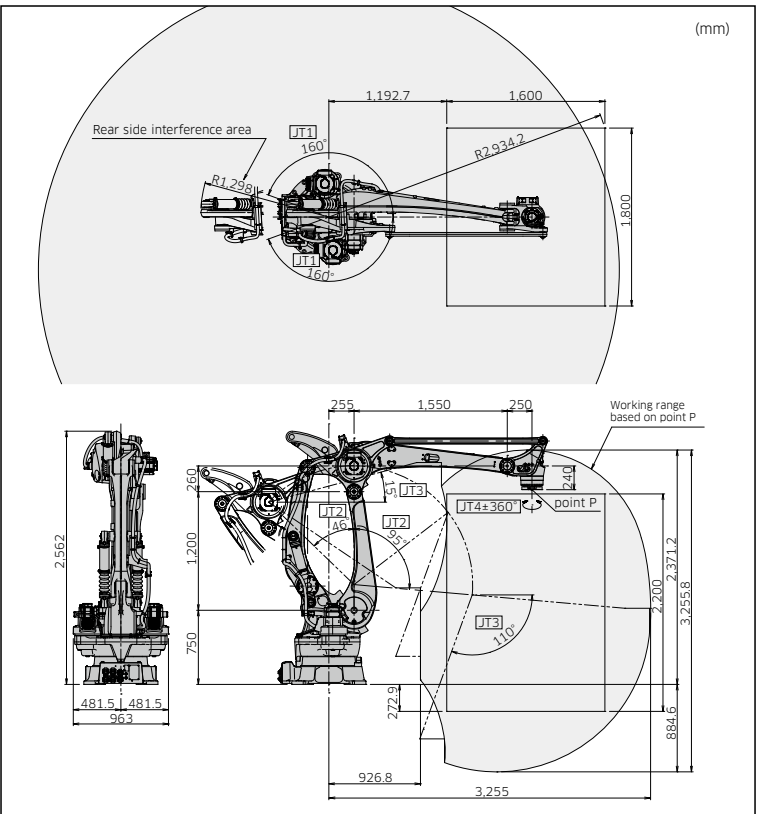
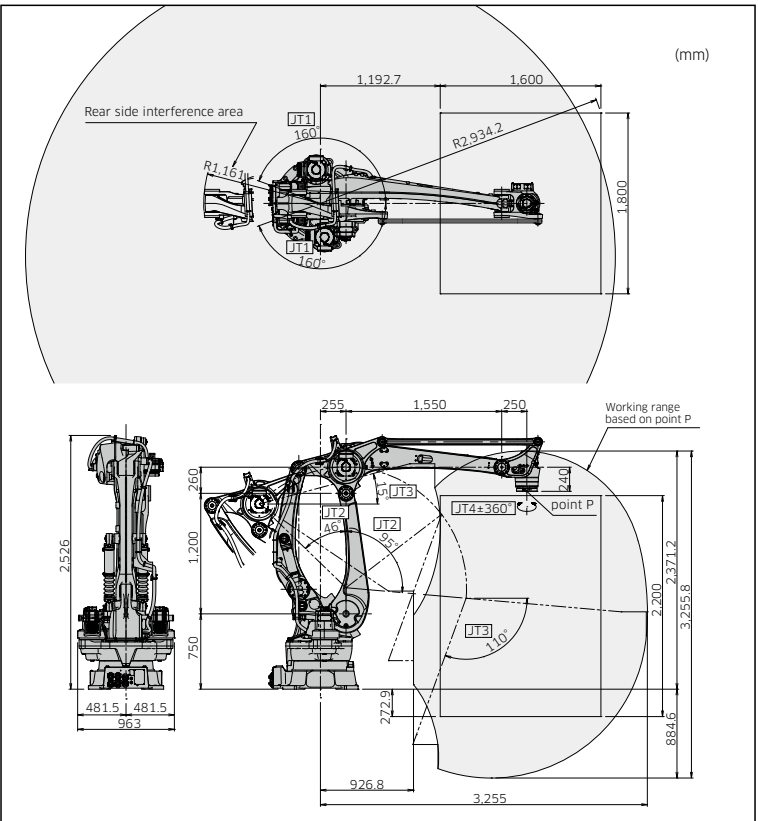
*1: Conforms to ISO9283

CP500L

Standard Specifications

Type	Articulated robot	
Degree of freedom (axes)	4	
Payload (kg)	500	
Max. reach (mm)	3,255	
Position repeatability*1 (mm)	±0.5	
Motion range (°)	Arm rotation (JT1)	±160
	Arm out-in (JT2)	+95 - -46
	Arm up-down (JT3)	+15 - -110
	Wrist swivel (JT4)	±360
Max. speed (°/s)	Arm rotation (JT1)	85
	Arm out-in (JT2)	80
	Arm up-down (JT3)	80
	Wrist swivel (JT4)	180
Allowable moment of inertia (kg·m²)	Wrist swivel (JT4)	250
Mass (kg)	1,650	
Mounting	Floor	
Installation environment	Ambient temperature (°C)	0 - 45
	Relative humidity (%)	35 - 85 (No dew, nor frost allowed)
Controller/Power requirements	F03/12kVA	

*1: Conforms to ISO9283

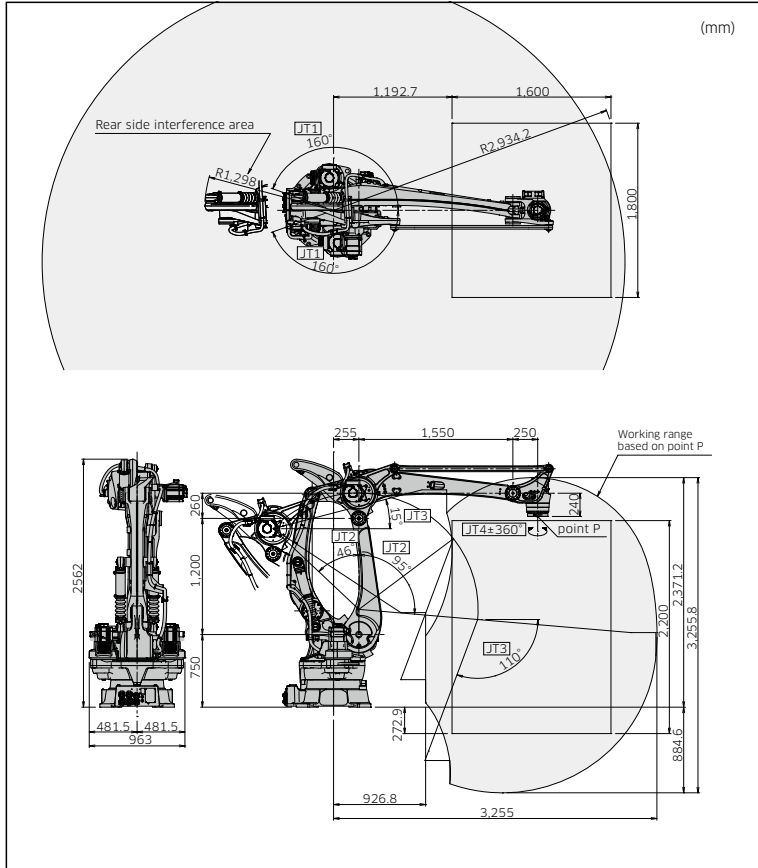


CP700L

Standard Specifications

Type	Articulated robot	
Degree of freedom (axes)	4	
Payload (kg)	700	
Max. reach (mm)	3,255	
Position repeatability*1 (mm)	±0.5	
Motion range (°)	Arm rotation (JT1)	±160
	Arm out-in (JT2)	+95 - -46
	Arm up-down (JT3)	+15 - -110
	Wrist swivel (JT4)	±360
Max. speed (°/s)	Arm rotation (JT1)	75
	Arm out-in (JT2)	65
	Arm up-down (JT3)	65
	Wrist swivel (JT4)	170
Allowable moment of inertia (kg·m²)	Wrist swivel JT4	500
Mass (kg)	1,650	
Mounting	Floor	
Installation environment	Ambient temperature (°C)	0 - 45
	Relative humidity (%)	35 - 85 (No dew, nor frost allowed)
Controller/Power requirements	F03/12kVA	

*1: Conforms to ISO9283



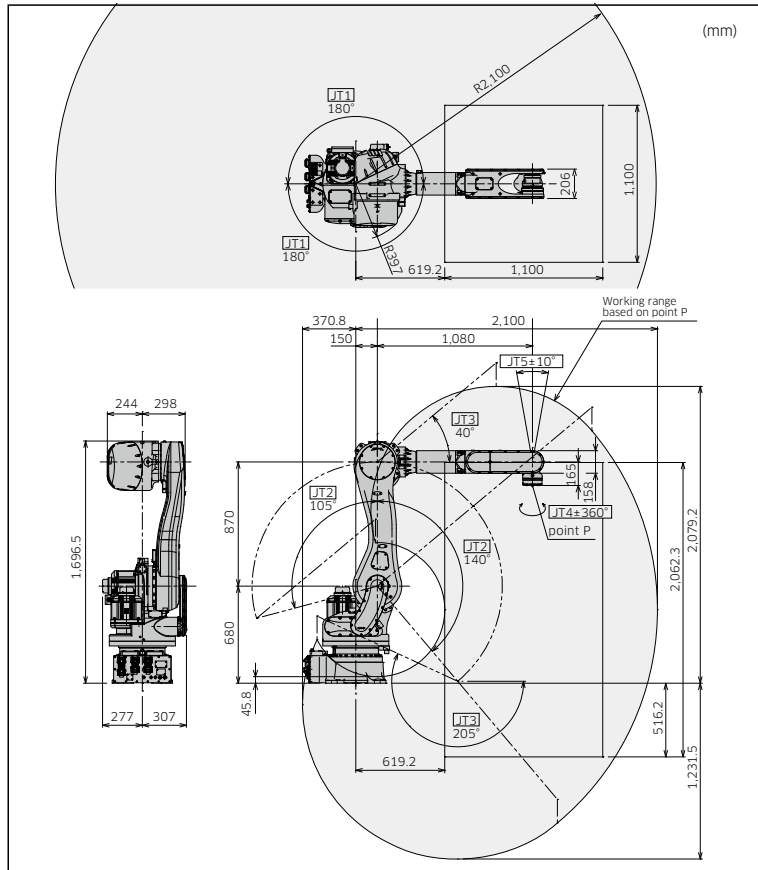
RD080N

Standard Specifications

Type	Articulated robot	
Degree of freedom (axes)	5	
Payload (kg)	80	
Max. reach (mm)	2,100	
Position repeatability ^{*1} (mm)	±0.07	
Motion range (°)	Arm rotation (JT1)	±180
	Arm out-in (JT2)	+140 - -105
	Arm up-down (JT3)	+40 - -205
	Wrist swivel (JT4)	±360
	Wrist compensation (JT5)	±10 ^{*2}
Max. speed (°/s)	Arm rotation (JT1)	180
	Arm out-in (JT2)	180
	Arm up-down (JT3)	175
	Wrist swivel (JT4)	360
Allowable moment of inertia (kg·m ²)	Wrist swivel (JT4)	13.7
Mass (kg)	540	
Mounting	Floor	
Installation environment	Ambient temperature (°C)	0 - 45
	Relative humidity (%)	35 - 85 (No dew, nor frost allowed)
Controller/Power requirements	F03/12kVA	

*1: Conforms to ISO9283

*2: Operating angle of the JT5 is ± 10 degrees perpendicular to the ground.



F03

Features

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

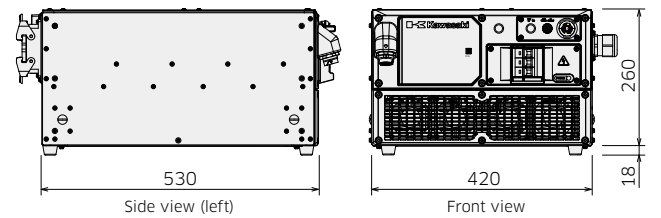
Standard Specifications

Dimensions (mm)		W420×D530×H278
Type		Enclosed type, indirect cooling system
Controlled (axes)		5
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)		30
Power requirements		AC200V - AC220V ±10%, 50/60Hz, 3φ AC200V - AC230V ±10%, 50/60Hz, 1φ
		Max. 12kVA
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

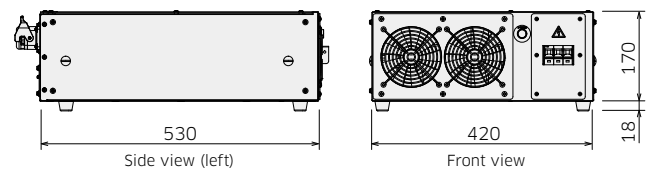


External view and dimensions

F03



Transformer unit ☐ Option



System configuration

