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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

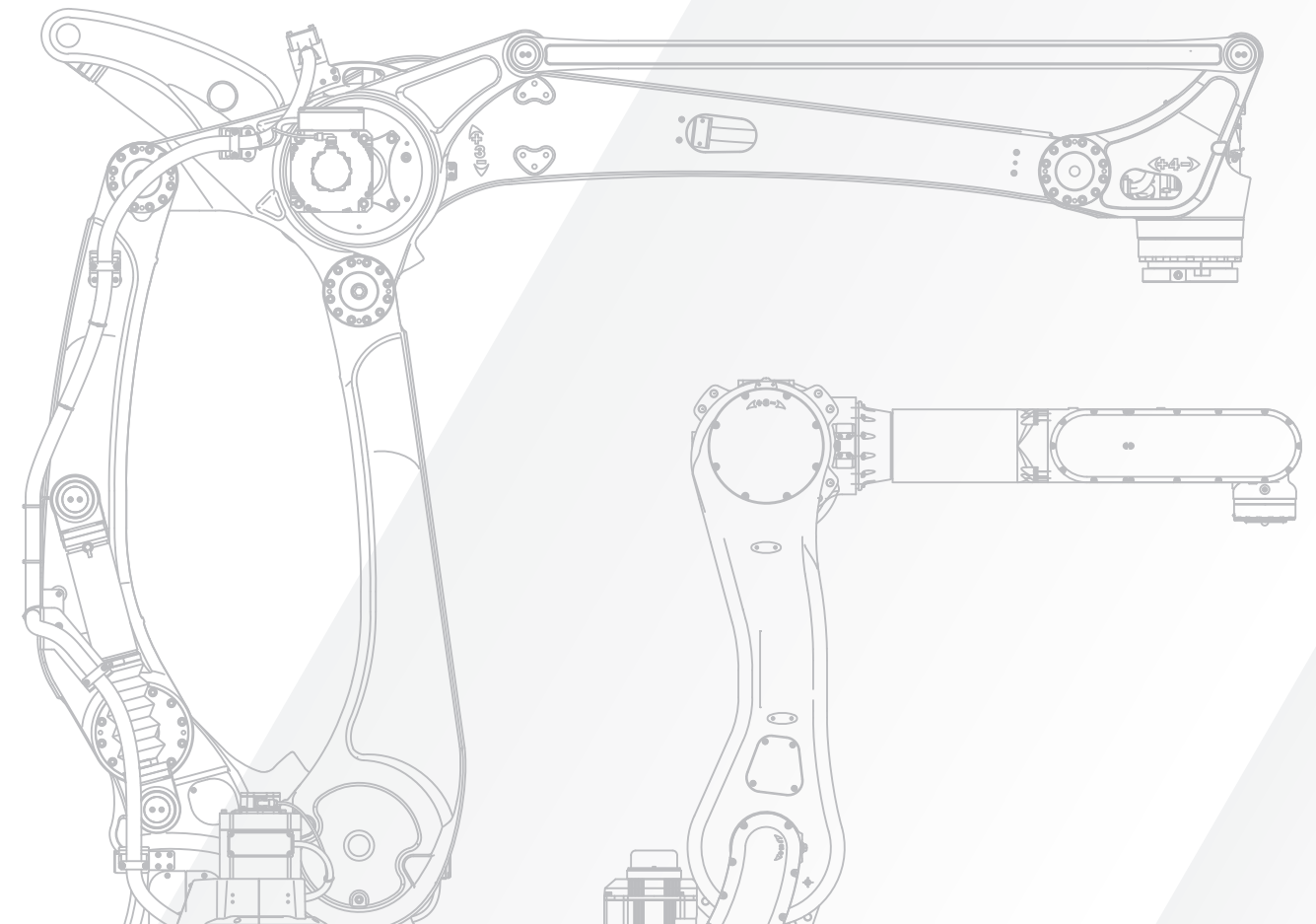
Wafer transfer robots

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.

CP series

The CP series covers 110, 180, 300, 500 and 700 kg payload. These five models achieve a high productivity of palletizing in diverse industries.



CP110L

CP180L/300L

CP500L/700L

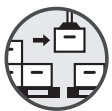
RD series

The RD series palletizing robot has the payload capacity of 80 kg. Thanks to its compact arm design, it can be installed in a confined space.



RD080N

{Applications}



Palletizing

CP110L

Standard Specifications

Type	Articulated robot	
Degree of freedom (axes)	4	
Payload (kg)	110	
Max. reach (mm)	2,505	
Position repeatability*1 (mm)	±0.05	
Motion range (°)	Arm rotation (JT1)	±180
	Arm out-in (JT2)	+100 - -40
	Arm up-down (JT3)	+13 - -112
	Wrist swivel (JT4)	±360
Max. speed (°/s)	Arm rotation (JT1)	145
	Arm out-in (JT2)	140
	Arm up-down (JT3)	170
	Wrist swivel (JT4)	420
Allowable moment of inertia (kg·m²)	Wrist swivel	70
Mass (kg)	820	
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

CP180L/300L

Standard Specifications

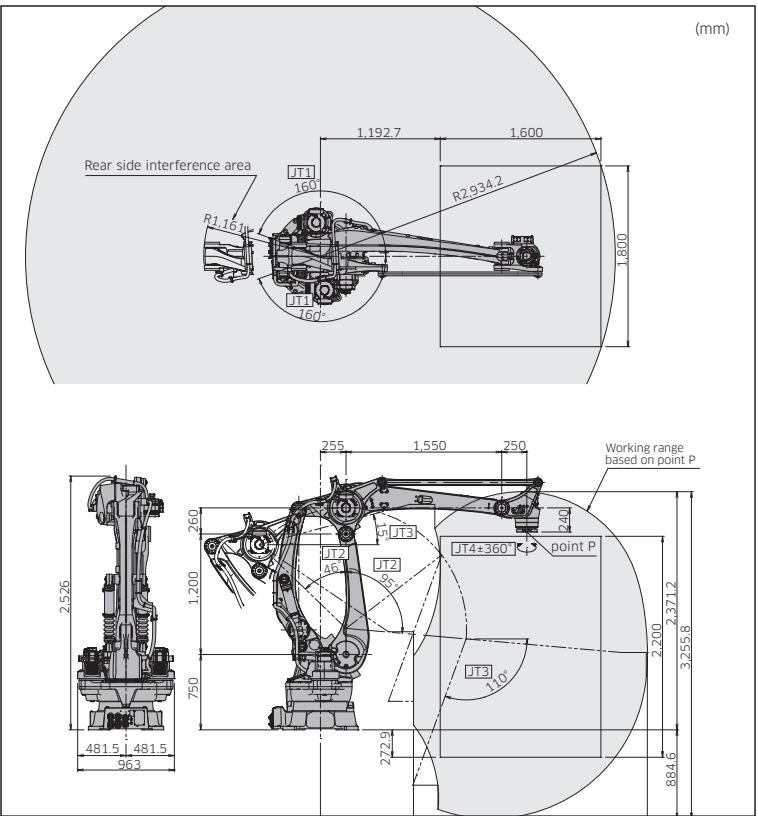
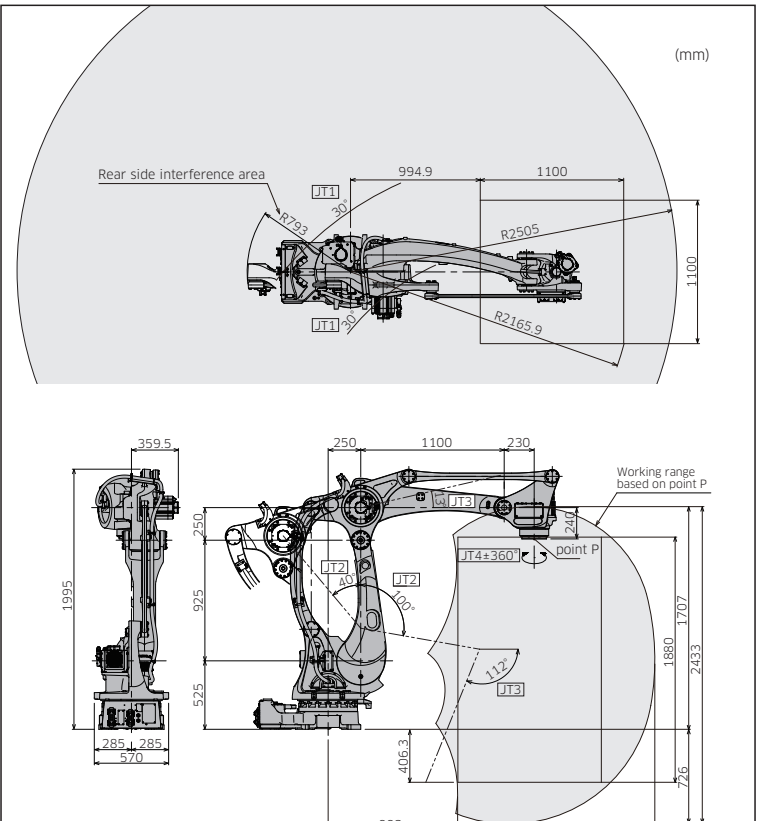
		CP180L		CP300L	
Type		Articulated robot			
Degree of freedom (axes)		4			
Max. reach (mm)		3,255			
Position repeatability*1 (mm)		±0.5			
Motion range (°)	Arm rotation (JT1)	±160			
	Arm out-in (JT2)	+95 - -46			
	Arm up-down (JT3)	+15 - -110			
	Wrist swivel (JT4)	±360			
Payload (kg)		130	180	250	300
Max. speed*2 (°/s)	Arm rotation (JT1)	140	130	115	100
	Arm out-in (JT2)	125	120	100	90
	Arm up-down (JT3)	130	125	100	90
	Wrist swivel (JT4)	400	330	250	220
Allowable moment of inertia (kg·m²)	Wrist swivel (JT4)	50	85	100	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

*2: The maximum speed varies depending on the load setting.

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.

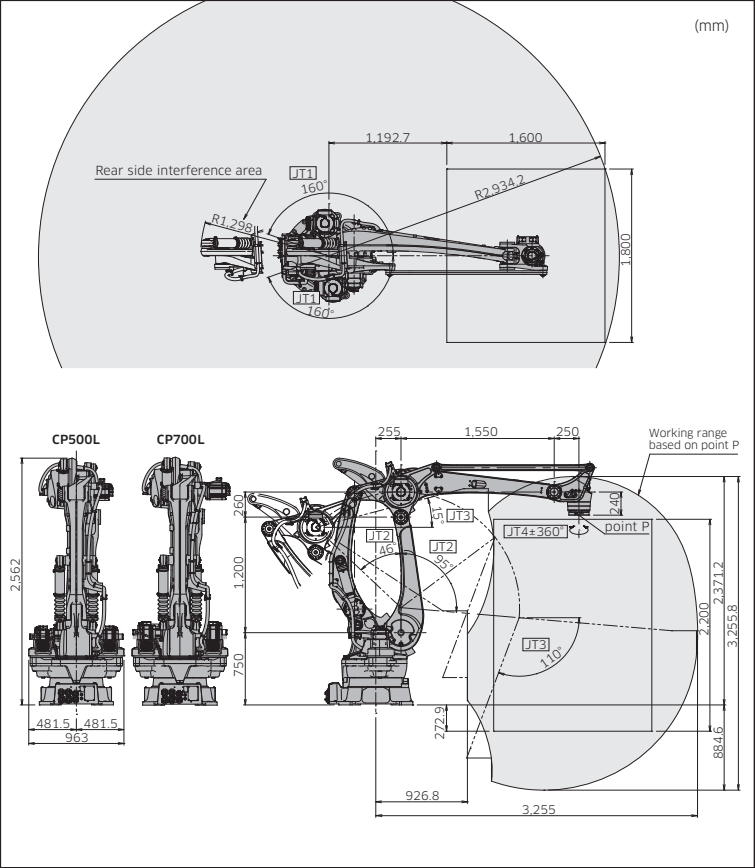


CP500L/700L

Standard Specifications

		CP500L	CP700L
Type		Articulated robot	
Degree of freedom (axes)		4	
Payload (kg)		500	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)	85	75
	Arm out-in (JT2)	80	65
	Arm up-down (JT3)	80	65
	Wrist swivel (JT4)	180	170
Allowable moment of inertia (kg·m ²)	Wrist swivel	250	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

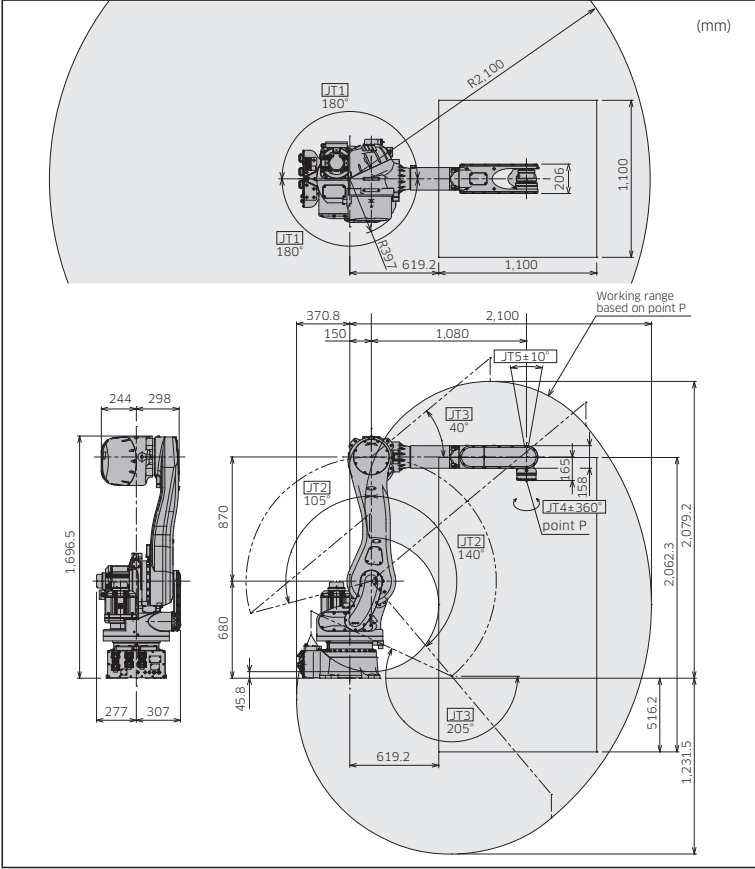


RD080N

Standard Specifications

		Articulated robot
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·m²)		13.7
Wrist swivel (JT4)		
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.



Controller

F03

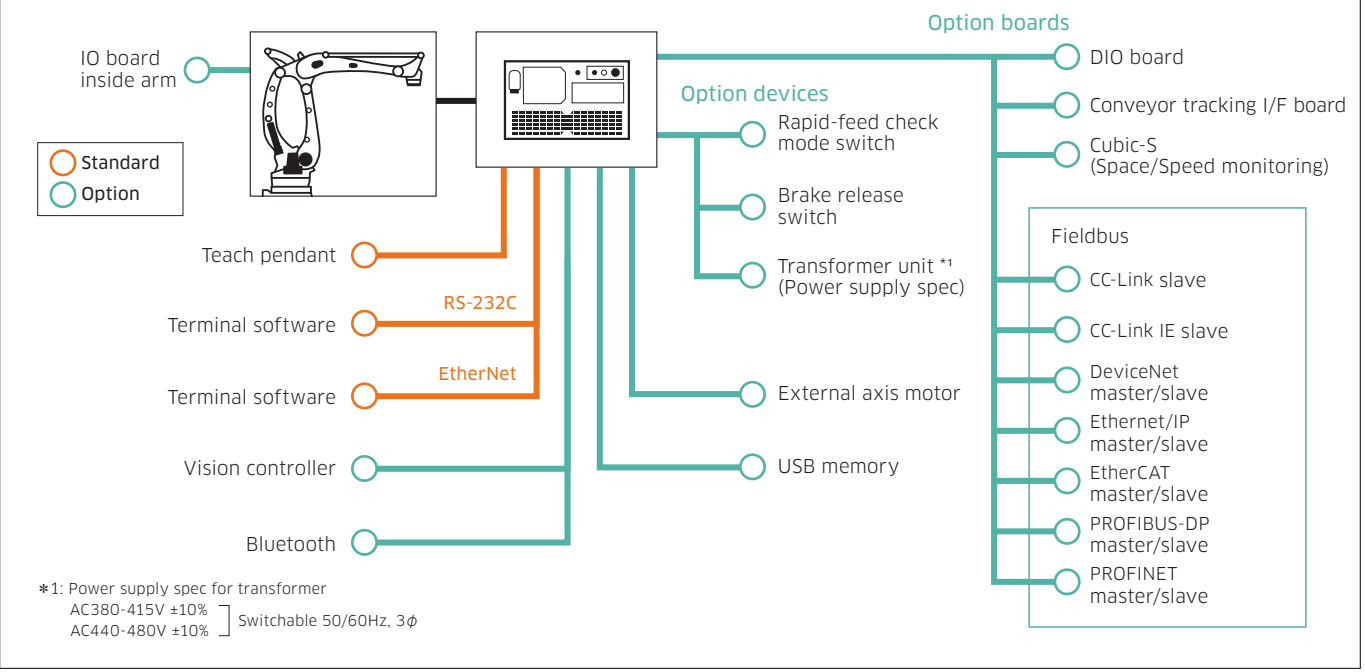
Features

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

Standard Specifications

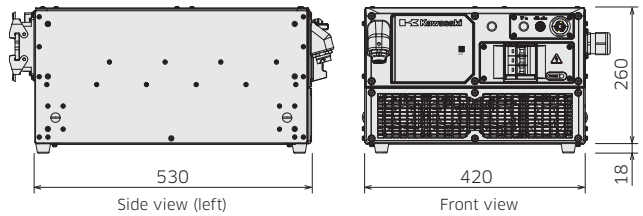
Dimensions (mm)		W420×D530×H278
Type		Enclosed type, indirect cooling system
Controlled (axes)		5
Memory capacity (MB)		16
I/O signals	External operation	Motor power off, Hold
	Input (Channels)	32
	Output (Channels)	32
Cable length	Teach pendant (m)	5
	Robot-controller (m)	5
Mass (kg)		30
Power requirements		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

System configuration



External view and dimensions

F03



Transformer unit *Option

