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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

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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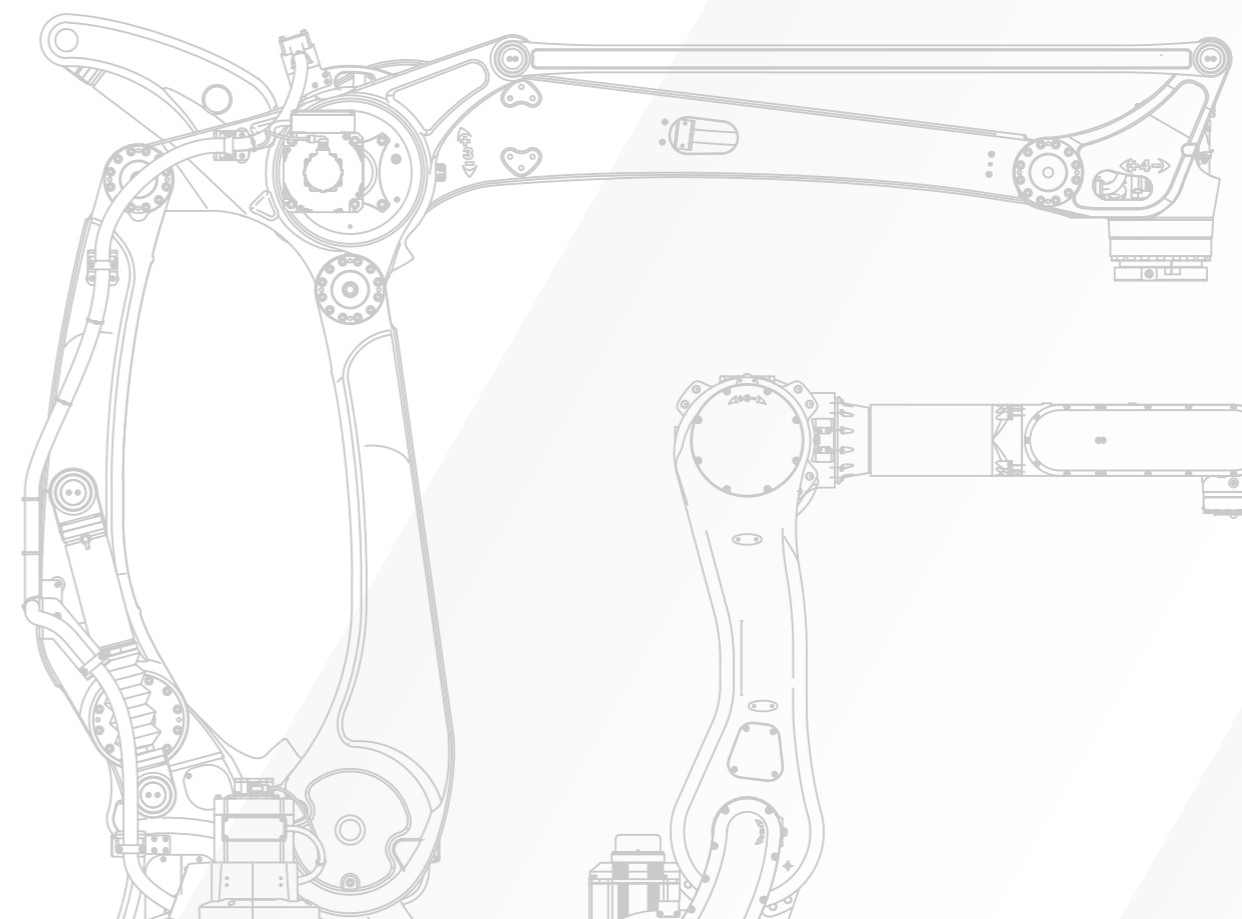
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CAUTIONS TO BE TAKEN TO ENSURE SAFETY

- 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 offers a wide range of palletizing robots from 80 to 700 kg payload. The full product lineup delivers high throughput palletizing and solutions for labor shortage in the logistic industry and in-house factory logistics.

CP series

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



CP180L/300L

CP500L

CP700L

RD series

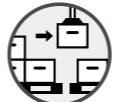
The RD series palletizing robot has the payload capacity of 80 kg. Thanks to its compact arm design, it can be installed in a confined space.



RD080N



CP/RD series

[Applications]  Palletizing

Features

- The full lineup covers diverse weights and sizes of workpieces.
- The industry-leading speed achieves an efficient palletizing system.
- The Cubic-S (an optional safety monitoring function) achieves safe operations of the system.

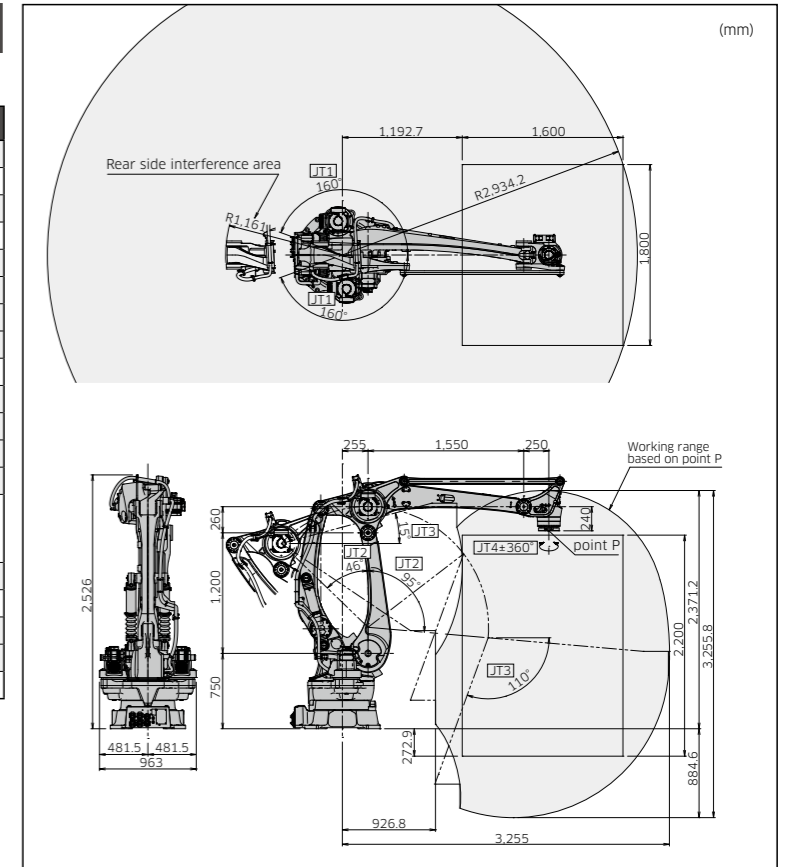
CP180L/300L

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·m ²) | 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.

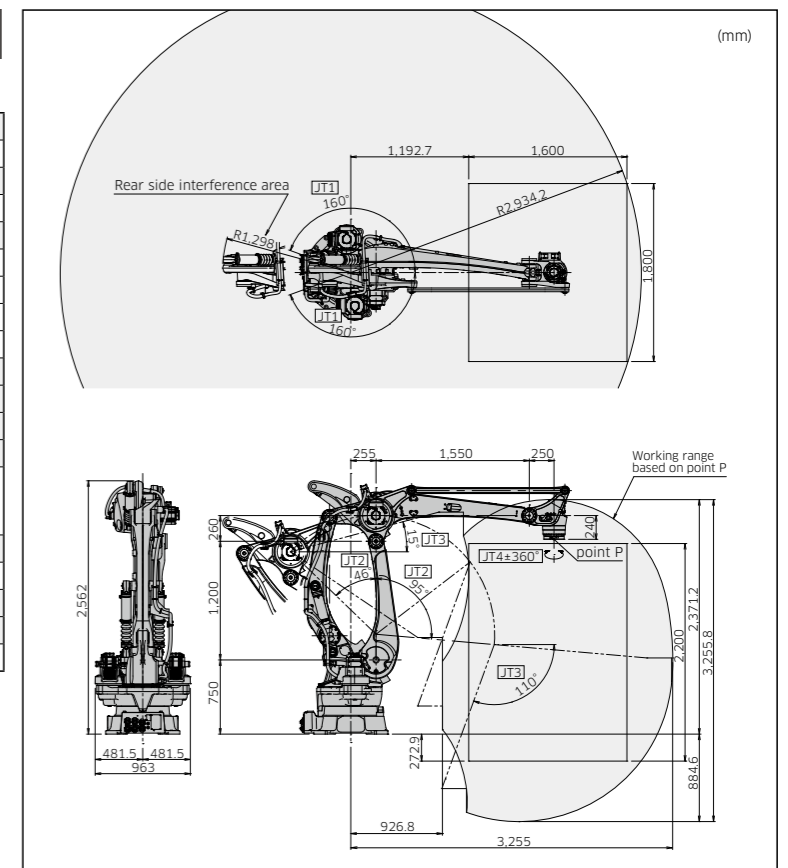


CP500L

Standard Specifications

| | | CP500L | |
|--|--------------------------|-------------------------------------|--|
| 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·m ²) | 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

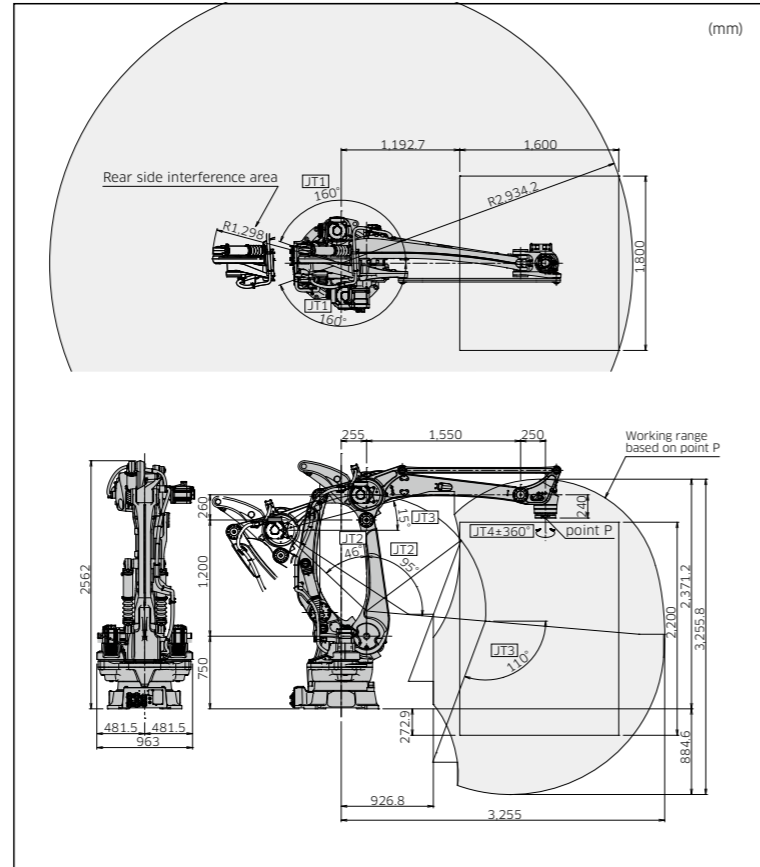


F03

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

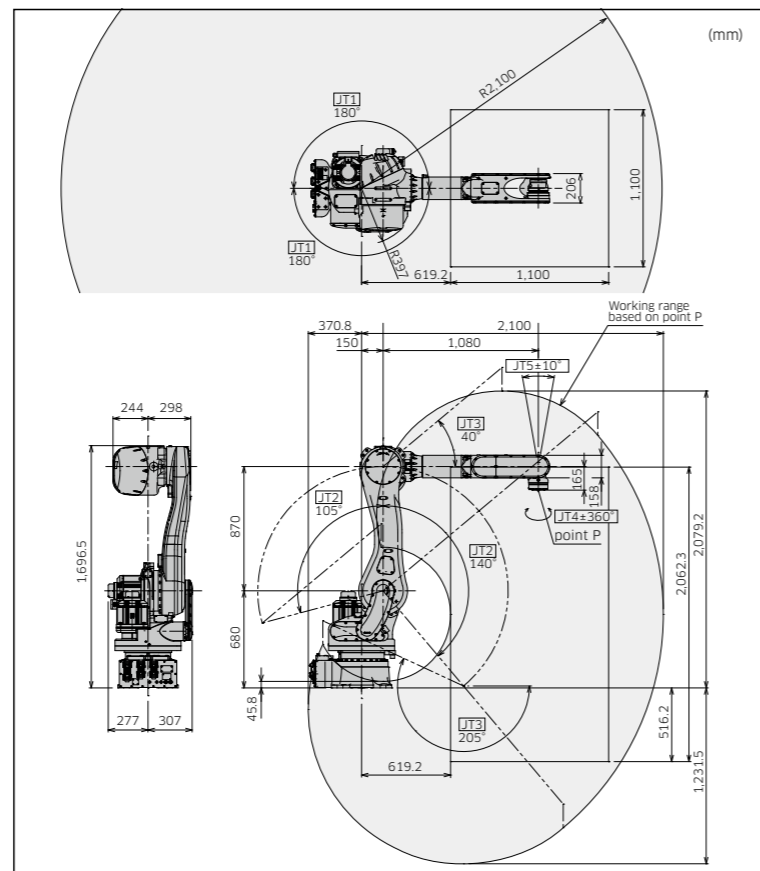


RD080N

| 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·m²) | 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.



Features

- Dimensions and weight have been reduced from its previous E-controller.
- This universal controller has common specifications that can be used globally. (An optional transformer unit is necessary in the region where the power supply and safety standard differ.)

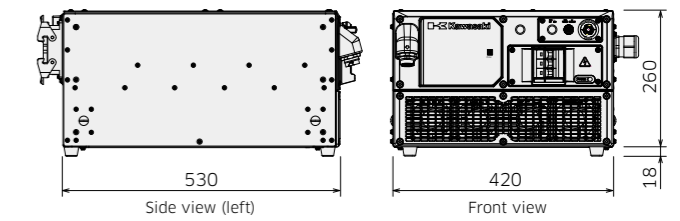


Standard Specifications

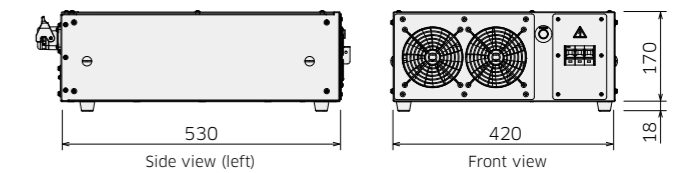
| | | |
|--------------------------|---|-------------------------------------|
| Dimensions (mm) | W420×D530×H278 | |
| Type | Enclosed type, indirect cooling system | |
| Controlled (axes) | 5 | |
| Memory capacity (MB) | 16 | |
| I/O signals | External operation | Motor power off, Hold |
| | Input (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

