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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

## Extra Large Robots

up to 1500kg payload

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

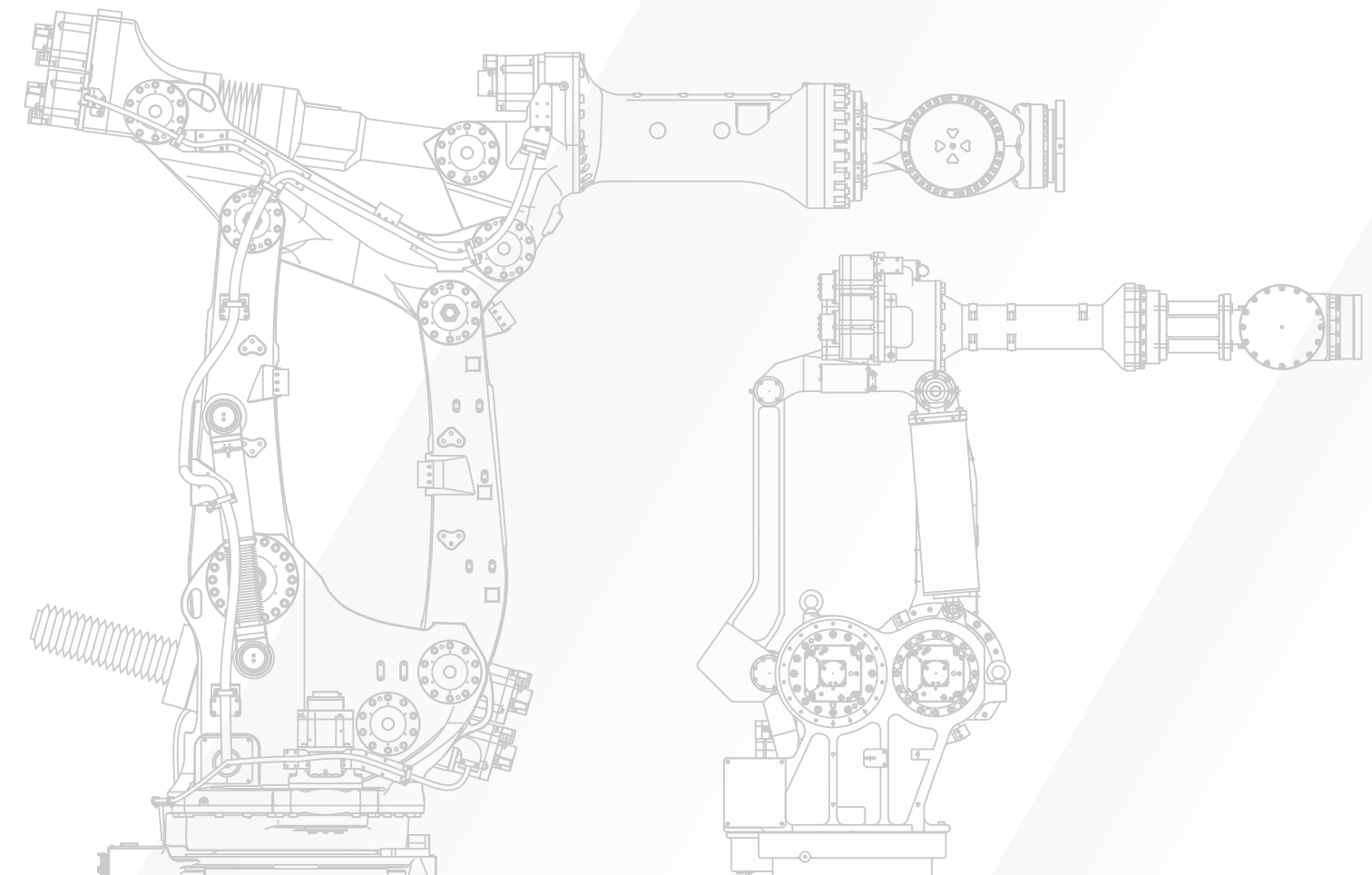
Wafer transfer robots

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.



# Extra large general-purpose robots

Heavy payloads, meet your match; Kawasaki's heavy-duty M series robots are the ultimate in form and function. The M series has the capability to handle massive 350 to 1,500 kg payloads with ease and accuracy, without compromising a compact design or high precision.

## MX/MT series

M Series robots are engineered for ultra-heavy-duty applications, offering exceptional payload capacities up to 1,500 kg, high wrist torque, and a compact design that delivers powerful performance and precision in demanding industrial environments.

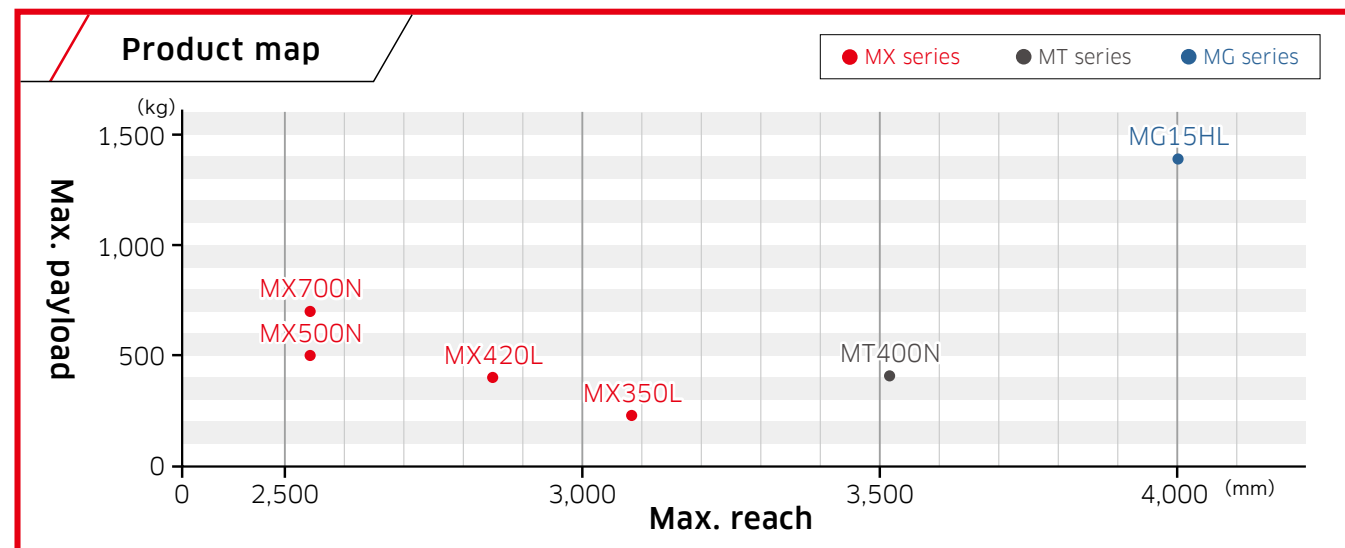


## MG series

The MG series is a highly rigid, wide motion range robot with an ultra-high payload capacity of 1,500 kg and maximum reach of 4,005 mm. Kawasaki's patented hybrid link mechanism for JT2 (arm out-in) and JT3 (arm up-down) makes it possible to achieve a maximum payload capacity without the use of bulky and limiting counterweights.



MG15HL



## MX series



### MX350L

#### Standard Specifications

|                                     |                          |                                     |
|-------------------------------------|--------------------------|-------------------------------------|
| Type                                | Articulated robot        |                                     |
| Degree of freedom (axes)            | 6                        |                                     |
| Payload (kg)                        | 360                      |                                     |
| Max. reach (mm)                     | 3,018                    |                                     |
| Position repeatability*1 (mm)       | ±0.1                     |                                     |
| Motion range (°)                    | Arm rotation (JT1)       | ±180                                |
|                                     | Arm out-in (JT2)         | +90 - -45                           |
|                                     | Arm up-down (JT3)        | +20 - -115                          |
|                                     | Wrist swivel (JT4)       | ±360                                |
|                                     | Wrist bend (JT5)         | ±110                                |
|                                     | Wrist twist (JT6)        | ±360                                |
| Max. speed*3 (°/s)                  | Arm rotation (JT1)       | 80                                  |
|                                     | Arm out-in (JT2)         | 70                                  |
|                                     | Arm up-down (JT3)        | 70                                  |
|                                     | Wrist swivel (JT4)       | 80                                  |
|                                     | Wrist bend (JT5)         | 80                                  |
|                                     | Wrist twist (JT6)        | 120                                 |
| Allowable moment (N·m)              | Wrist swivel (JT4)       | 2,740                               |
|                                     | Wrist bend (JT5)         | 2,740                               |
|                                     | Wrist twist (JT6)        | 1,960                               |
| Allowable moment of inertia (kg·m²) | Wrist swivel (JT4)       | 400                                 |
|                                     | Wrist bend (JT5)         | 400                                 |
|                                     | Wrist twist (JT6)        | 259                                 |
| Mass (kg)                           | 2,800                    |                                     |
| Mounting                            | Floor                    |                                     |
| Installation environment            | Ambient temperature (°C) | 0 - 45                              |
|                                     | Relative humidity (%)    | 35 - 85 (No dew, nor frost allowed) |
| Controller/Power requirements       | F02/7.5kVA               |                                     |

\*1: Conforms to ISO9283.  
\*2: When using the operating range of +160° to +185° with JT1 or -160° to -185° with JT1, an optional mechanical stopper is required. In this case, the total maximum operating range is limited to 320°. If more detailed data is required for your application, please contact Kawasaki.  
\*3: The values in the table are maximum values and vary depending on conditions such as load and motion range.

### MX420L

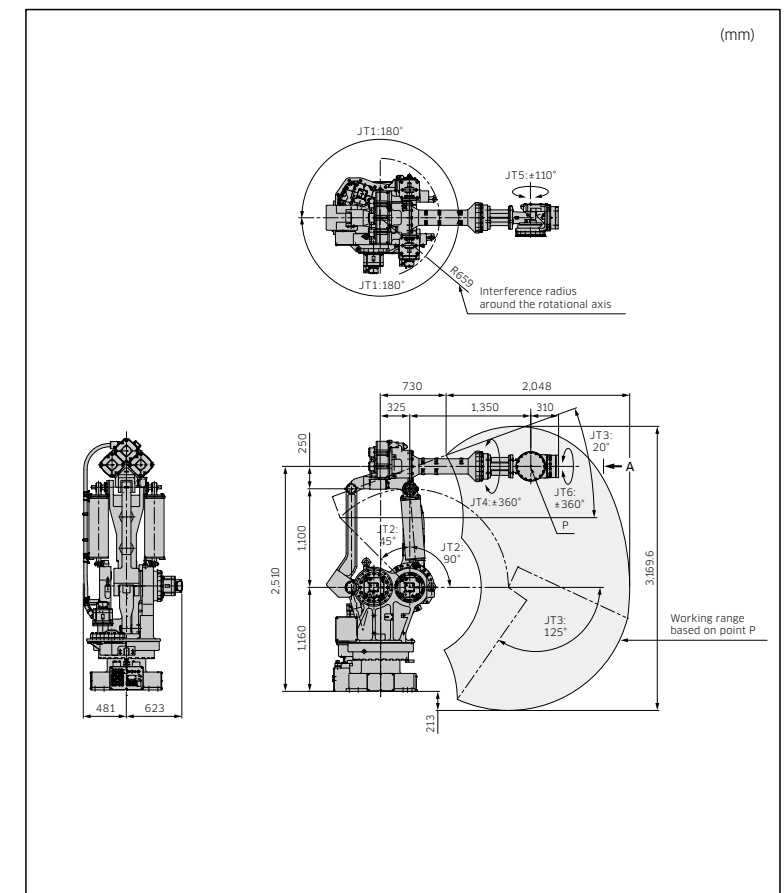
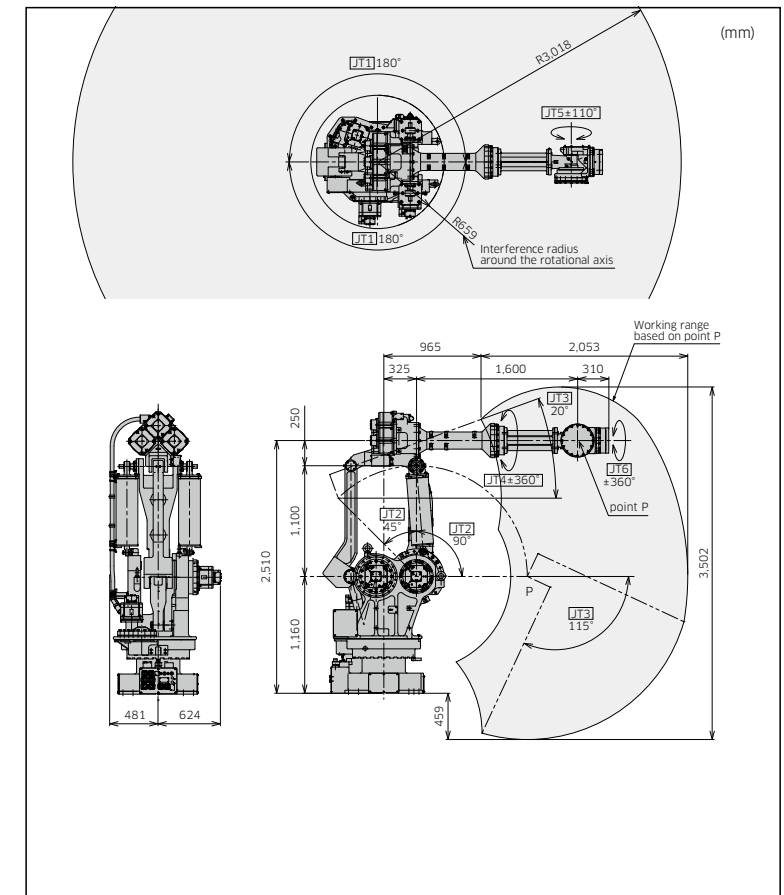
#### Standard Specifications

|                                     |                          |                                     |
|-------------------------------------|--------------------------|-------------------------------------|
| Type                                | Articulated robot        |                                     |
| Degree of freedom (axes)            | 6                        |                                     |
| Payload (kg)                        | 420                      |                                     |
| Max. reach (mm)                     | 2,778                    |                                     |
| Position repeatability*1 (mm)       | ±0.1                     |                                     |
| Motion range (°)                    | Arm rotation (JT1)       | ±180                                |
|                                     | Arm out-in (JT2)         | +90 - -45                           |
|                                     | Arm up-down (JT3)        | +20 - -125                          |
|                                     | Wrist swivel (JT4)       | ±360                                |
|                                     | Wrist bend (JT5)         | ±110                                |
|                                     | Wrist twist (JT6)        | ±360                                |
| Max. speed*3 (°/s)                  | Arm rotation (JT1)       | 80                                  |
|                                     | Arm out-in (JT2)         | 70                                  |
|                                     | Arm up-down (JT3)        | 70                                  |
|                                     | Wrist swivel (JT4)       | 80                                  |
|                                     | Wrist bend (JT5)         | 80                                  |
|                                     | Wrist twist (JT6)        | 120                                 |
| Allowable moment (N·m)              | Wrist swivel (JT4)       | 3,920                               |
|                                     | Wrist bend (JT5)         | 3,920                               |
|                                     | Wrist twist (JT6)        | 1,960                               |
| Allowable moment of inertia (kg·m²) | Wrist swivel (JT4)       | 400                                 |
|                                     | Wrist bend (JT5)         | 400                                 |
|                                     | Wrist twist (JT6)        | 259                                 |
| Mass (kg)                           | 2,800                    |                                     |
| Mounting                            | Floor                    |                                     |
| Installation environment            | Ambient temperature (°C) | 0 - 45                              |
|                                     | Relative humidity (%)    | 35 - 85 (No dew, nor frost allowed) |
| Controller/Power requirements       | F04/12kVA                |                                     |

\*1: Conforms to ISO9283.  
\*2: When using the operating range of +160° to +180° with JT1 or -160° to -180° with JT1, an optional mechanical stopper is required. In this case, the total maximum operating range is limited to 320°. If more detailed data is required for your application, please contact Kawasaki.  
\*3: The values in the table are maximum values and vary depending on conditions such as load and motion range.

#### Features

- High positional repeatability to accomplish specialized tasks.
- Delivers powerful motion in tight spaces without bulky counterweights.



MX500N

Standard Specifications

| Type                                |                          | Articulated robot                   |
|-------------------------------------|--------------------------|-------------------------------------|
| Degree of freedom (axes)            |                          | 6                                   |
| Payload (kg)                        |                          | 500                                 |
| Max. reach (mm)                     |                          | 2,540                               |
| Position repeatability*1 (mm)       |                          | ±0.1                                |
| Motion range (°)                    | Arm rotation (JT1)       | ±180                                |
|                                     | Arm out-in (JT2)         | +90 - -45                           |
|                                     | Arm up-down (JT3)        | +20 - -130                          |
|                                     | Wrist swivel (JT4)       | ±360                                |
|                                     | Wrist bend (JT5)         | ±120                                |
|                                     | Wrist twist (JT6)        | ±360                                |
| Max. speed (°/s)                    | Arm rotation (JT1)       | 80                                  |
|                                     | Arm out-in (JT2)         | 70                                  |
|                                     | Arm up-down (JT3)        | 70                                  |
|                                     | Wrist swivel (JT4)       | 80                                  |
|                                     | Wrist bend (JT5)         | 80                                  |
|                                     | Wrist twist (JT6)        | 120                                 |
| Allowable moment (N·m)              | Wrist swivel (JT4)       | 3,920                               |
|                                     | Wrist bend (JT5)         | 3,920                               |
|                                     | Wrist twist (JT6)        | 1,960                               |
| Allowable moment of inertia (kg·m²) | Wrist swivel (JT4)       | 400                                 |
|                                     | Wrist bend (JT5)         | 400                                 |
|                                     | Wrist twist (JT6)        | 259                                 |
| Mass (kg)                           |                          | 2,750                               |
| Mounting                            |                          | Floor                               |
| Installation environment            | Ambient temperature (°C) | 0 - 45                              |
|                                     | Relative humidity (%)    | 35 - 85 (No dew, nor frost allowed) |
| Controller/Power requirements       |                          | F04/12kVA                           |

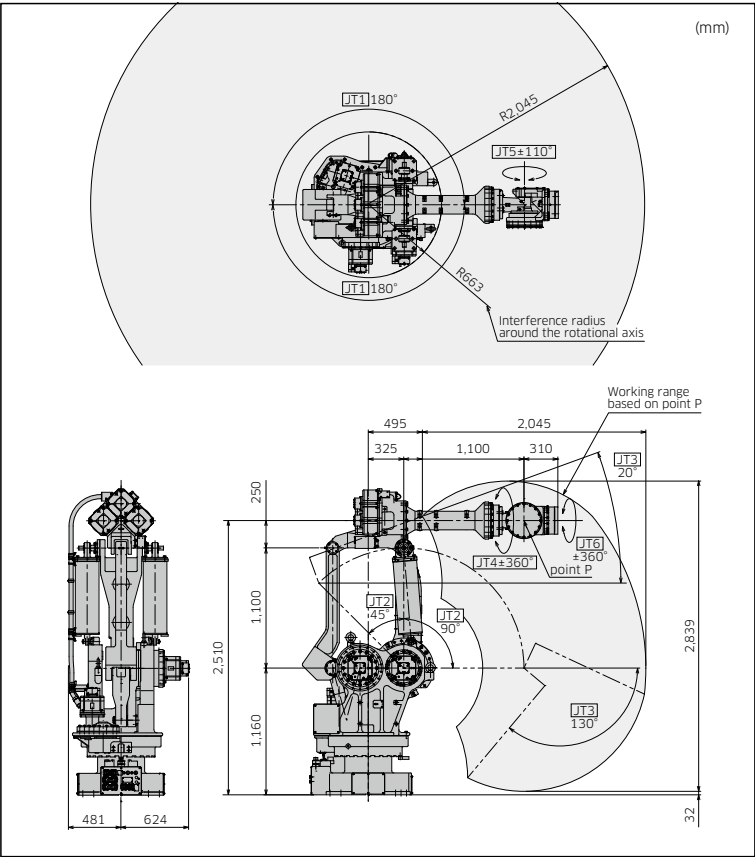
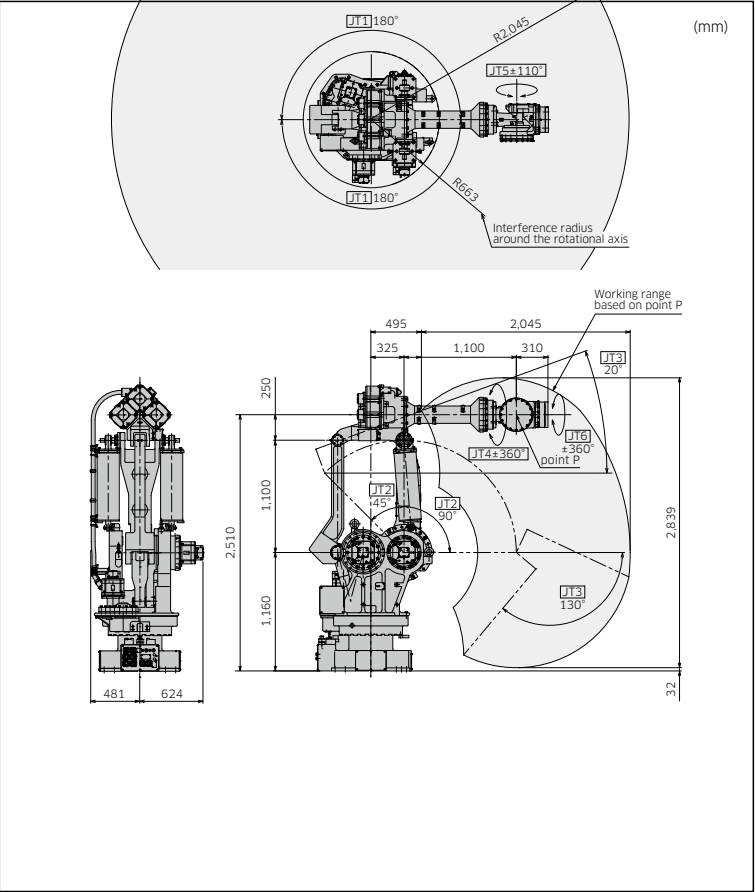
\*1: Conforms to ISO9283  
\*2: When using the operating range of +160° to +180° with JT1 or -160° to -180° with JT1, an optional mechanical stopper is required. In this case, the total maximum operating range is limited to 320°. If more detailed data is required for your application, please contact Kawasaki.  
\*3: The values in the table are maximum values and vary depending on conditions such as load and motion range.

MX700N

Standard Specifications

| Type                                |                          | Articulated robot                   |
|-------------------------------------|--------------------------|-------------------------------------|
| Degree of freedom (axes)            |                          | 6                                   |
| Payload (kg)                        |                          | 700                                 |
| Max. reach (mm)                     |                          | 2,540                               |
| Position repeatability*1 (mm)       |                          | ±0.1                                |
| Motion range (°)                    | Arm rotation (JT1)       | ±180                                |
|                                     | Arm out-in (JT2)         | +90 - -45                           |
|                                     | Arm up-down (JT3)        | +20 - -130                          |
|                                     | Wrist swivel (JT4)       | ±360                                |
|                                     | Wrist bend (JT5)         | ±110                                |
|                                     | Wrist twist (JT6)        | ±360                                |
| Max. speed (°/s)                    | Arm rotation (JT1)       | 65                                  |
|                                     | Arm out-in (JT2)         | 50                                  |
|                                     | Arm up-down (JT3)        | 45                                  |
|                                     | Wrist swivel (JT4)       | 50                                  |
|                                     | Wrist bend (JT5)         | 50                                  |
|                                     | Wrist twist (JT6)        | 95                                  |
| Allowable moment (N·m)              | Wrist swivel (JT4)       | 5,488                               |
|                                     | Wrist bend (JT5)         | 5,488                               |
|                                     | Wrist twist (JT6)        | 2,744                               |
| Allowable moment of inertia (kg·m²) | Wrist swivel (JT4)       | 600                                 |
|                                     | Wrist bend (JT5)         | 600                                 |
|                                     | Wrist twist (JT6)        | 388                                 |
| Mass (kg)                           |                          | 2,860                               |
| Mounting                            |                          | Floor                               |
| Installation environment            | Ambient temperature (°C) | 0 - 45                              |
|                                     | Relative humidity (%)    | 35 - 85 (No dew, nor frost allowed) |
| Controller/Power requirements       |                          | F04/12kVA                           |

\*1: Conforms to ISO9283



⌋Applications

 Handling

 Machine tending

MT400N

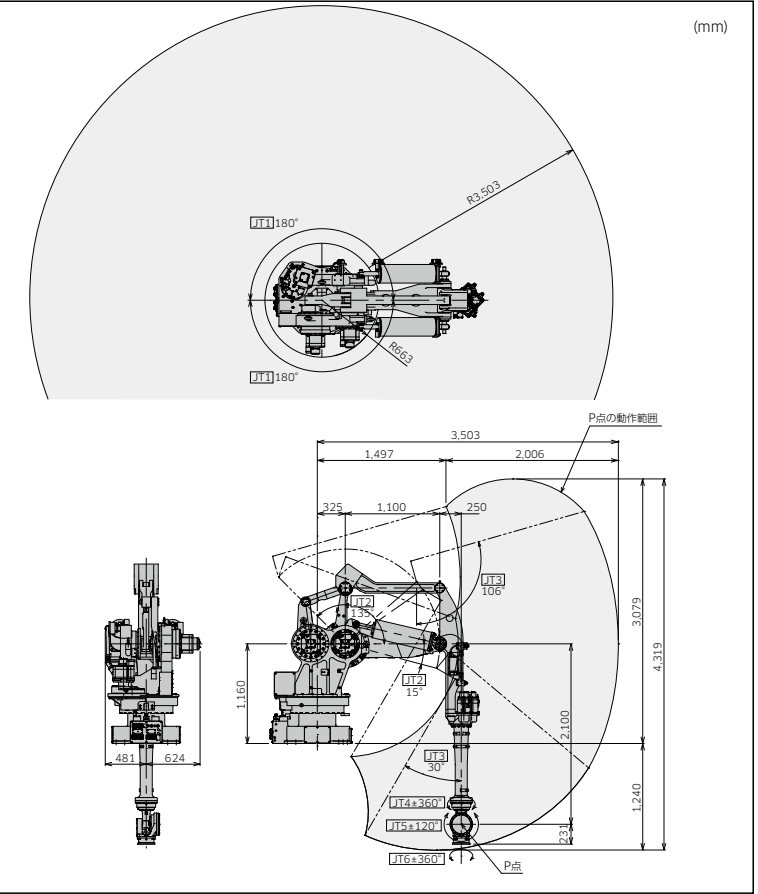
Standard Specifications

| Type                                |                          | Articulated robot                   |
|-------------------------------------|--------------------------|-------------------------------------|
| Degree of freedom (axes)            |                          | 6                                   |
| Payload (kg)                        |                          | 400                                 |
| Max. reach (mm)                     |                          | 3,503                               |
| Position repeatability*1 (mm)       |                          | ±0.5                                |
| Motion range (°)                    | Arm rotation (JT1)       | ±180                                |
|                                     | Arm out-in (JT2)         | +90 - -135                          |
|                                     | Arm up-down (JT3)        | +30 - -30*2                         |
|                                     | Wrist swivel (JT4)       | ±360                                |
|                                     | Wrist bend (JT5)         | ±120                                |
|                                     | Wrist twist (JT6)        | ±360                                |
| Max. speed*3 (°/s)                  | Arm rotation (JT1)       | 80                                  |
|                                     | Arm out-in (JT2)         | 70                                  |
|                                     | Arm up-down (JT3)        | 70                                  |
|                                     | Wrist swivel (JT4)       | 70                                  |
|                                     | Wrist bend (JT5)         | 70                                  |
|                                     | Wrist twist (JT6)        | 130                                 |
| Allowable moment (N·m)              | Wrist swivel (JT4)       | 2,150                               |
|                                     | Wrist bend (JT5)         | 2,150                               |
|                                     | Wrist twist (JT6)        | 980                                 |
| Allowable moment of inertia (kg·m²) | Wrist swivel (JT4)       | 200                                 |
|                                     | Wrist bend (JT5)         | 200                                 |
|                                     | Wrist twist (JT6)        | 147                                 |
| Mass (kg)                           |                          | 2,600                               |
| Mounting                            |                          | Floor                               |
| Installation environment            | Ambient temperature (°C) | 0 - 45                              |
|                                     | Relative humidity (%)    | 35 - 85 (No dew, nor frost allowed) |
| Controller/Power requirements       |                          | E58/15kVA                           |

\*1: Conforms to ISO9283  
\*2: Max. working range varies depending on the load mass and load torque  
\*3: The values in the table are maximum values and vary depending on conditions such as load and motion range.

Features

- Designed for vertical motion with reach capabilities over 4,300 mm, perfect for tall or deep workspaces.
- Innovative link structure eliminates bulky counterweights, maximizing motion range in compact spaces.



{Applications}



Handling



Machine tending

MG15HL

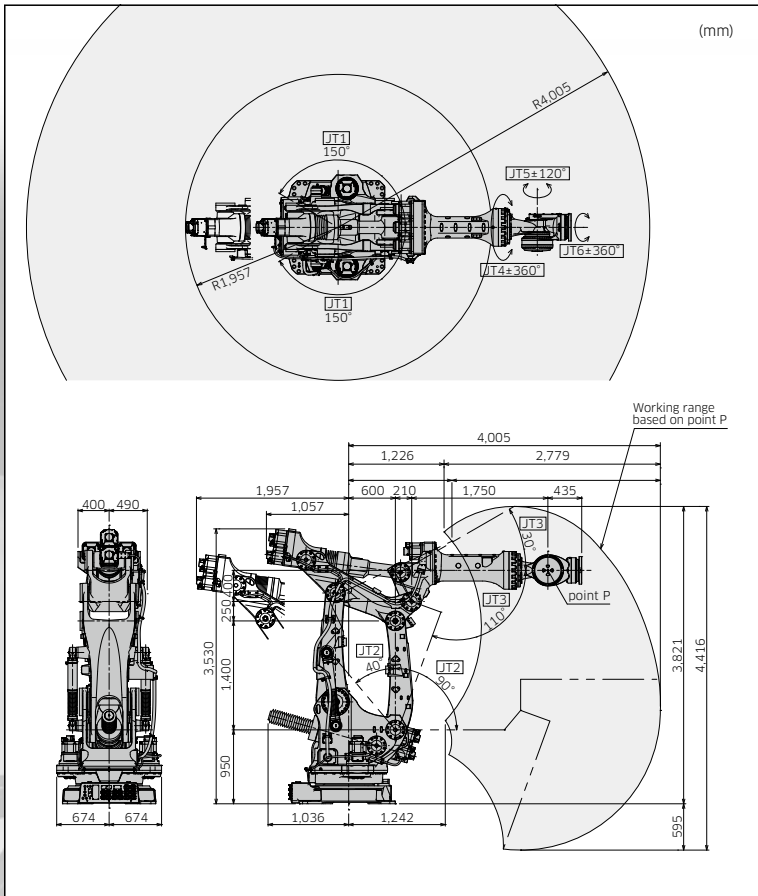
Standard Specifications

|                                                  |                          |                                     |
|--------------------------------------------------|--------------------------|-------------------------------------|
| Type                                             | Articulated robot        |                                     |
| Degree of freedom (axes)                         | 6                        |                                     |
| Payload (kg)                                     | 1,500                    |                                     |
| Max. reach (mm)                                  | 4,005                    |                                     |
| Position repeatability*1 (mm)                    | ±0.1                     |                                     |
| Motion range (°)                                 | Arm rotation (JT1)       | ±150                                |
|                                                  | Arm out-in (JT2)         | +90 - -40                           |
|                                                  | Arm up-down (JT3)        | +30 - -110 <sup>02</sup>            |
|                                                  | Wrist swivel (JT4)       | ±360                                |
|                                                  | Wrist bend (JT5)         | ±120                                |
|                                                  | Wrist twist (JT6)        | ±360                                |
| Max. speed*3 (°/s)                               | Arm rotation (JT1)       | 65                                  |
|                                                  | Arm out-in (JT2)         | 33.5                                |
|                                                  | Arm up-down (JT3)        | 37.5                                |
|                                                  | Wrist swivel (JT4)       | 36                                  |
|                                                  | Wrist bend (JT5)         | 36                                  |
|                                                  | Wrist twist (JT6)        | 80                                  |
| Allowable moment (N·m)                           | Wrist swivel (JT4)       | 15,000                              |
|                                                  | Wrist bend (JT5)         | 15,000                              |
|                                                  | Wrist twist (JT6)        | 4,410                               |
| Allowable moment of inertia (kg·m <sup>2</sup> ) | Wrist swivel (JT4)       | 2,250                               |
|                                                  | Wrist bend (JT5)         | 2,250                               |
|                                                  | Wrist twist (JT6)        | 1,200                               |
| Mass (kg)                                        | 6,550                    |                                     |
| Mounting                                         | Floor                    |                                     |
| Installation environment                         | Ambient temperature (°C) | 0 - 45                              |
|                                                  | Relative humidity (%)    | 35 - 85 (No dew, nor frost allowed) |
| Controller/Power requirements                    |                          | E58/15kVA                           |

\*1: Conforms to ISO9283  
\*2: Max. working range varies depending on the load mass and load torque.  
\*3: The values in the table are maximum values and vary depending on conditions such as load and motion range.

Features

- Ultra-high payload up to 1,500 kg, ideal for the most demanding industrial tasks.
- Patented hybrid link mechanism gives the robot the power to lift and manipulate heavy loads with great ease and high repeatability.
- Rigid ball screws with minimal backlash to reduce arm deflection and enables high positioning accuracy.



F02/F04

Features

■ Reduced size & energy consumption, with enhanced integrated features.

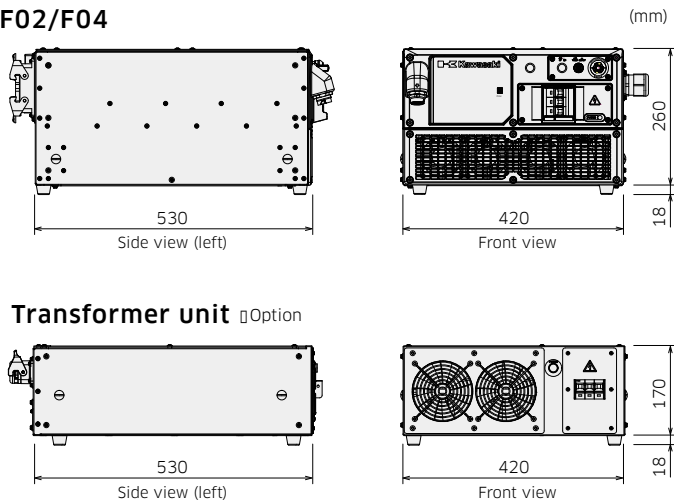
■ Universal controller with common specifications that can be used globally.  
(An optional transformer unit is necessary in the region where the power supply and safety standard differ.)

Standard Specifications

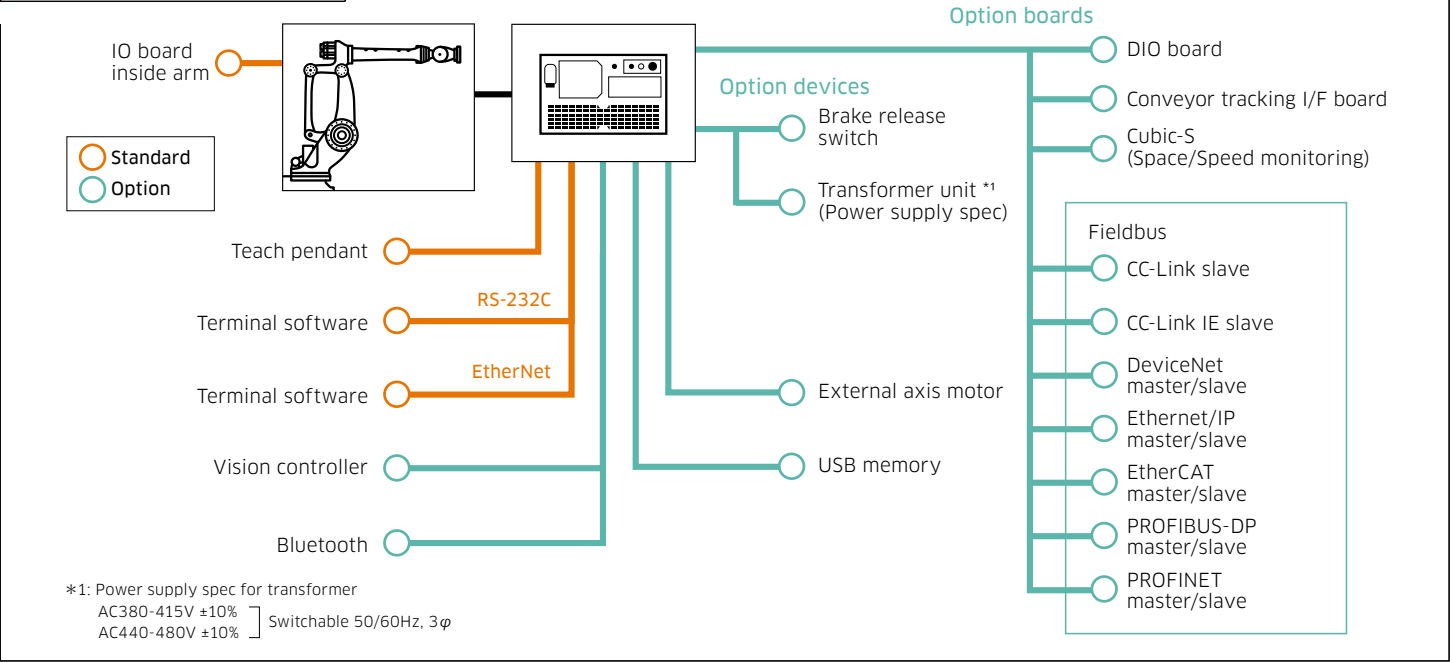
|                          |                          | F02                                                                                 | F04        |
|--------------------------|--------------------------|-------------------------------------------------------------------------------------|------------|
| Dimensions (mm)          |                          | W420×D530×H278                                                                      |            |
| Type                     |                          | Enclosed type, indirect cooling system                                              |            |
| Controlled (axes)        |                          | 7                                                                                   | 6          |
| 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)                |                          | 25                                                                                  |            |
| Power requirements       |                          | AC200V - AC220V ±10%, 50/60Hz, 3φ                                                   |            |
|                          |                          | AC200V - AC230V ±10%, 50/60Hz, 1φ                                                   |            |
|                          |                          | Max. 7.5kVA                                                                         | 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



System configuration



E58

Features

■ Delivers powerful control in a space-saving form factor, ideal for large-scale industrial robots.

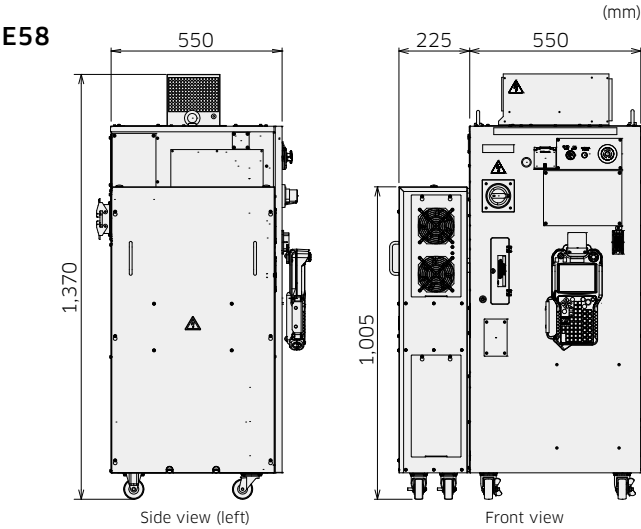
■ Universal controller with common specifications that can be used globally.  
(An optional transformer unit is necessary in the region where the power supply and safety standard differ.)

Standard Specifications

|                          |                          |                                                                                     |  |
|--------------------------|--------------------------|-------------------------------------------------------------------------------------|--|
| Dimensions (mm)          |                          | W775×D550×H1,370                                                                    |  |
| Type                     |                          | Enclosed structure, Indirect cooling system                                         |  |
| Controlled (axes)        |                          | 9                                                                                   |  |
| Memory capacity (MB)     |                          | 8                                                                                   |  |
| 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)                |                          | 165                                                                                 |  |
| Power requirements       | Japan                    | AC200 - AC220V ± 10%, 50/60Hz, 3φ                                                   |  |
|                          | Europe & Asia            | AC380 - AC415V ± 10%, 50/60Hz, 3φ                                                   |  |
|                          | North America            | AC440 - AC480V ± 10%, 60Hz, 3φ                                                      |  |
|                          |                          | Max. 15kVA                                                                          |  |
| 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          |                          | Teach/repeat SW, Emergency stop SW,                                                 |  |



External view and dimensions



System configuration

