

## Kawasaki Heavy Industries, Ltd

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#### Kawasaki Robotics website

<https://kawasakirobotics.com/>



#### Kawasaki Robostage (showroom)

<https://kawasakirobotics.com/jp-sp/robostage/en/>



# 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

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

#### Kawasaki Robotics (USA), Inc.

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#### Kawasaki Robotics (UK) Ltd.

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#### Kawasaki Robotics GmbH

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#### Kawasaki Robotics Korea, Ltd.

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#### Kawasaki Robotics (Tianjin) Co., Ltd.

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#### Kawasaki Motors Enterprise (Thailand) Co., Ltd.

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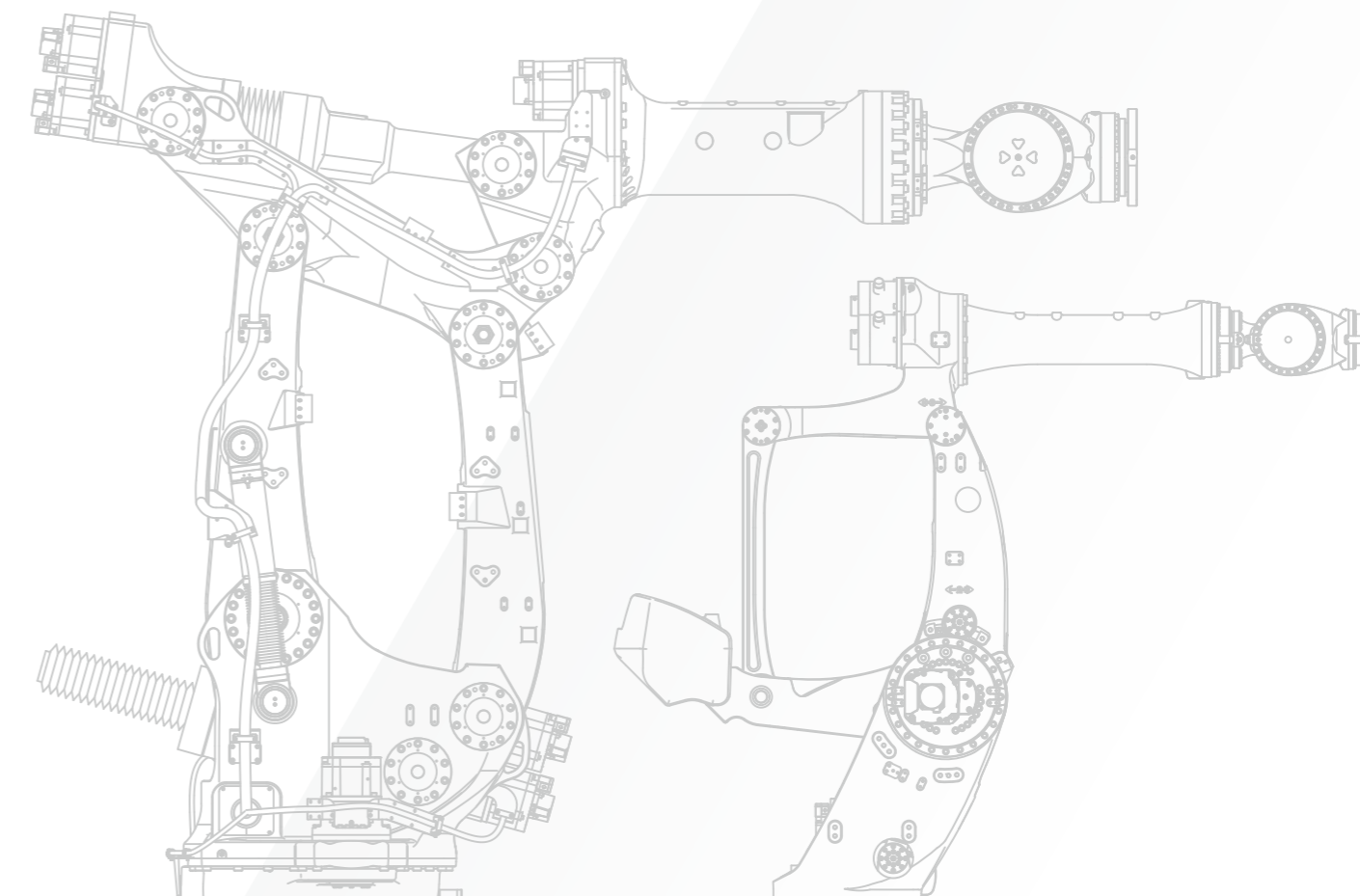
#### Kawasaki Robotics India Pvt. Ltd.

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Gurgaon, 122101 Haryana, India  
Phone: +91-124-437-1845



#### 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

M series extra large robots incorporate Kawasaki's experience and state-of-art technologies.

With a maximum payload of 1,500kg, M series robots can give it the power to lift and manipulate heavy loads such as automobile bodies.

## MXP series

The MXP series has large payload capacities and wide motion ranges in the vertical direction.

Thanks to our original construction, it has high positioning repeatability with a compact arm.



MXP360L

MXP410X

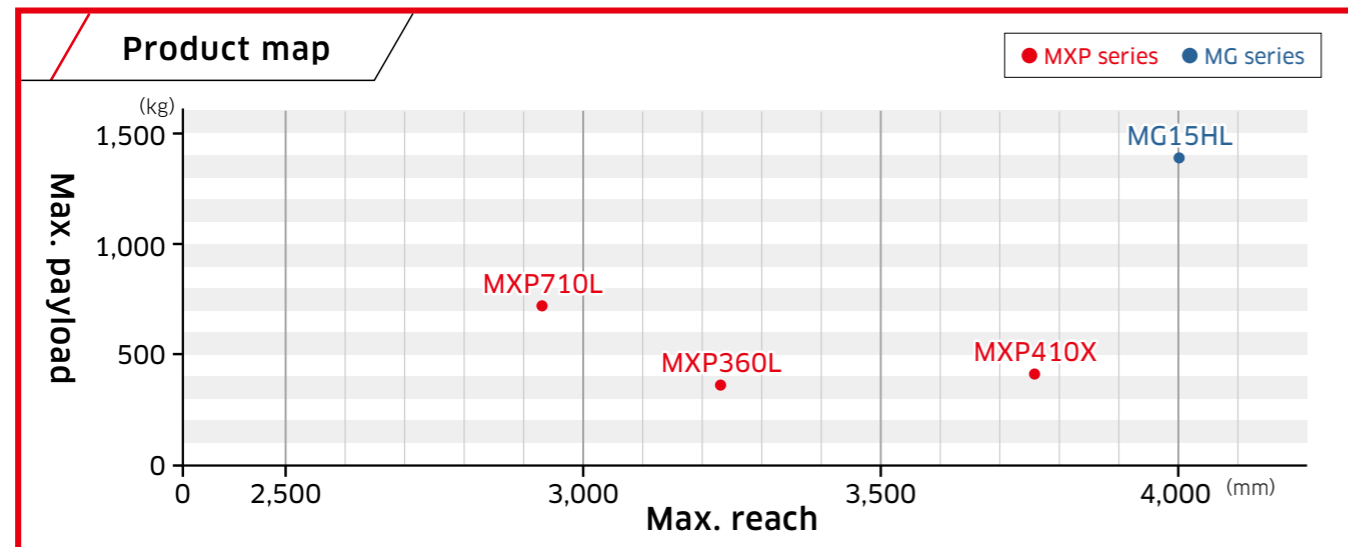
MXP710L

## MG series

The MG series is equipped with Kawasaki's original hybrid link structure, ball screws and two large motors for JT3 (arm up-down) to achieve a slim body without a counter weigh. It offers a wide motion range and high position repeatability, suitable for handling heavy workpieces.



MG15HL



## MXP series



### MXP360L

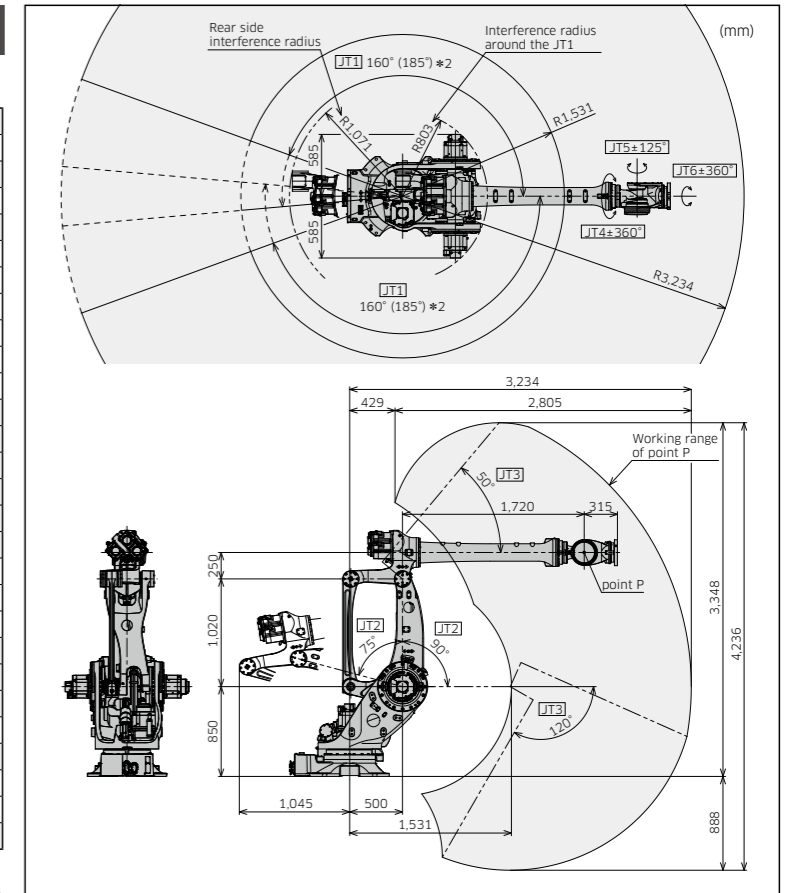
#### Standard Specifications

Type		Articulated robot
Degree of freedom (axes)		6
Payload (kg)		360
Max. reach (mm)		3,234
Position repeatability*1 (mm)		±0.08
Motion range (°)	Arm rotation (JT1)	±160 (±185)*2
	Arm out-in (JT2)	+90 - -75
	Arm up-down (JT3)	+50 - -120
	Wrist swivel (JT4)	±360
	Wrist bend (JT5)	±125
	Wrist twist (JT6)	±360
Max. speed*3 (°/s)	Arm rotation (JT1)	100
	Arm out-in (JT2)	86
	Arm up-down (JT3)	86
	Wrist swivel (JT4)	105
	Wrist bend (JT5)	105
	Wrist twist (JT6)	165
Allowable moment (N·m)	Wrist swivel (JT4)	2,300
	Wrist bend (JT5)	2,300
	Wrist twist (JT6)	1,300
Allowable moment of inertia (kg·m²)	Wrist swivel (JT4)	350
	Wrist bend (JT5)	350
	Wrist twist (JT6)	230
Mass (kg)		1,550
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.

#### Features

- The long reaches in the vertical and horizontal directions enable wide layout applications.
- The gas balancers that are integrated in the arm achieve compact body.

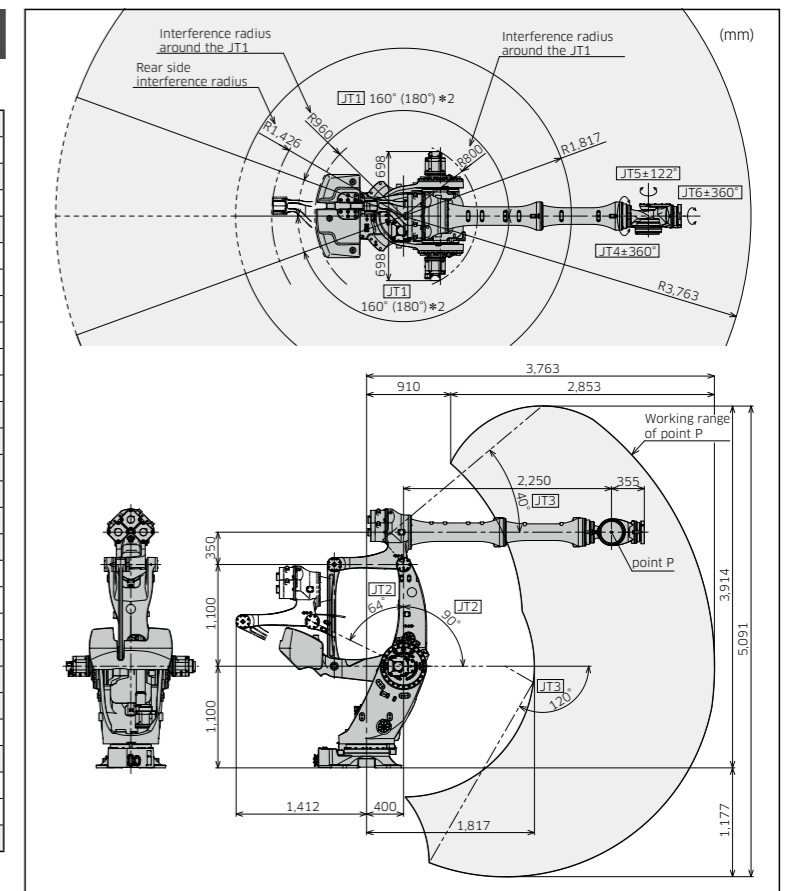


### MXP410X

#### Standard Specifications

Type		Articulated robot
Degree of freedom (axes)		6
Payload (kg)		410
Max. reach (mm)		3,763
Position repeatability*1 (mm)		±0.12
Motion range (°)	Arm rotation (JT1)	±160 (±180)*2
	Arm out-in (JT2)	+90 - -64
	Arm up-down (JT3)	+40 - -120
	Wrist swivel (JT4)	±360
	Wrist bend (JT5)	±122
	Wrist twist (JT6)	±360
Max. speed*3 (°/s)	Arm rotation (JT1)	82
	Arm out-in (JT2)	70
	Arm up-down (JT3)	70
	Wrist swivel (JT4)	110
	Wrist bend (JT5)	110
	Wrist twist (JT6)	160
Allowable moment (N·m)	Wrist swivel (JT4)	3,000
	Wrist bend (JT5)	3,000
	Wrist twist (JT6)	1,900
Allowable moment of inertia (kg·m²)	Wrist swivel (JT4)	390
	Wrist bend (JT5)	390
	Wrist twist (JT6)	250
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.





# F02/F04

## Features

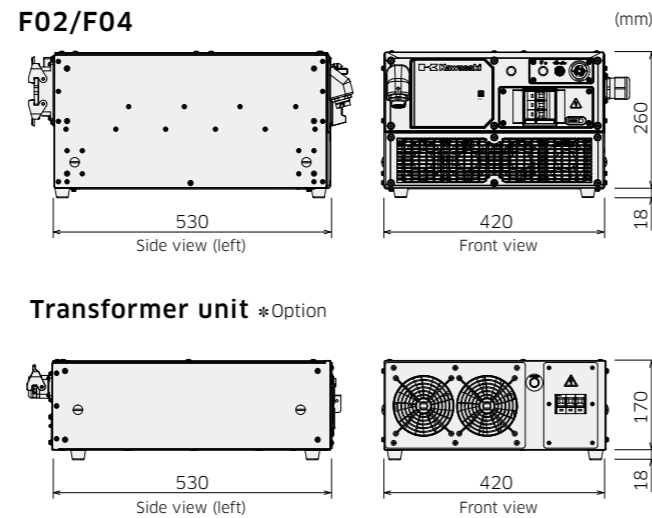
- Dimensions and weight have been reduced from its previous E-controller.
- This universal controller has common specifications that can be used globally.  
(An optional transformer unit is necessary in the region where the power supply and safety standard differ.)

## Standard Specifications

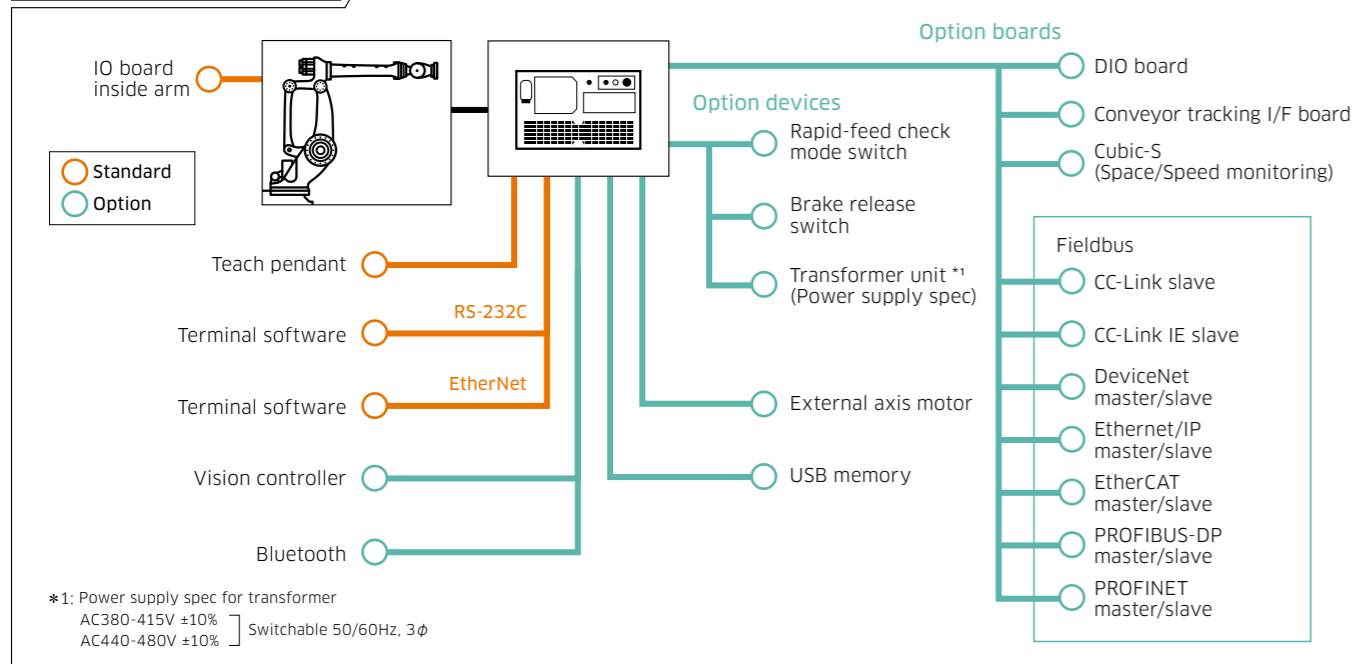
	F02	F04
Dimensions (mm)	W420×D530×H278	
Type	Enclosed type, indirect cooling system	
Controlled (axes)	7	6
Memory capacity (MB)	16	
I/O signals	External operation Motor power off, Hold	
	Input (Channels) 32	
	Output (Channels) 32	
Cable length	Teach pendant (m) 5	
	Robot-controller (m) 5	
Mass (kg)	25	
Power requirements	AC200V - AC220V ±10%, 50/60Hz, 3Φ	
	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

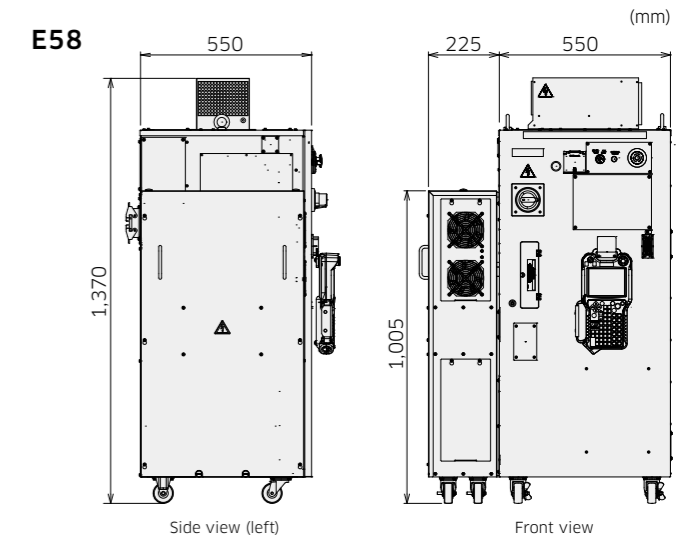
- The E58 controller is used for M series extra large robots.
- The universal controller has common specifications to be used globally and support diverse primary power voltages.



## 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

