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Kawasaki Robot

Collaborative robot CL series

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

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.

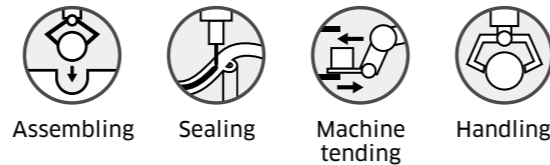


Collaborative robot

Kawasaki Robotics CL Series provides an entirely new and agile approach to collaborative robotics - a cobot without compromise. The CL Series offers full-on industrial scale performance and speed paired with maximum protection and all advantages of collaborative robotics. Combined with an intuitive user interface, the CL Series makes automating production lines easier than ever before.

CL series

【Application Examples】



CL103N

CL105N

CL108N

CL110N

CL series	CL103N	CL105N	CL108N	CL110N
Type	Articulated robot			
Degree of freedom (axes)	6			
Payload (kg)	3	5	8	10
Max. reach (mm)	590	800	1,300	1,000
Position repeatability (mm)	±0.02			
Motion range (°)	Arm rotation (A1)	±180		
	Arm out-in (A2)	±135		
	Arm up-down (A3)	±150		
	Wrist swivel (A4)	±180		
	Wrist bend (A5)	±180		
	Wrist twist (A6)	±360		
Max. speed (°/s)*1	Arm rotation (A1)	180	170	130
	Arm out-in (A2)	180	170	130
	Arm up-down (A3)	180		150
	Wrist swivel (A4)	180		150
	Wrist bend (A5)	200		180
	Wrist twist (A6)	200		180
Mass (kg)	18	26	48	45
Mounting	Any direction (wall-mounted or ceiling-mounted)			
Installation environment (°C)	0 - 40			
Degee of protection	IP66 or equivalent			

*1: When the safety sensor detects a person or object, it transitions to reduce mode and has a function to limit the operating speed to 15%.

Product highlights

Designed For Any Use Case

All models feature industry-leading maximum speed and position repeatability of ±0.02 mm, can be mounted in any orientation and comes with an extremely small footprint.



Designed For Any Environment

Thanks to its compact and robust design, integrated cables and IP66 rating, the CL Series can be used in all kinds of harsh environments that may not be suitable for other collaborative robots.



Designed For Safety

The CL Series proprietary safety architecture and many features for safety positions, speed, torque, zones, limits and collision detection allow operate alongside human workers.



Controller & Teach pendant

Features

- The innovative GUI with 3D visualization makes it easy and intuitive for anyone to program the CL series. You can check the operation in advance using the teach pendant's Simulation mode.



External view and dimensions

Teach pendant	
Dimensions (mm)	W285×D228×H95
Resolution	2,560×1,600
Cable length (m)	5

Controller	
Dimensions (mm)	W536×D470×H243
Mass (kg)	25
Power Supplies	AC100V - AC240V, 50/60Hz, 1.5kw
Interface	TCP/IP, GPIO, Modbus TCP, USB 3.0

