

Dual-arm Collaborative Robots

duAro Series

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Kawasaki Robostage (showroom)
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* Materials and specifications are subject to change without notice.





**CAUTIONS TO BE TAKEN
TO ENSURE SAFETY**

- For any persons involved with the operation / servicing of your system, including Kawasaki Robot, they must strictly observe all safety regulations at all times. Please 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 happy to help you.
- Please be careful as Photographs illustrated in this catalogue are frequently taken after the removal of safety fences and other safety devices stipulated in the safety regulations from the Robot operation system.

Dual-arm Collaborative Robots

Kawasaki's original collaborative duAro is a dual-arm type robot. The collaborative robot enables humans and robots to work together in the same workspace without safety fences. Kawasaki offers simple and easy-to-install robots for diverse applications.

duAro series

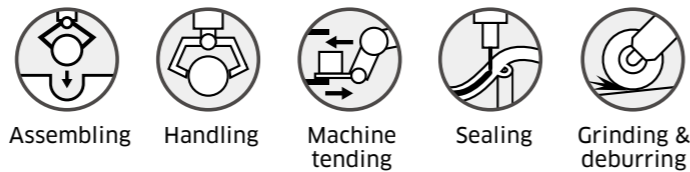


Features

- Space-saving without safety fences.*
- With its two arms, duAro can perform as efficient tasks as human workers.
- Easy programming using a tablet and the direct teaching function.

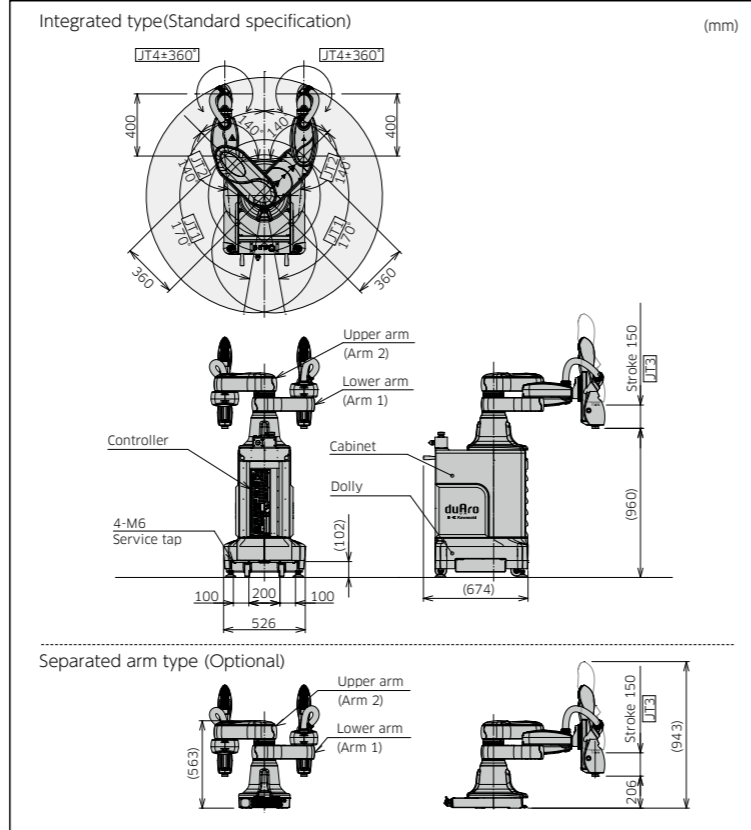
*: Users are required to carry out a safety risk assessment before use.

Applications



duAro 1		Standard Specifications	
Type	Articulated robot		
Degree of freedom (axes)	4 × 2 arms		
Payload (kg)	2 × 2 arms		
Max. reach (mm)	760		
Position repeatability (mm)	±0.05		
Motion range	Arm rotation (°)	Arm 1 (lower arm)	Arm 2 (upper arm)
		±170 (JT1)	-140 - +500 (JT1)
	±140 (JT2)	±140 (JT2)	
	Arm up-down*1 (mm)	0 - +150 (JT3)	0 - +150 (JT3)
Wrist swivel*1 (°)	±360 (JT4)	±360 (JT4)	
Allowable moment (N·m)	Wrist axis (JT4)	3.9	
	Wrist axis (JT4)	0.086	
Allowable moment of inertia (kg·m ²)	Wrist axis (JT4)	0.086	
	Wrist axis (JT4)	0.086	
Mass (kg)	Approx. 210 (including controller. Excluding options)		
Mounting	Floor		
Installation environment	Ambient temperature (°C)	5 - 40	
	Relative humidity (%)	35 - 85 (No dew, nor frost allowed)	
Controller/Power requirements	F61/2.0kVA		

*1: Specification varies in case of other options or conversion



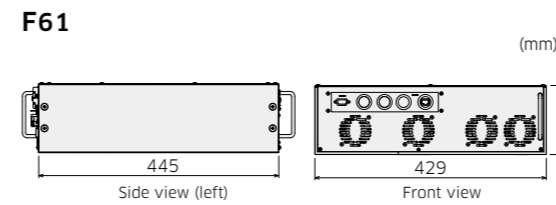
F61

Standard Specifications

Dimensions (mm)	W429×D445×H130	
Type	Enclosed structure	
Controlled (axes)	8	
Memory capacity (MB)	16	
I/O signals	Input (Channels)	16
	Output (Channels)	16
Power requirements	AC200-230V ±10%, 50/60Hz ±2%, Single phase, Max. 2.0kVA	
	Class D (Category3) earth connection, Smaller than 100 Ω (robot-dedicated earth), leakage current 10mA	
Installation environment	Ambient temperature (°C)	0 - 40*1
	Relative humidity (%)	35 - 85 (No dew, nor frost allowed)*1
Operation panel	Manual-auto switch, Start-stop switch, E-stop switch	

*1: Please contact Kawasaki for usage specified other than the above.

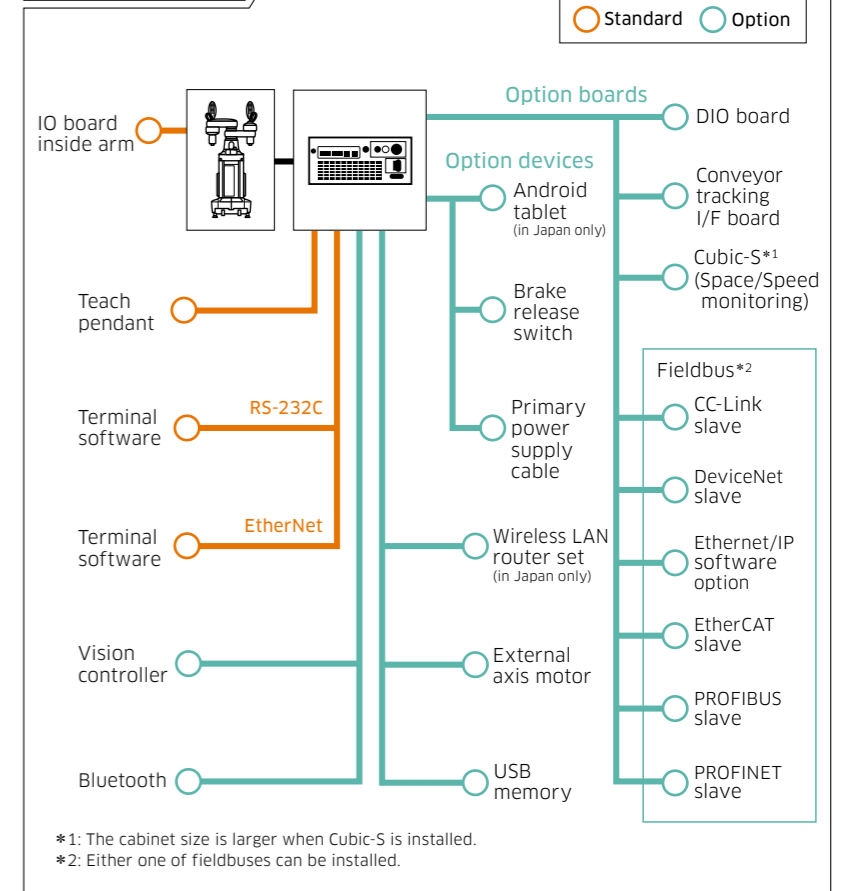
External view and dimensions



duAro 2		Standard Specifications	
Type	Articulated robot		
Degree of freedom (axes)	4 × 2 arms		
Payload (kg)	3 × 2 arms		
Max. reach (mm)	785		
Position repeatability (mm)	±0.05		
Motion range	Arm rotation (°)	Arm 1 (lower arm)	Arm 2 (upper arm)
		±170 (JT1)	-140 - +500 (JT1)
	-130 - +140 (JT2)	-140 - +130 (JT2)	
	Arm up-down*1 (mm)	0 - +550 (JT3)	0 - +550 (JT3)
Wrist swivel*1 (°)	±360 (JT4)	±360 (JT4)	
Allowable moment (N·m)	Wrist axis (JT4)	3.9	
	Wrist axis (JT4)	0.086	
Allowable moment of inertia (kg·m ²)	Wrist axis (JT4)	0.086	
	Wrist axis (JT4)	0.086	
Mass (kg)	Approx. 220 (including controller. Excluding options)		
Mounting	Floor		
Installation environment	Ambient temperature (°C)	5 - 40	
	Relative humidity (%)	35 - 85 (No dew, nor frost allowed)	
Controller/Power requirements	F61/2.0kVA		

*1: Specification varies in case of other options or conversion

System configuration



*1: The cabinet size is larger when Cubic-S is installed.
*2: Either one of fieldbuses can be installed.

