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Kawasaki Robot

Dual-arm Collaborative 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

Self-Propelled Robot



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.



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

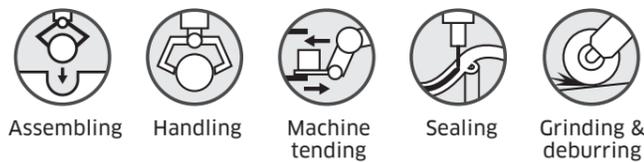


Features

- 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.

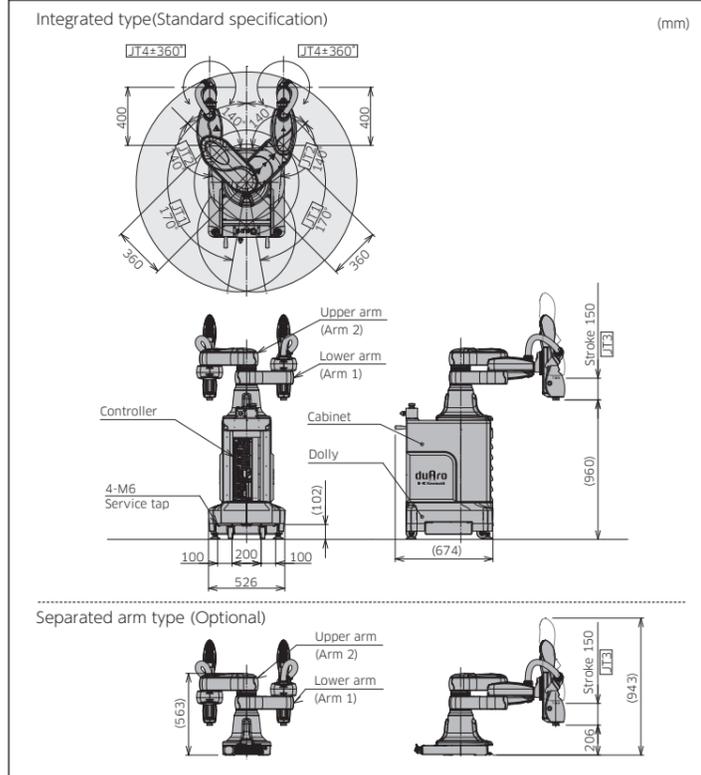
*: Users are required to carry out a safety risk assessment before use.

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 1 (lower arm)	Arm 2 (upper arm)
	Arm rotation (°)	±170 (JT1) -140 - +500 (JT1)
	Arm up-down*1 (mm)	±140 (JT2) ±140 (JT2)
Wrist swivel*1 (°)	0 - +150 (JT3)	0 - +150 (JT3)
	±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



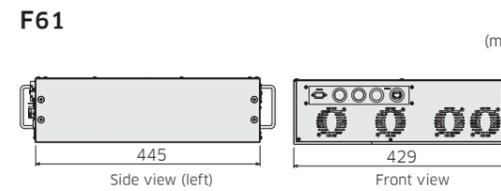
F61

Standard Specifications

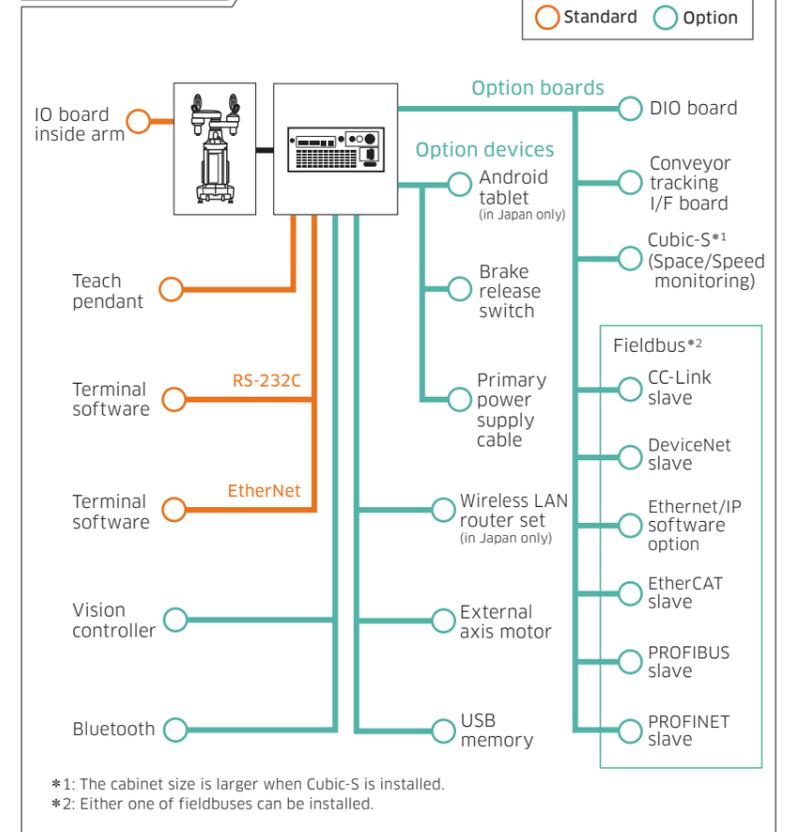
Dimensions (mm)	W429×D445×H130	
Type	Enclosed structure	
Controlled (axes)	8	
Memory capacity (MB)	16	
I/O signals	Input (Channels)	16
	Output (Channels)	16
Power requirements	AC200-230V ±10%, 50/60Hz ±2%, Single phase, Max. 2.0kVA	
	Class D (Category3) earth connection, Smaller than 100 Ω (robot-dedicated 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



System configuration



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

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 1 (lower arm)	Arm 2 (upper arm)
	Arm rotation (°)	±170 (JT1) -140 - +500 (JT1)
	Arm up-down*1 (mm)	-130 - +140 (JT2) -140 - +130 (JT2)
Wrist swivel*1 (°)	0 - +550 (JT3)	0 - +550 (JT3)
	±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

