

## Kawasaki Heavy Industries, Ltd

### Robot Business Division

#### Tokyo Head Office/Robot Division

1-14-5, Kaigan, Minato-ku, Tokyo 105-8315, Japan  
Phone: +81-3-3435-2501 Fax: +81-3-3437-9880

#### Akashi Works/Robot Division

1-1, Kawasaki-cho, Akashi, Hyogo 673-8666, Japan  
Phone: +81-78-921-2946 Fax: +81-78-923-6548

#### Nishi-Kobe Works/Robot Division

234, Matsumoto, Hasetani-cho, Nishi-ku, Kobe, Hyogo 651-2239, Japan  
Phone: +81-78-915-8136 Fax: +81-78-915-8274

#### Kawasaki Robotics website

<https://kawasakirobotics.com/>



#### Kawasaki Robostage (showroom)

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



# 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

### Global Network

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

28140 Lakeview Drive, Wixom, MI 48393, U.S.A.  
Phone: +1-248-446-4100 Fax: +1-248-446-4200

#### Kawasaki Robotics (UK) Ltd.

Unit 4 Easter Court, Europa Boulevard, Westbrook  
Warrington Cheshire, WA5 7ZB, United Kingdom  
Phone: +44-1925-71-3000 Fax: +44-1925-71-3001

#### Kawasaki Robotics GmbH

Im Taubental 32, 41468 Neuss, Germany  
Phone: +49-2131-34260 Fax: +49-2131-3426-22

#### Kawasaki Robotics Korea, Ltd.

43, Namdong-daero 215beon-gil, Namdong-gu, Incheon,  
21633, Korea  
Phone: +82-32-821-6941 Fax: +82-32-821-6947

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

1-2/F, Building 6, No.19 Xinhuan Road, TEDA, China  
Phone: +86-22-5983-1888 Fax: +86-22-5983-1889

#### Taiwan Kawasaki Robot Center

3F, No.31, Ln.216, Gongyuan Rd., Hsinchu City  
30069, Taiwan(R.O.C)  
Phone: +886-3-562-0518

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

(Rayong Robot Center)  
119/10 Moo 4 T.Pluaek Daeng, A.Pluaek Daeng, Rayong 21140  
Thailand  
Phone: +66-38-955-040-58 Fax: +66-38-955-145

#### Singapore Kawasaki Robot Center

100G Pasir Panjang Road #06-10  
Singapore 118523  
Phone: +65-6513-3145

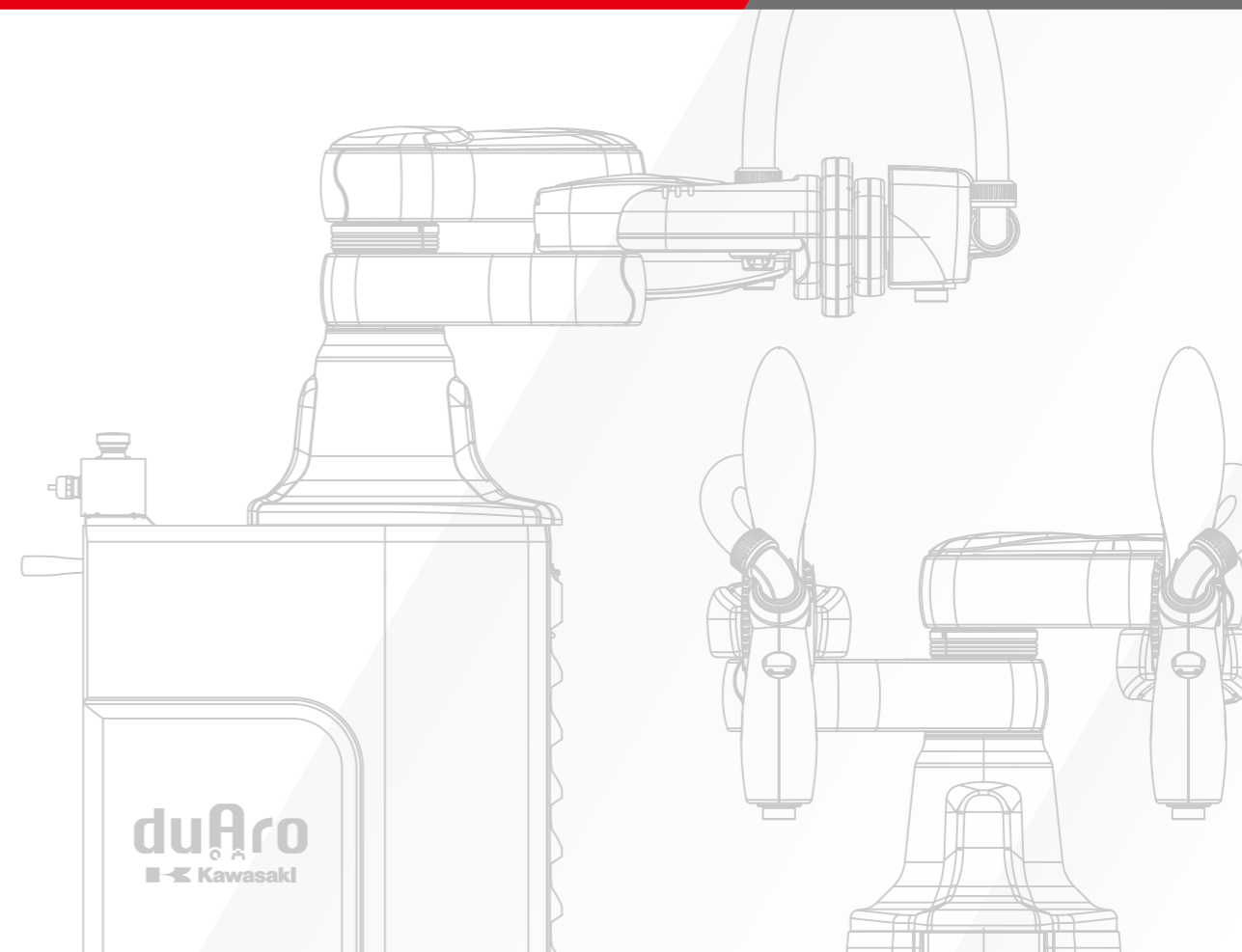
#### Kawasaki Robotics India Pvt. Ltd.

Plot No. 136, Sector-37, Pace City 1,  
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.



# 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



duAro 1



duAro 2

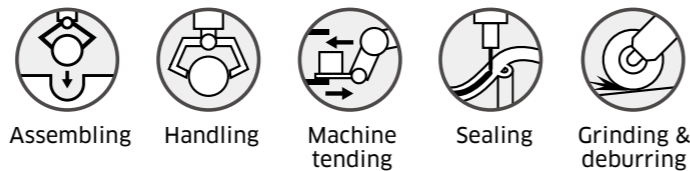


### Features

- 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

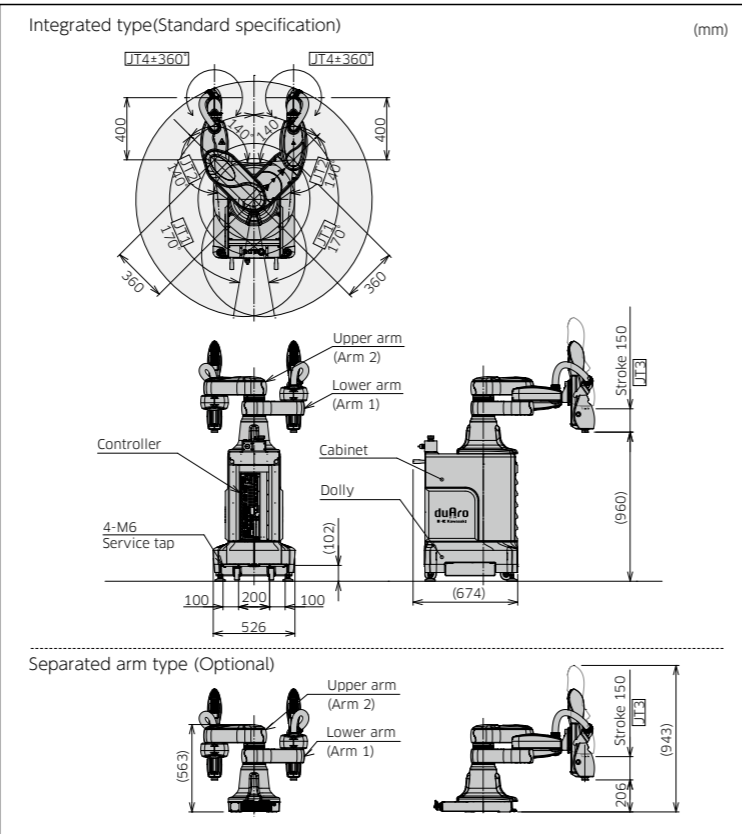


## duAro 1

### 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 (JT2)
	Arm up-down*1 (mm)	0 - +150 (JT3) 0 - +150 (JT4)
Allowable moment (N·m)	Wrist axis (JT4)	3.9
	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



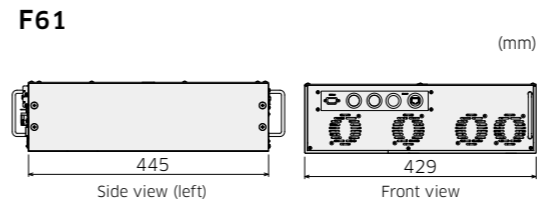
## F61

### 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 1 (lower arm)	Arm 2 (upper arm)
	Arm rotation (°)	±170 (JT1) -140 - +500 (JT2)
	Arm up-down*1 (mm)	0 - +550 (JT3) 0 - +550 (JT4)
Allowable moment (N·m)	Wrist axis (JT4)	3.9
	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

