

Collaborative Robot





1 2 kg

1,305_{mm}
Max. Reach

43kg

Weight

Specifications of the Collaborative Robot



reddot award 2019 best of the best







RЛ	$\sim d$	\sim

Payload		kg
Operation Radi	us	mm
Degree of Free	dom	Axes
Installation Met	hod	
Max.	S	۰
Operation Range	Н	
· tai.ige	V	
	R2	
	В	
	R1	
Maximum	S	°/s
Speed	Н	_
	V	_
	R2	
	В	
	R1	
Allowable	R2	kgf⋅m
Torque for the Wrist	В	
Axis	R1	
Degree of Repeatability		mm
Operating Temperature		°C
Weight		kg

YL005

12005
5
916
6
Anywhere(Floor, Ceiling, Wall)
±180
+270 ~ -90
±180
±180
±180
±180
180
180
180
180
180
180
4.9
2.7
2.8
±0.1
0~45
27

YL012

IP54

12
1,305
6
Anywhere(Floor, Ceiling, Wall)
±180
+270 ~ -90
±180
±180
±180
±180
180
125
180
180
180
180
5.0
5.6
2.8
±0.1
0~45
43

YL015

15
963
6
Anywhere(Floor, Ceiling, Wall)
±180
+270 ~ -90
±180
±180
±180
±180
180
125
180
180
180
180
5.0
5.6
2.8
±0.1
0~45
42
IP54

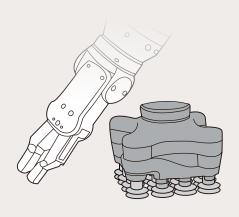
Controller

IP Grade

Size WxHxD mm Weight kg IP Grade Digital Analog I/O Power Supply VAC Fieldbus/UI VAC			
IP Grade I/O - flange Digital Analog I/O Power Supply Input Power VAC	Size	WxHxD	mm
I/O - flange Digital Analog I/O Power Supply Input Power VAC	Weight		kg
Analog I/O Power Supply Input Power VAC	IP Grade		
I/O Power Supply Input Power VAC	I/O - flange	Digital	
Input Power VAC		Analog	
mpact offer.	I/O Power Supp	oly	
Fieldbus/UI	Input Power		VAC
	Fieldbus/Ul		

260 x 490 x 510	
27	
IP20	
8 In / 8 Out	
2 In / 2 Out	
24 V Max. 2A	
100~240 (50~60Hz)	
PROFINET IO, EtherNet/IP, EtherNet(TCP/IP), PROFIBUS, DeviceNet, CANOpen, CC-Link, CC-Lir EtherCAT. MODBUS/TCP	nk IE Field,

Cooperative Robot Eco System



End Effector

- Provides tools of various payloads that can be applied to various applications
- · Simple programming and easy installation
- Data for modification will be provided to improve compatibility

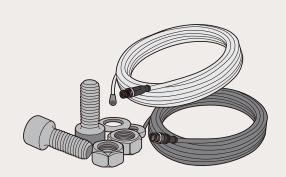
* Optional item that needs to be purchased additionally



Mobile Cart

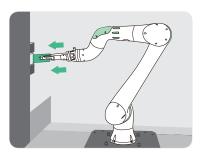
- \cdot Makes it unnecessary to perform the base work prior to the installation of the robot and helps secure an operation platform
- · Makes it convenient to install and store the controller, T/P, and various peripheral devices
- · Makes it simple to rearrange the layout and adjust the height
- · Makes it possible to set the T/P position according to the customer's viewing angle, freeing both hands of the operator

* Optional item that needs to be purchased additionally

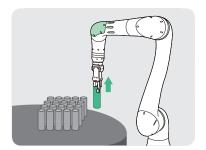


Starter Kit

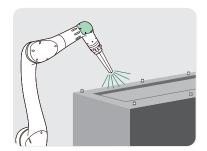
- Basic subsidiary materials necessary for installation will be provided.
- · Basic cables (for I/O and EtherCAT) will be provided for interface with the end effector.



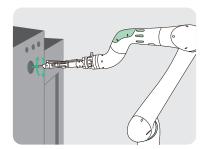
CNC Machine Tending



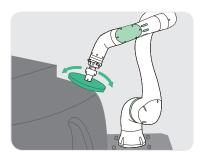
Pick & Place



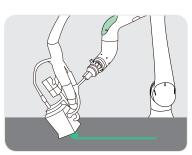
Air Blowing



Assembly (Screw, Gear)



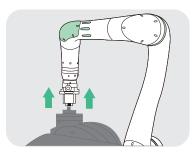
Polishing & Deburring



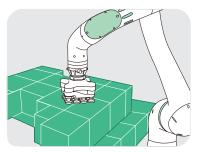
Gluing/Bonding



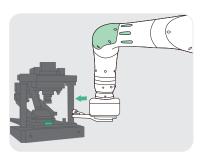




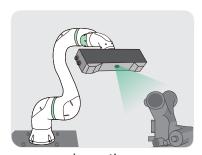
Plastic Injection Assistance



Packaging & Palletizing



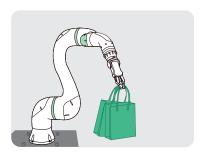
Press Forming Assistance



Inspection



Welding



Service

Features of the Robot



- · Touch-type T/P and simple interface
- · Two basic air units are provided, making additional wiring unnecessary
- · The hand grip switches make it possible to perform direct teaching



- · An integrated drive module that can be replaced easily is applied
- · A door-type case is applied, making it easy to perform maintenance of the controller



- · A buffer for the prevention of data loss because of temporary power instability is embedded
- · A high-capacity power module that can be applied to high-payload collaborative robot is applied



- · A safety CPU approved by an international certification institute (TÜV SÜD) is applied.
- · Optimized response to the "industrial robot safety inspection" and the "collaborative robot workplace safety certification"



- · A streamlined design that provides psychological tranquility for the operator
- · Outright prevention of the accident of being caught through the application of a curved design

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