# ROBO PUMP



Equipment can be entirely electric with ROBO Pump®.

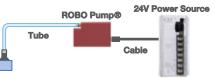


Click here for movie

# No piping necessary

Unlike an ejector, no air piping, compressor, or solenoid valve is required. Simply connect the ROBO Pump to the cable and power supply, and it

can be activated immediately.
Additionally, by equipping the wireless feature (option), wireless communication with a teaching tool can be performed.



# Compact and Easy

This palm-size unit requires very little installation space. The unit contains a built-in solenoid valve and pressure sensor,

and pressure sensor, making it ideal for suctioning lightweight objects.

Display panel



# Main Unit Features

The display unit is capable of showing the current pressure and alarm details. Additionally, various settings such as threshold values and parameters can be set with the operation switches (four-way + center push type).

Operation switches









Alarm Display

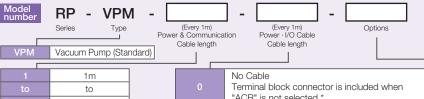


Threshold Setting



Parameter Change





		10	
		10m	
(Note) When using the interface box, 9m is the			

maximum available.

0	No Cable Terminal block connector is included when "ACR" is not selected *
1 to 9	1m to 9m standard cable included
S1 to S9	1m to 9m 4-way connector cable included

<sup>\*</sup> When selecting RCON-EC connection specification (ACR), select "0, " Power · I/O connector is not included.

(S): 4-way connector cable

(Note) Make sure that the total length along with the actuator cable is 10m or less.

#### \*Please choose "ENG" option for the English Language Version.

Blank	NPN specification (Connected via I/F box) No option
ACR RCON-EC connection specification *1  ENG Please add "ENG" option for English Version	
TMD2	Split motor and controller power supply specification *1
WL	Wireless communication specification (Connected via I/F box) *2

<sup>&</sup>quot;11 "PN" and/or "TMD2" cannot be selected when "ACR" is selected. (I/O for "ACR" option is NPN only)

"2 "WL" cannot be selected when "ACR" is selected.

(When using wireless communication, an interface box and cable must be purchased separately.)

#### Product Price

Specification
RCON-EC connection specification (Note1)
NPN/PNP specification

(Note1) Make sure to select "ACR" in the options.

#### Power & Communication Cable

Cable code	Cable length
1 to 3	1 to 3m
4 to 5	4 to 5m
6 to 10	6 to 10m

(Note) Robot cable.

#### Power · I/O Cable \* Only a terminal block connector is included.

Standard connector cable		
Cable code	Cable length	User Wiring Type Flying leads CB-EC-PWBIO □ □ RB enclosed
0	No Cable	* The only accessory provided is the terminal block.
1 to 3	1 to 3m	✓
4 to 5	4 to 5m	✓
6 to 9	6 to 9m	✓

4-way connector cable			onnector cable	
	Cable code	Cable length	User Wiring Type Flying leads CB-EC2-PWBIO□□□-RB enclosed	
	S1 to S3	1 to 3m	✓	
	S4 to S5	4 to 5m	✓	
	S6 to S9	6 to 9m	✓	

(Note) Robot cable.

Name	Option code
RCON-EC connection specification	ACR
PNP specification	PN
Split motor and controller power supply specification	TMD2
Wireless communication specification	WL

#### Brackets (sold separately)

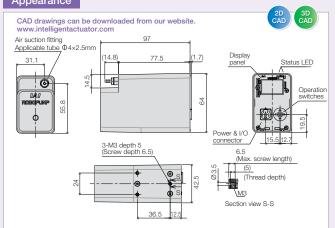
Name	Model	
Side Attachment Bracket	RP-BKT-VPM	
Cable Support Bracket	RP-FST-VPM	

For the external dimensions and mounting methods, refer to the instruction manuals.

## Specification

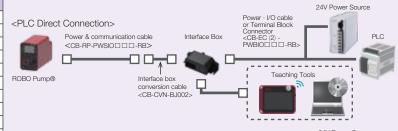
Item	Contents		
Withdrawal Method	Vent to atmosphere		
Pump Type	Diaphragm Pump System		
Power supply voltage	24VDC±10%		
Power supply current	Rated 0.8A maximum 1.3A		
Vacuum pressure	-50kPa or less		
Generated flow volume	1.8L/min or more		
Air suction fitting size	For Φ4x2.5mm tube		
Installation orientation	Horizontal		
Ambient operating temperature	0 to 40℃		
Ambient operating humidity	85% RH or less (no condensation)		
Allowable Duty Cycle	100% Duty cycle operation available		
	* Duty (%)		
	=Vacuum Time / (Vacuum Time + Stop Time)		
Protection rating	IP20		
Mass	320g		

## Appearance

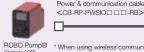


#### Connected

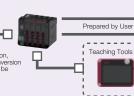
\* For individual model numbers and connection limitations, refer to the instruction manual.



### <RCON-EC Connection> Power & communication cable



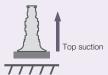
\* When using wireless communication, an interface box, interface box conver cable, and power · I/O cable must be purchased separately.



## Reference for Loadable Workpiece Mass

Suction Cup Diameter (mm)	Top suction payload (kgf) <safety 4="" margin=""></safety>	Side suction payload (kgf) <safety 8="" margin=""></safety>
1	0.001	0.0005
3	0.009	0.0045
6	0.036	0.018
10	0.1	0.05
15	0.225	0.113
20	0.401	0.2

(Pressure -50kPa, Nitrile Rubber Pad)







Side suction

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