

EPSON Washdown Robots for Perishable Foods

Designed for Automation of Unwrapped Food Transportation Lines

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Resistant to Antiseptic Wash

Special surface treatment enables high tolerance to medical solution/detergent from mild acid to mild alkaline. All axes are IP67-grade waterproof and washable.

Sanitary-Design: Prevent Foreign Substances from Remaining

Smooth surface design makes C3-IP67 robots easy to clean.

Safe Material

Safe coating material,*1 which is also used for kitchen utensils, is used for exterior parts. For oil seal lubrication, food-grade grease is used. Also, end effectors are stainless, which reduces a risk of contamination by foreign substances.

*1 Material approved by FDA (U.S. Food and Drug Administration) for contact with food

*2 NSF H1 Grade

Compact and Slim Design

Compact and slim design makes it easy to install C3-IP67 robots in a sealed environment such as inside an isolator.

Benefits of Epson Washdown Robots

• Sanitary Control

In perishable food fields, risk management to prevent all kinds of food contamination caused by human intervention is required. By introducing Epson chemical cleanable robots, you can constantly maintain hygienic production lines. Also, Epson C3-IP67 robots are detergent washable making them easy to maintain proper cleanliness for food applications.

• Improve Quality

Robots can reduce the variation in quality caused by human labor. With high precision and performance of repetitive tasks, Epson robots can improve the quality of your products.

• Cost Reduction

Robot automation can reduce overall costs of operation by reducing the number of production line workers, and rework activities while at the same time improving yields through increased quality and throughput.



The Best Just Got Better

EPSON C3-A601P (IP67) Specifications

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EPSON ROBOT MODEL		C3-A601P (IP67)
Configuration		Articulated 6 Axis
Mounting Configurations		Table Top, Ceiling
Payload (Rated/Max)		1 kg / 2.5 kg
Repeatability		+/-0.02 mm
Motion Range	J1	+/-170 deg (without stopper +/-180 deg)
	J2	-160 deg ~ +65 deg
	J3	-50 deg ~ +210 deg
	J4	+/-200 deg
	J5	+/-130 deg
	J6	+/-360 deg
Horizontal Reach	to mounting face	690 mm
	to wrist center	605 mm
Arm Length		250 (lower arm) / 255 (upper arm)
Arm Offset		J1 : 100 mm
Wrist Length		85mm
Speed	J1	450 deg/sec
	J2	450 deg/sec
	J3	514 deg/sec
	J4	553 deg/sec
	J5	553 deg/sec
	J6	720 deg/sec
Cycle Time	1kg payload	0.45 sec or less
Allowable Moment	J4 - J6	4.41 N*m
	J5	4.41 N*m
	J6	2.94 N*m
Allowable Moment of Inertia	J4	0.3 kg*m ²
	J5	0.3 kg*m ²
	J6	0.1 kg*m ²
Motor Ratings	Axis 1	400 watts
	Axis 2	400 watts
	Axis 3	150 watts
	Axis 4	50 watts
	Axis 5	50 watts
	Axis 6	50 watts
Environment		Cleaning Fluid: pH4.5 ~ 8.5 Cleanroom Rating: ISO 4 Environmental Protection: IP67
Weight		35 kg
User Lines	Electric	10pin-round shape connector
	Air	4 pneumatic tubes (Φ4mm)
Brakes		All axes
Safety Regulations		Machinery Directive : ISO10218,EN60204-1 EMC Directive : EN55011,EN61000-6-2 Low voltage Directive : EN60204-1,EN60950 RoHS : 2002/95/EC ANSI/RIA : R15.06-1999 JIS B 8433
Options		Brake Release Box
Available Controllers		Micro PowerDrive RC180 PC Based Controller RC620+

**Available
with 2 Different
Controllers**



**Micro PowerDrive
RC180**



**PC Based Controller
RC620+**

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*1 Specifications are subject to change without notice.

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