

EC-ST11



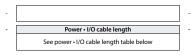
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■ Model Specification Items















- (1) The home position is set on the non-motor side for the standard specification. Please check Dimensions for the home position.
- (2) Use with allowable load of 300N or less for the thrust from a conveyor, etc.
- (3) When using a ϕ 7.8 through hole, the motor cover must be removed.

Operation Range

Stroke (mm)	EC-ST11	
50	0	

Name	Option code	Reference page
RCON-EC connection specification (Note 1)	ACR	11
Brake	В	11
Designated grease specification	G5	11
Front spacer FS		
Opposite home position specification (Note 2)	NM	11
PNP specification	PN	12
Split motor and controller power supply specification	TMD2	12
Battery-less	WA	12
absolute encoder specification	WA	12
Wireless communication specification	WL	12
Wireless axis operation specification	WL2	12

- (Note 1) If the RCON-EC connection specification (ACR) is selected, the PNP specification (PN) and split motor and controller power supply specification (TMD2) cannot be selected.
 (Note 2) Standard specification homes away from the motor end. Opposite specification
- homes at the motot end.

Power • I/O Cable Length

■ Standard Connector Cable

Cable code	Cable length	User wiring specification (flying leads) CB-EC-PWBIO□□□-RB supplied	RCON-EC connection specification (Note 4) (with connectors on both ends) CB-REC-PWBIO CR Supplied	
0	Without cable	○(Note 3)	0	
1~3	1 ~ 3m	0	0	
4~5	4 ~ 5m	0	0	
6~7	6 ~ 7m	0	Ö	
8 ~ 10	8 ~ 10m	0	0	

(Note 3) Only terminal block connector is included. Please refer to P. 18 for details. (Note 4) If RCON-EC connection specification (ACR) is selected as an option. (Note) Robot cable.

■ 4-way Connector Cable

Cable code	Cable length	User wiring specification (flying leads) CB-EC2-PWBIO□□□-RB supplied	RCON-EC connection specification (Note 5) (with connectors on both ends) CB-REC2-PWBIO □ □ □-RB supplied
S1 ~ S3	1 ~ 3m	0	0
S4 ~ S5	4 ~ 5m	0	0
S6 ~ S7	6 ~ 7m	0	0
S8 ~ S10	8 ~ 10m	0	0

(Note 5) If RCON-EC connection specification (ACR) is selected as an option. (Note) Robot cable.

Main Specifications

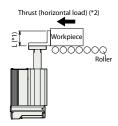
Item		Description		
Lead	Lead Ball screw lead (mm)		5 2.5	
	Payload (Note 6)	Payload (kg) (energy-saving disabled)	1	3
Vertical	Speed / acceleration/ deceleration	Max. speed (mm/s)	350	175
		Min. speed (mm/s)	7	4
		Rated acceleration/deceleration (G)	0.3	0.3
		Max. acceleration/deceleration (G)	0.5	0.3
Brake Brake specification Brake holding force (kgf)		Non-excitation actuating solenoid brake		
		Brake holding force (kgf)	5	10
Stro	Stroke (mm) 50		0	

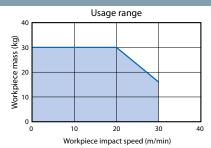
(Note 6) For operation at maximum speed and maximum acceleration/deceleration.

ltem	Description
Drive system	Ball screw, φ8mm, rolled C10
Positioning repeatability	±0.15mm
Lost motion	- (notation not available due to 2-point positioning function)
Rod	φ25mm, material: aluminum, hard alumite treatment
Guide shaft	S45C
Front bracket	Material: Aluminum, white alumite treatment
Ambient operating temperature, humidity	0 ~ 40°C, 85%RH or less (no condensation)
Ingress protection	IP20
Vibration & shock resistance	4.9m/s ²
Overseas standards	CE marking, RoHS directive
Motor type	Stepper motor (□35)
Encoder type	Incremental/battery-less absolute
Number of encoder pulses	800 pulse/rev



Correlation Diagram of Workpiece Mass and Workpiece Impact Speed





- (*1) Use within L dimension of 50mm. (*2) Use with allowable load of 300N or less for the thrust from a conveyor, etc.

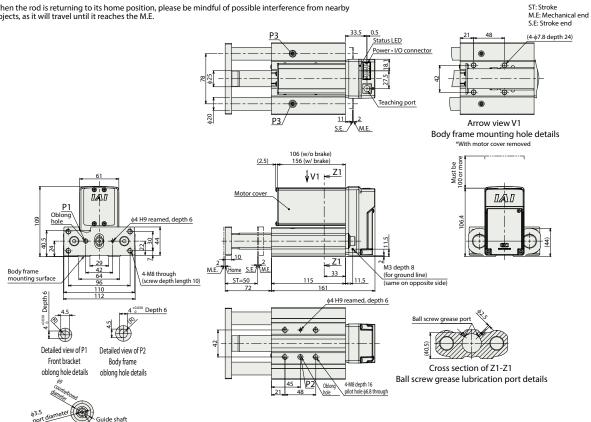
Dimensions

CAD drawings can be downloaded from our website www.intelligentactuator.com





(Note) When the rod is returning to its home position, please be mindful of possible interference from nearby objects, as it will travel until it reaches the M.E.



Detailed view of P3 Grease lubrication port details

grease port

Mass

Stroke		50
Mass	Without brake	2.6
(kg)	With brake	2.8