### EC ELECYLINDER®

# EC-TC4





The above photo shows a left side-mount specification (GT4).

#### Stroke

Stroke			
Stroke (mm)	EC-TC4		
30	0		
50	0		

Options		
Name	Option code	Reference page
Brake	В	See P.101
Table right mount	GT2	See P.105
Table bottom mount	GT3	See P.105
Table left mount	GT4	See P.105
Non-motor end specification	NM	See P.108
PNP specification	PN	See P.108
Split motor and controller power supply specification	TMD2	See P.109
Battery-less Absolute Encoder specification	WA	See P.109
Wireless communication specification	WL	See P.109
Wireless axis-operation specification	WL2	See P.109

## The actuator specifications display the payload's maximum value, but it will vary depending on the acceleration and speed. Please refer to "Table of Payload by Speed/ Acceleration" for more details.

Mini

(2) When performing a push-motion operation, please refer to the "Correlation between push force and current limit value." Push force is only a guide. Please refer to P115 for cautions.

/ertical

Horizontal

 $\overline{}$ 

Side

Ceiling

**24**v

(3) Please make sure to select an option code from the option price list below for the table mounting direction.

(4) Reference value of the overhang load length is under 100mm in the table top surface of the Ma direction, under 50mm in the table fron direction and under 120mm in the Mb and Mc directions.

(5) Special attention needs to be paid to the mounting orientation. Please refer to P33 for details.

#### Cable Length

OIN

lection

Cable code	Cable length			
0	No cable (with connector)			
1~3	1 ~ 3m			
4~5	4 ~ 5m			
6~10	6 ~ 10m			

(Note) Robot cables.

#### Main specifications

		Item	[	Description	า
Lead Ba		Ball screw lead (mm)	6	4	2
Horizontal	Payload	Max. payload (kg)	2.5	4	8
	Speed/ acceleration/ deceleration	Max. speed (mm/s)	300	200	100
		Min. speed (mm/s)	7.5	5	2.5
		Rated acceleration/deceleration (G)	0.3	0.3	0.3
		Max. accleration/deceleration (G)	0.5	0.5	0.3
Vertical	Payload	Max. payload (kg)	1	1.5	2.5
	Speed/ acceleration/ deceleration	Max. speed (mm/s)	300	200	100
		Min. speed (mm/s)	7.5	5	2.5
		Rated acceleration/deceleration (G)	0.3	0.3	0.3
		Max. accleration/deceleration (G)	0.5	0.5	0.3
Duch force	Pushing max. thrust force (N)*		30	45	90
Pushing max. speed (mm/s)		20	20	20	
Brake Brake holding specification Brake holding force (kgf)		Brake holding specification	Non-excitation actuating solenoid brake		
		1	1.5	2.5	
Stroke		Min. stroke (mm)	30	30	30
		Max. stroke (mm)	50	50	50
		Stroke pitch (mm)	20	20	20

Description		
Ball screw $\varphi$ 6mm, Rolling C10		
±0.05mm		
-		
Ma: 5N·m		
Mb: 5N · m		
Mc: 9N·m		
Ma: 3N · m		
Mb: 3N · m		
Mc: 6N·m		
5,000km or 50 million reciprocating motions		
0~40°C, 85%RH or less (Non-condensing)		
-		
4.9m/s <sup>2</sup> 100Hz or less		
CE marking, RoHS (Restriction of Hazardous Substances)		
Stepper motor		
Incremental / battery-less absolute		
800 pulse/rev		

\* Speed limitation applies to push motion. See the manual or contact IAI.

#### Direction of moment for the Table type







#### Mass by stroke

	Encoder type	Incremental		Battery-less absolute	
Stroke		30	50	30	50
Weight (kg)	Without brake	0.6	0.7	0.7	0.7
	With brake	0.8	0.8	0.8	0.8

Applicable controller

(Note) The EC series is equipped with a built-in controller. Please refer to P116 for details.