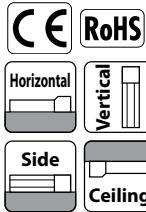


EC-RR6□AH

High Rigidity
Coupled Motor
Body width 63 mm
24 V Stepper motor

■ Model Specification Items

EC	RR6	AH			
Series	Type	Lead	Specification		
S		20mm	AH	High Rigidity	
H		12mm			
M		6mm			
L		3mm			
			Stroke		
			50	50mm	
			400	400mm (per 50mm)	
				Cable Length	
			0	With terminal block type connector	
			1	1m	
			10	10m	
				Options	
				Refer to Options below.	



Radial load specification
Radial Cylinder®


Stroke

Stroke (mm)	EC-RR6□AH	Stroke (mm)	EC-RR6□AH
50	○	250	○
100	○	300	○
150	○	350	○
200	○	400	○

Cable Length

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				
Lead	Ball screw lead (mm)	20	12	6	3	
Horizontal	Payload	Max. payload (kg) (energy-saving disabled)	6	25	40	
		Max. payload (kg) (energy-saving enabled)	6	25	40	
	Speed/acceleration/deceleration	Max. speed (mm/s)	800	700	450	
Vertical		Min. speed (mm/s)	25	15	8	
	Payload	Rated acceleration/deceleration (G)	0.3	0.3	0.3	
		Max. acceleration/deceleration (G)	1	1	1	
Push force	Payload	Max. payload (kg) (energy-saving disabled)	1.5	4	10	
		Max. payload (kg) (energy-saving enabled)	1	4	10	
Brake	Speed/acceleration/deceleration	Max. speed (mm/s)	800	700	450	
		Min. speed (mm/s)	25	15	8	
		Rated acceleration/deceleration (G)	0.3	0.3	0.3	
Stroke		Max. acceleration/deceleration (G)	0.5	0.5	0.5	
	Pushing	Pushing max. thrust force (N)*	67	112	224	
		Pushing max. speed (mm/s)	20	20	20	
Brake		Brake holding specification	Non-excitation actuating solenoid brake			
Brake		Brake holding force (kgf)	1.5	4	10	20
Stroke		Min. stroke (mm)	50	50	50	50
		Max. stroke (mm)	400	400	400	400
		Stroke pitch (mm)	50	50	50	50

Table of Payload by Speed/Acceleration

■ Setting for energy-saving disabled Unit for payload is kg. Operations on the blank locations are not possible.

Lead 20

Orientation	Horizontal		Vertical		Acceleration (G)		
	Speed (mm/s)	0.3	0.5	0.7	1	0.3	0.5
0	6	6	5	5	1.5	1.5	
160	6	6	5	5	1.5	1.5	
320	6	6	5	3	1.5	1.5	
480	6	6	5	3	1.5	1.5	
640	6	4	3	2	1.5	1.5	
800	4	3			1	1	

Lead 12

Orientation	Horizontal		Vertical		Acceleration (G)			
	Speed (mm/s)	0.3	0.5	0.7	1	0.3	0.5	
0	25	18	16	12	4	4		
100	25	18	16	12	4	4		
200	25	18	16	10	4	4		
400	20	14	10	6	4	4		
500	15	8	6	4	3.5	3		
700	6	2			2	1		

Lead 6

Orientation	Horizontal		Vertical		Acceleration (G)			
	Speed (mm/s)	0.3	0.5	0.7	1	0.3	0.5	
0	40	35	30	25	10	10		
50	40	35	30	25	10	10		
100	40	35	30	25	10	10		
200	40	30	25	20	10	10		
250	40	27.5	22.5	18	9	8		
350	30	14	12	10	5	5		
400	18	10	6	5	3	3		
450	8	3			2	1		

Lead 3

Orientation	Horizontal		Vertical		Acceleration (G)			
	Speed (mm/s)	0.3	0.5	0.7	1	0.3	0.5	
0	60	50	45	40	20	20		
50	60	50	45	40	20	20		
100	60	50	45	40	20	20		
125	60	50	40	30	10	10		
175	40	35	25	20	6	5		
200	35	30	20	14	5	4.5		
225	16	16	10	6	5	4		

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

■ Setting for energy-saving enabled Unit for payload is kg. Operations on the blank locations are not possible

Lead 20

Orientation	Horizontal			Vertical
	Speed (mm/s)	0.3	0.7	0.3
0	6	5	1	
160	6	5	1	
320	6	5	1	
480	4	3	1	
640	3	1	0.5	

Lead 12

Orientation	Horizontal			Vertical
	Speed (mm/s)	0.3	0.7	0.3
0	25	10	4	
100	25	10	4	
200	25	10	4	
300	20	8	3	
400	10	5	2	
500	5	2	1	

Lead 6

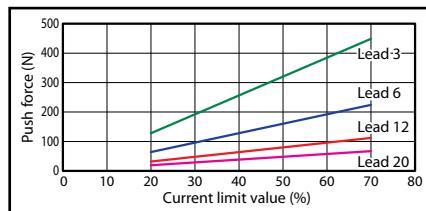
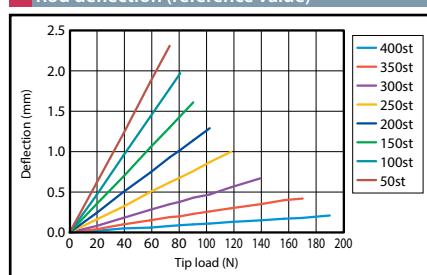
Orientation	Horizontal			Vertical
	Speed (mm/s)	0.3	0.7	0.3
0	40	20	10	
50	40	20	10	
100	40	20	10	
150	40	20	8	
200	35	18	5	
250	10	6	3	

Lead 3

Orientation	Horizontal			Vertical
	Speed (mm/s)	0.3	0.7	0.3
0	40	25	20	
25	40	25	20	
50	40	25	20	
75	40	25	12	
100	40	25	9	
125	40	25	5	

■ Stroke and maximum speed

Lead (mm)	Energy-saving mode	50-400 (per 50mm)
		(Unit is mm/s)
20	Disabled	800
	Enabled	640
12	Disabled	700
	Enabled	500
6	Disabled	450
	Enabled	250
3	Disabled	225
	Enabled	125

■ Correlation between push force and current limit value

■ Rod deflection (reference value)

■ Dimensions

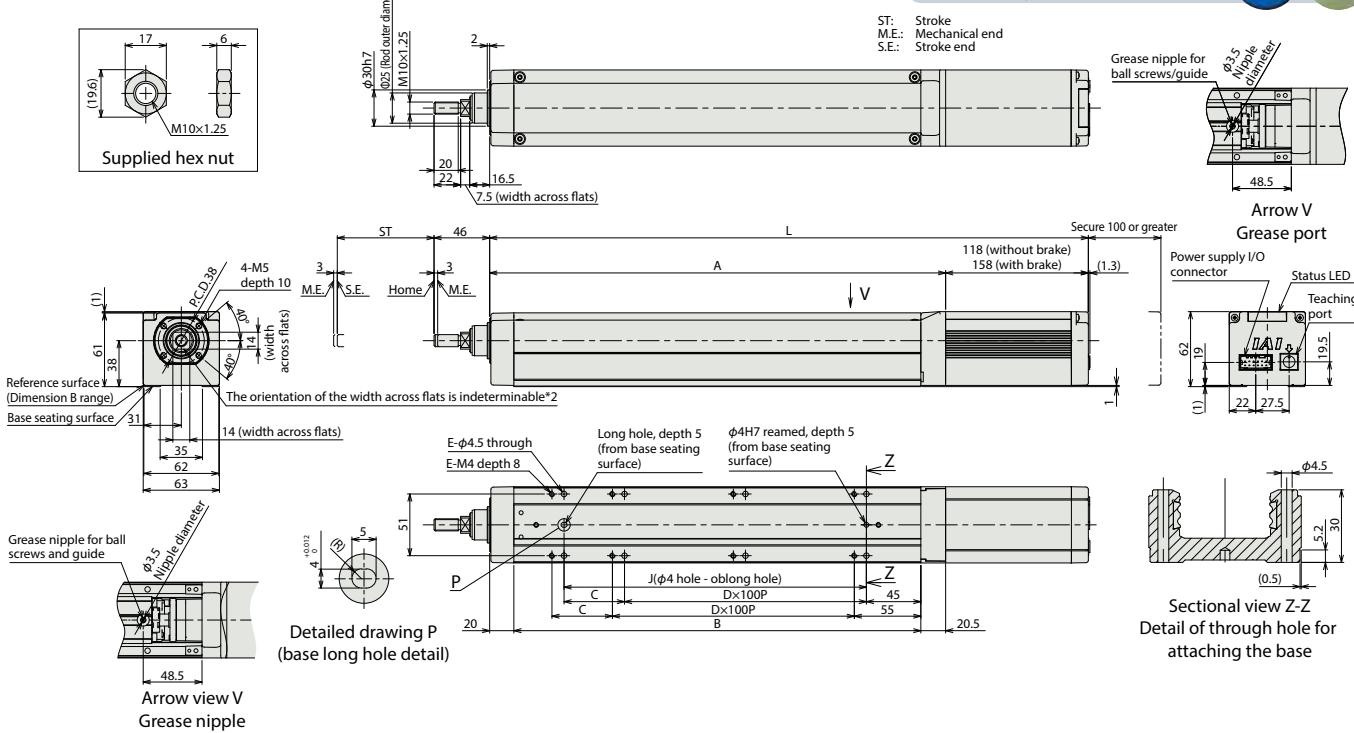
*1 When the rod is returning to its home position, please be careful of interference from surrounding objects, as it will travel until it reaches the M.E.

*2 The direction of width across flats varies depending on the product. Those flats cannot be used for reference plane.

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

2D CAD

3D CAD


■ Dimensions by stroke

Stroke	50	100	150	200	250	300	350	400
L	W/o Brake	345	395	445	495	545	595	645
	With Brake	385	435	485	535	585	635	685
A		227	277	327	377	427	477	527
B		186.5	236.5	286.5	336.5	386.5	436.5	486.5
C	0	50	0	50	0	50	0	50
D	1	1	2	2	3	3	4	4
E	4	6	6	8	8	10	10	12
J	100	150	200	250	300	350	400	450

■ Mass by stroke

Stroke	50	100	150	200	250	300	350	400
Weight (kg)	W/o Brake	2	2.2	2.5	2.8	3	3.3	3.6
	With Brake	2.3	2.5	2.8	3.1	3.3	3.6	3.9

■ Applicable controller

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