







(1) Since the feed screw has no rotation stopper, add a rotation stop mechanism such as a guide to the tip of the feed screw when in use. (If there is no rotation stopper, the feed screw will rotate instead of traveling back and forth.)
Also, do not use floating ioints when connecting the rotation stop mechanism to the rod.

Also, do not use floating joints when connecting the rotation stop mechanism to the rod. Please refer to P.21 to P.27 for mounting methods, conditions, etc.

(2) The maximum acceleration/deceleration is 0.3G for lead 2 and 0.5G for leads 4 and 6. (3) The value of the payload assumes that there is an external guide.

(3) The value of the payload assumes that there is an external guide(4) When performing push-motion operation, refer to P.65.

## Table of Payload by Speed/Acceleration

#### Lead 6 Horizontal Vertical Orientation Acceleration (G) Speed (mm/s) 0.3 0.5 0.5 0 2.5 2.5 1 1 300 2.5 2.5 1 1

Lead 4				
Orientation	Horizontal		Vertical	
Speed	Acceleration (G)			
(mm/s)	0.3	0.5	0.3	0.5
0	4	4	1.5	1.5
200	4	4	1.5	1.5

# Speed (mm/s) Acceleration (G) 0 8 2.5 100 8 2.5

# Selection Notes

#### Actuator Specifications

#### ■ Lead and Payload Max. payload Max. push Lead Model number (mm) force (N)\* Horizontal (kg) Vertical (kg) EC-RP4H-11-2(-3) 6 30 2.5 1 EC-RP4M-1-2(-3) 4 4 1.5 45 EC-RP4L-1-2(-3) 2 8 2.5 90

Legend: 1 Stroke 2 Cable Length 3 Option

#### ■ Stroke and Max Speed

Stroke and Max Speed		(Unit: mm/s)
Lead (mm)	30 (mm)	50 (mm)
6	30	00
4	20	00
2	10	00

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

#### ① Stroke

① Stroke	EC-RP4
30	0
50	0

#### ② Cable Length

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

### ③ Options

Name	Option code	Reference page
Brake	В	See P.59
PNP specification	PN	See P.62
Battery-less Absolute Encoder specification	WA	See P.62
Wireless communication specification	WL	See P.62

#### Actuator Specifications

Item	Description
Drive system	Ball screw φ6mm, rolled C10
Positioning repeatability	±0.05mm
Frame	Material: Aluminum, black alumite treatment
Ambient operating temperature/humidity	0 to 40°C, 85% RH or less (Non-condensing)
Service life	5,000km or 50 million cycles



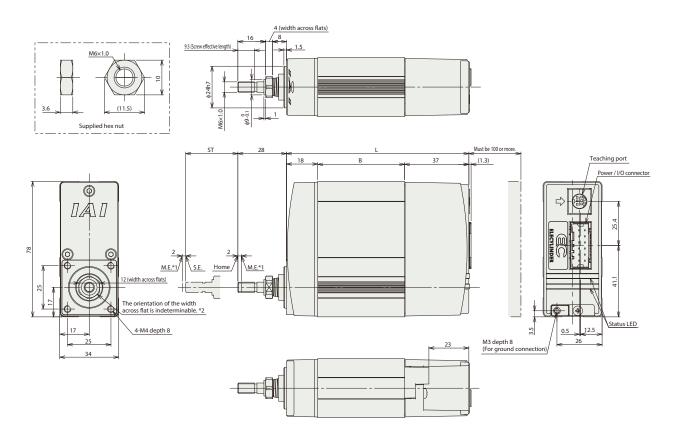
#### Dimensions

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



- \*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.

  M.E. Mechanical end S.E. Stroke end
  \*2 The direction of width across flats varies depending on the product. Those flats cannot be used for reference plane.



#### ■ Dimensions and Mass by Stroke

Encoder Type		Incremental		Battery-less Absolute	
	Stroke	30	50	30	50
	W/o Brake	105	125	125	125
L	With Brake	135	135	155	155
В	W/o Brake	50	70	70	70
	With Brake	80	80	100	100
Weight (kg)	W/o Brake	0.5	0.6	0.6	0.6
	With Brake	0.7	0.7	0.7	0.7

Name	Touch Panel Teaching Pendant	PC software	24VDC power supply
External view	TAI TAI		Trace
Model	☐ TB-02 (for wired connection only) ☐ TB-03 (for wired/wireless connection)	☐ RCM-101-MW (RS232 connection version) ☐ RCM-101-USB (USB connection version)	☐ PS-241 (100V input) ☐ PS-242 (200V input)
Overview	TB-02 A teaching pendant equipped with functions such as start point, end point, and AVD input, trial operation, and monitoring.  TB-03 A data setter that supports wireless connection. The start point, end point and AVD can be input with wireless connection.	Software for start point input, end point input and AVD input, trial operation, and monitoring using a PC. Both the RS232C version and USB version are available for PC connection.	A 24VDC power supply that can instantaneously output up to 17A. Input voltage 200VAC and 100VAC specifications are available.