

ELECYLINDER® Belt Driven Type **EC-B6/EC-B7**



**New Additions with
Digital Speed Controller!**

See P20



Simple & Wireless Operation
2 Position Actuator



2-point positioning

Built-in controller

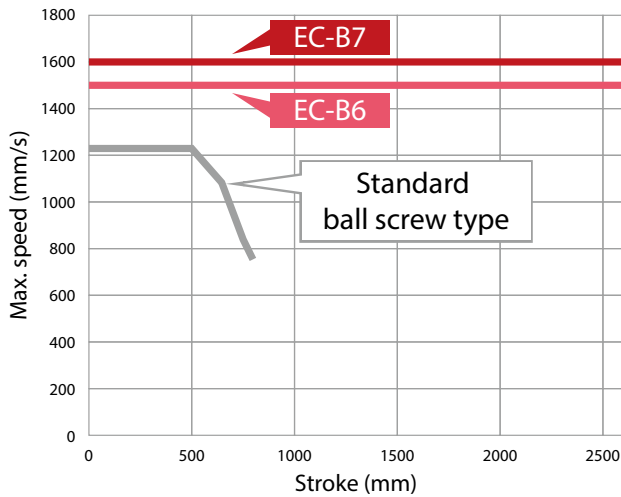
ELECYLINDER® EC-B6/B7 Belt Driven Type



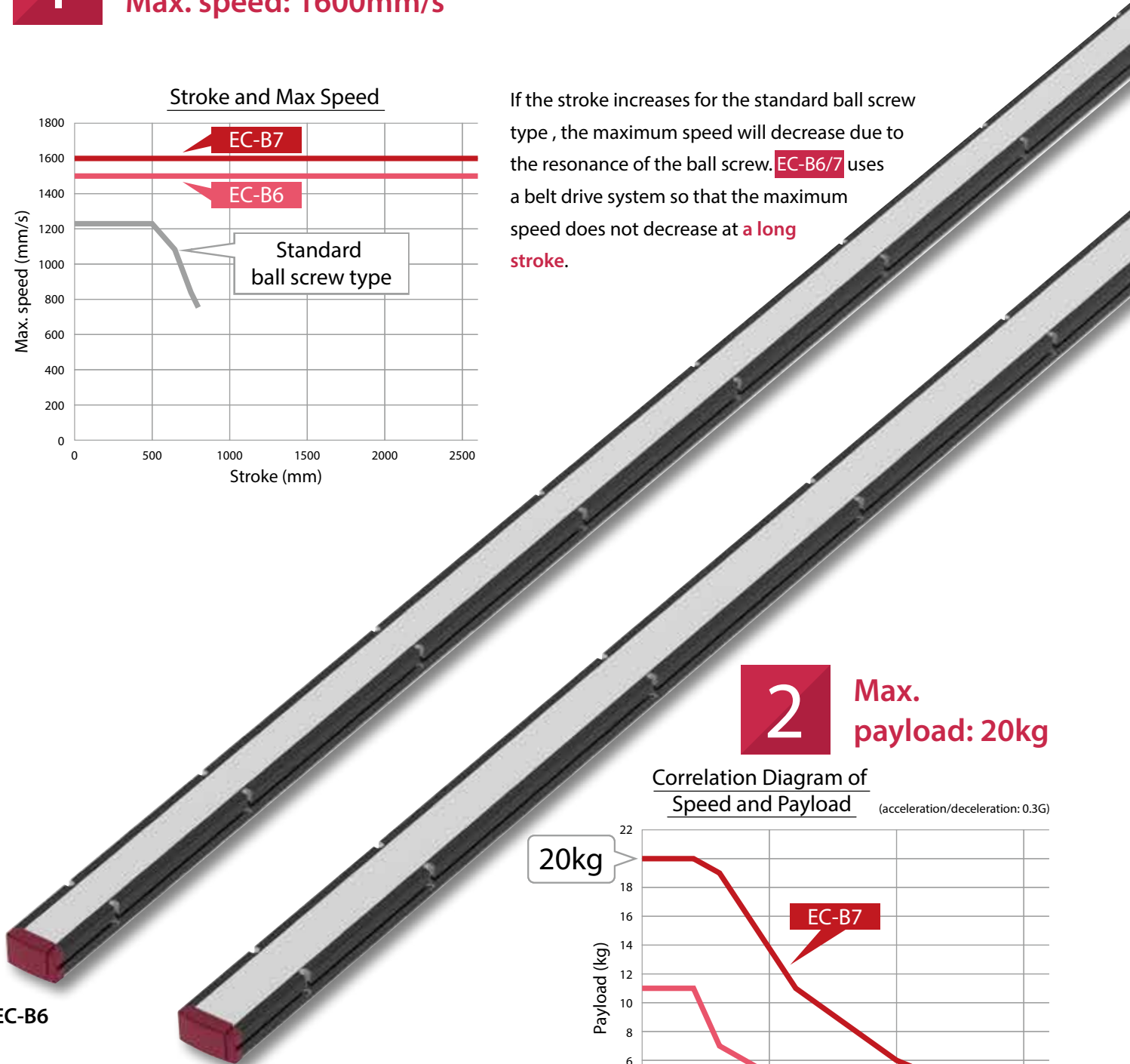
1

Max. stroke: 2600mm
Max. speed: 1600mm/s

Stroke and Max Speed



If the stroke increases for the standard ball screw type, the maximum speed will decrease due to the resonance of the ball screw. EC-B6/7 uses a belt drive system so that the maximum speed does not decrease at a long stroke.



EC-B6

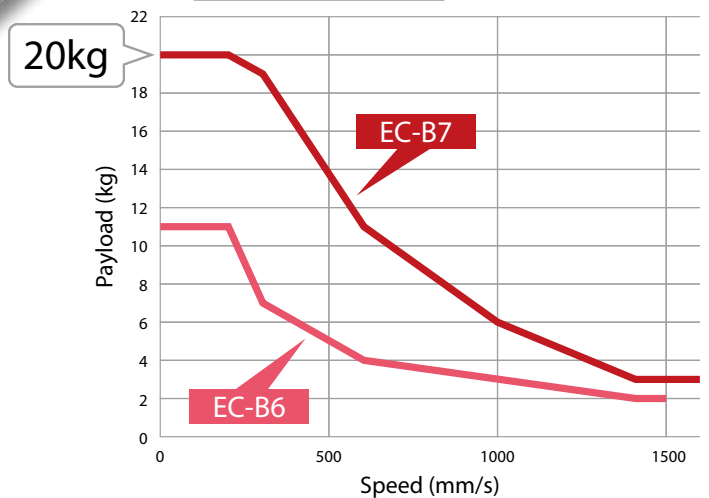
EC-B7

2

Max.
payload: 20kg

Correlation Diagram of
Speed and Payload

(acceleration/deceleration: 0.3G)

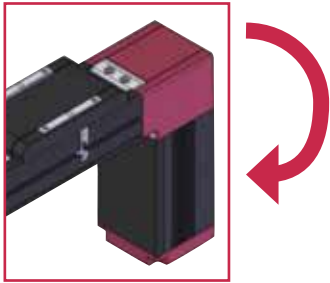




Select a battery-less absolute encoder as an option to eliminate the need to return home at a long stroke!

3

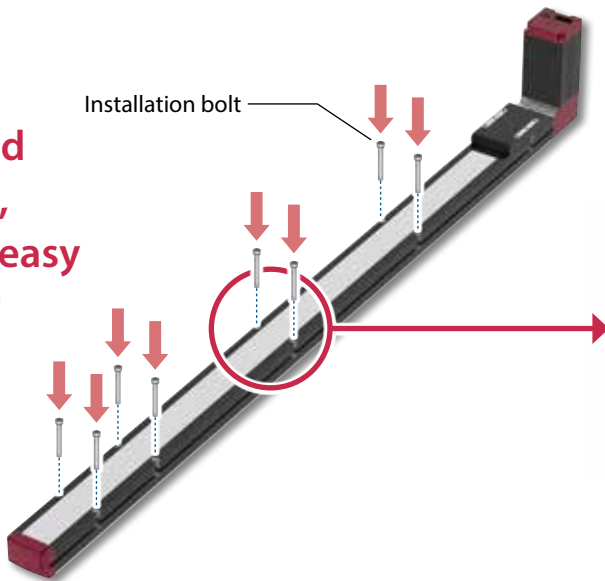
The motor installation direction can also be changed after purchase



Downward facing motor specification

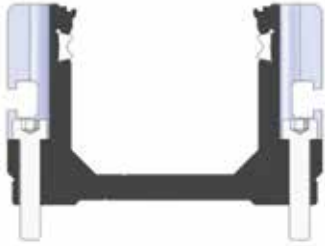
4

Can be bolted from the top, allowing for easy replacement



Installation bolt

Installation bolt size
B6: M4, B7: M5



5

Installation orientation
Can be installed in any of the following orientations*

Horizontal on flat surface



Horizontal side mounted

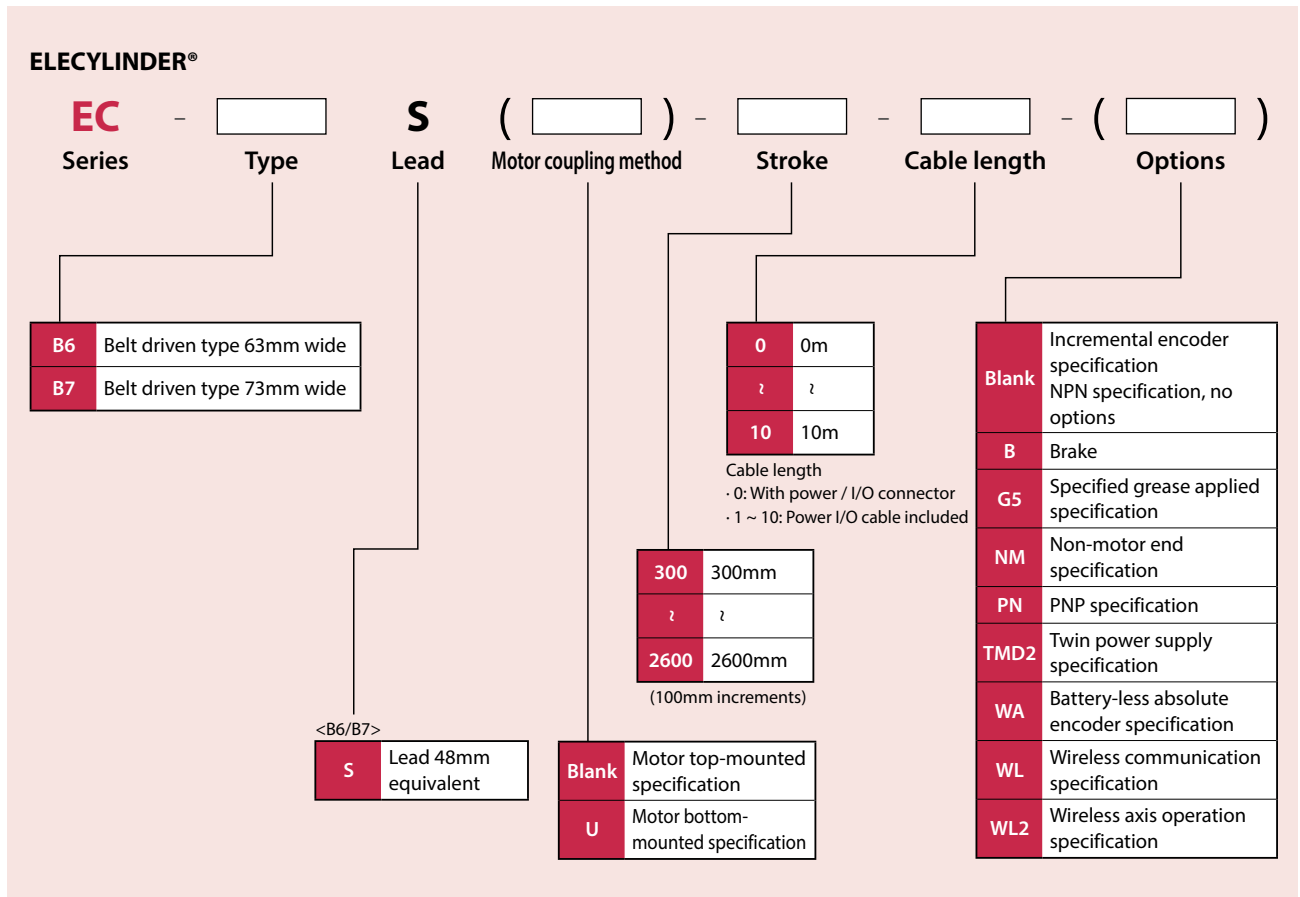


Horizontal suspended



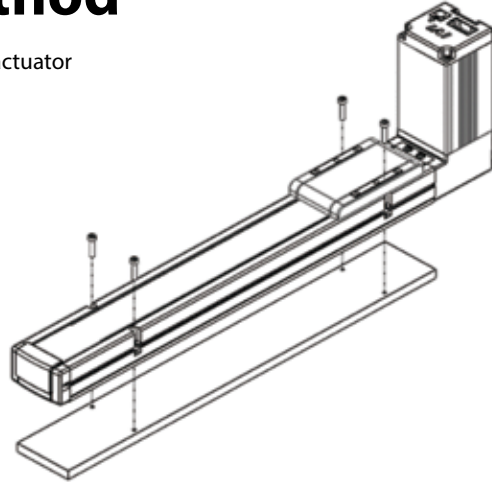
* Installing the product horizontal side mounted or horizontal suspended may cause slack or misalignment in the stainless steel sheet. Continued use in these orientations can cause the stainless steel sheet to break. Please inspect it daily and adjust the sheet if any slack or misalignment is found.

Model Specification Items



Mounting method

- Use the through holes on top of the actuator



Precautions for Installation

- Mounting orientation

○: Can be mounted ×: Cannot be mounted

		Mounting orientation			
Series	Type	Horizontal mounting on flat surface	Horizontal side mounting	Horizontal mounting suspended	Vertical mount
EC	B6	○	○ (*)	○ (*)	×
	B7	○	○ (*)	○ (*)	×

* Installing the product horizontal side mount or horizontal suspended may cause slack or misalignment in the stainless steel sheet. Continued use in these orientations can cause the stainless steel sheet to break. Please inspect it daily and adjust the sheet if any slack or misalignment is found.

- Keep the body installation surface and workpiece mounting surface flatness within 0.05mm/m. Uneven flatness will increase the slider's sliding resistance and may cause malfunction.

Duty Ratio

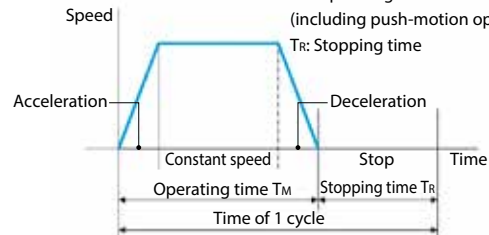
EC-B6/B7 can be operated at 100% of its duty cycle.
(Ambient temperature 0 to 40°C.)

[Duty Cycle]

Duty cycle is the percentage of the actuator's active operation time in each cycle.

$$D = \frac{T_M}{T_M + T_R} \times 100(\%)$$

D: Duty
T_M: Operating time
(including push-motion operation)
T_R: Stopping time



EC-B6S

EC-B6SU

Simple dust-proof Coupled Motor Body width 60 mm 24v Stepper motor Belt type

Model Specification Items

EC - B6 S

Series	Type	Lead	Specification	Stroke	Cable Length	Option
	S	48mm	Blank Motor top-mounted U Motor bottom-mounted	300 ~ 2600 300mm ~ 2600mm (100mm increments)	0 Terminal type with connector 1 ~ 10 1m ~ 10m	Refer to option below



CE RoHS

Horizontal Side Ceiling Vertical

(Note) The above is motor top-mounted type.

Stroke

Stroke (mm)	Stroke (mm)
300	1500
400	1600
500	1700
600	1800
700	1900
800	2000
900	2100
1000	2200
1100	2300
1200	2400
1300	2500
1400	2600

Option * Please check the Options reference pages to confirm each option.

Name	Option code	Reference page
Brake	B	13
Specified grease applied specification*	G5	13
Non-motor end specification	NM	13
PNP specification	PN	13
Twin power supply specification	TMD2	13
Battery-less absolute encoder specification	WA	13
Wireless communication specification	WL	13
Wireless axis operation specification	WL2	13

*Change grease to food grade.

Cable Length

Cable code	Cable length
0	Without cable (with connector)
1 ~ 3	1 ~ 3m
4 ~ 5	4 ~ 5m
6 ~ 10	6 ~ 10m

POINT Selection Notes

- (1) The belt type may cause vibration or noise during low-speed operation, so set the moving speed to 100mm/s or more.
- (2) The actuator specifications display the payload's maximum value. Please refer to "Table of Payload by Speed/ Acceleration" for more details.
- (3) Push-motion operation cannot be performed.
- (4) Special attention needs to be paid to the mounting orientation.
- (5) Reference value of the overhang load length is under 220mm in the Ma, Mb and Mc directions.
- (6) The center of gravity of the attached object should be less than 1/2 of the overhand distance. Even when the overhang distance and load moment are within the allowable range, the operating conditions should be moderated if some abnormal vibration or noise is observed.

Main Specification

Item		Description	
Horizontal	Payload	Maximum payload (energy-saving disabled) (kg)	11
		Maximum payload (energy-saving enabled) (kg)	3
	Speed/acceleration/deceleration	Max. speed (mm/s)	1500
		Min. speed (mm/s)	100
		Rated acceleration/deceleration (G)	0.3
		Max. acceleration/deceleration (G)	1.0
Brake	Brake holding specification	Non-excitation actuating solenoid brake	
	Brake holding force (N)	1.3	
Stroke	Min. stroke (mm)	300	
	Max. stroke (mm)	2600	
	Stroke pitch (mm)	100	

Item	Description
Driving system	Timing belt 9mm width 3mm pitch 48mm lead
Positioning repeatability	±0.08mm
Base	Dedicated aluminum extruded material (A6063SS-T5 Equivalent) Black alumite treatment
Linear guide	Linear motion infinite circulating type
Static allowable moment	Ma: 48 N·m
	Mb: 69 N·m
	Mc: 97 N·m
Dynamic allowable moment (Note 1)	Ma: 11 N·m
	Mb: 16 N·m
	Mc: 23 N·m
Ambient operation temperature/humidity	0~40°C, 85%RH or less (Non-condensing)
Degree of protection	IP20
Vibration & shock resistance	4.9m/s ²
Overseas standards	CE marking, RoHS (Restriction of Hazardous Substances)
Motor type	Stepper motor
Encoder type	Incremental / battery-less absolute
Number of encoder pulses	800 pulse/rev

Direction of moment for the Slider type

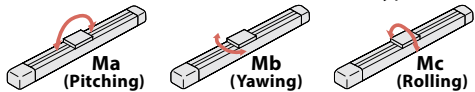


Table of Payload by Speed and Acceleration/Deceleration

Energy-saving disabled The unit for payload is kg.

Orientation	Horizontal			
	Acceleration (G)			
Speed (mm/s)	0.3	0.5	0.7	1
0	11	10	8	7
200	11	10	8	7
300	11	8.5	7	6
600	7	5	4	3
1000	4	3	2	1
1200	3	2	1	0.5
1400	2	1	1	0.5
1500	2	1	1	0.5

Energy-saving enabled The unit for payload is kg.

Orientation	Horizontal	
	Acceleration (G)	
Speed (mm/s)	0.3	0.7
0	3	2
800	3	2
1400	0.5	0.5

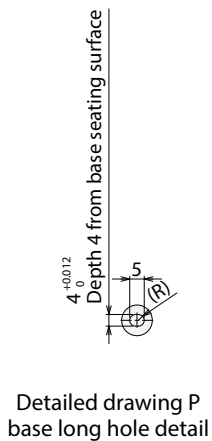
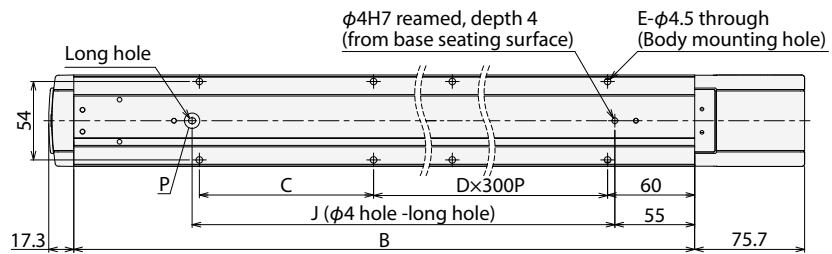
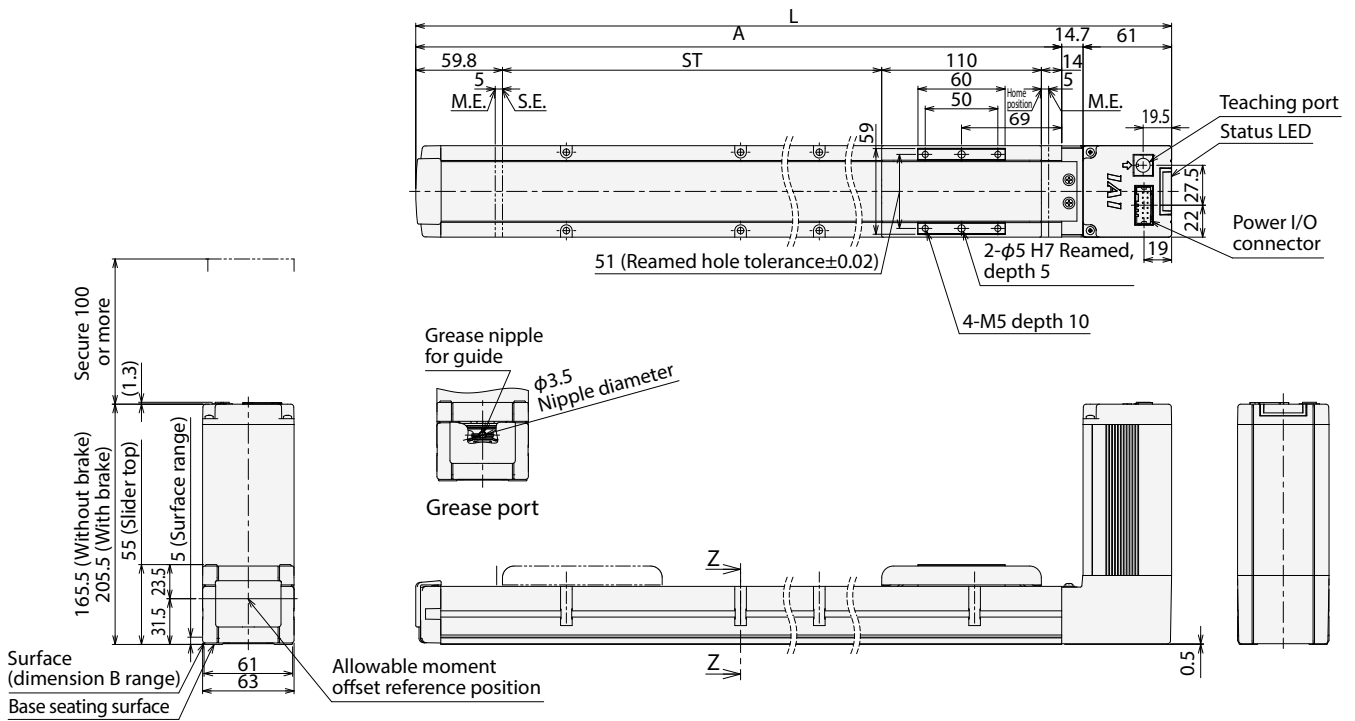
Stroke and maximum speed

Energy saving	300 (mm)	400 (mm)	500 (mm)	600 (mm)	700 (mm)	800 (mm)	900~2600 (per 100mm)
disabled	890	1070	1220	1340	1400	1440	1500
enabled	890	1070	1220	1300	1350	1400	

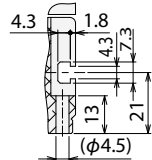
(Unit is mm/s)

(Note 1) Based on the standard rated operation life of 5,000 km. Operation life varies according to operating and mounting conditions.

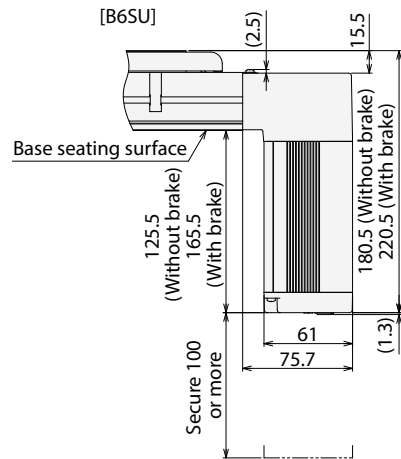
ST: Stroke
M.E.: Mechanical end
S.E.: Stroke end



Detailed drawing P base long hole detail



Sectional view Z-Z Detail of through hole for attaching the base Base mounting hole Details of T slot



■ Dimensions by stroke

Stroke	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600
L	559.5	659.5	759.5	859.5	959.5	1059.5	1159.5	1259.5	1359.5	1459.5	1559.5	1659.5	1759.5	1859.5	1959.5	2059.5	2159.5	2259.5	2359.5	2459.5	2559.5	2659.5	2759.5	2859.5
A	483.8	583.8	683.8	783.8	883.8	983.8	1083.8	1183.8	1283.8	1383.8	1483.8	1583.8	1683.8	1783.8	1883.8	1983.8	2083.8	2183.8	2283.8	2383.8	2483.8	2583.8	2683.8	2783.8
B	466.5	566.5	666.5	766.5	866.5	966.5	1066.5	1166.5	1266.5	1366.5	1466.5	1566.5	1666.5	1766.5	1866.5	1966.5	2066.5	2166.5	2266.5	2366.5	2466.5	2566.5	2666.5	2766.5
C	320	120	220	320	120	220	320	120	220	320	120	220	320	120	220	320	120	220	320	120	220	320	120	220
D	0	1	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8
E	4	6	6	6	8	8	8	10	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20
J	330	430	530	630	730	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	2430	2530	2630

■ Mass by stroke

Stroke		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600
Weight (kg)	W/o Brake	2.7	3.0	3.4	3.7	4.0	4.3	4.7	5.0	5.3	5.6	5.9	6.3	6.6	6.9	7.2	7.5	7.8	8.2	8.5	8.8	9.2	9.5	9.8	10.2
	With Brake	3.0	3.3	3.7	4.0	4.3	4.6	5.0	5.3	5.6	5.9	6.2	6.6	6.9	7.2	7.5	7.8	8.1	8.5	8.8	9.1	9.5	9.8	10.1	10.5

Note: B6SU also has the same mass.

■ Applicable controller

(Note) The EC series is equipped with a built-in controller.

EC-B7S

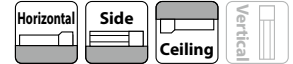
EC-B7SU

Simple dust-proof Coupled Motor Body width 70mm 24V Stepper motor Belt type

Model Specification Items

EC - B7 S [] - [] - [] - []

Series	Type	Lead	Specification	Stroke	Cable Length	Option			
	S	48mm	Blank U	Motor top-mounted Motor bottom-mounted	300 ∩ 2600	300mm ∩ 2600mm (100mm increments)	0 ∩ 1 ∩ 10	Terminal type with connector 1m ∩ 10m	Refer to option below



(Note) The above is motor top-mounted type.

Stroke	
Stroke (mm)	Stroke (mm)
300	1500
400	1600
500	1700
600	1800
700	1900
800	2000
900	2100
1000	2200
1100	2300
1200	2400
1300	2500
1400	2600

Option * Please check the Options reference pages to confirm each option.		
Name	Option code	Reference page
Brake	B	13
Specified grease applied specification*	G5	13
Non-motor end specification	NM	13
PNP specification	PN	13
Twin power supply specification	TMD2	13
Battery-less absolute encoder specification	WA	13
Wireless communication specification	WL	13
Wireless axis operation specification	WL2	13

*Change grease to food grade.

Cable Length	
Cable code	Cable length
0	Without cable (with connector)
1 ~ 3	1 ~ 3m
4 ~ 5	4 ~ 5m
6 ~ 10	6 ~ 10m

POINT Selection Notes

- (1) The belt type may cause vibration or noise during low-speed operation, so set the moving speed to 100mm/s or more.
- (2) The actuator specifications display the payload's maximum value. Please refer to "Table of Payload by Speed/ Acceleration" for more details.
- (3) Push-motion operation cannot be performed.
- (4) Special attention needs to be paid to the mounting orientation.
- (5) Reference value of the overhang load length is under 280mm in the Ma, Mb and Mc directions.
- (6) The center of gravity of the attached object should be less than 1/2 of the overhand distance. Even when the overhang distance and load moment are within the allowable range, the operating conditions should be moderated if some abnormal vibration or noise is observed.

Main Specification

Item		Description	
Horizontal	Payload	Maximum payload (energy-saving disabled) (kg)	20
		Maximum payload (energy-saving enabled) (kg)	14
	Speed/acceleration/deceleration	Max. speed (mm/s)	1600
		Min. speed (mm/s)	100
		Rated acceleration/deceleration (G)	0.3
		Max. accleration/deceleration (G)	1.0
Brake	Brake holding specification	Non-excitation actuating solenoid brake	
	Brake holding force (N)	2.5	
Stroke	Min. stroke (mm)	300	
	Max. stroke (mm)	2600	
	Stroke pitch (mm)	100	

Item	Description
Driving system	Timing belt 9mm width 3mm pitch 48mm lead
Positioning repeatability	±0.08mm
Base	Dedicated aluminum extruded material (A6063SS-T5 Equivalent) Black alumite treatment
Linear guide	Linear motion infinite circulating type
Static allowable moment	Ma: 79 N·m
	Mb: 114 N·m
	Mc: 157 N·m
Dynamic allowable moment (Note 1)	Ma: 17 N·m
	Mb: 25 N·m
	Mc: 34 N·m
Ambient operation temperature/humidity	0~40°C, 85%RH or less (Non-condensing)
Degree of protection	IP20
Vibration & shock resistance	4.9m/s ²
Overseas standards	CE marking, RoHS (Restriction of Hazardous Substances)
Motor type	Stepper motor
Encoder type	Incremental / battery-less absolute
Number of encoder pulses	800 pulse/rev

Direction of moment for the Slider type

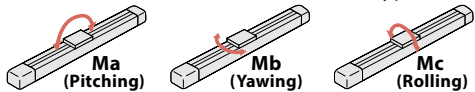


Table of Payload by Speed and Acceleration/Deceleration

Energy-saving disabled The unit for payload is kg.

Orientation	Horizontal			
	Acceleration (G)			
Speed (mm/s)	0.3	0.5	0.7	1
0	20	20	18	16
100	20	20	18	16
200	20	20	17	15
300	19	17	15	13
600	11	9	8	7
1000	6	5	4	3
1400	3	2	1	0.5
1600	3	2	1	0.5

Energy-saving enabled The unit for payload is kg.

Orientation	Horizontal	
	Acceleration (G)	
Speed (mm/s)	0.3	0.7
0	14	12
100	14	12
400	10	8
800	5	3
1200	1	0.5

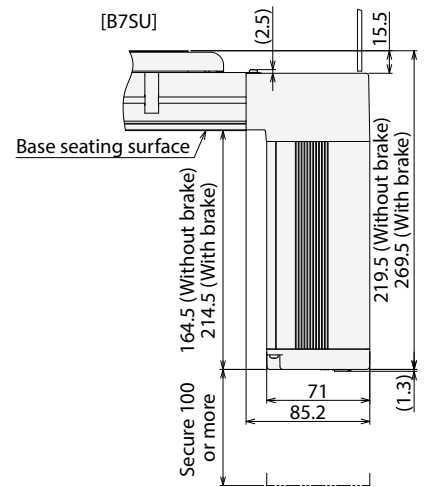
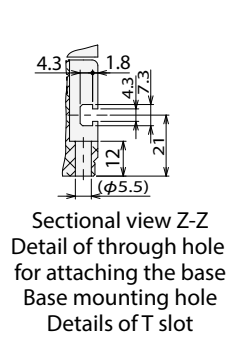
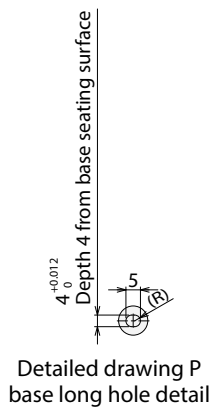
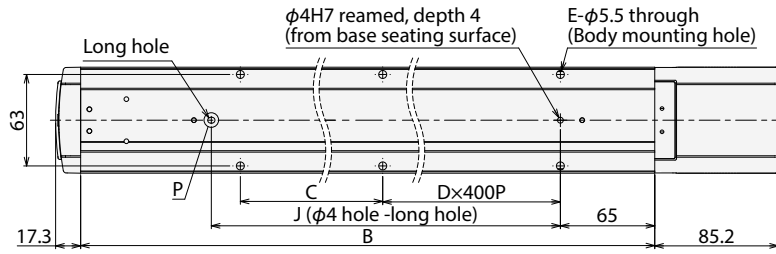
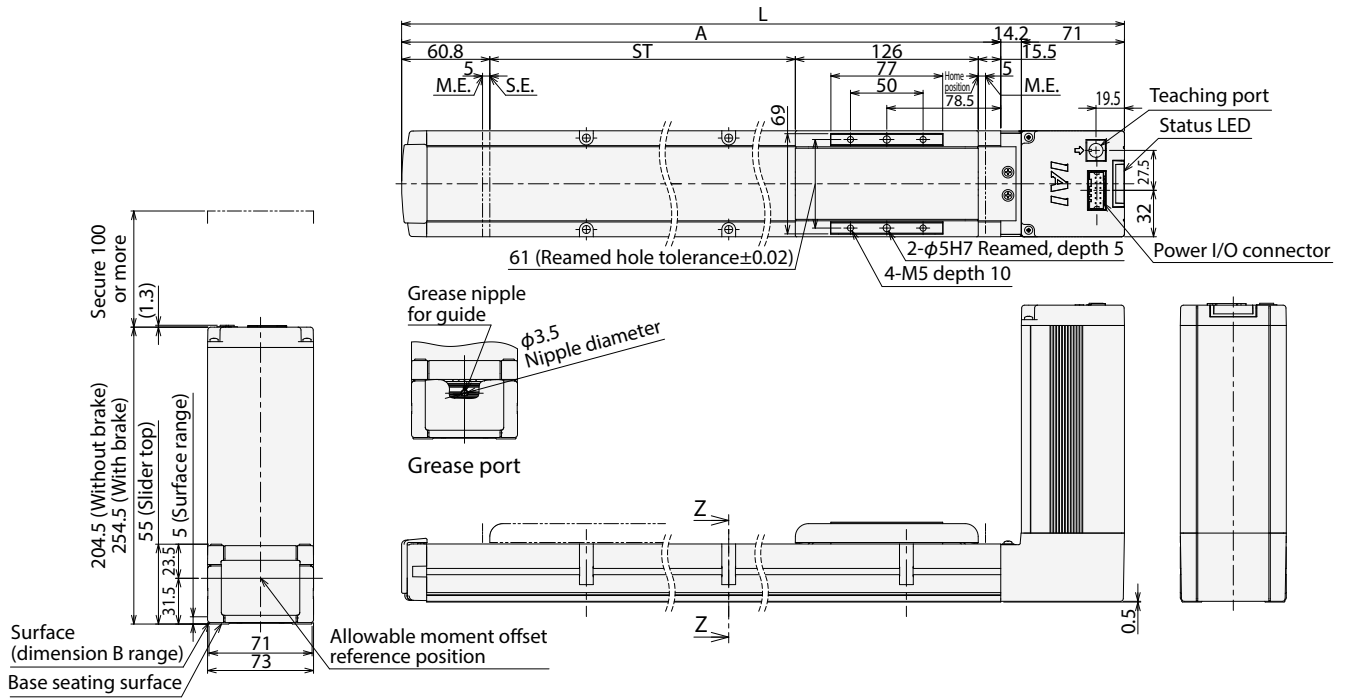
Stroke and maximum speed

Energy saving	300 (mm)	400 (mm)	500 (mm)	600 (mm)	700 (mm)	800 (mm)	900 (mm)	1000~2600 (per 100mm)
disabled	890	1070	1220	1340	1450	1520	1550	1600
enabled	890	1070	1120	1200				

(Unit is mm/s)

(Note 1) Based on the standard rated operation life of 5,000 km. Operation life varies according to operating and mounting conditions.

ST: Stroke
M.E.: Mechanical end
S.E.: Stroke end



■ Dimensions by stroke

Stroke	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600
L	587.5	687.5	787.5	887.5	987.5	1087.5	1187.5	1287.5	1387.5	1487.5	1587.5	1687.5	1787.5	1887.5	1987.5	2087.5	2187.5	2287.5	2387.5	2487.5	2587.5	2687.5	2787.5	2887.5
A	502.3	602.3	702.3	802.3	902.3	1002.3	1102.3	1202.3	1302.3	1402.3	1502.3	1602.3	1702.3	1802.3	1902.3	2002.3	2102.3	2202.3	2302.3	2402.3	2502.3	2602.3	2702.3	2802.3
B	485	585	685	785	885	985	1085	1185	1285	1385	1485	1585	1685	1785	1885	1985	2085	2185	2285	2385	2485	2585	2685	2785
C	310	410	110	210	310	410	110	210	310	410	110	210	310	410	110	210	310	410	110	210	310	410	110	210
D	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6
E	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16
J	330	430	530	630	730	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	2430	2530	2630

■ Mass by stroke

Stroke		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600
Weight (kg)	W/o Brake	4.6	4.9	5.2	5.6	5.9	6.2	6.5	6.8	7.1	7.5	7.8	8.1	8.4	8.7	9.1	9.4	9.7	10.0	10.3	10.7	11.0	11.3	11.6	12.0
	With Brake	5.1	5.4	5.7	6.1	6.4	6.7	7.0	7.3	7.6	8.0	8.3	8.6	8.9	9.2	9.6	9.9	10.2	10.5	10.8	11.2	11.5	11.8	12.1	12.5

Note: B7SU also has the same mass.

■ Applicable controller

(Note) The EC series is equipped with a built-in controller.

Options for the ELECYLINDER® series

Brake

Model **B**

Description This works as a holding mechanism that prevents the slider moving when the power or servo is turned off.

Specified grease applied specification

Model **G5**

Description The grease put on the ballscrew, linear guide, and rod, is changed to food grade grease (White Alcom).

Non-motor end specification

Model **NM**

Description Although the home position is usually located on the motor side, it can be reversed as an option according to the requirement of the facility layout.

PNP specification

Model **PN**

Description The EC series offers NPN specification input/output for connecting external devices as standard. Specifying this option changes input/output to PNP specification.

Split motor and controller power supply specification

Model **TMD2**

Description Optional item to supply motor power and control power separately. Please refer to P. 16 for wiring details.

Battery-less Absolute Encoder specification

Model **WA**

Description The EC series offers incremental encoder specification as standard. Specifying this option installs a built-in battery-less absolute encoder.

Wireless communication specification

Model **WL**

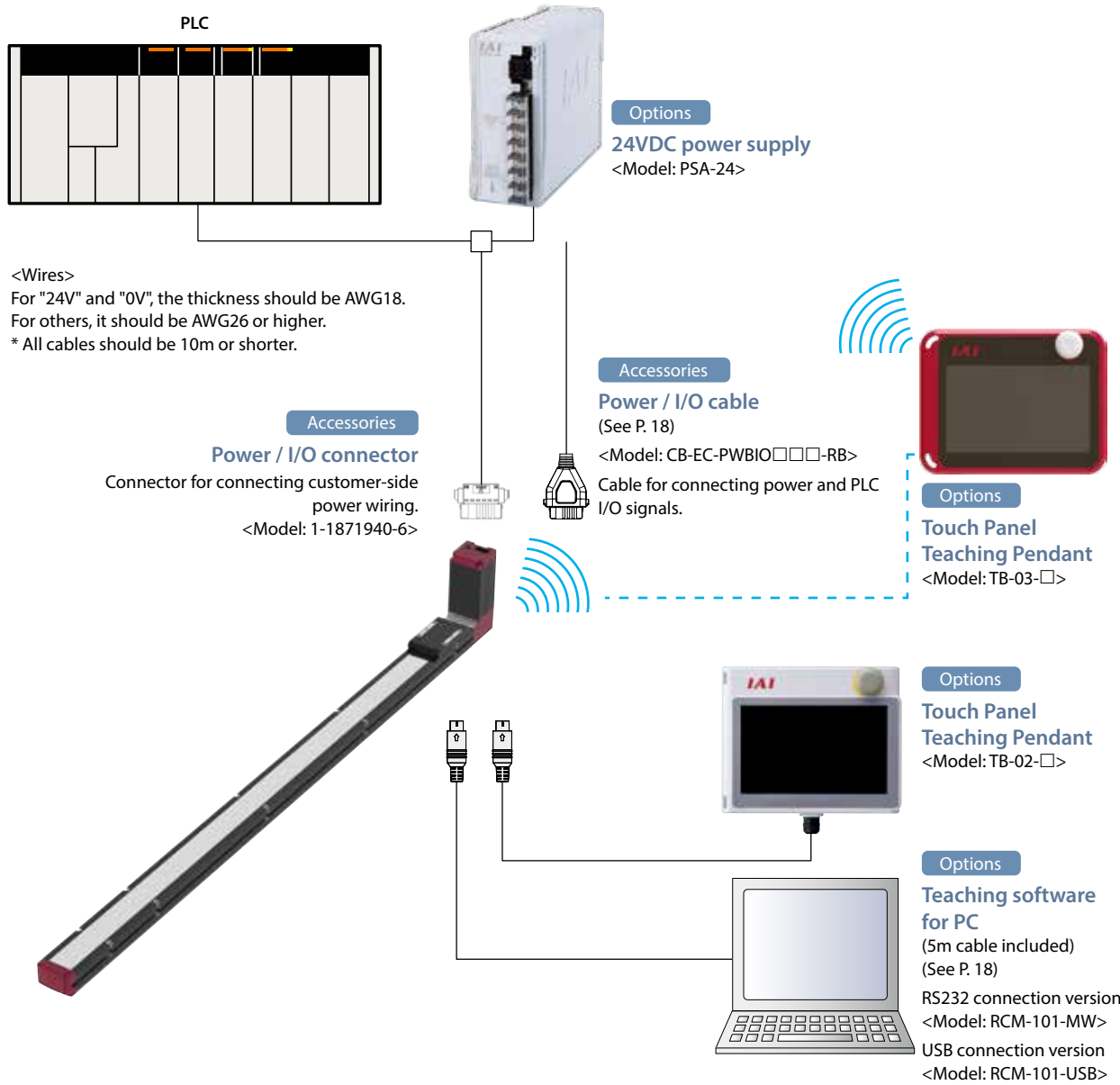
Description Optional item is for wireless communications. By specifying this option, wireless communications with the teaching pendant TB-03 become available.

Wireless axis-operation specifications

Model **WL2**

Description By specifying WL2, all the wireless operations of WL (adjusting the starting point, the end point, and the AVD) are available, and test operation of axis movements (moving to forward/backward ends, jogging, and inching) are also possible. However, using this function for automated operations is not possible. Alterations from WL to WL2, or vice versa cannot be made by customer. Please contact IAI for more details.

System Configuration



List of accessories

Product category	Accessories
EC power / without I/O cable (when "0" is selected for the cable length for an actuator model)	Power / I/O connector (1-1871940-6)
EC power / with I/O cable (when "1" ~ "10" is selected for the cable length for an actuator model)	Power / I/O cable (CB-EC-PWBIO□□□-RB)

Specification item		Specification content	
Number of controlled axes		1 axis	
Power supply voltage		24VDC ±10%	
Power capacity	Standard	With energy-saving setting disabled: Rated 3.5A, Max. 4.2A With energy-saving setting enabled: Max. 2.2A	
Brake release power supply		24VDC ±10%, 200mA (only for external brake release)	
Generated heat		8W (at 100% duty)	
Inrush current (Note 1)	Standard	8.3A (with inrush current limit circuit)	
Momentary power failure resistance		Max. 500μs	
Motor size		□42, □56	
Motor rated current		1.2A	
Motor control system		Weak field-magnet vector control	
Supported encoders		Incremental (800 pulse/rev), battery-less absolute encoder (800 pulse/rev)	
SIO		RS485 1ch (Modbus protocol compliant)	
PIO	Input specification	No. of input	3 points (forward, backward, alarm clear)
		Input voltage	24VDC ±10%
		Input current	5mA per circuit
		Leakage current	Max. 1mA/1 point
		Isolation method	Non-isolated
	Output specification	No. of output	3 points (forward complete, backward complete, alarm)
		Output voltage	24VDC ±10%
		Output current	50mA/1 point
		Residual voltage	2V or less
		Isolation method	Non-isolated
Data setting and input methods		Teaching software for PC, touch panel teaching pendant	
Data retention memory		Position and parameters are saved in non-volatile memory. (No limit to rewrite)	
LED display	Controller status display	Servo ON (green light ON) / Alarm (red light ON) / Initializing when power comes ON (orange light ON) / Minor failure alarm (green/red alternately blinking) / Operation from teaching: Stop from teaching (red light ON) / Servo OFF (light OFF)	
	Wireless status display	Initializing wireless hardware, without wireless connection, or connecting from TP board (light OFF) Connecting through wireless (green blinking) / Wireless hardware error (red blinking) / Initializing when power comes ON (orange light ON)	
Predictive maintenance/Preventative maintenance		When the number of movements or operation distance has exceeded the set value and when the LED (right side) blinks alternately green and red at overload warning * Only when configured in advance	
Ambient operating temperature		0 to 40°C	
Ambient operating humidity		85% RH or less (no condensation or freezing)	
Operating ambience		Avoid corrosive gas and excessive dust	
Insulation resistance		500VDC 10MΩ	
Electric shock protection mechanism		Class 1 basic insulation	
Cooling method		Natural air cooling	

(Note 1) Inrush current flows for approximately 5ms after the power is input (At 40°C). Inrush current value differs depending on the impedance on the power supply line.

I/O (Input/Output) Specifications

I/O		Input		Output	
Specifications		Input voltage	24VDC ± 10%	Load voltage	24VDC ± 10%
		Input current	5mA per circuit	Maximum load current	50mA/1 point
		ON/OFF voltage	ON voltage: Min. 18VDC OFF voltage: Max. 6VDC	Residual voltage	2V or less
		Leakage current	Max. 1mA/1 point	Leakage current	Max. 0.1mA/1 point
Isolation method		Non-isolated from external circuit		Non-isolated from external circuit	
I/O logic	NPN				
	PNP				

(Note) Isolation method is non-isolated. When connecting an external device (such as a PLC) to ELECYLINDER, use the same ground as ELECYLINDER.

I/O Signal Wiring Diagram

I/O		Standard specification	Twin power supply specification (option model: TMD2)
Power / I/O connector		<p>0V A1 (Reserved) A2 Backward complete A3 Forward complete A4 Alarm output A5 (Reserved) A6</p> <p>B1 24V B2 Brake release B3 Backward command B4 Forward command B5 Alarm cancel B6 (Reserved)</p>	<p>0V A1 24V (control) A2 Backward complete A3 Forward complete A4 Alarm output A5 (Reserved) A6</p> <p>B1 24V (drive) B2 Brake release B3 Backward command B4 Forward command B5 Alarm cancel B6 (Reserved)</p>
I/O logic	NPN		
	PNP		

I/O Signal Table

Power / I/O connector pin assignment			
Pin No.	Connector nameplate name	Signal abbreviation	Function overview
B3	Backward	ST0	Backward command
B4	Forward	ST1	Forward command
B5	Alarm cancel	RES	Alarm cancel
A3	Backward complete	LS0/PE0	Backward complete/push complete
A4	Forward complete	LS1/PE1	Forward complete/push complete
A5	Alarm	* ALM	Alarm detection (b-contact)
B2	Brake release	BKRLS	Brake forced release (for brake equipped specification)
B1 (Note)	24V	24V	24V input
A1	0V	0V	0V input
A2 (Note)	(24V)	(24V)	24V input

(Note) For the twin power supply specification (TMD2), B1 is 24V (drive) and A2 is 24V (control).

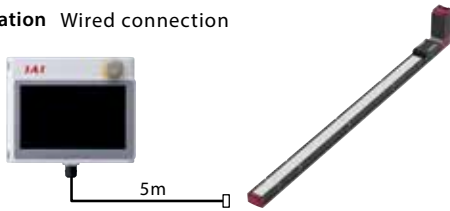
Options

Touch Panel Teaching Pendant

■ **Features** A teaching device equipped with functions such as position teaching, trial operation, and monitoring.

■ **Model TB-02-** Please contact IAI for the current supported versions.

■ **Configuration** Wired connection



■ **Specifications**

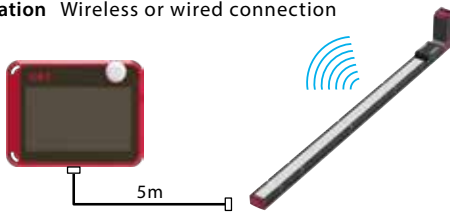
Rated voltage	24VDC
Power consumption	3.6W or less (150mA or less)
Ambient operating temperature	0 to 40°C
Ambient operating humidity	20 to 85% RH (Non-condensing)
Environmental resistance	IP20
Mass	470g (TB-02 unit only)

Touch Panel Teaching Pendant

■ **Features** A teaching device that supports wireless connection. Start point/end point/AVD input and axis operation can be performed with wireless connection for WL option. Manual operation is wirelessly possible for WL2 option.

■ **Model TB-03-** Please contact IAI for the current supported versions.

■ **Configuration** Wireless or wired connection



■ **Specifications**

Rated voltage	24VDC
Power consumption	3.6W or less (150mA or less)
Ambient operating temperature	0 to 40°C
Ambient operating humidity	20 to 85% RH (Non-condensing)
Environmental resistance	IPX0
Mass	Approx. 485g (body) + approx. 175g (battery)
Charging method	Wired connection with dedicated adapter/controller
Wireless connection	Bluetooth 4.2 class2

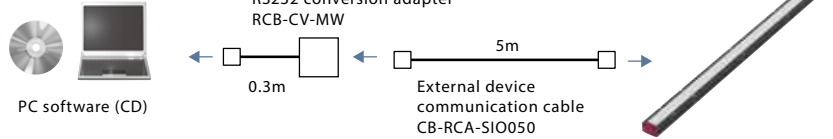
Teaching software for PC (Windows only)

- Features** The start-up support software comes equipped with functions such as position teaching, trial operation, and monitoring.
 A complete range of functions needed for making adjustments contributes to shortened start-up time.

Supported Windows versions: 7/8/10

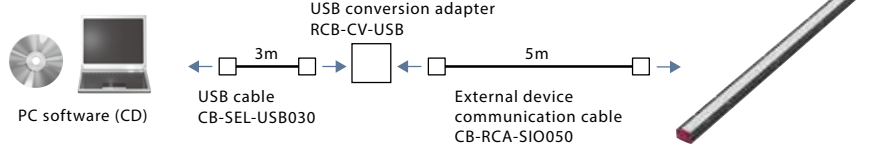
- Model RCM-101-MW** (with an external device communication cable + RS232 conversion unit) Please contact IAI for the current supported versions.

Configuration



- Model RCM-101-USB** (with an external device communication cable + USB conversion adapter + USB cable) Please contact IAI for the current supported versions.

Configuration



Maintenance Parts

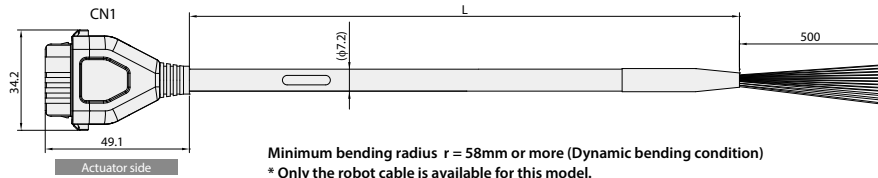
When placing an order for a replacement cable, please use the model name shown below.

Table of compatible cables

Model name	Power / I/O cable
EC	CB-EC-PWBIO□□□-RB

Model CB-EC-PWBIO□□□-RB

* Please indicate the cable length (L) in □□□, E.g.) 030 = 3m



Color	Signal name	Pin No.
Black (AWG18)	0V	A1
Red (AWG18)	24V	B1
Light blue (AWG22)	(Reserved) (Note 1)	A2
Orange (AWG26)	IN0	B3
Yellow (AWG26)	IN1	B4
Green (AWG26)	IN2	B5
Pink (AWG26)	(reserve)	B6
Blue (AWG26)	OUT0	A3
Purple (AWG26)	OUT1	A4
Gray (AWG26)	OUT2	A5
White (AWG26)	(reserve)	A6
Brown (AWG26)	BKRLS	B2

(Note 1) 24V (control) when twin power supply specification (TMD2) selected.

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The information contained in this product brochure may change without prior notice due to product improvements.

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EC-B6S/B6SU

EC-DB6S/DB6SU

Simple dust-proof

Coupled Motor

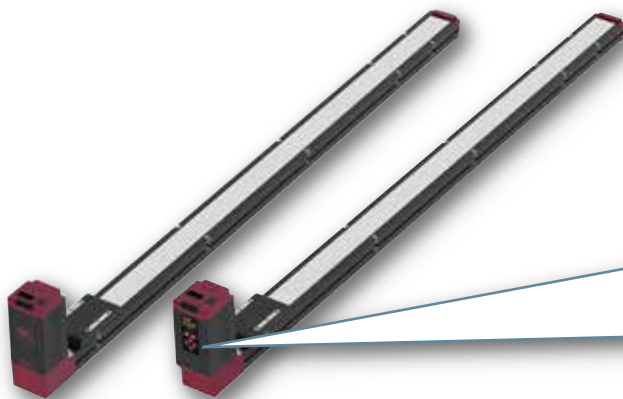
Body width 60 mm

24v Stepper motor

Belt type

Model Specification Items

EC		S						
Series	Type	Lead	Specification		Stroke		Power source and I/O cable length	Option
B6	Standard	S 48mm	Blank	Motor top-mounted	300	300mm	Refer to table of power supply and I/O cables below	Refer to option below
DB6	Digital Speed Controller		U	Motor bottom-mounted	2600	2600mm (100mm increments)		



Horizontal

Side

Ceiling

Vertical

(Note) The above is motor top-mounted type.

Stroke					
Stroke (mm)	B6	DB6	Stroke (mm)	B6	DB6
300	○	○	1500	○	○
400	○	○	1600	○	○
500	○	○	1700	○	○
600	○	○	1800	○	○
700	○	○	1900	○	○
800	○	○	2000	○	○
900	○	○	2100	○	○
1000	○	○	2200	○	○
1100	○	○	2300	○	○
1200	○	○	2400	○	○
1300	○	○	2500	○	○
1400	○	○	2600	○	○

POINT
Selection Notes

- (1) The belt type may cause vibration or noise during low-speed operation, so set the moving speed to 100mm/s or more.
- (2) The actuator specifications display the payload's maximum value. Please refer to "Table of Payload by Speed/ Acceleration" for more details.
- (3) Push-motion operation cannot be performed.
- (4) Special attention needs to be paid to the mounting orientation.
- (5) Reference value of the overhang load length is under 220mm in the Ma, Mb and Mc directions.
- (6) The center of gravity of the attached object should be less than 1/2 of the overhang distance. Even when the overhang distance and load moment are within the allowable range, the operating conditions should be moderated if some abnormal vibration or noise is observed.

Option <small>* Please check the Options reference pages to confirm each option.</small>		
Name	Option code	Reference page
RCON-EC connection specification (Note 1)	ACR	271
Brake	B	271
Specified grease applied specification*	G5	276
Non-motor end specification	NM	279
PNP specification	PN	279
Twin power supply specification	TMD2	281
Battery-less absolute encoder specification	WA	281
Wireless communication specification	WL	282
Wireless axis operation specification	WL2	282

(Note 1) When selecting RCON-EC connection specification (ACR), PNP specification (PN) and twin power source specification (TMD2) cannot be selected.

Table of power supply and I/O cables

Cable code	Cable length	User wiring specification (no connector)	RCON-EC connection specification (Note 3) (with connectors on both sides)
		CB-EC-PWBIO□□□-RB included	CB-REC-PWBIO□□□-RB included
0	Without cable (with connector)	(Note 2)	○
1 ~ 3	1 ~ 3m	○	○
4 ~ 5	4 ~ 5m	○	○
6 ~ 7	6 ~ 7m	○	○
8 ~ 10	8 ~ 10m	○	○

(Note 2) Only a terminal block connector is included. Refer to P.288 for details.

(Note 3) When optional RCON-EC connection spec. (ACR) is selected.

(Note) Robot cable.

Cable code	Cable length	User wiring specification (no connector)	RCON-EC connection specification (Note 4) (with connectors on both sides)
		CB-EC2-PWBIO□□□-RB included	CB-REC2-PWBIO□□□-RB included
S1 ~ S3	1 ~ 3m	○	○
S4 ~ S5	4 ~ 5m	○	○
S6 ~ S7	6 ~ 7m	○	○
S8 ~ S10	8 ~ 10m	○	○

(Note 4) When optional RCON-EC connection spec. (ACR) is selected.

(Note) Robot cable.

Main Specification

Item		Description	
Horizontal	Payload	Maximum payload (energy-saving disabled) (kg)	11
		Maximum payload (energy-saving enabled) (kg)	3
Horizontal	Speed/acceleration/deceleration	Max. speed (mm/s)	1500
		Min. speed (mm/s)	100
		Rated acceleration/deceleration (G)	0.3
		Max. accleration/deceleration (G)	1.0
Brake	Brake holding specification	Non-excitation actuating solenoid brake	
	Brake holding force (N)	1.3	
Stroke	Min. stroke (mm)	300	
	Max. stroke (mm)	2600	
	Stroke pitch (mm)	100	

Direction of moment for the Slider type

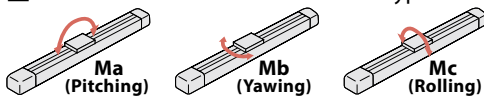


Table of Payload by Speed and Acceleration/Deceleration

Energy-saving disabled The unit for payload is kg.

Orientation	Horizontal			
	Acceleration (G)			
Speed (mm/s)	0.3	0.5	0.7	1
0	11	10	8	7
200	11	10	8	7
300	11	8.5	7	6
600	7	5	4	3
1000	4	3	2	1
1200	3	2	1	0.5
1400	2	1	1	0.5
1500	2	1	1	0.5

Energy-saving enabled The unit for payload is kg.

Orientation	Horizontal	
	Acceleration (G)	
Speed (mm/s)	0.3	0.7
0	3	2
800	3	2
1400	0.5	0.5

Stroke and maximum speed

Energy saving	300 (mm)	400 (mm)	500 (mm)	600 (mm)	700 (mm)	800 (mm)	900~2600 (per 100mm)
disabled	890	1070	1220	1340	1400	1440	1500
enabled	890	1070	1220	1300	1350	1400	

(Unit is mm/s)

Item	Description
Driving system	Timing belt 9mm width 3mm pitch 48mm lead
Positioning repeatability	±0.08mm
Lost motion	- (Cannot be described due to positioning function between two points)
Base	Dedicated aluminum extruded material (A6063SS-T5 Equivalent) Black alumite treatment
Linear guide	Linear motion infinite circulating type
Static allowable moment	Ma: 48 N·m
	Mb: 69 N·m
	Mc: 97 N·m
Dynamic allowable moment (Note 5)	Ma: 11 N·m
	Mb: 16 N·m
Ambient operation temperature/humidity	0~40°C, 85%RH or less (Non-condensing)
	Degree of protection
Vibration & shock resistance	4.9m/s ²
Standard complied	CE marking, RoHS (Restriction of Hazardous Substances)
Motor type	Stepper motor
Encoder type	Incremental / battery-less absolute
Number of encoder pulses	800 pulse/rev

(Note 5) Based on the standard rated operation life of 5,000 km. Operation life varies according to operating and mounting conditions.

Dimensions

■ EC-B6S/B6SU

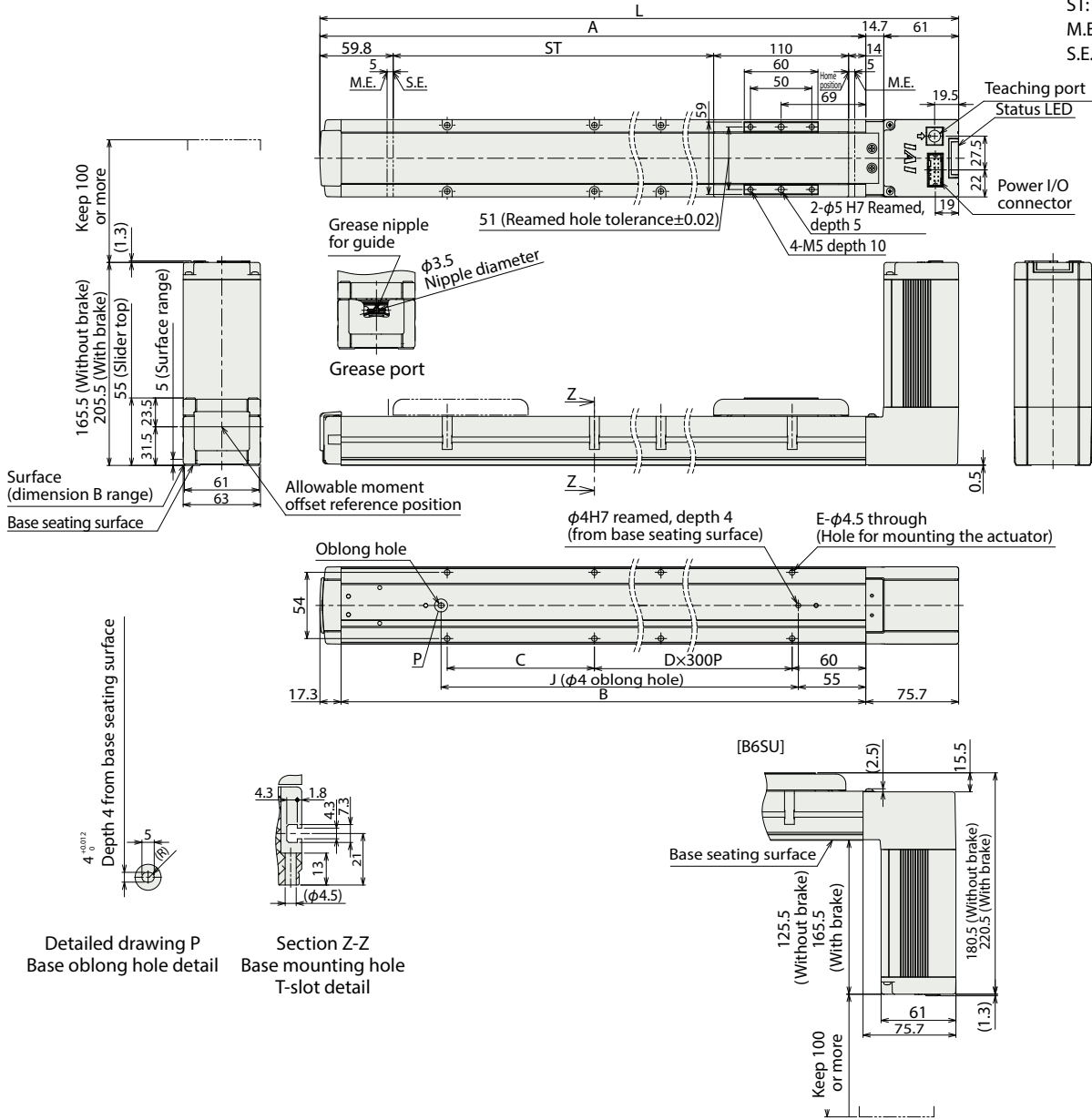
When the slider is returning to its home position, please be careful of interference with surrounding objects, as it will travel until it reaches the M.E.

CAD drawings can be downloaded from our website.

www.intelligentactuator.com



ST: Stroke
M.E.: Mechanical end
S.E.: Stroke end



■ Dimensions by stroke

Stroke	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600
L	559.5	659.5	759.5	859.5	959.5	1059.5	1159.5	1259.5	1359.5	1459.5	1559.5	1659.5	1759.5	1859.5	1959.5	2059.5	2159.5	2259.5	2359.5	2459.5	2559.5	2659.5	2759.5	2859.5
A	483.8	583.8	683.8	783.8	883.8	983.8	1083.8	1183.8	1283.8	1383.8	1483.8	1583.8	1683.8	1783.8	1883.8	1983.8	2083.8	2183.8	2283.8	2383.8	2483.8	2583.8	2683.8	2783.8
B	466.5	566.5	666.5	766.5	866.5	966.5	1066.5	1166.5	1266.5	1366.5	1466.5	1566.5	1666.5	1766.5	1866.5	1966.5	2066.5	2166.5	2266.5	2366.5	2466.5	2566.5	2666.5	2766.5
C	320	120	220	320	120	220	320	120	220	320	120	220	320	120	220	320	120	220	320	120	220	320	120	220
D	0	1	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8
E	4	6	6	6	8	8	8	10	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20
J	330	430	530	630	730	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	2430	2530	2630

■ Mass by stroke

Stroke		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600
Weight (kg)	W/o Brake	2.7	3.0	3.4	3.7	4.0	4.3	4.7	5.0	5.3	5.6	5.9	6.3	6.6	6.9	7.2	7.5	7.8	8.2	8.5	8.8	9.2	9.5	9.8	10.2
	With Brake	3.0	3.3	3.7	4.0	4.3	4.6	5.0	5.3	5.6	5.9	6.2	6.6	6.9	7.2	7.5	7.8	8.1	8.5	8.8	9.1	9.5	9.8	10.1	10.5

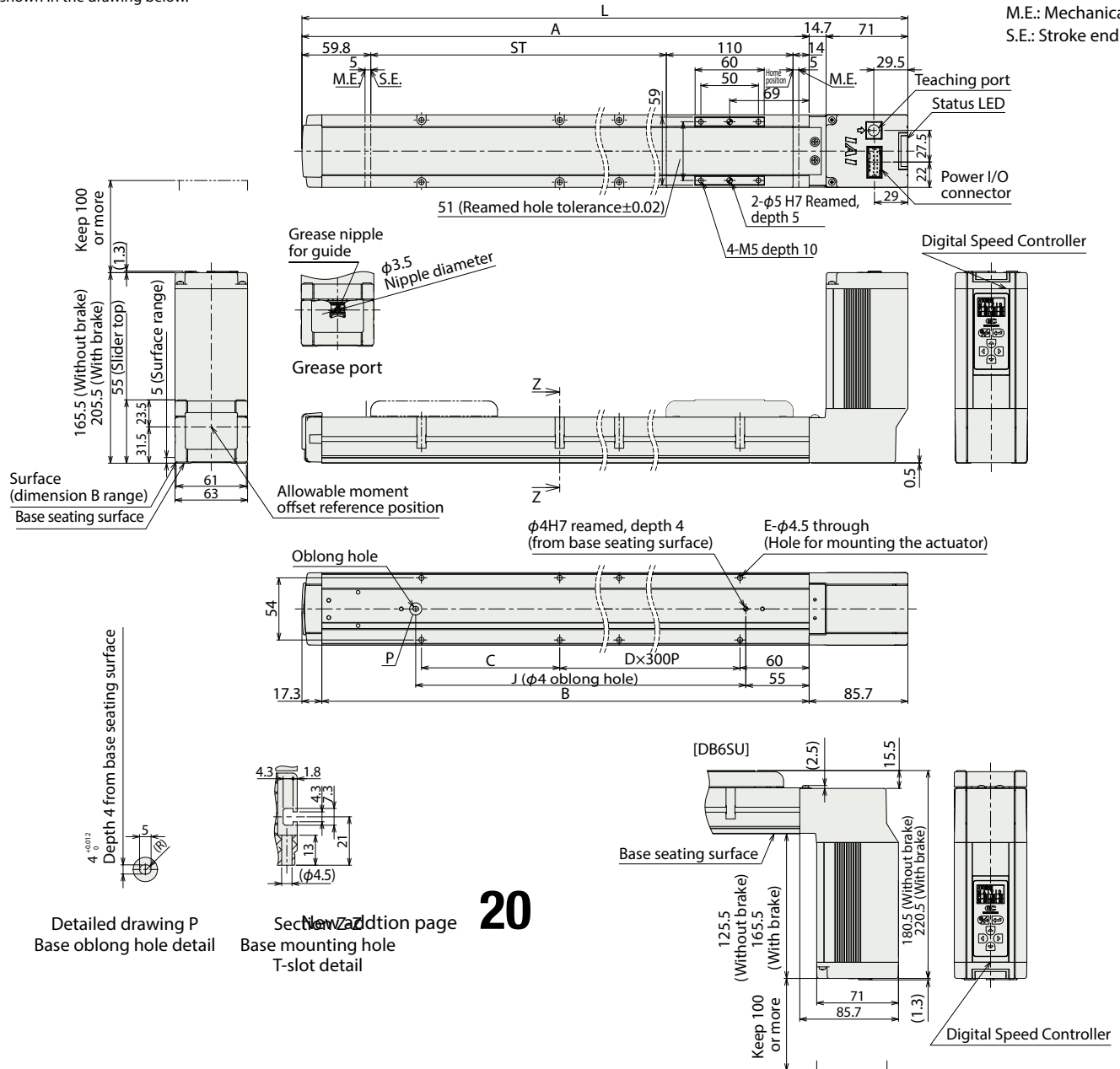
Note: B6SU also has the same mass.

■ EC-DB6S/DB6SU

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

(Note) The direction of the digital speed controller cannot be changed other than the shown in the drawing below.

ST: Stroke
M.E.: Mechanical end
S.E.: Stroke end



Detailed drawing P
Base oblong hole detail

Section Z-Z
Base mounting hole
T-slot detail

20

■ Dimensions by stroke

Stroke	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600
L	559.5	659.5	759.5	859.5	959.5	1059.5	1159.5	1259.5	1359.5	1459.5	1559.5	1659.5	1759.5	1859.5	1959.5	2059.5	2159.5	2259.5	2359.5	2459.5	2559.5	2659.5	2759.5	2859.5
A	483.8	583.8	683.8	783.8	883.8	983.8	1083.8	1183.8	1283.8	1383.8	1483.8	1583.8	1683.8	1783.8	1883.8	1983.8	2083.8	2183.8	2283.8	2383.8	2483.8	2583.8	2683.8	2783.8
B	466.5	566.5	666.5	766.5	866.5	966.5	1066.5	1166.5	1266.5	1366.5	1466.5	1566.5	1666.5	1766.5	1866.5	1966.5	2066.5	2166.5	2266.5	2366.5	2466.5	2566.5	2666.5	2766.5
C	320	120	220	320	120	220	320	120	220	320	120	220	320	120	220	320	120	220	320	120	220	320	120	220
D	0	1	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8
E	4	6	6	6	8	8	8	10	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20
J	330	430	530	630	730	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	2430	2530	2630

■ Mass by stroke

Stroke	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	
Weight (kg)	W/o Brake	2.7	3.0	3.4	3.7	4.0	4.3	4.7	5.0	5.3	5.6	5.9	6.3	6.6	6.9	7.2	7.5	7.8	8.2	8.5	8.8	9.2	9.5	9.8	10.2
	With Brake	3.0	3.3	3.7	4.0	4.3	4.6	5.0	5.3	5.6	5.9	6.2	6.6	6.9	7.2	7.5	7.8	8.1	8.5	8.8	9.1	9.5	9.8	10.1	10.5

Note: B6SU also has the same mass.

Applicable controller

(Note) The EC series is equipped with a built-in controller.

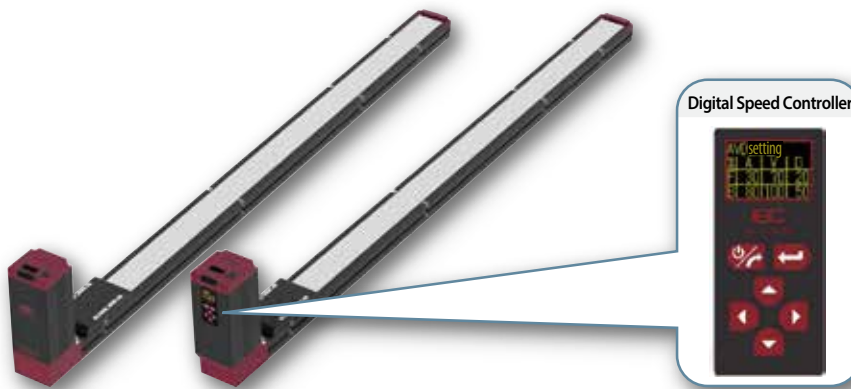
EC-B7S/B7SU

EC-DB7S/DB7SU

Simple dust-proof Coupled Motor Body width 70 mm 24v Stepper motor Belt type

Model Specification Items

EC	Series	Type	Lead	Specification	Stroke	Power source and I/O cable length	Option
		B7 Standard	S 48mm	Blank Motor top-mounted	300 ~ 2600	Refer to table of power supply and I/O cables below	Refer to option below
		DB7 Digital Speed Controller		U Motor bottom-mounted	300mm ~ 2600mm (100mm increments)		



CE RoHS
Horizontal Side Ceiling Vertical

(Note) The above is motor top-mounted type.

Stroke					
Stroke (mm)	B7	DB7	Stroke (mm)	B7	DB7
300	○	○	1500	○	○
400	○	○	1600	○	○
500	○	○	1700	○	○
600	○	○	1800	○	○
700	○	○	1900	○	○
800	○	○	2000	○	○
900	○	○	2100	○	○
1000	○	○	2200	○	○
1100	○	○	2300	○	○
1200	○	○	2400	○	○
1300	○	○	2500	○	○
1400	○	○	2600	○	○

POINT Selection Notes

- The belt type may cause vibration or noise during low-speed operation, so set the moving speed to 100mm/s or more.
- The actuator specifications display the payload's maximum value. Please refer to "Table of Payload by Speed/ Acceleration" for more details.
- Push-motion operation cannot be performed.
- Special attention needs to be paid to the mounting orientation.
- Reference value of the overhang load length is under 280mm in the Ma, Mb and Mc directions.
- The center of gravity of the attached object should be less than 1/2 of the overhang distance. Even when the overhang distance and load moment are within the allowable range, the operating conditions should be moderated if some abnormal vibration or noise is observed.

Option * Please check the Options reference pages to confirm each option.

Name	Option code	Reference page
RCON-EC connection specification (Note 1)	ACR	271
Brake	B	271
Specified grease applied specification*	G5	276
Non-motor end specification	NM	279
PNP specification	PN	279
Twin power supply specification	TMD2	281
Battery-less absolute encoder specification	WA	281
Wireless communication specification	WL	282
Wireless axis operation specification	WL2	282

(Note 1) When selecting RCON-EC connection specification (ACR), PNP specification (PN) and twin power source specification (TMD2) cannot be selected.

Table of power supply and I/O cables

Cable code	Cable length	User wiring specification (no connector)	RCON-EC connection specification (Note 3) (with connectors on both sides)
		CB-EC-PWBIO□□□-RB included	CB-REC-PWBIO□□□-RB included
0	Without cable (with connector)	(Note 2)	○
1 ~ 3	1 ~ 3m	○	○
4 ~ 5	4 ~ 5m	○	○
6 ~ 7	6 ~ 7m	○	○
8 ~ 10	8 ~ 10m	○	○

(Note 2) Only a terminal block connector is included. Refer to P.288 for details.

(Note 3) When optional RCON-EC connection spec. (ACR) is selected.

(Note) Robot cable.

4-directional connector cable

Cable code	Cable length	User wiring specification (no connector)	RCON-EC connection specification (Note 4) (with connectors on both sides)
		CB-EC2-PWBIO□□□-RB included	CB-REC2-PWBIO□□□-RB included
S1 ~ S3	1 ~ 3m	○	○
S4 ~ S5	4 ~ 5m	○	○
S6 ~ S7	6 ~ 7m	○	○
S8 ~ S10	8 ~ 10m	○	○

(Note 4) When optional RCON-EC connection spec. (ACR) is selected.

(Note) Robot cable.

Main Specification

Item		Description	
Horizontal	Payload	Maximum payload (energy-saving disabled) (kg)	20
		Maximum payload (energy-saving enabled) (kg)	14
Horizontal	Speed/acceleration/deceleration	Max. speed (mm/s)	1600
		Min. speed (mm/s)	100
		Rated acceleration/deceleration (G)	0.3
		Max. accleration/deceleration (G)	1.0
Brake	Brake holding specification	Non-excitation actuating solenoid brake	
	Brake holding force (N)	2.5	
Stroke	Min. stroke (mm)	300	
	Max. stroke (mm)	2600	
	Stroke pitch (mm)	100	

Item	Description
Driving system	Timing belt 9mm width 3mm pitch 48mm lead
Positioning repeatability	±0.08mm
Lost motion	- (Cannot be described due to positioning function between two points)
Base	Dedicated aluminum extruded material (A6063SS-T5 Equivalent) Black alumite treatment
Linear guide	Linear motion infinite circulating type
Static allowable moment	Ma: 79 N·m
	Mb: 114 N·m
	Mc: 157 N·m
Dynamic allowable moment (Note 5)	Ma: 17 N·m
	Mb: 25 N·m
	Mc: 34 N·m
Ambient operation temperature/humidity	0~40°C, 85%RH or less (Non-condensing)
Degree of protection	IP20
Vibration & shock resistance	4.9m/s ²
Standard complied	CE marking, RoHS (Restriction of Hazardous Substances)
Motor type	Stepper motor
Encoder type	Incremental / battery-less absolute
Number of encoder pulses	800 pulse/rev

Direction of moment for the Slider type

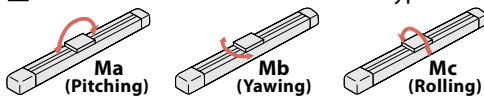


Table of Payload by Speed and Acceleration/Deceleration

Energy-saving disabled The unit for payload is kg.

Orientation	Horizontal			
	Acceleration (G)			
Speed (mm/s)	0.3	0.5	0.7	1
0	20	20	18	16
100	20	20	18	16
200	20	20	17	15
300	19	17	15	13
600	11	9	8	7
1000	6	5	4	3
1400	3	2	1	0.5
1600	3	2	1	0.5

Energy-saving enabled The unit for payload is kg.

Orientation	Horizontal	
	Acceleration (G)	
Speed (mm/s)	0.3	0.7
0	14	12
100	14	12
400	10	8
800	5	3
1200	1	0.5

Stroke and maximum speed

Energy saving	300 (mm)	400 (mm)	500 (mm)	600 (mm)	700 (mm)	800 (mm)	900 (mm)	1000~2600 (per 100mm)
disabled	890	1070	1220	1340	1450	1520	1550	1600
enabled	890	1070	1120	1200				

(Unit is mm/s)

(Note 5) Based on the standard rated operation life of 5,000 km. Operation life varies according to operating and mounting conditions.

Dimensions

■ EC-B7S/B7SU

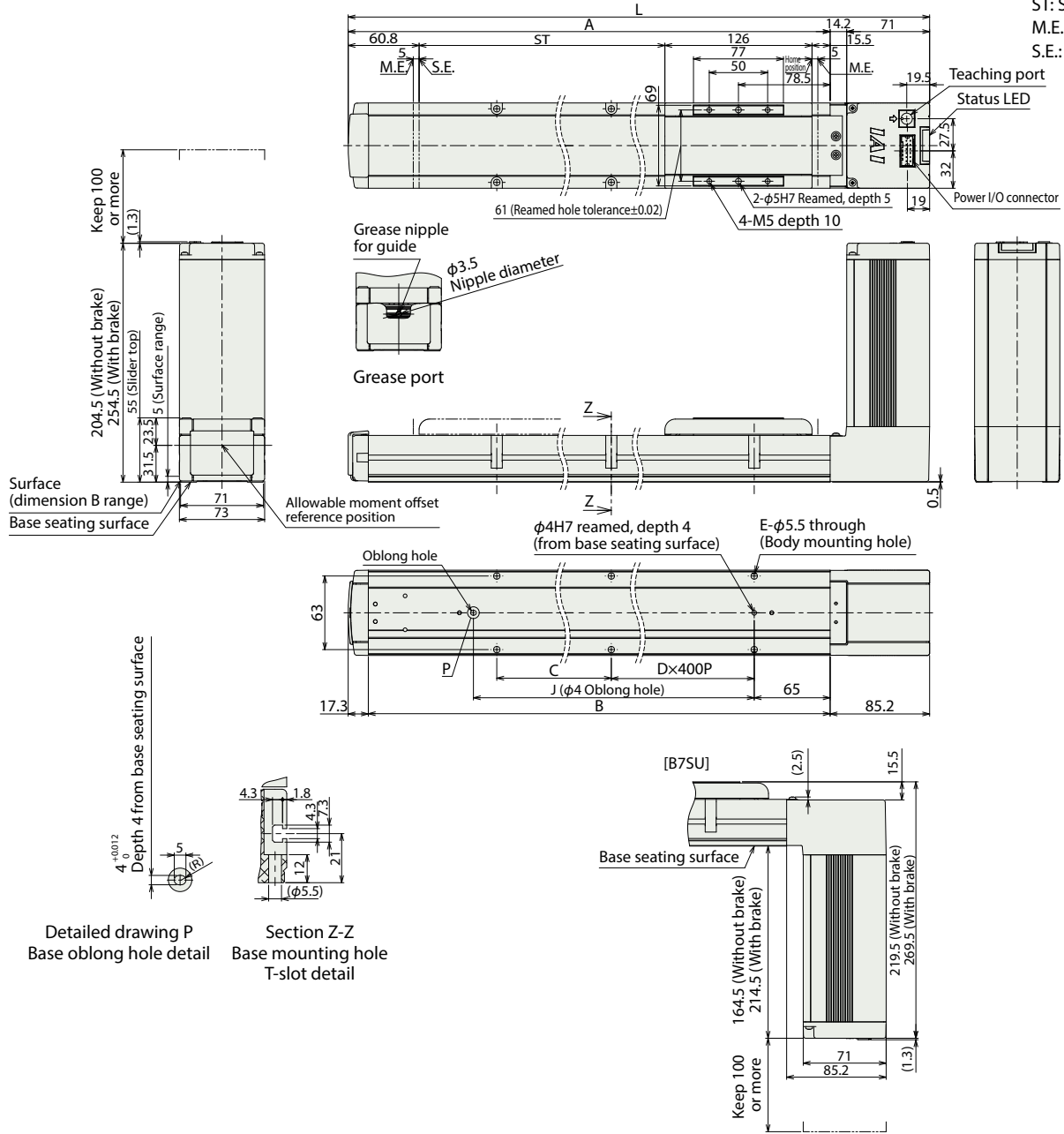
When the slider is returning to its home position, please be careful of interference with surrounding objects, as it will travel until it reaches the M.E.

CAD drawings can be downloaded from our website.

www.intelligentactuator.com



ST: Stroke
M.E.: Mechanical end
S.E.: Stroke end



Detailed drawing P
Base oblong hole detail

Section Z-Z
Base mounting hole
T-slot detail

■ Dimensions by stroke

Stroke	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600
L	587.5	687.5	787.5	887.5	987.5	1087.5	1187.5	1287.5	1387.5	1487.5	1587.5	1687.5	1787.5	1887.5	1987.5	2087.5	2187.5	2287.5	2387.5	2487.5	2587.5	2687.5	2787.5	2887.5
A	502.3	602.3	702.3	802.3	902.3	1002.3	1102.3	1202.3	1302.3	1402.3	1502.3	1602.3	1702.3	1802.3	1902.3	2002.3	2102.3	2202.3	2302.3	2402.3	2502.3	2602.3	2702.3	2802.3
B	485	585	685	785	885	985	1085	1185	1285	1385	1485	1585	1685	1785	1885	1985	2085	2185	2285	2385	2485	2585	2685	2785
C	310	410	110	210	310	410	110	210	310	410	110	210	310	410	110	210	310	410	110	210	310	410	110	210
D	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6
E	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16
J	330	430	530	630	730	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	2430	2530	2630

■ Mass by stroke

Stroke	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	
Weight (kg)	W/o Brake	4.6	4.9	5.2	5.6	5.9	6.2	6.5	6.8	7.1	7.5	7.8	8.1	8.4	8.7	9.1	9.4	9.7	10.0	10.3	10.7	11.0	11.3	11.6	12.0
	With Brake	5.1	5.4	5.7	6.1	6.4	6.7	7.0	7.3	7.6	8.0	8.3	8.6	8.9	9.2	9.6	9.9	10.2	10.5	10.8	11.2	11.5	11.8	12.1	12.5

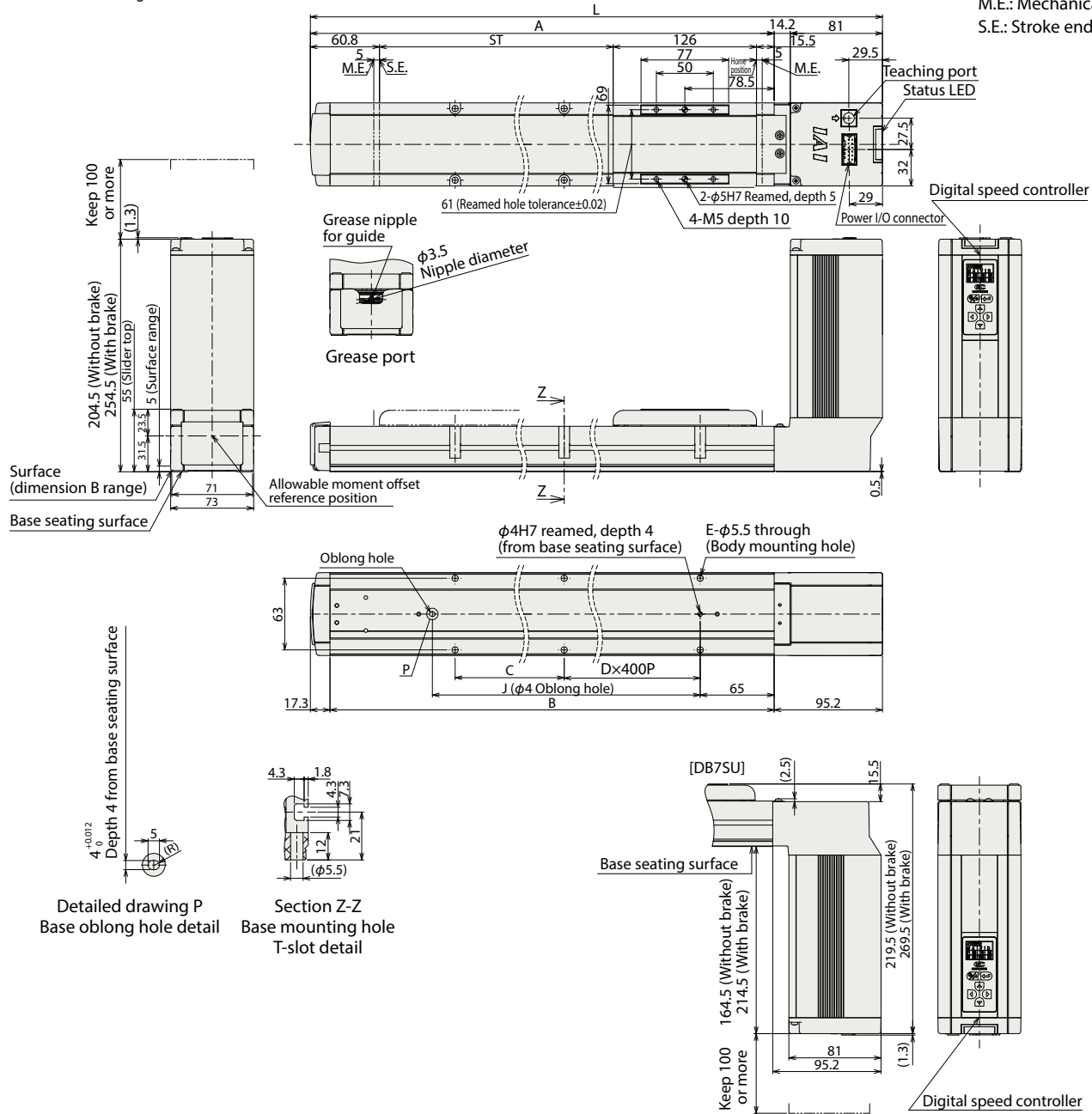
Note: B7SU also has the same mass.

EC-DB7S/DB7SU

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

(Note) The direction of the digital speed controller cannot be changed other than the shown in the drawing below.

ST: Stroke
M.E.: Mechanical end
S.E.: Stroke end



Dimensions by stroke

Stroke	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600
L	597.5	697.5	797.5	897.5	997.5	1097.5	1197.5	1297.5	1397.5	1497.5	1597.5	1697.5	1797.5	1897.5	1997.5	2097.5	2197.5	2297.5	2397.5	2497.5	2597.5	2697.5	2797.5	2897.5
A	502.3	602.3	702.3	802.3	902.3	1002.3	1102.3	1202.3	1302.3	1402.3	1502.3	1602.3	1702.3	1802.3	1902.3	2002.3	2102.3	2202.3	2302.3	2402.3	2502.3	2602.3	2702.3	2802.3
B	485	585	685	785	885	985	1085	1185	1285	1385	1485	1585	1685	1785	1885	1985	2085	2185	2285	2385	2485	2585	2685	2785
C	310	410	110	210	310	410	110	210	310	410	110	210	310	410	110	210	310	410	110	210	310	410	110	210
D	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6
E	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16
J	330	430	530	630	730	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	2430	2530	2630

Mass by stroke

Stroke	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	
Weight (kg)	W/o Brake	4.7	5.0	5.3	5.7	6.0	6.3	6.6	6.9	7.2	7.6	7.9	8.2	8.5	8.8	9.2	9.5	9.8	10.1	10.4	10.8	11.1	11.4	11.7	12.1
	With Brake	5.2	5.5	5.8	6.2	6.5	6.8	7.1	7.4	7.7	8.1	8.4	8.7	9.0	9.3	9.7	10.0	10.3	10.6	10.9	11.3	11.6	11.9	12.2	12.6

Note: B7SU also has the same mass.

Applicable controller

(Note) The EC series is equipped with a built-in controller.

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The information contained in this product brochure may change without prior notice due to product improvements.

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