

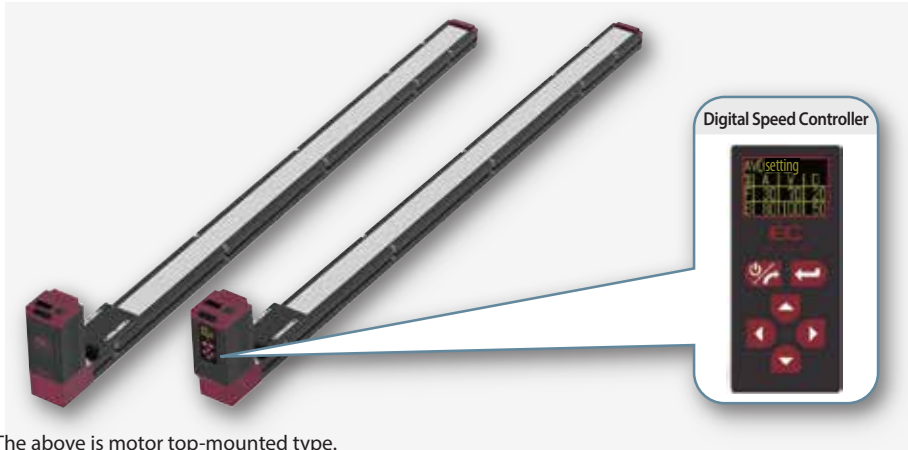
# EC-B6S/B6SU

# EC-DB6S/DB6SU

|                      |                  |                               |                                |              |
|----------------------|------------------|-------------------------------|--------------------------------|--------------|
| Simple<br>dust-proof | Coupled<br>Motor | Body width<br><b>60</b><br>mm | <b>24V</b><br>Stepper<br>motor | Belt<br>type |
|----------------------|------------------|-------------------------------|--------------------------------|--------------|

## Model Specification Items

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



(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        | ○  | ○   |



- (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.

## Table of power supply and I/O cables

### Standard connector cable

| 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.

## Option

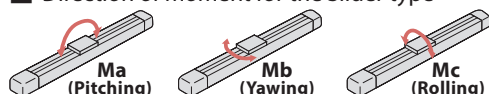
| Name                                        | Option code | Reference page |
|---------------------------------------------|-------------|----------------|
| RCON-EC connection specification (Note 1)   | ACR         | 271            |
| Brake                                       | B           | 271            |
| 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.

## 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. 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)<br>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                                                                              |
| Dynamic allowable moment (Note 5)      | 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 <sup>2</sup>                                                                     |
| 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.

■ EC-B6S/B6SU

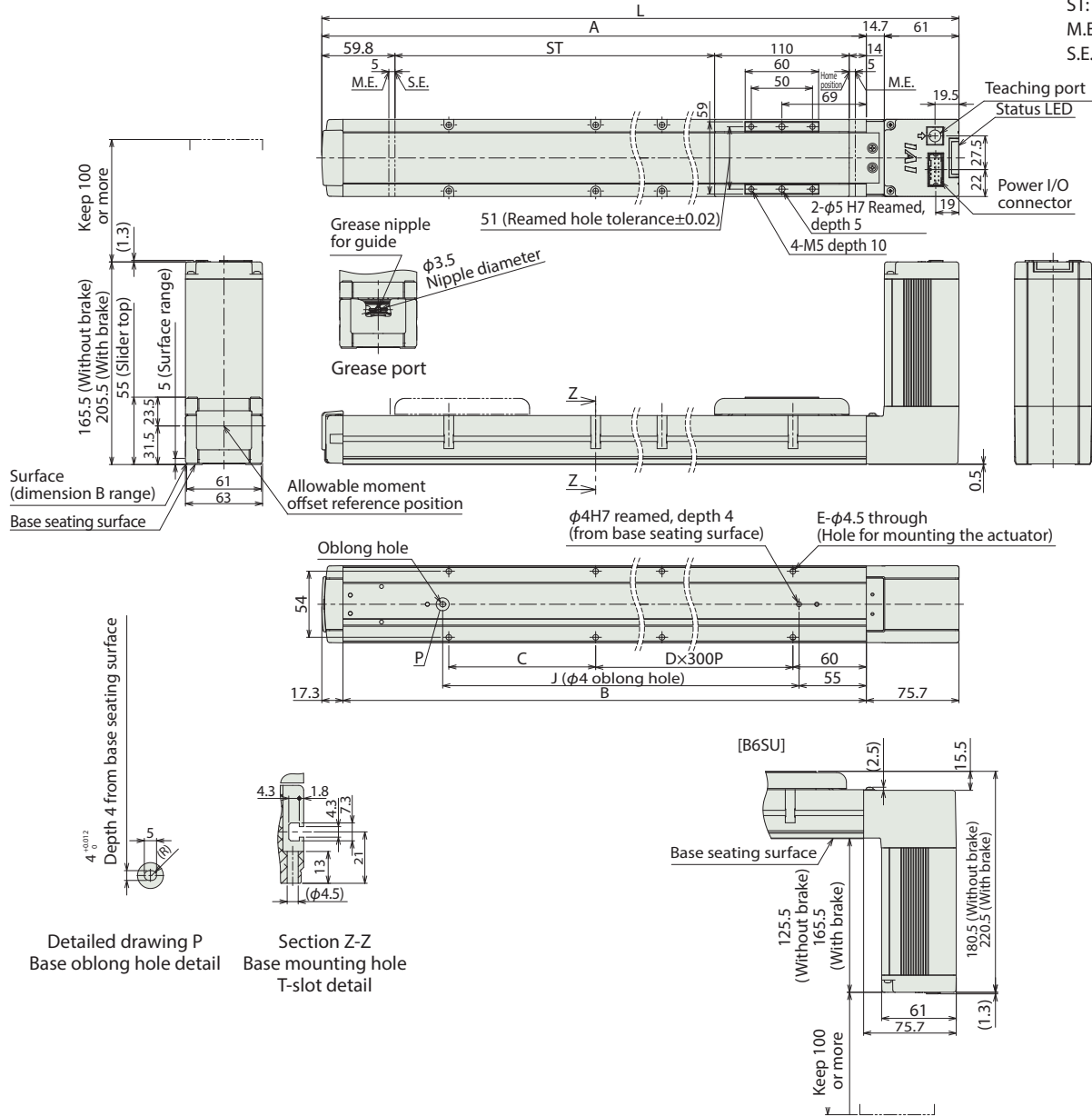
When the slider is returning to its home position, please be careful of interference with surrounding objects, as it will travel until it reaches the M.E.

CAD drawings can be downloaded from our website.

[www.intelligentactuator.com](http://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      | 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<br>(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<br>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.

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

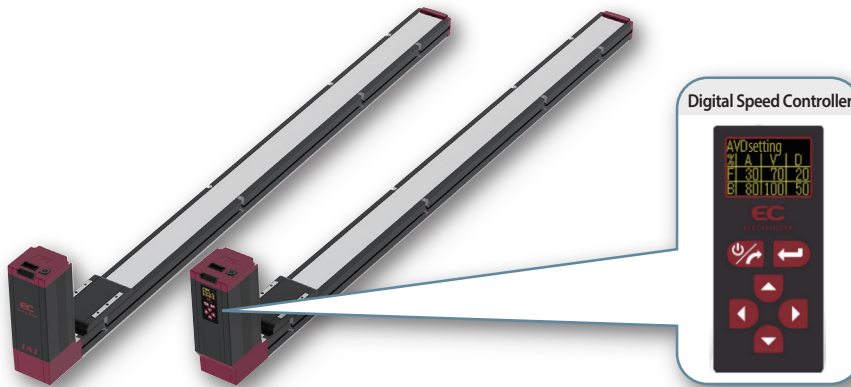
# EC-B7S/B7SU

# EC-DB7S/DB7SU



## Model Specification Items

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



(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        | ○  | ○   |



- (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 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.

## Table of power supply and I/O cables

### Standard connector cable

| 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.

## Option

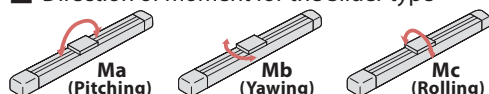
| Name                                        | Option code | Reference page |
|---------------------------------------------|-------------|----------------|
| RCON-EC connection specification (Note 1)   | ACR         | 271            |
| Brake                                       | B           | 271            |
| 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.

## 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                                     |

### 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)

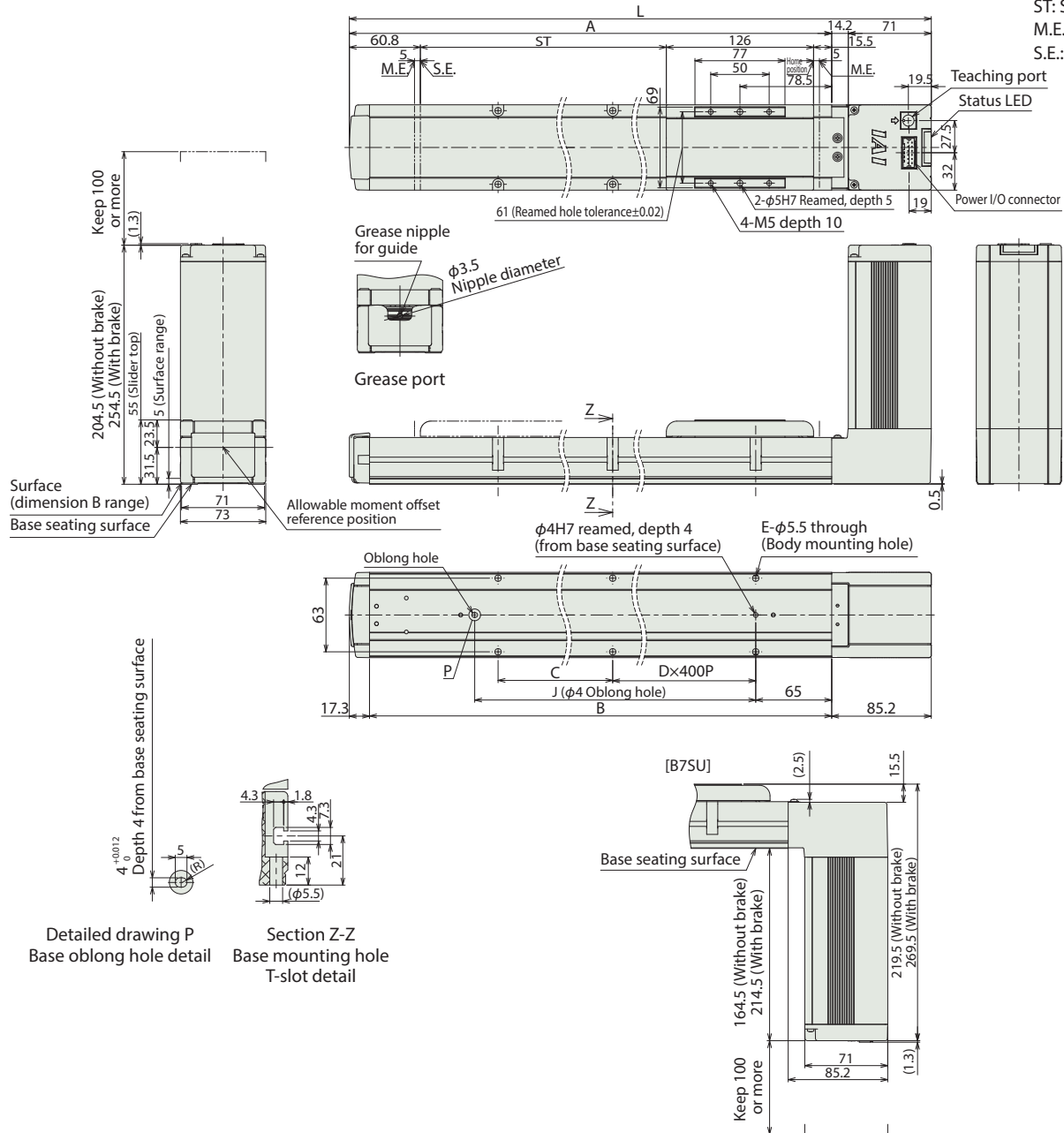
| Item                                   | Description                                                                             |
|----------------------------------------|-----------------------------------------------------------------------------------------|
| Driving system                         | 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)<br>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 <sup>2</sup>                                                                     |
| 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.

■ 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.

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<br>(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 |

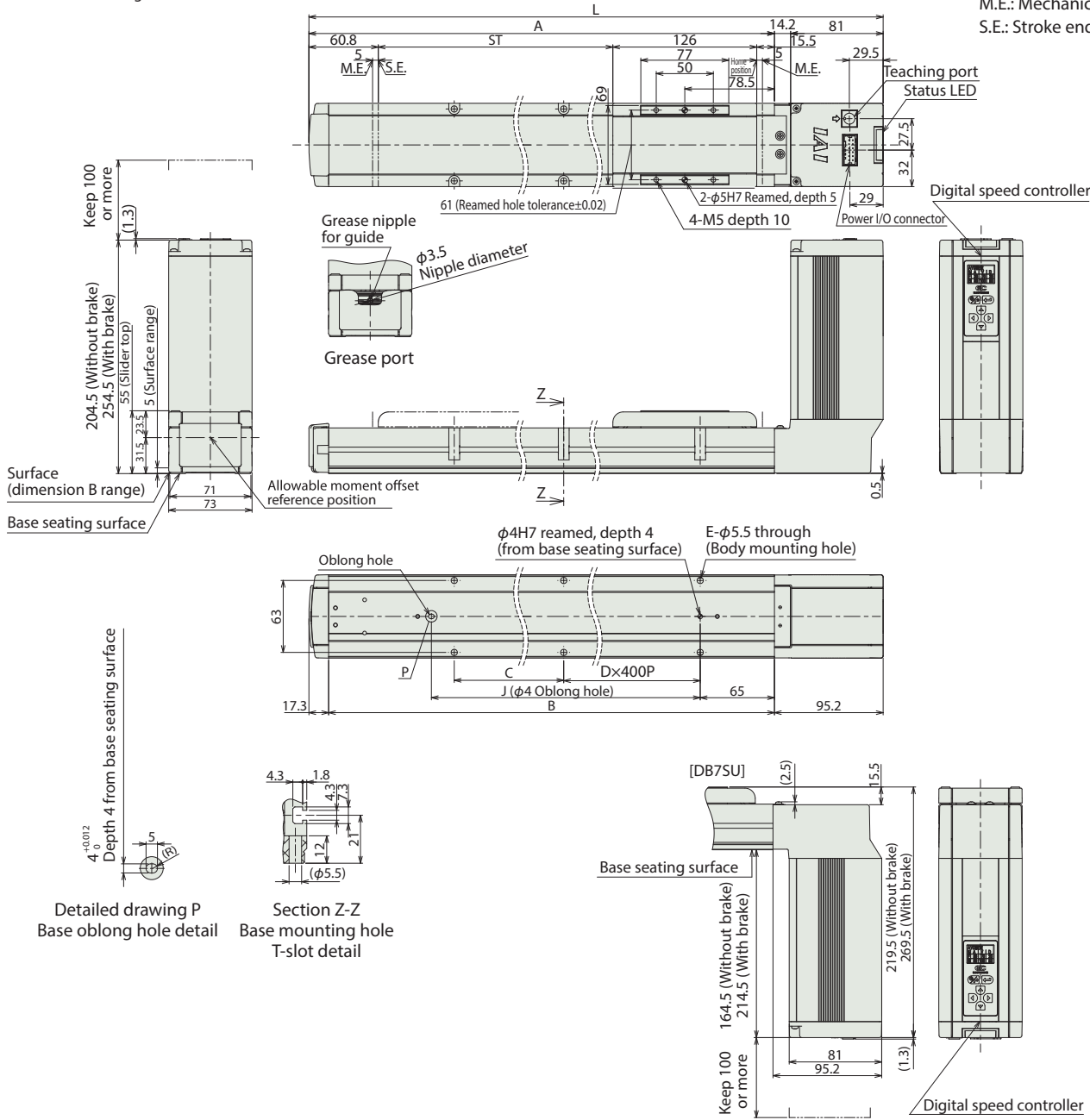
Note: B7SU also has the same mass.



■ 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<br>(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.