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IKO

New

Precision Positioning Table

TE...B

Now available with a longer stroke!

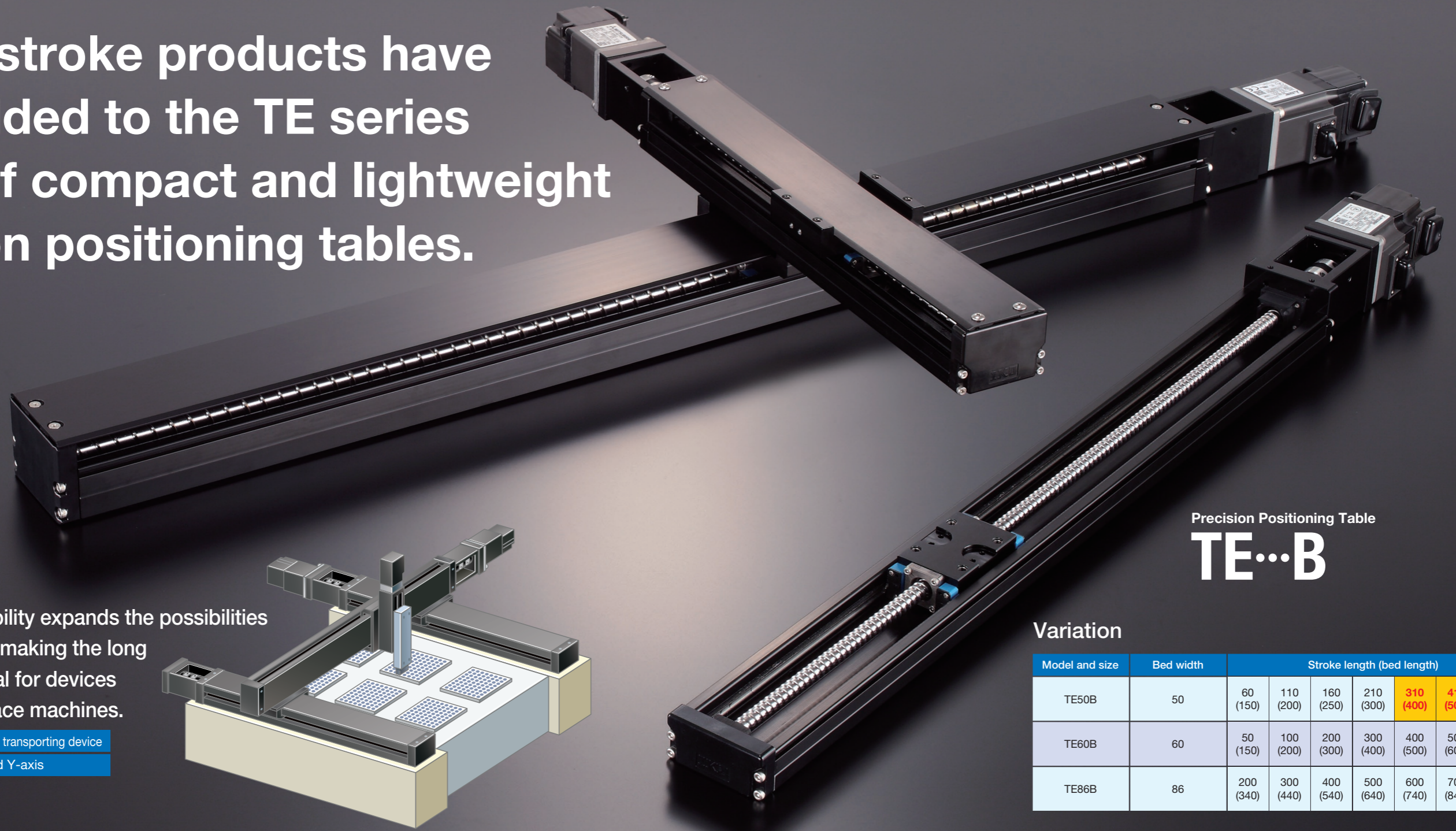


* The specifications and dimensions of products in this catalog are subject to change without prior notice. * When these products are exported, the exporter should confirm a forwarding country and a use, and, in case of falling under the customer's requirements, take necessary procedures such as export permission application. * Although all data in this catalog has been carefully compiled to make the information as complete as possible, NIPPON THOMPSON CO., LTD. shall not be liable for any damages whatsoever, direct or indirect, based upon any information in this catalog. NIPPON THOMPSON CO., LTD. makes no warranty, either express or implied, including the implied warranty of merchantability or fitness for a particular purpose. * Reproduction and conversion without permission are prohibited.



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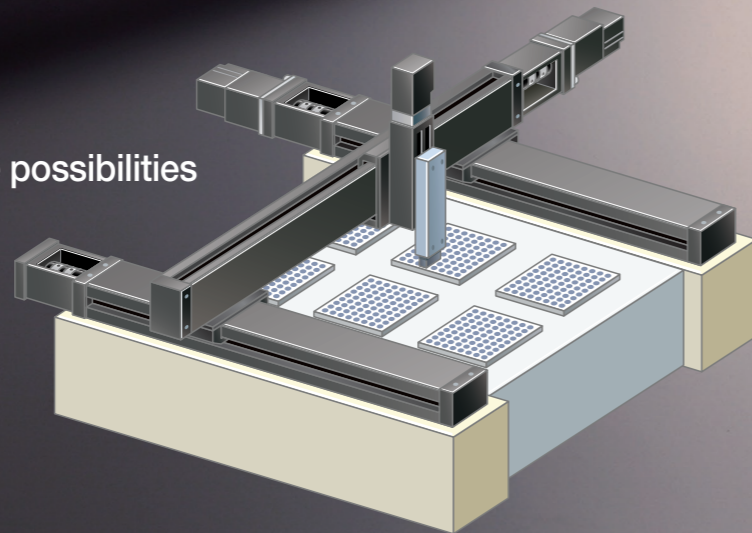
Longer stroke products have been added to the TE series lineup of compact and lightweight precision positioning tables.



Precision Positioning Table
TE...B

Longer stroke capability expands the possibilities for machine design, making the long stroke TE series ideal for devices such as pick and place machines.

| | |
|----------------|--------------------------------|
| Equipment used | Work piece transporting device |
| Location used | X-axis and Y-axis |



Variation

| Model and size | Bed width | Stroke length (bed length) | | | | | | |
|----------------|-----------|----------------------------|--------------|--------------|--------------|--------------|--------------|---------------------|
| | | 60 (150) | 110 (200) | 160 (250) | 210 (300) | 310 (400) | 410 (500) | NEW 600 (700) |
| TE50B | 50 | | | | | | | |
| TE60B | 60 | 50 (150) | 100 (200) | 200 (300) | 300 (400) | 400 (500) | 500 (600) | 600 (700) |
| TE86B | 86 | 200 (340) | 300 (440) | 400 (540) | 500 (640) | 600 (740) | 700 (840) | 800 (940) |

Features of Precision Positioning Table TE

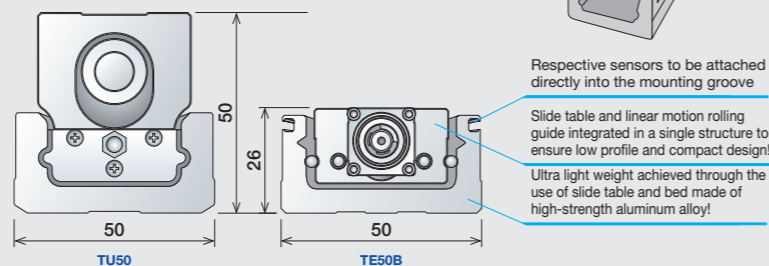
1. Light Weight / Low Profile

Far lighter and with a lower profile than IKO TU series Precision Positioning Tables, the TE series uses a high strength aluminum alloy for its main components with a slide table assembled inside a U-shaped bed. The result: a light weight, compact, precision positioning table.

• Mass unit: kg

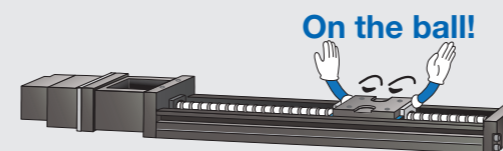
| Bed width (mm) | TU | TE...B |
|----------------|------|--------|
| 50 | 1.8 | 0.52 |
| 60 | 3.3 | 1.0 |
| 86 | 10.9 | 3.7 |

The value shows the mass of the entire table with 1 standard table.



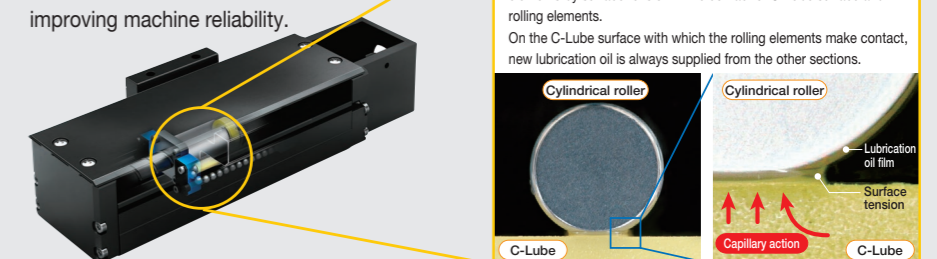
2. High Accuracy Positioning

IKO's unique linear motion rolling guide technology utilizes a precision ball screw which enables higher accuracy positioning. For long stroke products, a high lead ball screw is used to achieve high speed and high accuracy positioning in a longer stroke.

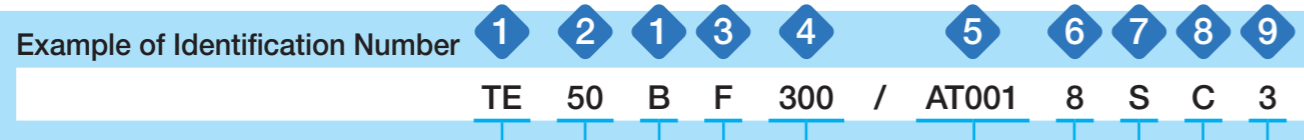


3. Long-Term, Maintenance-Free Operation

With built-in **IKO C-Lube** technology, long term maintenance free operation is possible. With C-Lube, lubrication is supplied to the surfaces of the rolling elements, reducing the need for lubrication maintenance and improving machine reliability.



Identification Number and Specification



- 1 Model** TE...B: Precision Positioning Table TE
- 2 Size** Size indicates bed width. Select a size from the list in Table 1.
- 3 Shape of slide table** S: Standard table
F: Flange type standard table
- 4 Bed length** Select a bed length from the list in Table 1.

Table 1 Sizes and bed lengths unit: mm

| Model and size | Bed width | Bed length |
|----------------|-----------|-----------------------------------|
| TE50B | 50 | 150, 200, 250, 300, 400, 500 |
| TE60B | 60 | 150, 200, 300, 400, 500, 600, 700 |
| TE86B | 86 | 340, 440, 540, 640, 740, 840, 940 |

Remark: For stroke length, please see the dimension tables shown on page 12 and on.

- 5 Designation of motor folding back specification/motor attachment**
- AT000 : Motor inline specification without motor attachment
 AT001~AT011 : Motor inline specification with motor attachment
 AR000 : Motor folding back specification without motor attachment
 AR001~AR008 : Motor folding back specification with motor attachment

To specify the motor attachment, select it from the lists in Table 3.1 and Table 3.2.

- Please specify motor attachment applicable to motor for use.
- If motor inline specification with motor attachment is specified, the main body is shipped with the coupling indicated in Table 4 mounted. However, the final position adjustment should be made by customer since it is only temporarily fixed. For a product without motor attachment (AT000), no coupling is attached.
- If motor folding back specification with motor attachment is specified, housing applicable to the specified motor, pulley (on motor side and ball screw side), cover, motor bracket, belt and bolts necessary for assembly are supplied. Motor mounting bolts should be prepared by customer.

- 6 Ball screw lead** Select from among ball screw leads applicable to the sizes and bed lengths shown in Table 2.

Table 2 Application of ball screw lead

| Model and size | Bed length mm | Ball screw lead mm | | | | |
|----------------|---------------|--------------------|---|---|----|----|
| | | 4 | 5 | 8 | 10 | 20 |
| TE50B | 300 or less | ○ | - | ○ | - | - |
| | 400 or more | - | - | ○ | - | - |
| TE60B | 600 or less | - | ○ | - | ○ | - |
| | 700 | - | - | - | - | ○ |
| TE86B | All | - | - | - | ○ | ○ |

- 7 Number of slide tables** S: One unit
C: Two units
- 8 Cover specification** 0: Without cover
C: With bridge cover (applied to TE...BF)
- 9 Sensor specification**

- 0: Without sensor
- 2: Two units of sensor mounted (limit)
- 3: Three units of sensor mounted (limit, pre-origin)
- 4: Four units of sensor mounted (limit, pre-origin, origin)
- 5: Two sensors attached (limit)
- 6: Three sensors attached (limit, pre-origin)
- 7: Four sensors attached (limit, pre-origin, origin)

If sensor mounting (symbol 2, 3, or 4) is specified, the sensor is mounted into the mounting groove on the side of the bed, and two detecting plates are mounted on the slide table.

If sensor attachment (symbol 5, 6, or 7) is specified, the specified number of sensors are attached, including mounting screws for sensors, nuts, two detecting plates, and mounting screws for the detecting plates.

Identification Number and Specification

Table 3.1 Application of motor attachment (motor inline specification)

| Type | Motor to be used | | | | Flange size mm | Motor attachment | | | |
|---|---------------------------------|----------|--------------------|----------------|----------------|------------------|-------|-------|-------|
| | Manufacturer | Series | Model | Rated output W | | TE50B | TE60B | TE86B | |
| AC servo motor | YASKAWA ELECTRIC CORPORATION | Σ-V | SGMJV-A5A | 50 | □40 | AT001 | AT002 | - | |
| | | | SGMAV-A5A | | | AT001 | AT002 | - | |
| | | | SGMJV-01A | 100 | | - | AT002 | - | |
| | | | SGMAV-01A | | | - | AT002 | - | |
| | | | SGMJV-02A | 200 | | - | - | AT003 | |
| | | | SGMAV-02A | | | - | - | AT003 | |
| | Mitsubishi Electric Corporation | J3, J4 | HF-MP053, HG-MR053 | 50 | □40 | AT001 | AT002 | - | |
| | | | HF-KP053, HG-KR053 | | | AT001 | AT002 | - | |
| | | | HF-MP13, HG-MR13 | 100 | | - | AT002 | - | |
| | | | HF-KP13, HG-KR13 | | | - | AT002 | - | |
| | | | HF-MP23, HG-MR23 | 200 | | - | - | AT003 | |
| | | | HF-KP23, HG-KR23 | | | - | - | AT003 | |
| | Panasonic Corporation | MINAS A5 | MSMD5A | 50 | □38 | AT004 | AT005 | - | |
| | | | MSME5A | | | AT004 | AT005 | - | |
| | | | MSMD01 | 100 | | - | AT005 | - | |
| | | | MSME01 | | | - | AT005 | - | |
| MSMD02 | | | 200 | - | | - | AT006 | | |
| MSME02 | | | | - | | - | AT006 | | |
| Hitachi Industrial Equipment Systems Co., Ltd | AD | ADMA-R5L | 50 | □40 | AT001 | AT002 | - | | |
| | | ADMA-01L | 100 | | - | AT002 | - | | |
| | | ADMA-02L | 200 | | - | - | AT003 | | |
| Stepper motor | ORIENTAL MOTOR Co., Ltd. | α step | AR46 | - | □42 | AT007 | - | - | |
| | | | AR66 | | | - | - | AT008 | |
| | | | AR69 | | | - | - | AT008 | |
| | | RK CRK | RK54 · CRK54 | - | | □42 | AT009 | - | - |
| | | | RK56 · CRK56 (¹) | | | | - | - | - |
| | | | - | | | | □60 | - | AT010 |

Note (¹) Applicable to the outer diameter φ8 of motor output shaft.

Remark: For detailed motor specifications, please see respective motor manufacturer's catalog.

Table 3.2 Application of NEMA motor attachment (motor inline specification)

| Type | Motor to be used | | | | Flange size inch | Motor attachment | | |
|------------------|------------------|-------------|--------------------|----------------|-----------------------|-----------------------|-------|--------------------|
| | Manufacturer | Series | Model | Rated output W | | TE50B | TE60B | TE86B |
| AC servo motor | Allen-Bradley | TLY(metric) | TLY-A110(AA type) | 41 | □40 | AT001 | AT002 | - |
| | | | TLY-A120(AA type) | 86 | □40 | AT001 | AT002 | - |
| | | | TLY-A130(AA type) | 140 | □40 | AT001 | AT002 | - |
| | | | TLY-A220(AA type) | 350 | □60 | - | - | AT003 (²) |
| | | | TLY-A230(AA type) | 440 | □60 | - | - | AT003 (²) |
| | | TLY(NEMA) | TLY-A120(AN type) | 86 | □42 | TAE9043-ATE137 (¹) | - | - |
| | | | TLY-A130(AN type) | 140 | □42 | TAE9043-ATE137 (¹) | - | - |
| | | | TLY-A220(AN type) | 350 | □56.4 | - | - | TAE9017-ATE135 (¹) |
| | | | TLY-A230(AN type) | 440 | □56.4 | - | - | TAE9017-ATE135 (¹) |
| | | | TLY-A2530(AN type) | 690 | □86 | - | - | TAE9056-ATE134 (¹) |
| | | | TLY-A2540(AN type) | 860 | □86 | - | - | TAE9056-ATE134 (¹) |
| | | | - | - | - | - | - | - |
| Servo or Stepper | NEMA17C | - | - | - | TAE9043-ATE110 (¹)(²) | - | - | |
| | NEMA23D | - | - | - | TAE9017-ATE096 (¹)(²) | TAE9017-ATE096 (¹)(²) | - | |
| | | - | - | - | TAE9017-ATE096 (¹)(²) | TAE9017-ATE097 (¹)(²) | - | |
| NEMA34D | - | - | - | - | - | TAE9056-ATE095 (¹)(²) | | |

Note (¹) The TAE part numbers are the part number of motor attachment component sold separately. In the TE part number, please choose motor attachment code AT000. No Coupling is included. It is required to consider customer's operation patterns for these motor attachment.

(²) Please confirm the length and the diameter of the motor shaft etc., and check the usability of the motor attachment with your motor beforehand.

(³) It is required to change the delivered coupling to XGS-30C-8x12 which is for the 12mm motor shaft by customer.

Remark: For detailed motor specifications, please see respective motor manufacturer's catalog.

Identification Number and Specification

Table 3.3 Application of motor attachment (motor folding back specification)

| Type | Motor to be used | | | | Flange size mm | Motor attachment | | |
|---|---------------------------------|----------|--------------------|----------------|----------------|------------------|-------|-------|
| | Manufacturer | Series | Model | Rated output W | | TE50B | TE60B | TE86B |
| AC servo motor | YASKAWA ELECTRIC CORPORATION | Σ-V | SGMJV-A5A | 50 | □40 | AR001 | AR002 | - |
| | | | SGMAV-A5A | | | AR001 | AR002 | - |
| | | | SGMJV-01A | | | - | AR002 | - |
| | | | SGMAV-01A | 100 | | - | AR002 | - |
| | | | SGMJV-02A | | | - | - | AR003 |
| | | | SGMAV-02A | | | - | - | AR003 |
| | Mitsubishi Electric Corporation | J3, J4 | HF-MP053, HG-MR053 | 50 | □40 | AR001 | AR002 | - |
| | | | HF-KP053, HG-KR053 | | | AR001 | AR002 | - |
| | | | HF-MP13, HG-MR13 | | | - | AR002 | - |
| | | | HF-KP13, HG-KR13 | 100 | | - | AR002 | - |
| | | | HF-MP23, HG-MR23 | | | - | - | AR003 |
| | | | HF-KP23, HG-KR23 | | | - | - | AR003 |
| | Panasonic Corporation | MINAS A5 | MSMD5A | 50 | □38 | AR004 | AR005 | - |
| | | | MSME5A | | | AR004 | AR005 | - |
| | | | MSMD01 | | | - | AR005 | - |
| | | | MSME01 | 100 | | - | AR005 | - |
| | | | MSMD02 | | | - | - | AR006 |
| | | | MSME02 | | | - | - | AR006 |
| Hitachi Industrial Equipment Systems Co., Ltd | AD | ADMA-R5L | 50 | □40 | AR001 | AR002 | - | |
| | | ADMA-01L | 100 | | - | AR002 | - | |
| | | ADMA-02L | 200 | | - | - | AR003 | |
| Stepper motor | ORIENTAL MOTOR Co., Ltd. | α step | AR46 | | □42 | AR007 | - | - |
| | | RK CRK | RK54 · CRK54 | | | AR008 | - | - |

Remark: For detailed motor specifications, please see respective motor manufacturer's catalog.

Table 4 Coupling models (motor inline specification)

| Motor attachment | Coupling models | Manufacturer | Coupling inertia J_c $\times 10^{-6} \text{kg} \cdot \text{m}^2$ |
|------------------|-------------------|-----------------------|---|
| AT001 | XGS-19C- 5× 8 | Nabeya Bi-tech Kaisha | 0.062 |
| AT002 | XGS-19C- 5× 8 | Nabeya Bi-tech Kaisha | 0.062 |
| AT003 | XGS-30C- 8×14 | Nabeya Bi-tech Kaisha | 0.55 |
| AT004 | XGS-19C- 5× 8 | Nabeya Bi-tech Kaisha | 0.062 |
| AT005 | XGS-19C- 5× 8 | Nabeya Bi-tech Kaisha | 0.062 |
| AT006 | XGS-30C- 8×11 | Nabeya Bi-tech Kaisha | 0.55 |
| AT007 | XGS-19C- 5× 6 | Nabeya Bi-tech Kaisha | 0.062 |
| AT008 | XGS-30C- 8×10 | Nabeya Bi-tech Kaisha | 0.55 |
| AT009 | XGS-19C- 5× 5 | Nabeya Bi-tech Kaisha | 0.062 |
| AT010 | XGS-19C- 5× 8 | Nabeya Bi-tech Kaisha | 0.062 |
| AT011 | XGS-30C- 8× 8 | Nabeya Bi-tech Kaisha | 0.55 |
| TAE9043-ATE137 | XGS-19C- 5× 6.35 | Nabeya Bi-tech Kaisha | 0.062 |
| TAE9017-ATE135 | XGS-30C- 8×12.7 | Nabeya Bi-tech Kaisha | 0.55 |
| TAE9056-ATE134 | XGS-34C- 8×15.875 | Nabeya Bi-tech Kaisha | 1.0 |

Remark: For detailed coupling specification, please see the manufacturer's catalog.

Specifications

Table 5 Accuracy

| Model and size | Bed length | Positioning repeatability | Positioning accuracy (°) | Parallelism in table motion B | Backlash (°) |
|----------------|------------|---------------------------|--------------------------|-------------------------------|--------------|
| TE50B | 150 | ±0.002 (±0.020) | 0.035 | 0.008 | 0.005 |
| | 200 | | | | |
| | 250 | | | | |
| | 300 | | | | |
| | 400 | | | | |
| TE60B | 150 | ±0.002 (±0.020) | 0.035 | 0.008 | 0.005 |
| | 200 | | | | |
| | 300 | | | | |
| | 400 | | | | |
| | 500 | | | | |
| | 600 | | | | |
| TE86B | 150 | ±0.002 (±0.020) | 0.035 | 0.008 | 0.005 |
| | 200 | | | | |
| | 300 | | | | |
| | 400 | | | | |
| | 500 | | | | |
| | 600 | | | | |
| TE86B | 340 | ±0.002 (±0.020) | 0.040 | 0.010 | 0.005 |
| | 440 | | | | |
| | 540 | | | | |
| | 640 | | | | |
| | 740 | | | | |
| | 840 | | | | |
| TE86B | 940 | ±0.002 (±0.020) | 0.055 | 0.014 | 0.005 |
| | 940 | | 0.065 | 0.016 | |

Note (°) This does not apply to tables of motor folding back specification.

Remarks The values in () are reference values provided that the timing belt tension is properly adjusted in motor folding back specification table.

Specifications

Table 6 Maximum speed

| Motor type | Model and size | Bed length mm | Maximum speed mm/s | | | | |
|---------------|----------------|---------------|--------------------|----------|----------|-----------|-----------|
| | | | Lead 4mm | Lead 5mm | Lead 8mm | Lead 10mm | Lead 20mm |
| AC servomotor | TE50B | 300 or less | 400 | - | 800 | - | - |
| | | 400 | - | - | 800 | - | - |
| | | 500 | - | - | 620 | - | - |
| | TE60B | 500 or less | - | 500 | - | 1 000 | - |
| | | 600 | - | 350 | - | 710 | - |
| | | 700 | - | - | - | - | 960 |
| | TE86B | 540 or less | - | - | - | 930 | 1 860 |
| | | 640 | - | - | - | 830 | 1 630 |
| | | 740 | - | - | - | 590 | 1 170 |
| | | 840 | - | - | - | 440 | 880 |
| 940 | | - | - | - | 340 | 690 | |
| Stepper motor | TE50B | 300 or less | 120 | - | 240 | - | - |
| | | 400 | - | - | 240 | - | - |
| | | 500 | - | - | 240 | - | - |
| | TE60B | 600 or less | - | 150 | - | 300 | - |
| | | 700 | - | - | - | - | 600 |
| | | 700 | - | - | - | - | 600 |
| TE86B | 940 or less | - | - | - | 300 | 600 | |

Remark: To measure the practical maximum speed, it is required to consider operation patterns based on the motor to be used and load conditions.

Table 7 Allowable moment

| Model and size | Allowable moment N·m | | |
|----------------|----------------------|-------|-------|
| | T_o | T_x | T_y |
| TE50B | 9.8 | | |
| TE60B | 16.7 | | |
| TE86B | 49.0 | | |

Remark: The value is for one slide table.

Table 8 Maximum carrying mass

| Model and size | Ball screw lead mm | Maximum carrying mass kg | |
|----------------|--------------------|--------------------------|----------|
| | | Horizontal | Vertical |
| TE50B | 4 | 12 | 11 |
| | 8 | 12 | 7 |
| TE60B | 5 | 17 | 13 |
| | 10 | 17 | 8 |
| | 20 | 17 | 7 |
| TE86B | 10 | 36 | 18 |
| | 20 | 29 | 10 |

Remark: The value is for one flange type standard table.

Specifications

Table 9 Table inertia and starting torque

| Model and size | Bed length mm | Table inertia J_T (°) $\times 10^{-5} \text{kg}\cdot\text{m}^2$ | | | | | | | | | | Starting torque T_s (°) N·m |
|----------------|---------------|---|------|-------|------|------|----------------------------|------|-------|------|------|-------------------------------|
| | | Standard table | | | | | Flange type standard table | | | | | |
| | | Lead | | | | | Lead | | | | | |
| | | 4mm | 5mm | 8mm | 10mm | 20mm | 4mm | 5mm | 8mm | 10mm | 20mm | |
| TE50B | 150 | 0.057 | - | 0.071 | - | - | 0.060 | - | 0.084 | - | - | 0.03 |
| | 200 | 0.069 | - | 0.083 | - | - | 0.072 | - | 0.096 | - | - | |
| | 250 | 0.085 | - | 0.099 | - | - | 0.088 | - | 0.112 | - | - | |
| | 300 | 0.097 | - | 0.111 | - | - | 0.100 | - | 0.124 | - | - | |
| | 400 | - | - | 0.139 | - | - | - | - | 0.152 | - | - | |
| | 500 | - | - | 0.167 | - | - | - | - | 0.180 | - | - | |
| TE60B | 150 | - | 0.13 | - | 0.17 | - | - | 0.14 | - | 0.20 | - | 0.03 |
| | 200 | - | 0.19 | - | 0.23 | - | - | 0.20 | - | 0.26 | - | |
| | 300 | - | 0.26 | - | 0.30 | - | - | 0.27 | - | 0.33 | - | |
| | 400 | - | 0.33 | - | 0.36 | - | - | 0.34 | - | 0.40 | - | |
| | 500 | - | 0.40 | - | 0.44 | - | - | 0.41 | - | 0.47 | - | |
| | 600 | - | 0.47 | - | 0.51 | - | - | 0.48 | - | 0.54 | - | |
| | 700 | - | - | - | - | 0.76 | - | - | - | 0.88 | - | |
| TE86B | 340 | - | - | - | 0.73 | 1.19 | - | - | - | 0.81 | 1.50 | 0.05 |
| | 440 | - | - | - | 0.88 | 1.35 | - | - | - | 0.95 | 1.64 | |
| | 540 | - | - | - | 1.03 | 1.50 | - | - | - | 1.11 | 1.80 | |
| | 640 | - | - | - | 1.18 | 1.64 | - | - | - | 1.25 | 1.95 | |
| | 740 | - | - | - | 1.33 | 1.79 | - | - | - | 1.41 | 2.10 | |
| | 840 | - | - | - | 1.48 | 1.94 | - | - | - | 1.56 | 2.25 | |
| | 940 | - | - | - | 1.63 | 2.10 | - | - | 1.71 | 2.40 | | |

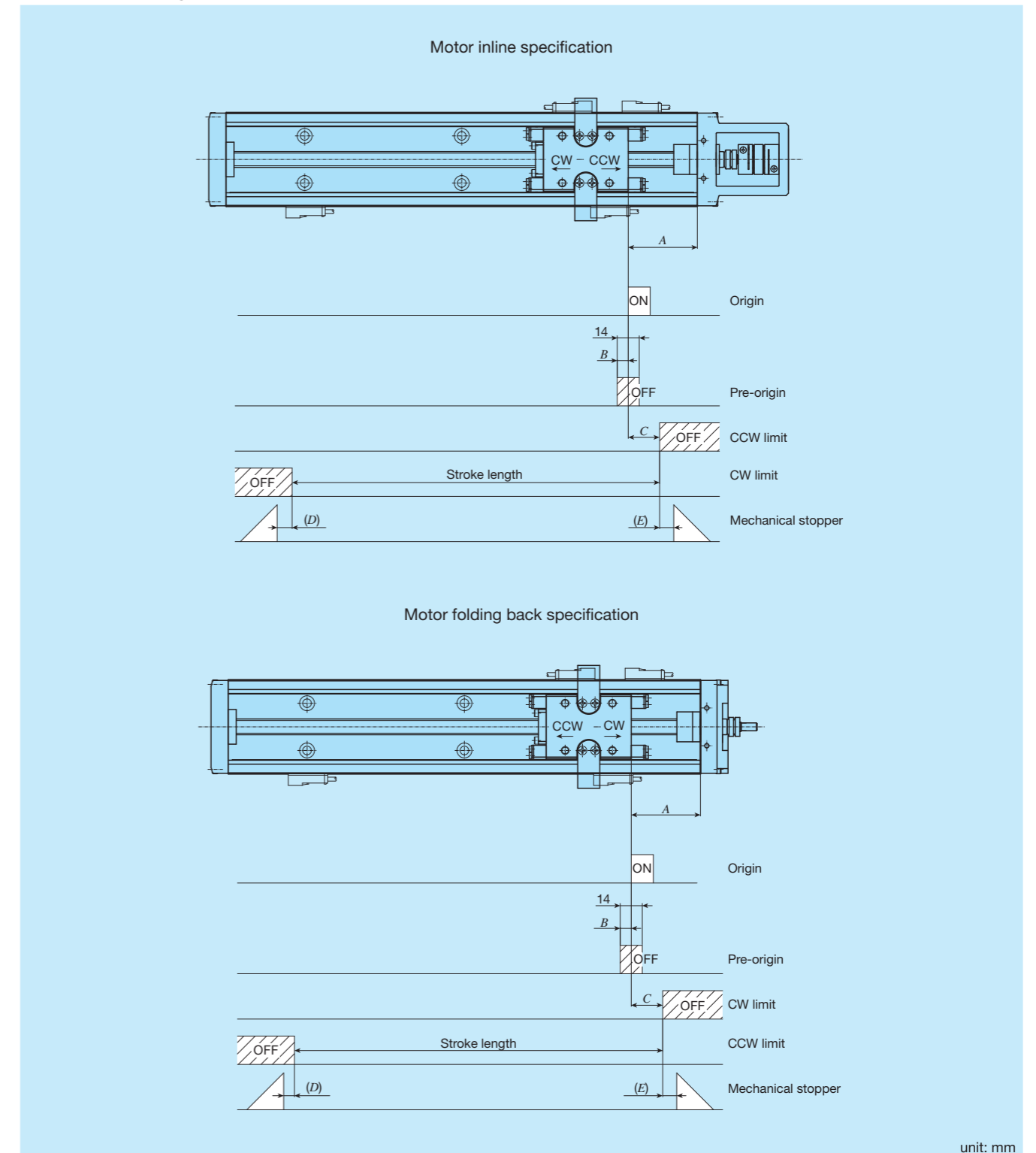
Note (°) When two units of slide table are used, it is about 1.5 times as long as that of one unit, and when table of motor folding back specification is used, it is about twice.

(°) For motor folding back specification, please add the following value to the value in the table.

TE50B: $0.17 \times 10^{-5} \text{kg}\cdot\text{m}^2$, TE60B: $0.39 \times 10^{-5} \text{kg}\cdot\text{m}^2$, TE86B: $0.86 \times 10^{-5} \text{kg}\cdot\text{m}^2$

Sensor specification

Table 10 Sensor timing chart



| Model and size | Ball screw lead | A | B | C | D(°) | E |
|----------------|-----------------|----|----|----|-----------|----|
| TE50B | 4 | 33 | 2 | 10 | 6 (9) | 5 |
| | 8 | | 6 | | | |
| TE60B | 5 | 44 | 3 | 20 | 9.5(8.5) | 9 |
| | 10 | | 7 | | | |
| TE86B | 10 | 50 | 7 | 20 | 11 (11) | 10 |
| | 20 | | 12 | | | |

Note (°) The value in () represents dimensions for two slide tables.

Remarks 1. Mounting a sensor is specified using the corresponding identification number.

2. For the specifications of respective sensors, please see the sensor specifications in Table 11.

3. For the motor folding back specification, CW and CCW will invert.

Sensor specification

Table 11 Sensor specification

| Target models | | TE...B |
|----------------------|---|---------------------------------|
| Item | | |
| Manufacturer | | Azbil Corporation |
| Model (1) | Pre-origin | APM-D3B1-S APM-D3B1F-S |
| | CW limit | APM-D3B1-S |
| | CCW limit | APM-D3B1-S |
| | Origin | APM-D3A1-S |
| Shape mm | | |
| Power supply voltage | DC12~24V ±10% | |
| Current consumption | 10mA or less | |
| Output | NPN open collector · Maximum input current : 30mA or less (resistance load) · Applied voltage : 26.4VDC or less · Residual voltage : 1V or less at input current of 30mA | |
| Output operation | Pre-origin | OFF in proximity |
| | Limit | OFF in proximity |
| | Origin | ON in proximity |
| Operation indication | Pre-origin | Orange LED (OFF upon detection) |
| | Limit | Orange LED (OFF upon detection) |
| | Origin | Orange LED (ON upon detection) |
| Circuit diagram | | |

Remarks 1. Wire the sensor cords on your own.

2. Lead runs off by at least 200mm from the table end. Actual length varies depending on stroke length.

Note (1) Model numbers apply to manufacturer standard products. Depending on the total length of the relevant product, the cable length may be different from that of standard products.

Mounting

■ Machining precision of mounting surface

As the accuracy and performance of the table are effective by the precision of the mounting surface of the stand, the parallelism of the stand mounting surface should be 30 μm or less as a guideline for general conditions. However, it must be in accordance with operating conditions such as required motion performance and positioning accuracy. Be sure to remove dirt and harmful protrusions on the mounting surface.

■ Tightening torque for fixing screw

Typical tightening torque for fixing the Precision Positioning Table is indicated in the following table. If sudden acceleration / deceleration occurs frequently or moment is applied, it is recommended to tighten them to 1.3 times higher torque than that indicated in the table. In addition, when high accuracy is required with no vibration and shock, it is recommended to tighten the screws to torque smaller than that indicated in the table and use adhesive agent to prevent looseness of screws.

Screw tightening torque

unit: N·m

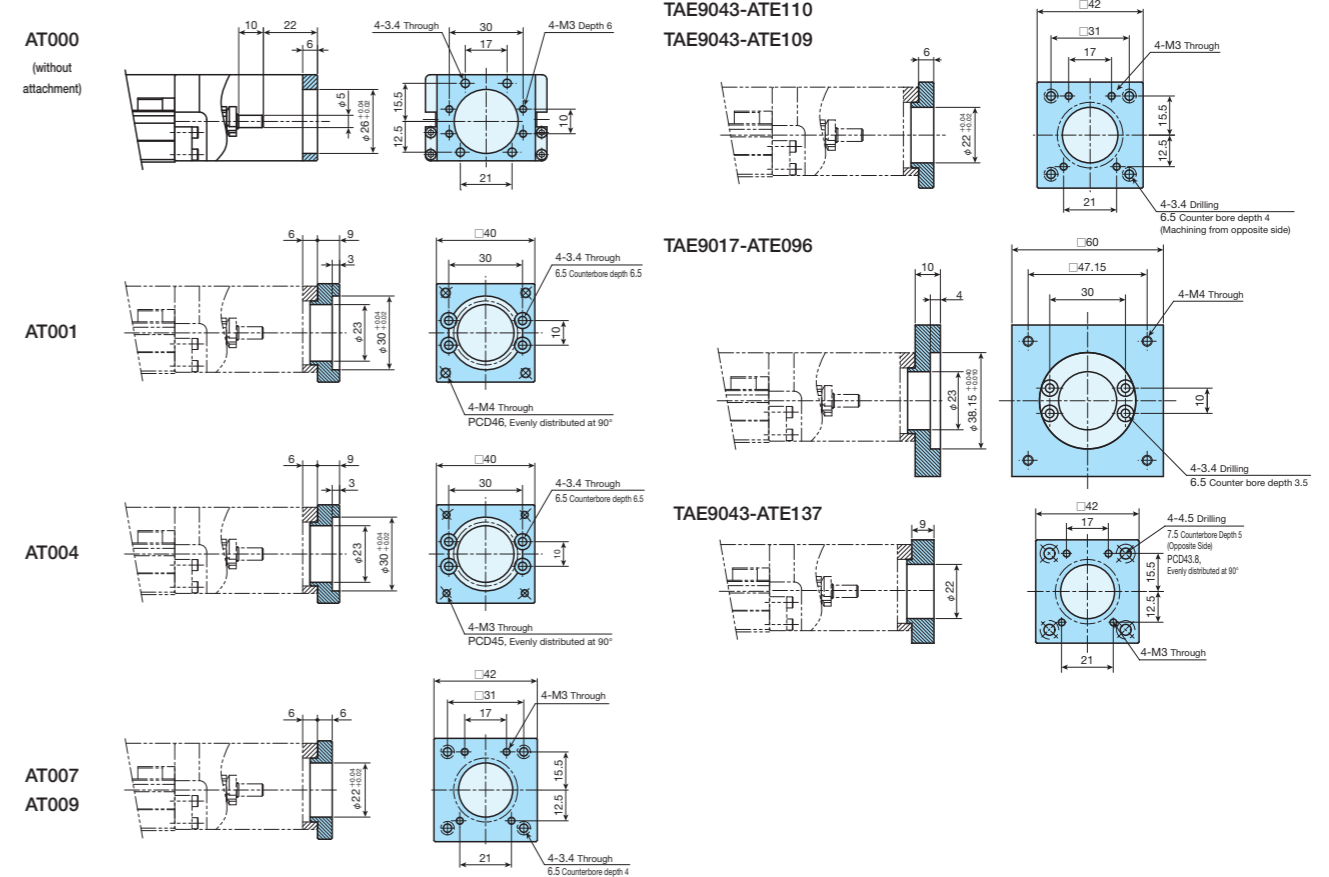
| Bolt size | Female thread component | |
|-----------|-------------------------|--------------------------|
| | Steel | Aluminum alloy |
| M4 ×0.7 | 4.0 | About 60% of steel value |
| M5 ×0.8 | 7.9 | |
| M6 ×1 | 13.3 | |
| | | Screw insert |
| | | About 80% of steel value |

Dimensions of Motor Attachment

■ Motor inline specification

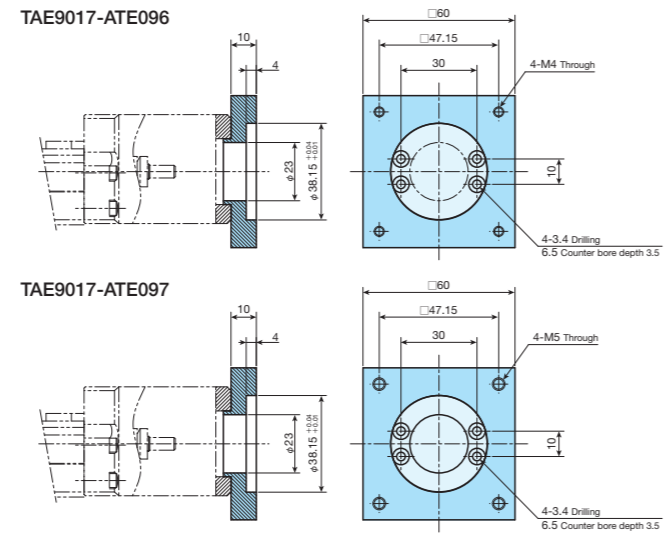
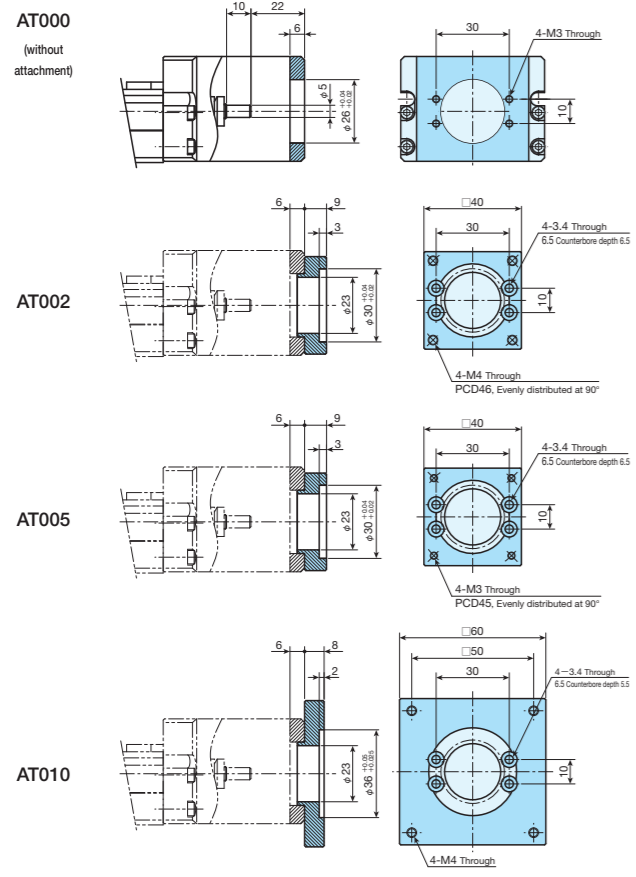
Remark: Motor attachment for NEMA, please see pages III-31 or later of the general catalog.

TE50B



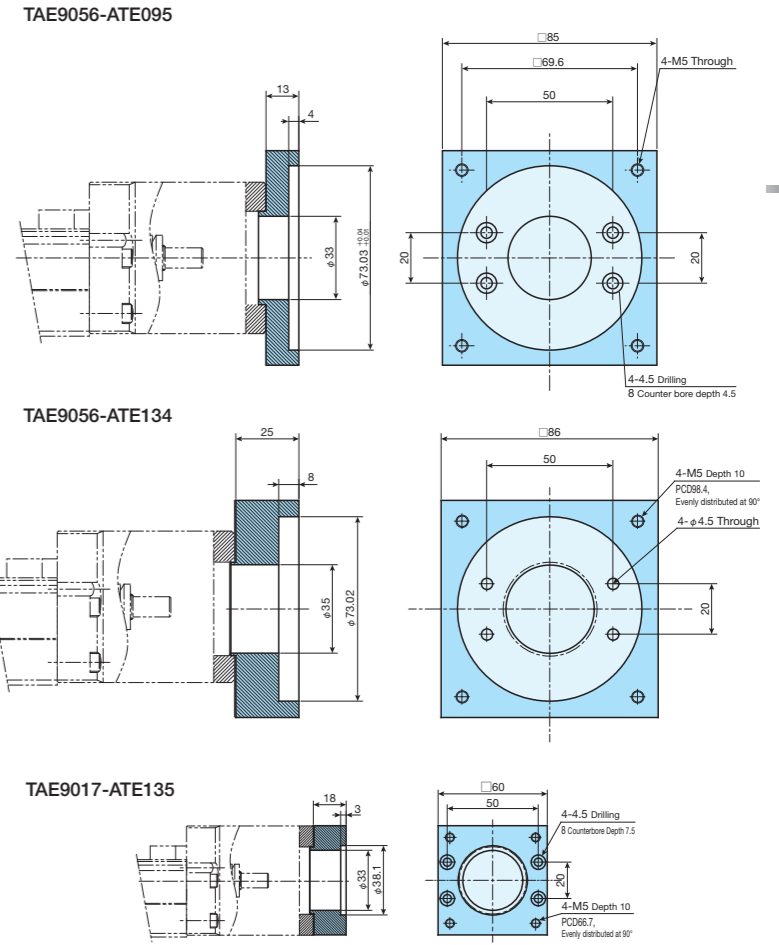
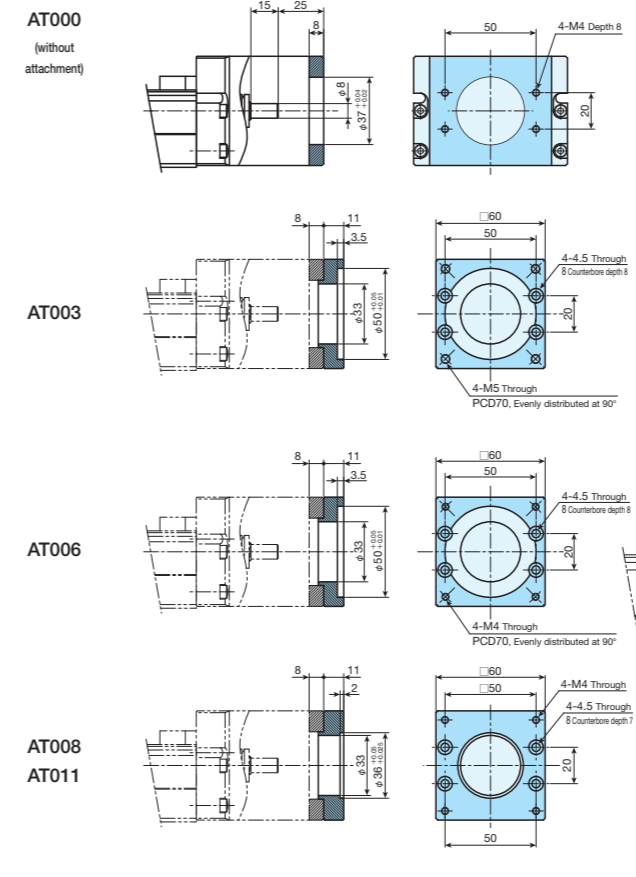
Dimensions of Motor Attachment

TE60B



Dimensions of Motor Attachment

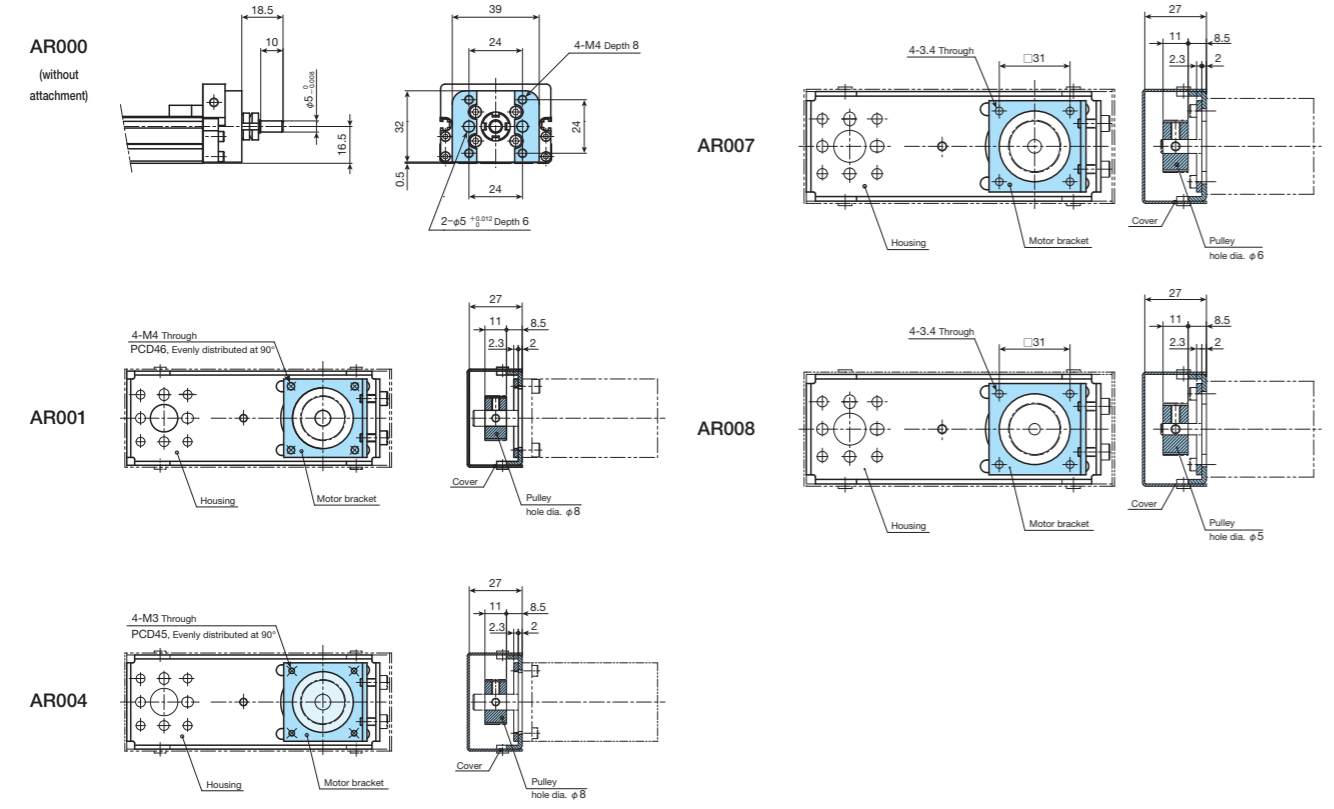
TE86B



Dimensions of Motor Attachment

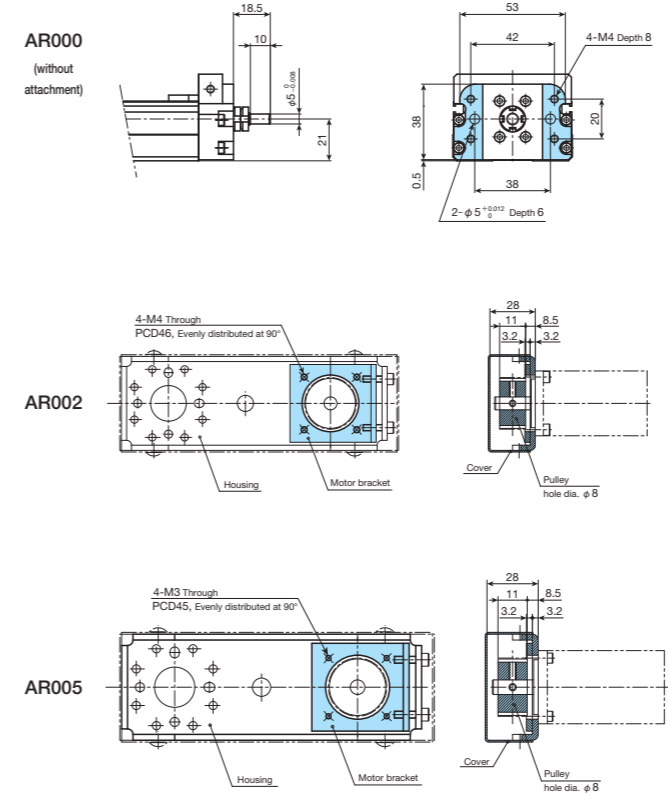
Motor folding back specification

TE50B

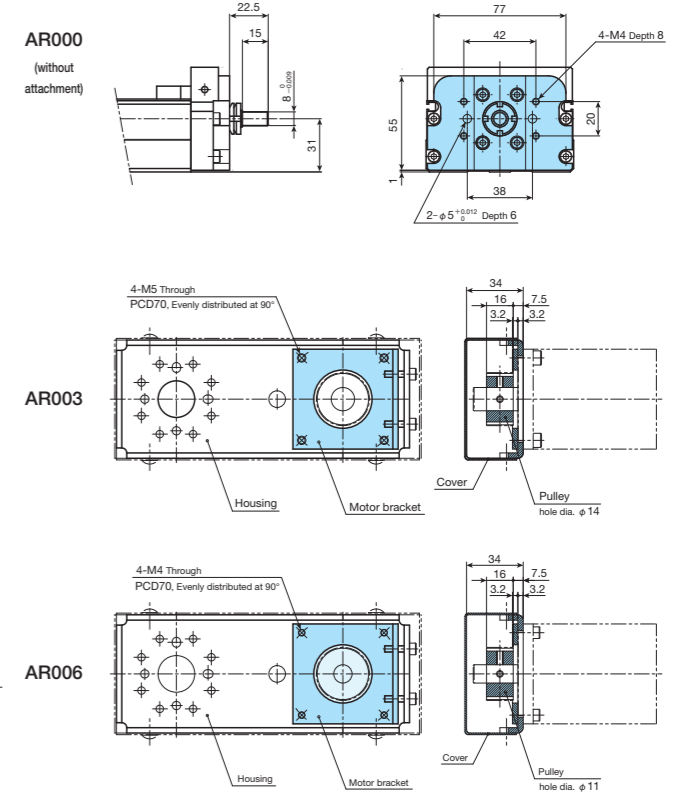


Dimensions of Motor Attachment

TE60B

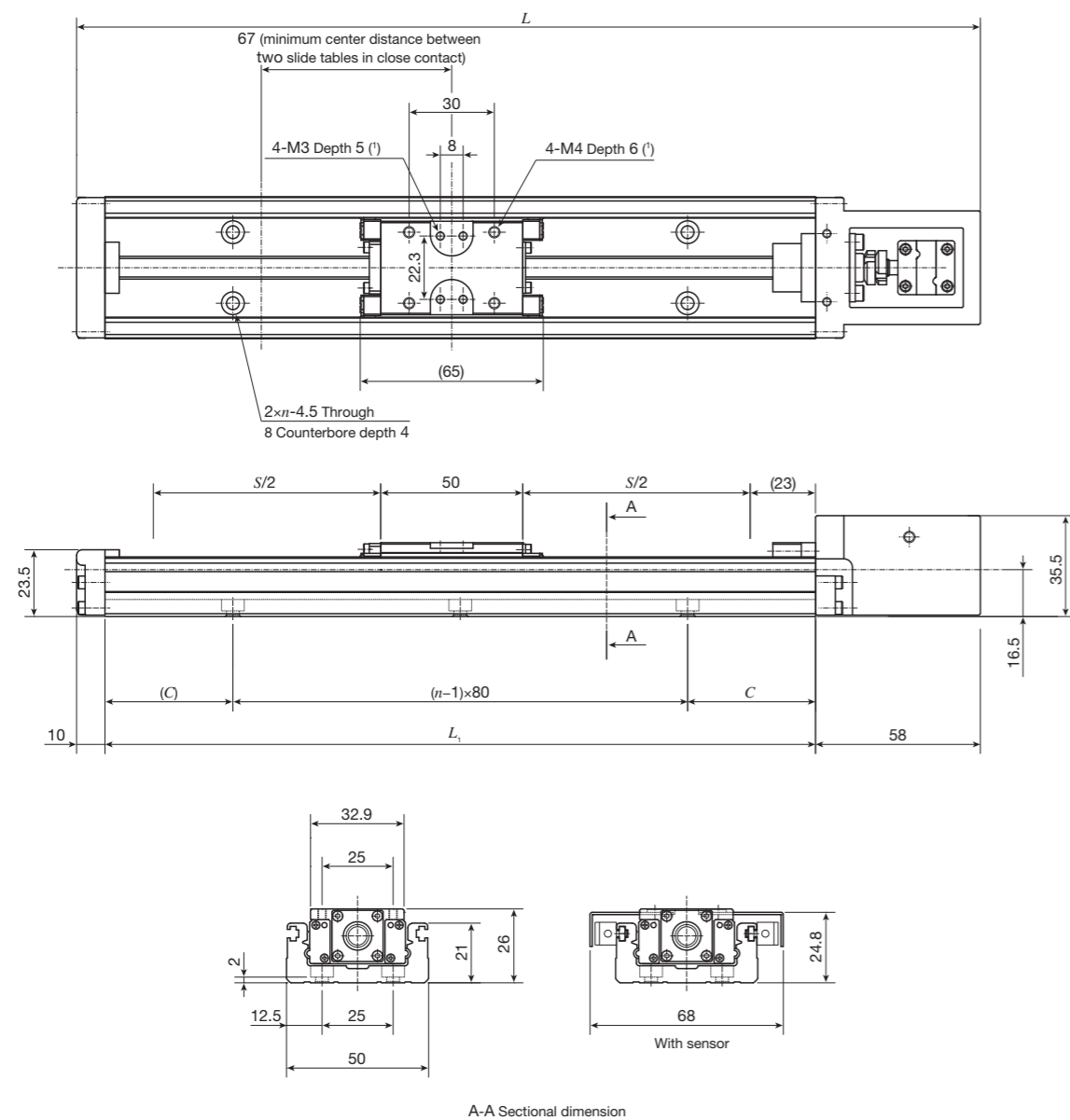


TE86B



IKO Precision Positioning Table TE

TE50BS (Motor inline specification)



A-A Sectional dimension

unit: mm

| Bed length | Overall length | Stroke length | Mounting holes of bed | | Mass (Ref.) |
|------------|----------------|---------------|-----------------------|-----|-------------------|
| L_1 | L | $S^{(1)}$ | C | n | kg ⁽²⁾ |
| 150 | 218 | 60(-) | 35 | 2 | 0.52 |
| 200 | 268 | 110(40) | 20 | 3 | 0.62 |
| 250 | 318 | 160(90) | 45 | 3 | 0.72 |
| 300 | 368 | 210(140) | 30 | 4 | 0.82 |
| 400 | 468 | 310(240) | 40 | 5 | 1.02 |
| 500 | 568 | 410(340) | 10 | 7 | 1.22 |

Note ⁽¹⁾ Too deep insertion depth of the mounting bolt may affect the running performance of the slide table, so never insert a bolt longer than the depth of the through hole.

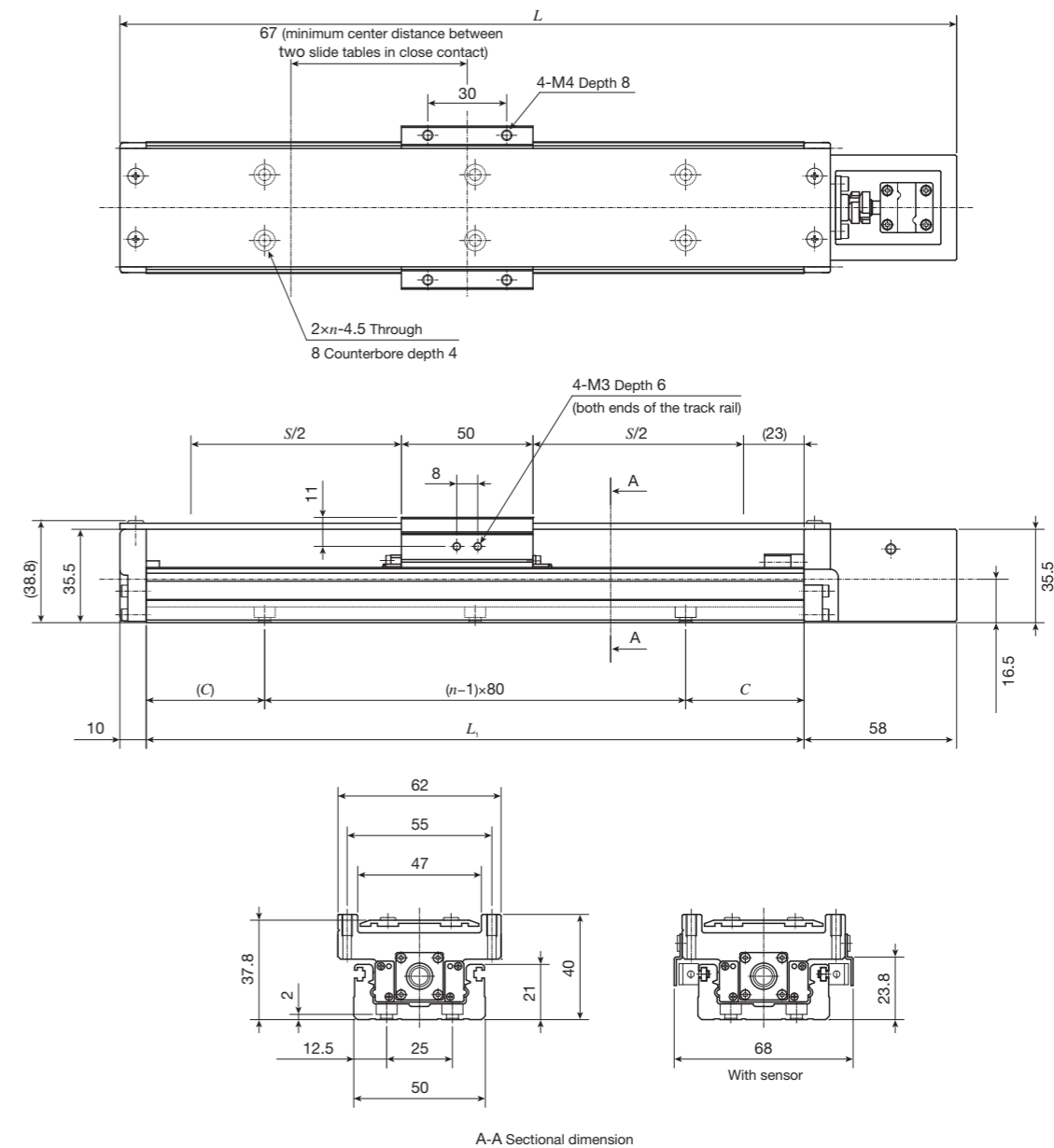
⁽²⁾ The value indicates the allowable stroke when limit sensors are mounted. The value in () represents dimension for two slide tables in close contact.

⁽³⁾ The value shows the mass of the entire table with one slide table, and it is 0.07kg heavier with two slide tables.

Remarks 1. Motor attachment for AC Servomotor is 3.5mm lower than the bottom of the bed.

2. Motor attachment for stepper motor is 4.5mm lower than the bottom of the bed.

TE50BF (Motor inline specification)



A-A Sectional dimension

unit: mm

| Bed length | Overall length | Stroke length | Mounting holes of bed | | Mass (Ref.) |
|------------|----------------|---------------|-----------------------|-----|-------------------|
| L_1 | L | $S^{(1)}$ | C | n | kg ⁽²⁾ |
| 150 | 218 | 60(-) | 35 | 2 | 0.65 |
| 200 | 268 | 110(40) | 20 | 3 | 0.75 |
| 250 | 318 | 160(90) | 45 | 3 | 0.85 |
| 300 | 368 | 210(140) | 30 | 4 | 0.94 |
| 400 | 468 | 310(240) | 40 | 5 | 1.14 |
| 500 | 568 | 410(340) | 10 | 7 | 1.33 |

Note ⁽¹⁾ The value indicates the allowable stroke when limit sensors are mounted. The value in () represents dimension for two slide tables in close contact.

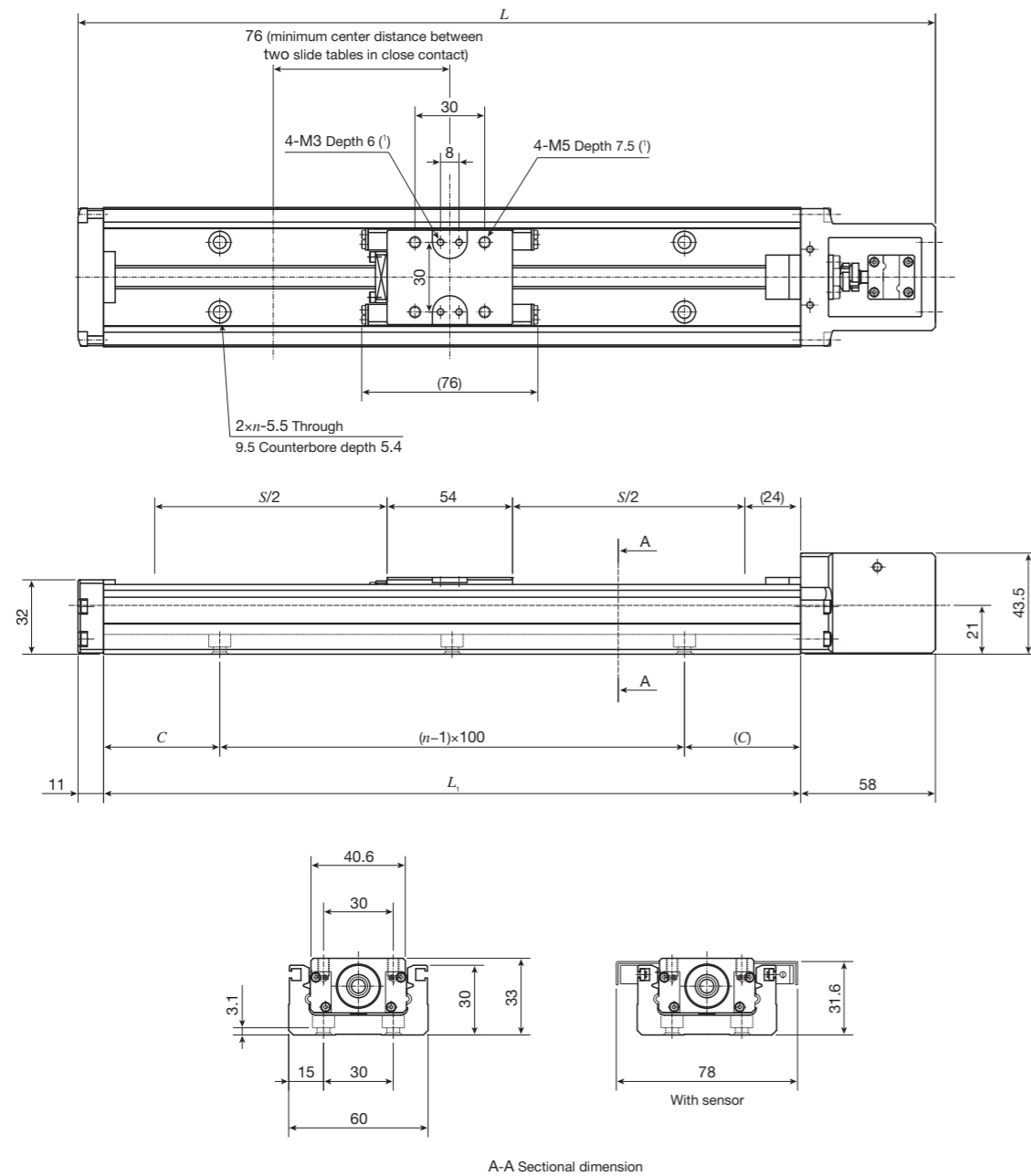
⁽²⁾ The value shows the mass of the entire table with one slide table, and it is 0.16kg heavier with two slide tables.

Remarks 1. Motor attachment for AC Servomotor is 3.5mm lower than the bottom of the bed.

2. Motor attachment for stepper motor is 4.5mm lower than the bottom of the bed.

IKO Precision Positioning Table TE

TE60BS (Motor inline specification)



unit: mm

| Bed length | Overall length | Stroke length | Mounting holes of bed | | Mass (Ref.) |
|------------|----------------|---------------|-----------------------|-----|-------------------|
| L_1 | L | $S^{(2)}$ | C | n | kg ⁽³⁾ |
| 150 | 219 | 50(-) | 25 | 2 | 0.9 |
| 200 | 269 | 100(-) | 50 | 2 | 1.0 |
| 300 | 369 | 200(125) | 50 | 3 | 1.3 |
| 400 | 469 | 300(225) | 50 | 4 | 1.6 |
| 500 | 569 | 400(325) | 50 | 5 | 1.9 |
| 600 | 669 | 500(425) | 50 | 6 | 2.2 |
| 700 | 769 | 600(525) | 50 | 7 | 2.5 |

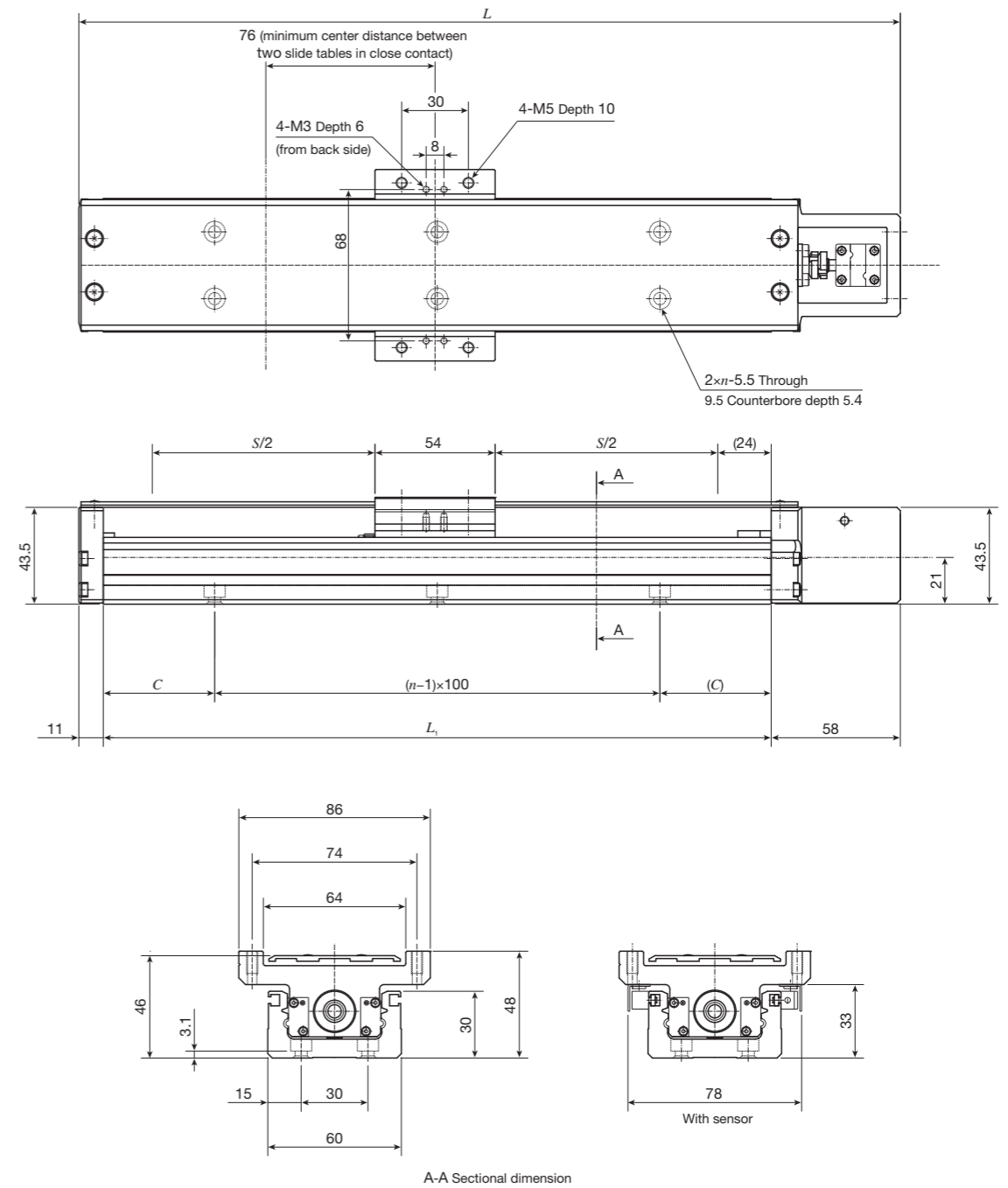
Note (1) Too deep insertion depth of the mounting bolt may affect the running performance of the slide table, so never insert a bolt longer than the depth of the through hole.

(2) The value indicates the allowable stroke when limit sensors are mounted. The value in () represents dimension for two slide tables in close contact.

(3) The value shows the mass of the entire table with one slide table, and it is 0.1kg heavier with two slide tables.

Remarks Motor attachment for stepper motor is 9mm lower than the bottom of the bed.

TE60BF (Motor inline specification)



unit: mm

| Bed length | Overall length | Stroke length | Mounting holes of bed | | Mass (Ref.) |
|------------|----------------|---------------|-----------------------|-----|-------------------|
| L_1 | L | $S^{(1)}$ | C | n | kg ⁽²⁾ |
| 150 | 219 | 50(-) | 25 | 2 | 1.1 |
| 200 | 269 | 100(-) | 50 | 2 | 1.2 |
| 300 | 369 | 200(125) | 50 | 3 | 1.5 |
| 400 | 469 | 300(225) | 50 | 4 | 1.9 |
| 500 | 569 | 400(325) | 50 | 5 | 2.2 |
| 600 | 669 | 500(425) | 50 | 6 | 2.5 |
| 700 | 769 | 600(525) | 50 | 7 | 2.8 |

Note (1) The value indicates the allowable stroke when limit sensors are mounted. The value in () represents dimension for two slide tables in close contact.

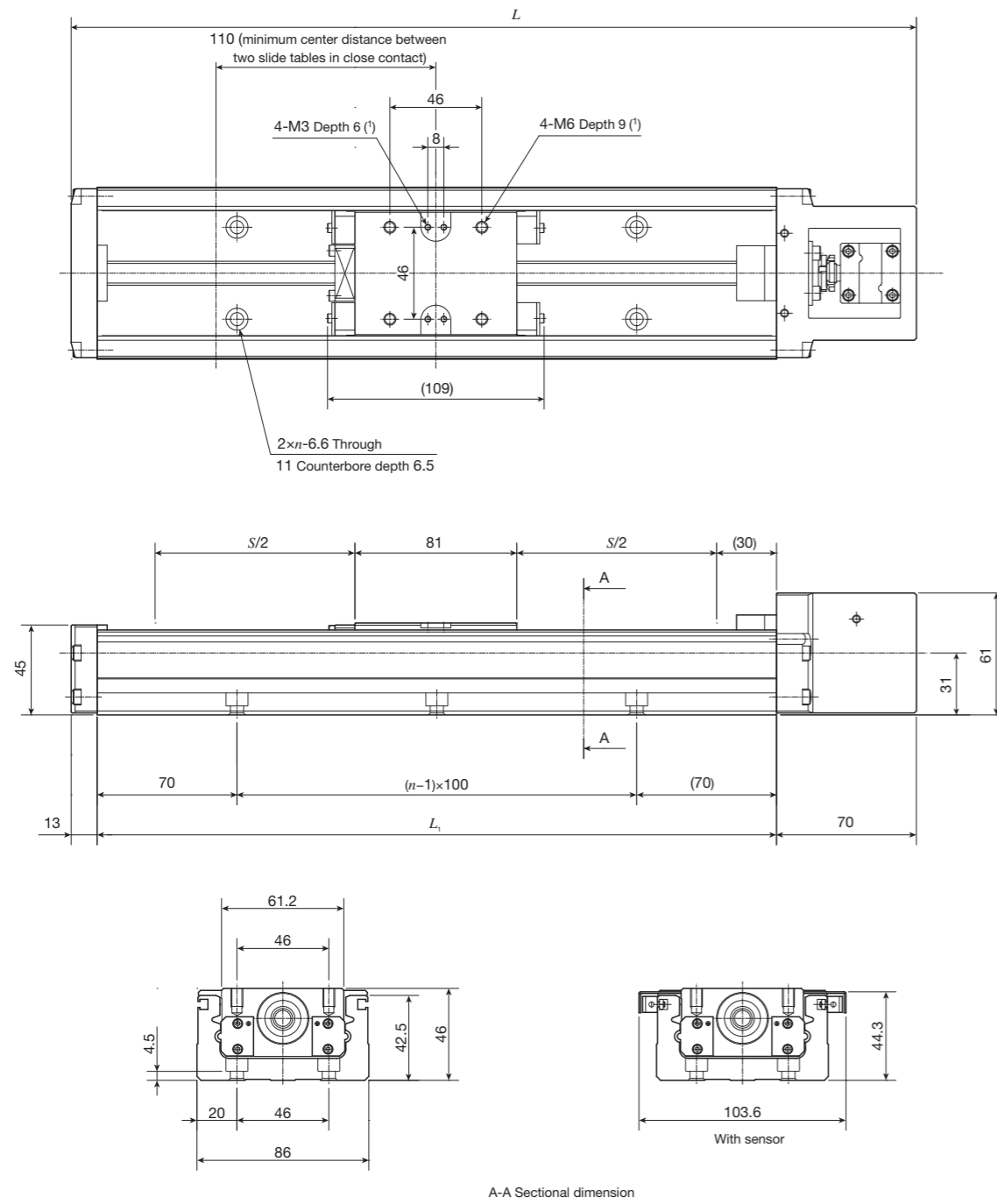
(2) The value shows the mass of the entire table with one slide table, and it is 0.2kg heavier with two slide tables.

Remarks Motor attachment for stepper motor is 9mm lower than the bottom of the bed.

1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

IKO Precision Positioning Table TE

TE86BS (Motor inline specification)



unit: mm

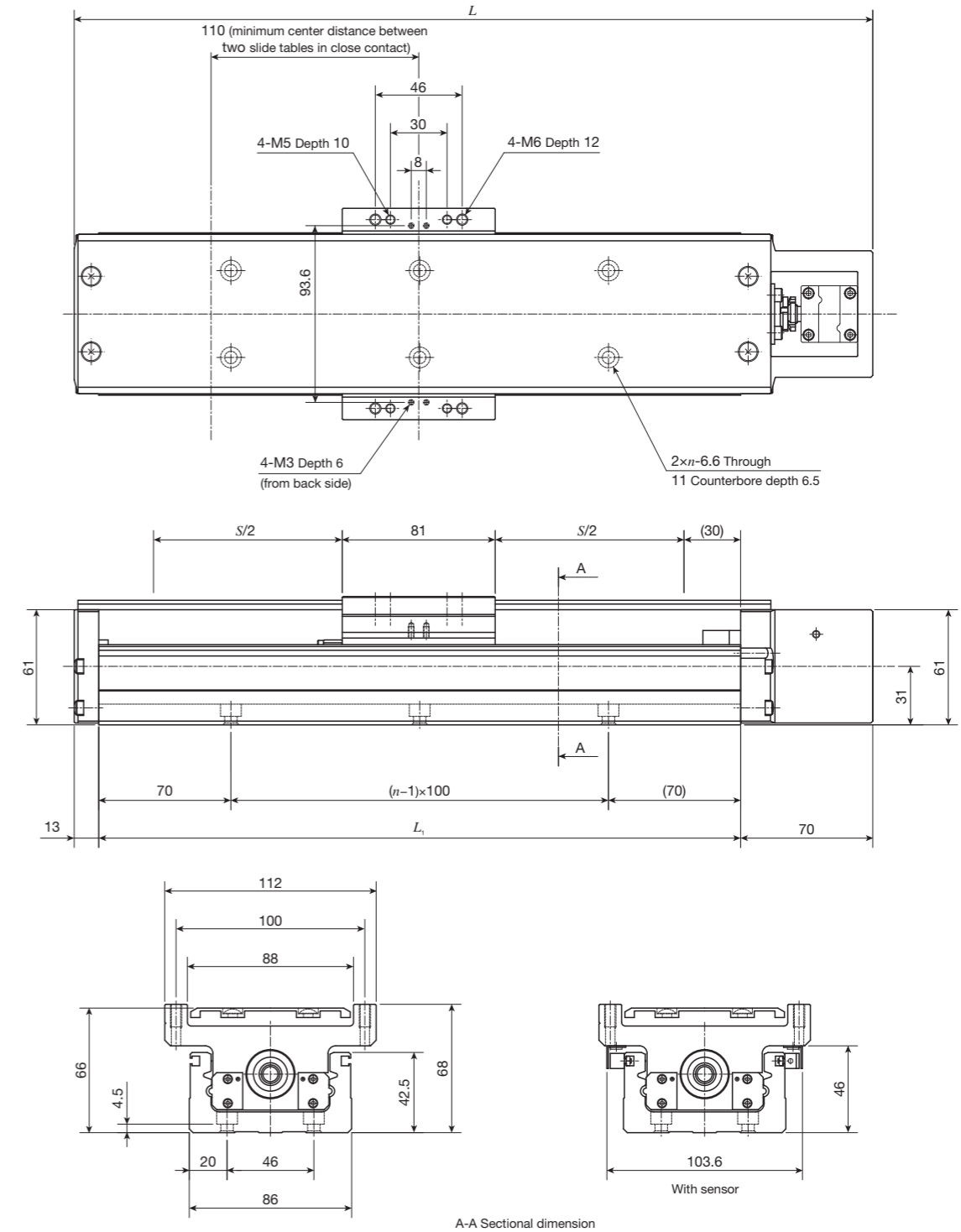
| Bed length | Overall length | Stroke length | Mounting holes of bed | Mass(Ref.) |
|------------|----------------|---------------|-----------------------|-------------------|
| L_1 | L | $S^{(2)}$ | n | kg ⁽³⁾ |
| 340 | 423 | 200(90) | 3 | 3.1 |
| 440 | 523 | 300(190) | 4 | 3.7 |
| 540 | 623 | 400(290) | 5 | 4.2 |
| 640 | 723 | 500(390) | 6 | 4.7 |
| 740 | 823 | 600(490) | 7 | 5.2 |
| 840 | 923 | 700(590) | 8 | 5.7 |
| 940 | 1 023 | 800(690) | 9 | 6.3 |

Notes (1) Too deep a fixing thread depth of the mounting bolt may affect the running performance of the slide table, so never insert a bolt longer than the depth of the tapped hole.

(2) The value indicates the allowable stroke when limit sensors are mounted. The value in () represents dimension for two slide tables in close contact.

(3) The value shows the mass of the entire table with one slide table, and it is 0.3kg heavier with two slide tables.

TE86BF (Motor inline specification)



A-A Sectional dimension

unit: mm

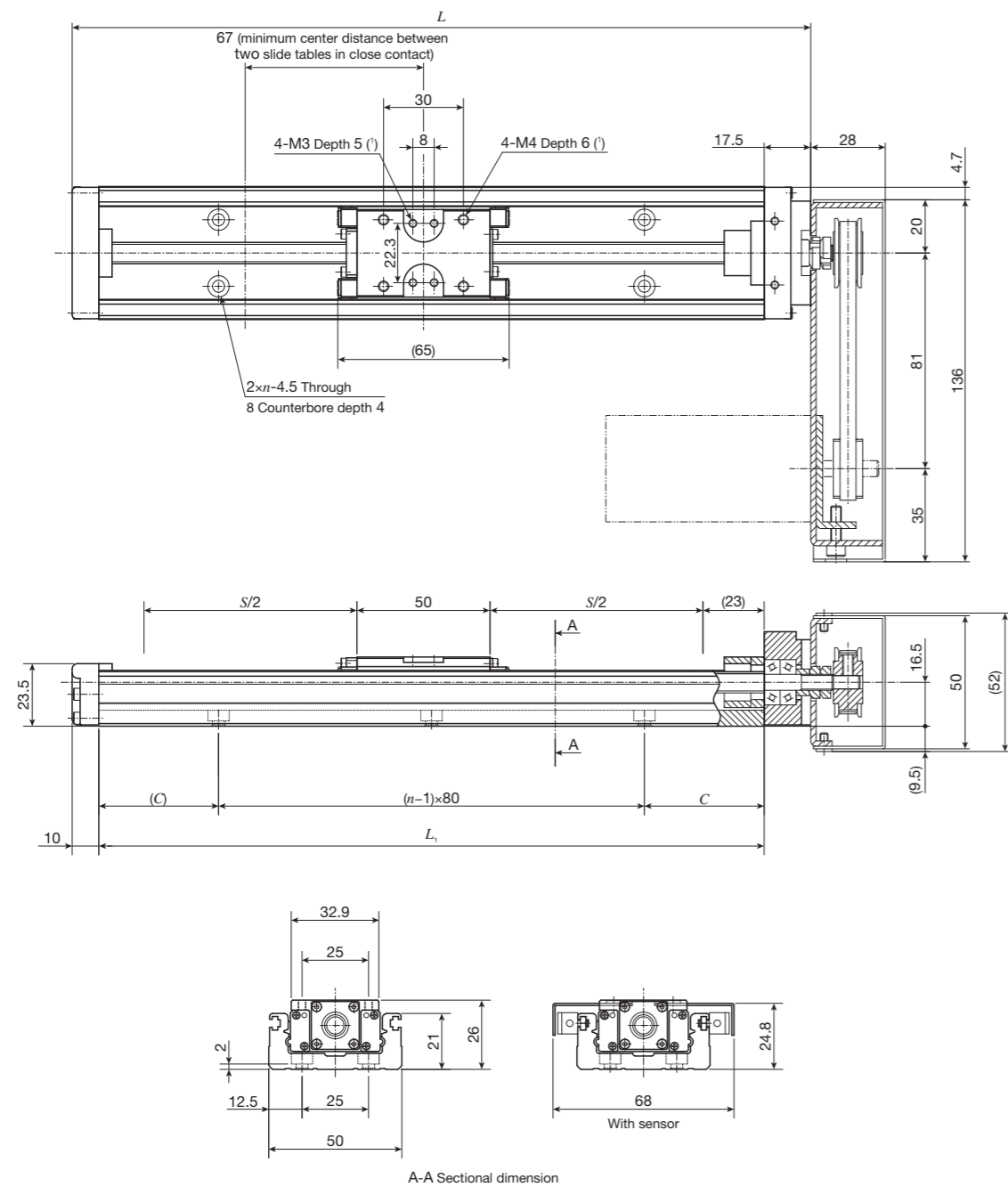
| Bed length | Overall length | Stroke length | Mounting holes of bed | Mass(Ref.) |
|------------|----------------|---------------|-----------------------|-------------------|
| L_1 | L | $S^{(1)}$ | n | kg ⁽²⁾ |
| 340 | 423 | 200(90) | 3 | 3.7 |
| 440 | 523 | 300(190) | 4 | 4.3 |
| 540 | 623 | 400(290) | 5 | 4.9 |
| 640 | 723 | 500(390) | 6 | 5.5 |
| 740 | 823 | 600(490) | 7 | 6.1 |
| 840 | 923 | 700(590) | 8 | 6.7 |
| 940 | 1 023 | 800(690) | 9 | 7.2 |

Notes (1) The value indicates the allowable stroke when limit sensors are mounted. The value in () represents dimension for two slide tables in close contact.

(2) The value shows the mass of the entire table with one slide table, and it is 0.6kg heavier with two slide tables.

IKO Precision Positioning Table TE

TE50BS (Motor folding back specification)



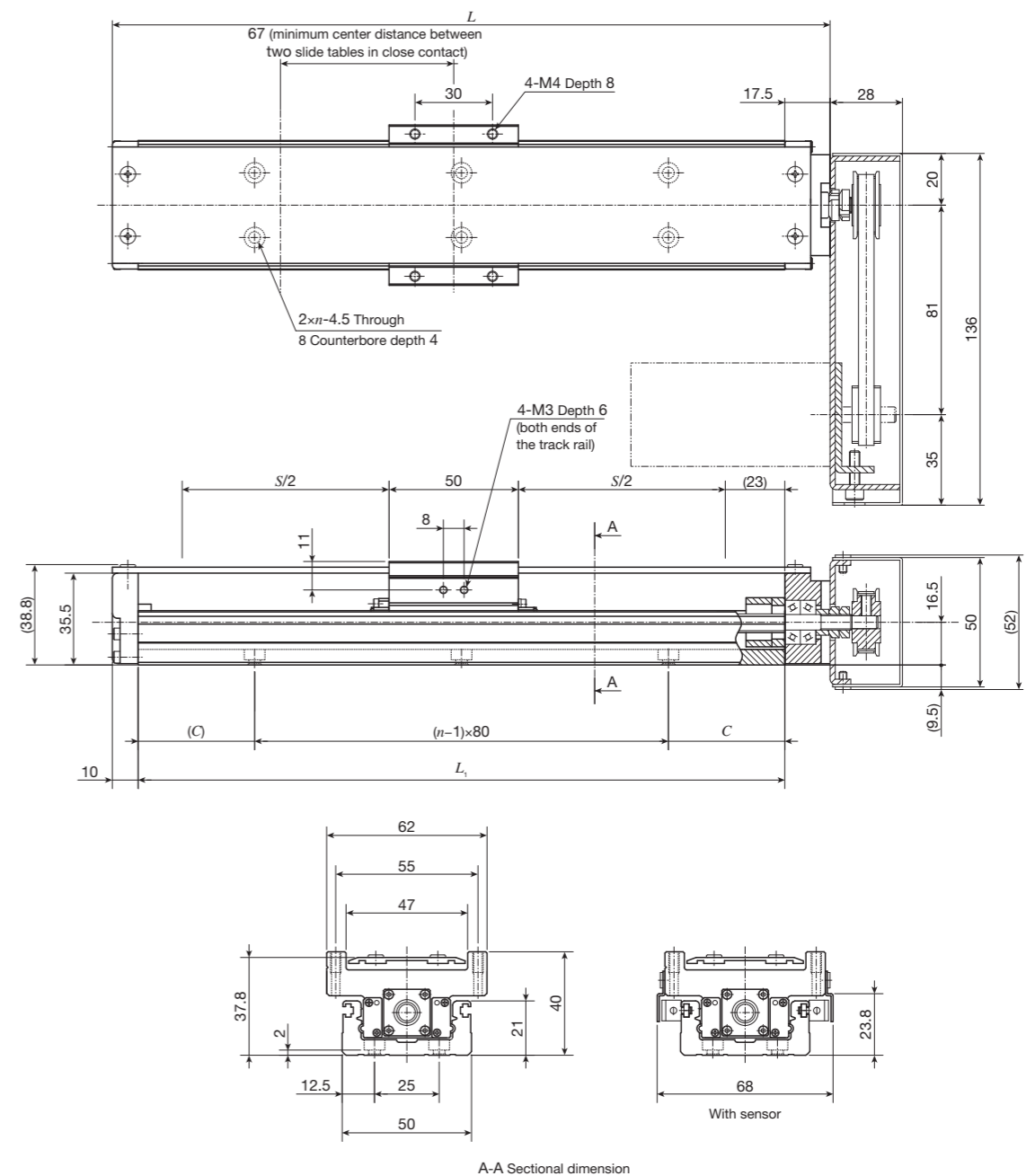
unit: mm

| Bed length | Overall length | Stroke length | Mounting holes of bed | | Mass (Ref.) |
|------------|----------------|---------------|-----------------------|-----|-------------------|
| L_1 | L | $S^{(1)}$ | C | n | kg ⁽²⁾ |
| 150 | 177.5 | 60(-) | 35 | 2 | 0.72 |
| 200 | 227.5 | 110(40) | 20 | 3 | 0.82 |
| 250 | 277.5 | 160(90) | 45 | 3 | 0.92 |
| 300 | 327.5 | 210(140) | 30 | 4 | 1.02 |
| 400 | 427.5 | 310(240) | 40 | 5 | 1.22 |
| 500 | 527.5 | 410(340) | 10 | 7 | 1.42 |

Note (1) Too deep insertion depth of the mounting bolt may affect the running performance of the slide table, so never insert a bolt longer than the depth of the through hole.
 (2) The value indicates the allowable stroke when limit sensors are mounted. The value in () represents dimension for two slide tables in close contact.
 (3) The value shows the mass of the entire table with one slide table, and it is 0.07kg heavier with two slide tables.

Remarks 1. Parts for motor attachment are appended, and this figure indicates a finished state after assembled by the customer.
 2. If folded back to right and left, motor attachment is about 9.5mm lower than the bottom of the bed. In addition, it is about 2.5 to 3.5mm lower than the bottom of the bed if AC Servomotor is mounted by customers, and about 4.5mm lower if stepper motor is mounted.
 3. If folded back upward, motor attachment is about 3.5mm lower than the bottom of the bed.

TE50BF (Motor folding back specification)



unit: mm

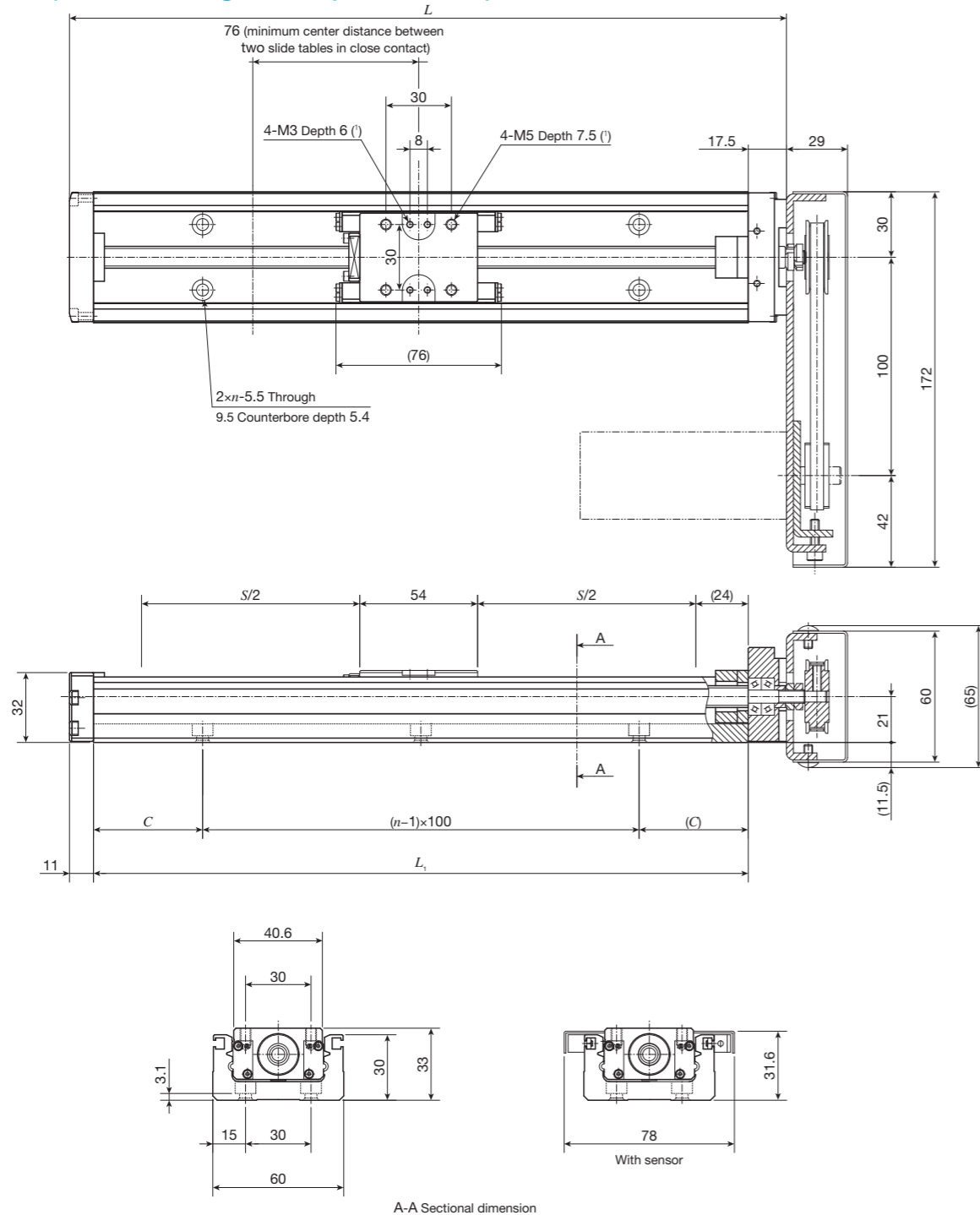
| Bed length | Overall length | Stroke length | Mounting holes of bed | | Mass (Ref.) |
|------------|----------------|---------------|-----------------------|-----|-------------------|
| L_1 | L | $S^{(1)}$ | C | n | kg ⁽²⁾ |
| 150 | 177.5 | 60(-) | 35 | 2 | 0.85 |
| 200 | 227.5 | 110(40) | 20 | 3 | 0.95 |
| 250 | 277.5 | 160(90) | 45 | 3 | 1.05 |
| 300 | 327.5 | 210(140) | 30 | 4 | 1.15 |
| 400 | 427.5 | 310(240) | 40 | 5 | 1.35 |
| 500 | 527.5 | 410(340) | 10 | 7 | 1.55 |

Note (1) The value indicates the allowable stroke when limit sensors are mounted. The value in () represents dimension for two slide tables in close contact.
 (2) The value shows the mass of the entire table with one slide table, and it is 0.16kg heavier with two slide tables.

Remarks 1. Parts for motor attachment are appended, and this figure indicates a finished state after assembled by the customer.
 2. If folded back to right and left, motor attachment is about 9.5mm lower than the bottom of the bed. In addition, it is about 2.5 to 3.5mm lower than the bottom of the bed if AC Servomotor is mounted by customers, and about 4.5mm lower if stepper motor is mounted.
 3. If folded back upward, motor attachment is about 3.5mm lower than the bottom of the bed.

IKO Precision Positioning Table TE

TE60BS (Motor folding back specification)



| Bed length | Overall length | Stroke length | Mounting holes of bed | | Mass (Ref.) |
|------------|----------------|---------------|-----------------------|-----|-------------------|
| L_1 | L | $S^{(1)}$ | C | n | kg ⁽²⁾ |
| 150 | 178.5 | 50(-) | 25 | 2 | 1.2 |
| 200 | 228.5 | 100(-) | 50 | 2 | 1.3 |
| 300 | 328.5 | 200(125) | 50 | 3 | 1.6 |
| 400 | 428.5 | 300(225) | 50 | 4 | 1.9 |
| 500 | 528.5 | 400(325) | 50 | 5 | 2.2 |
| 600 | 628.5 | 500(425) | 50 | 6 | 2.5 |
| 700 | 728.5 | 600(525) | 50 | 7 | 2.8 |

Note (1) Too deep insertion depth of the mounting bolt may affect the running performance of the slide table, so never insert a bolt longer than the depth of the through hole.

(2) The value indicates the allowable stroke when limit sensors are mounted. The value in () represents dimension for two slide tables in close contact.

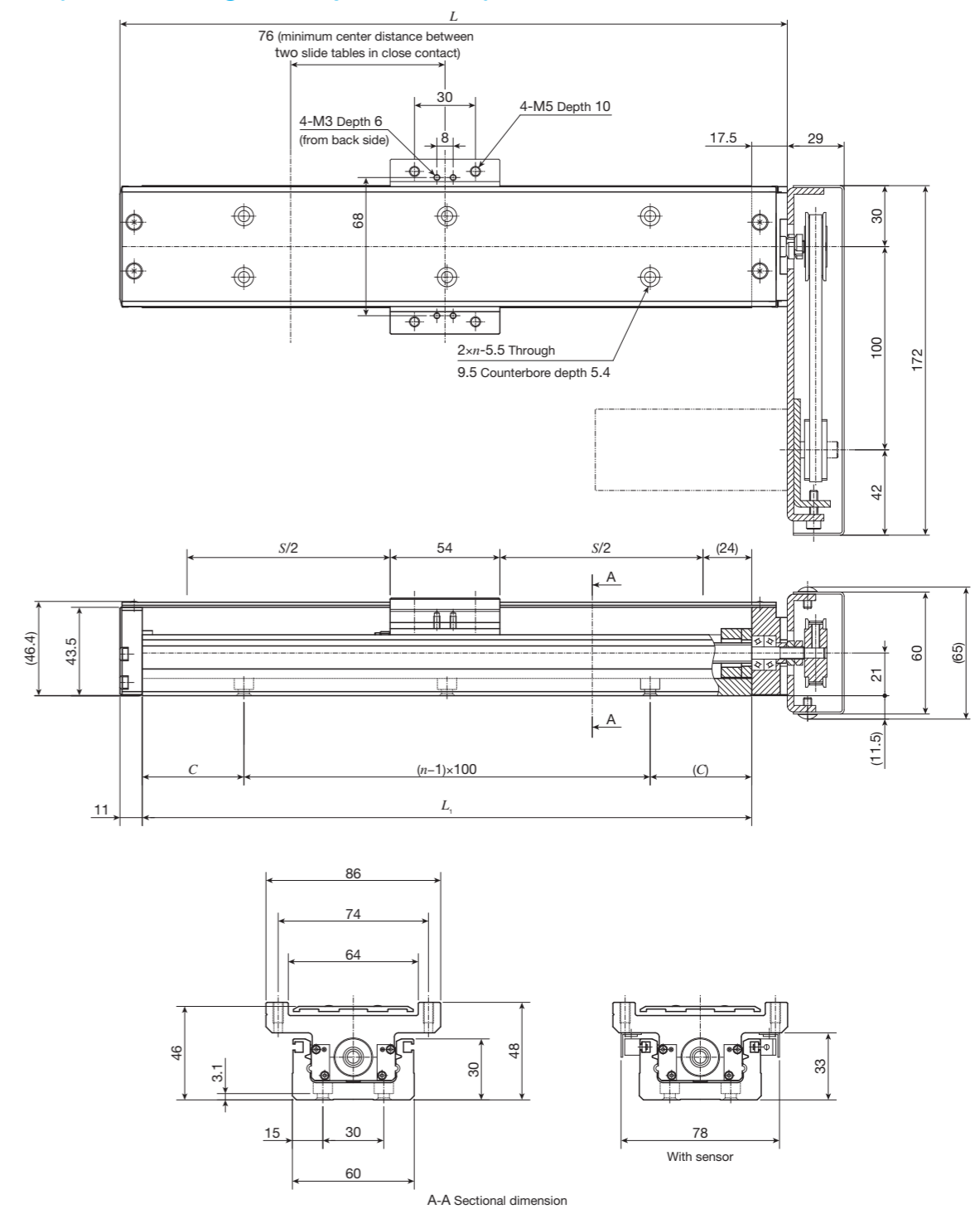
(3) The value shows the mass of the entire table with one slide table, and it is 0.1kg heavier with two slide tables.

Remarks 1. Parts for motor attachment are appended, and this figure indicates a finished state after assembled by the customer.

2. If folded back to right and left, motor attachment is about 11.5mm lower than the bottom of the bed.

3. If folded back upward, motor attachment is about 9mm lower than the bottom of the bed.

TE60BF (Motor folding back specification)



| Bed length | Overall length | Stroke length | Mounting holes of bed | | Mass (Ref.) |
|------------|----------------|---------------|-----------------------|-----|-------------------|
| L_1 | L | $S^{(1)}$ | C | n | kg ⁽²⁾ |
| 150 | 178.5 | 50(-) | 25 | 2 | 1.4 |
| 200 | 228.5 | 100(-) | 50 | 2 | 1.5 |
| 300 | 328.5 | 200(125) | 50 | 3 | 1.8 |
| 400 | 428.5 | 300(225) | 50 | 4 | 2.2 |
| 500 | 528.5 | 400(325) | 50 | 5 | 2.5 |
| 600 | 628.5 | 500(425) | 50 | 6 | 2.8 |
| 700 | 728.5 | 600(525) | 50 | 7 | 3.1 |

Note (1) The value indicates the allowable stroke when limit sensors are mounted. The value in () represents dimension for two slide tables in close contact.

(2) The value shows the mass of the entire table with one slide table, and it is 0.2kg heavier with two slide tables.

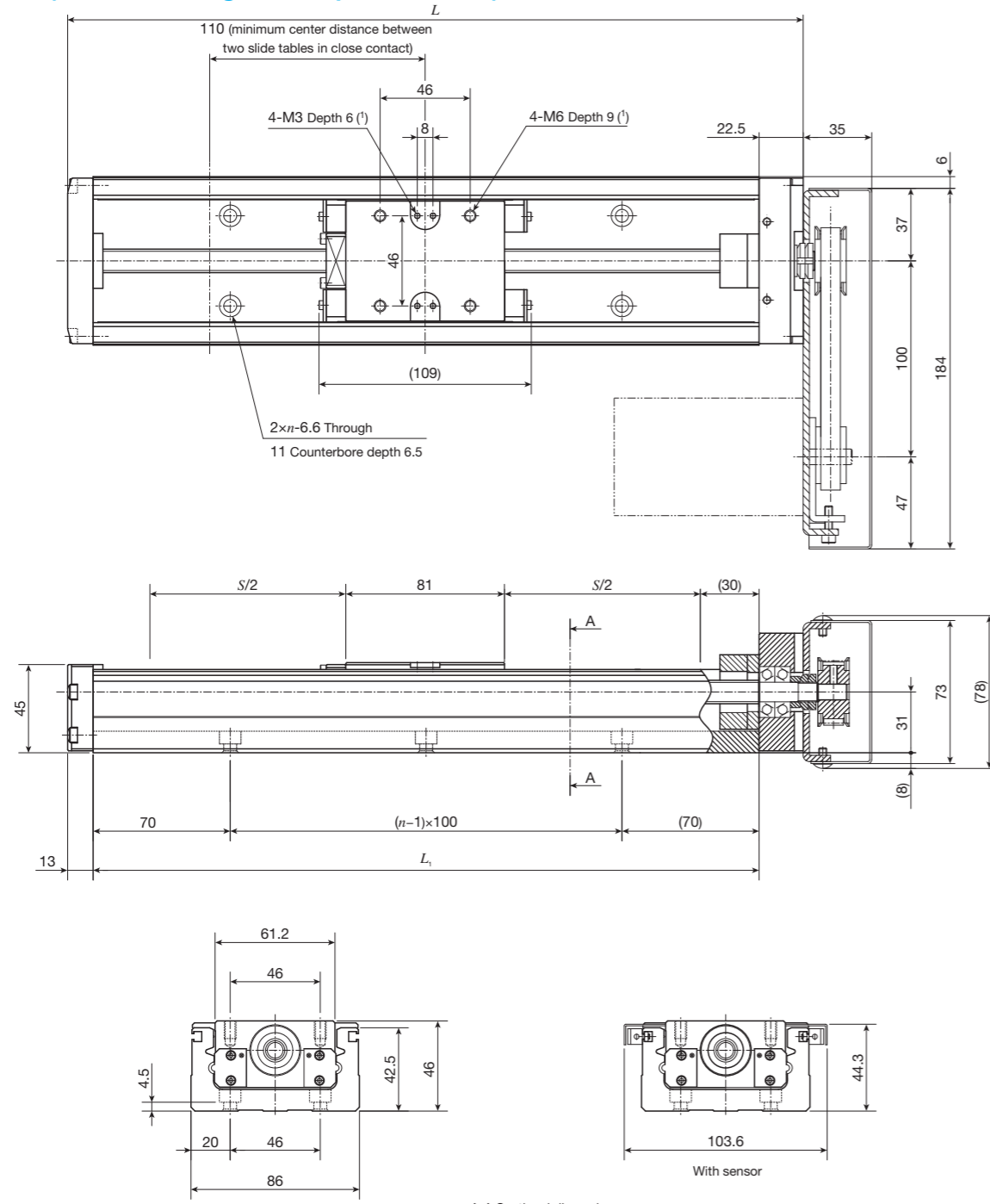
Remarks 1. Parts for motor attachment are appended, and this figure indicates a finished state after assembled by the customer.

2. If folded back to right and left, motor attachment is about 11.5mm lower than the bottom of the bed.

3. If folded back upward, motor attachment is about 9mm lower than the bottom of the bed.

IKO Precision Positioning Table TE

TE86BS (Motor folding back specification)



A-A Sectional dimension

unit: mm

| Bed length | Overall length | Stroke length | Mounting holes of bed | Mass(Ref.) |
|------------|----------------|---------------|-----------------------|-------------------|
| L_1 | L | $S^{(2)}$ | n | kg ⁽³⁾ |
| 340 | 375.5 | 200(90) | 3 | 4.0 |
| 440 | 475.5 | 300(190) | 4 | 4.6 |
| 540 | 575.5 | 400(290) | 5 | 5.1 |
| 640 | 675.5 | 500(390) | 6 | 5.6 |
| 740 | 775.5 | 600(490) | 7 | 6.1 |
| 840 | 875.5 | 700(590) | 8 | 6.6 |
| 940 | 975.5 | 800(690) | 9 | 7.2 |

Notes (1) Too deep a fixing thread depth of the mounting bolt may affect the running performance of the slide table, so never insert a bolt longer than the depth of the tapped hole.

(2) The value indicates the allowable stroke when limit sensors are mounted. The value in () represents dimension for two slide tables in close contact.

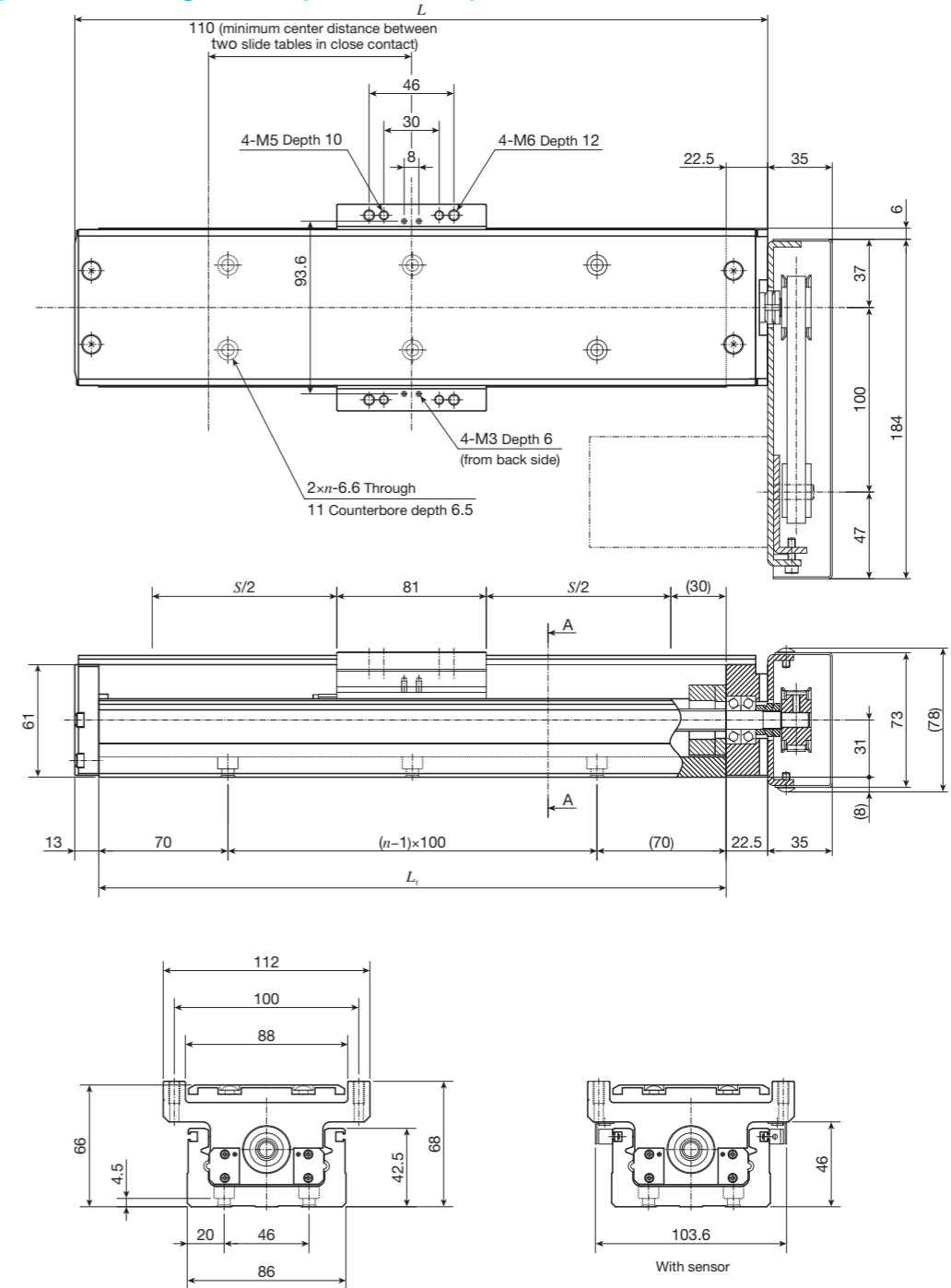
(3) The value shows the mass of the entire table with one slide table, and it is 0.3kg heavier with two slide tables.

Remarks 1. Parts for motor attachment are appended, and this figure indicates a finished state after assembled by the customer.

2. If folded back to right and left, motor attachment is about 8mm lower than the bottom of the bed.

3. If folded back upward, motor attachment is about 6mm lower than the bottom of the bed.

TE86BF (Motor folding back specification)



A-A Sectional dimension

unit: mm

| Bed length | Overall length | Stroke length | Mounting holes of bed | Mass(Ref.) |
|------------|----------------|---------------|-----------------------|-------------------|
| L_1 | L | $S^{(1)}$ | n | kg ⁽²⁾ |
| 340 | 375.5 | 200(90) | 3 | 4.6 |
| 440 | 475.5 | 300(190) | 4 | 5.2 |
| 540 | 575.5 | 400(290) | 5 | 5.8 |
| 640 | 675.5 | 500(390) | 6 | 6.4 |
| 740 | 775.5 | 600(490) | 7 | 7.0 |
| 840 | 875.5 | 700(590) | 8 | 7.6 |
| 940 | 975.5 | 800(690) | 9 | 8.1 |

Notes (1) The value indicates the allowable stroke when limit sensors are mounted. The value in () represents dimension for two slide tables in close contact.

(2) The value shows the mass of the entire table with one slide table, and it is 0.6kg heavier with two slide tables.

Remarks 1. Parts for motor attachment are appended, and this figure indicates a finished state after assembled by the customer.

2. If folded back to right and left, motor attachment is about 8mm lower than the bottom of the bed.

3. If folded back upward, motor attachment is about 6mm lower than the bottom of the bed.