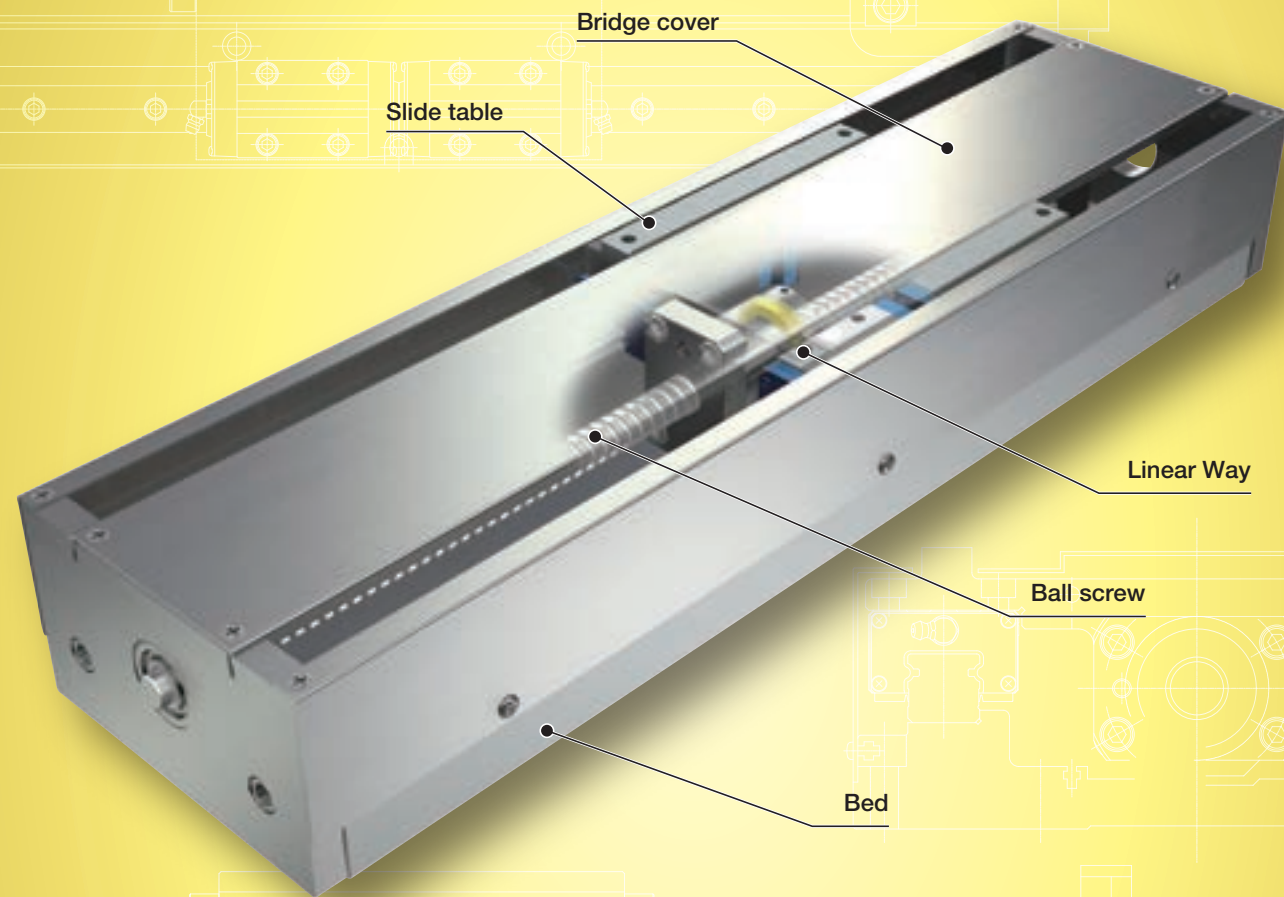
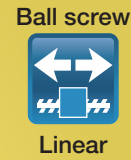


TSL...M

TSL...M

TSL...M



Major product specifications

| | |
|-----------------------------|---------------------------------------|
| Driving method | Precision ball screw |
| Linear motion rolling guide | Linear Way (ball type) |
| Built-in lubrication part | Lubrication part "C-Lube" is built-in |
| Material of table and bed | High-strength aluminum alloy |
| Sensor | Provided as standard |

Accuracy

| | |
|-------------------------------|-------------|
| Positioning repeatability | ±0.002 |
| Positioning accuracy | 0.015~0.060 |
| Lost motion | - |
| Parallelism in table motion A | - |
| Parallelism in table motion B | 0.020~0.070 |
| Attitude accuracy | - |
| Straightness | - |
| Backlash | 0.003 |

unit: mm

Points

● Light weight and long stroke positioning table

1 Light weight and long stroke positioning table configured with the slide table and bed made from high-strength aluminum alloy.

● Stable high running accuracy and positioning accuracy

2 High running accuracy and high accuracy positioning are realized by incorporating 2 sets of Linear Way in parallel, and combining with precision ball screws.

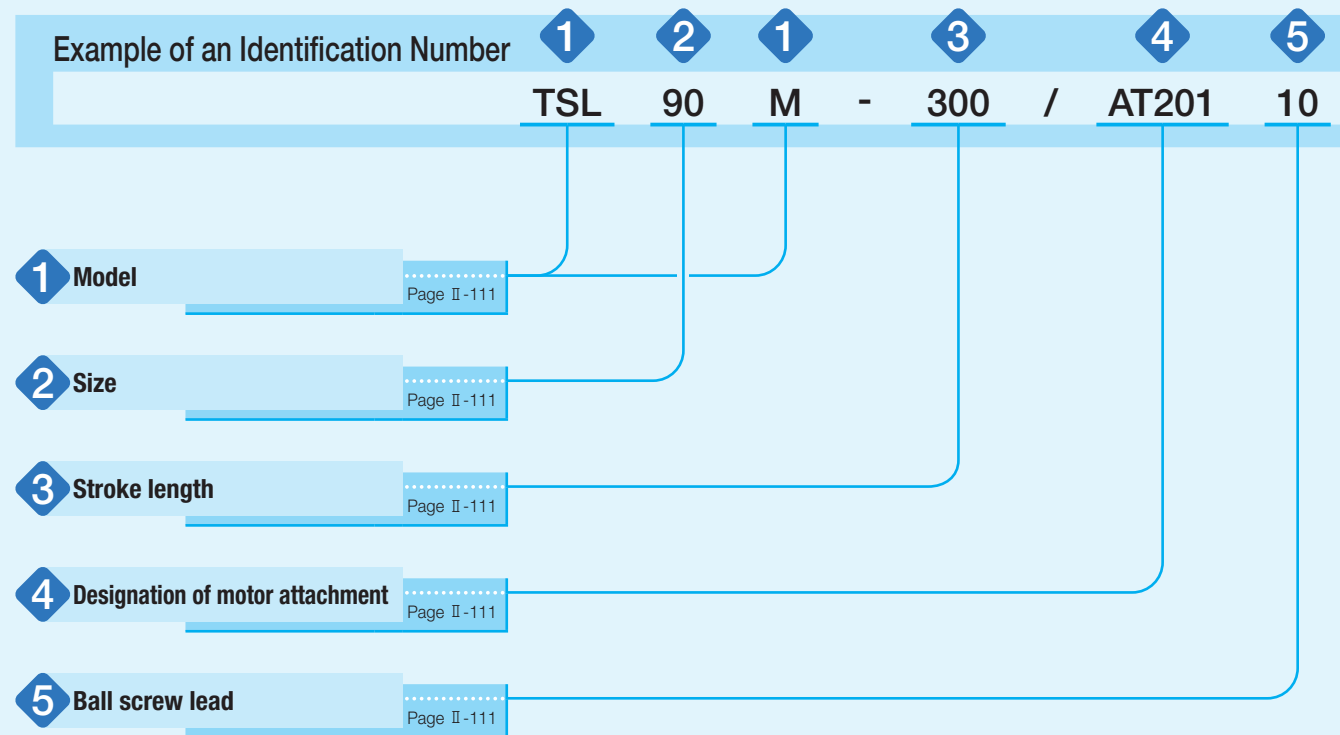
● Configuration of multiaxis system available with XY bracket

3 A series of four sizes from 90mm to 220mm (table width) is available. Multiaxis configuration can be easily realized with XY bracket.

Variation

| Shape | Model and size | Table width (mm) | Stroke length (mm) | | | | | | | | | | |
|-------|----------------|------------------|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| | | | 50 | 100 | 150 | 200 | 250 | 300 | 400 | 500 | 600 | 800 | 1 000 |
| 90mm | TSL 90 M | 90 | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | - | - | - | - | - |
| 120mm | TSL120 M | 120 | - | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | - | - |
| 170mm | TSL170 M | 170 | - | - | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | - | - | - |
| 170mm | TSL170SM | 170 | - | - | - | - | - | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ |
| 220mm | TSL220 M | 220 | - | - | - | - | - | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ |

Identification Number



Identification Number and Specification

- 1 Model** TSL...M: Precision Positioning Table L
- 2 Size** Size indicates table width. Select a size from the list of Table 1.
- 3 Stroke length** Select a stroke length from the list of Table 1.

Table 1 Sizes, table width dimensions, and stroke lengths unit: mm

| Model and size | Table width | Stroke length |
|----------------|-------------|--|
| TSL 90 M | 90 | 50, 100, 150, 200, 250, 300 |
| TSL120 M | 120 | 100, 150, 200, 250, 300, 400, 500, 600 |
| TSL170 M | 170 | 150, 200, 250, 300, 400, 500 |
| TSL170S M | 170 | 300, 400, 500, 600, 800, 1 000 |
| TSL220 M | 220 | 300, 400, 500, 600, 800, 1 000 |

- 4 Designation of motor attachment** As for a motor attachment, select it from the list of Table 2.
 - Motor should be prepared by customer.
 - Please specify motor attachment applicable to motor for use.
 - A coupling shown in Table 3 is mounted on the main body before shipment. However, the final position adjustment should be performed by customer since it is only temporarily fixed.
 - When specifying an AC servomotor attachment, an origin sensor is not provided.

- 5 Ball screw lead**
 - 5: Lead 5mm
 - 10: Lead 10mm

Identification Number and Specification

Table 2 Application of motor attachment

| Type | Models of motor to be used | | | | Flange size mm | Motor attachment | | | |
|---|---------------------------------|----------|----------------------|----------------|----------------|------------------|---------|----------|---------|
| | Manufacturer | Series | Model | Rated output W | | TSL 90M TSL170M | TSL120M | TSL170SM | TSL220M |
| AC servo motor | YASKAWA ELECTRIC CORPORATION | Σ-7 | SGM7J-01A | 100 | □40 | AT201 | AT201 | — | — |
| | | | SGM7A-01A | | | AT201 | AT201 | — | — |
| | | | SGM7J-02A | 200 | □60 | — | — | AT202 | AT202 |
| | | | SGM7A-02A | | | — | — | AT202 | AT202 |
| | Mitsubishi Electric Corporation | J4/J5 | HG-MR13 | 100 | □40 | AT201 | AT201 | — | — |
| | | | HG-KR13/HK-KT13W | | | AT201 | AT201 | — | — |
| | | | HG-MR23 | 200 | □60 | — | — | AT202 | AT202 |
| | | | HG-KR23/HK-KT23W | | | — | — | AT202 | AT202 |
| | Panasonic Corporation | MINAS A6 | MSMF01 | 100 | □38 | AT203 | AT203 | — | — |
| | | | MSMF02 | 200 | □60 | — | — | AT204 | AT204 |
| Hitachi Industrial Equipment Systems Co., Ltd | AD | ADMA-01L | 100 | □40 | AT201 | AT201 | — | — | |
| | | ADMA-02L | 200 | □60 | — | — | AT202 | AT202 | |
| Stepper motor | ORIENTAL MOTOR Co., Ltd. | α step | ARM66 | — | □60 | AT205 | AT206 | — | — |
| | | | ARM69 | | | AT205 | AT206 | — | — |
| | | | ARM98 | | | — | — | AT207 | AT210 |
| | | | ARM911 | | | — | — | AT207 | AT210 |
| | | RKS | CRK56 ⁽¹⁾ | □60 | AT208 | AT209 | — | — | |
| | | CRK | RKS59 | □85 | — | — | AT207 | AT210 | |

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 Coupling models

| Motor attachment | Coupling models | Manufacturer | Coupling inertia J_c ×10 ⁻⁹ kg·m ² |
|------------------|-----------------|------------------------------|---|
| AT201 | UA-25C- 8× 8 | Sakai Manufacturing Co., Ltd | 0.29 |
| AT202 | UA-35C-12×14 | Sakai Manufacturing Co., Ltd | 1.34 |
| AT203 | UA-25C- 8× 8 | Sakai Manufacturing Co., Ltd | 0.29 |
| AT204 | UA-35C-11×12 | Sakai Manufacturing Co., Ltd | 1.34 |
| AT205 | MSTS-25C- 8×10 | Nabeya Bi-tech Kaisha | 0.71 |
| AT206 | MSTS-25C- 8×10 | Nabeya Bi-tech Kaisha | 0.71 |
| AT207 | MSTS-32C-12×14 | Nabeya Bi-tech Kaisha | 2.70 |
| AT208 | MSTS-20C- 8× 8 | Nabeya Bi-tech Kaisha | 0.25 |
| AT209 | MSTS-25C- 8× 8 | Nabeya Bi-tech Kaisha | 0.71 |
| AT210 | MSTS-32C-12×14 | Nabeya Bi-tech Kaisha | 2.70 |

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

Specifications

Table 4 Accuracy

unit: mm

| Model and size | Stroke length | Positioning repeatability | Positioning accuracy | Parallelism in table motion B | Backlash |
|----------------------|---------------|---------------------------|----------------------|-------------------------------|----------|
| TSL 90 M | 50 | ±0.002 | 0.015 | 0.020 | 0.003 |
| | 100 | | 0.020 | 0.030 | |
| | 150 | | 0.025 | | |
| | 200 | | | | |
| | 250 | | | | |
| 300 | 0.030 | 0.040 | | | |
| TSL120 M | 100 | ±0.002 | 0.020 | 0.030 | 0.003 |
| | 150 | | 0.025 | | |
| | 200 | | | | |
| | 250 | | 0.030 | 0.040 | |
| | 300 | | | | |
| | 400 | | 0.040 | 0.050 | |
| | 500 | | 0.045 | | |
| 600 | 0.050 | 0.070 | | | |
| TSL170 M | 150 | ±0.002 | 0.020 | 0.030 | 0.003 |
| | 200 | | 0.025 | | |
| | 250 | | | | |
| | 300 | | 0.030 | 0.050 | |
| | 400 | | 0.040 | | |
| 500 | 0.045 | | | | |
| TSL170SM TSL220 M | 300 | ±0.002 | 0.030 | 0.040 | 0.003 |
| | 400 | | 0.040 | 0.050 | |
| | 500 | | | | |
| | 600 | | 0.050 | 0.070 | |
| | 800 | | | | |
| 1 000 | 0.060 | | | | |

Table 5 Maximum speed

| Motor type | Model and size | Stroke length mm | Maximum speed mm/s | |
|---------------|---|------------------|--------------------|-----------|
| | | | Lead 5mm | Lead 10mm |
| AC Servomotor | TSL 90 M | — | 500 | 1000 |
| | TSL120 M | 500 or less | 370 | 750 |
| | | 600 | 370 | 720 |
| | TSL170 M | — | 370 | 750 |
| | TSL170 SM | 800 or less | 280 | 560 |
| TSL220 M | 1000 | 190 | 390 | |
| Stepper motor | TSL 90 M TSL120 M TSL170 M TSL170 SM TSL220 M | — | 150 | 300 |

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 6 Maximum carrying mass

| Model and size | Ball screw lead mm | Carrying mass position mm Height H | Length L | Maximum carrying mass kg | | | | | | | |
|----------------|--------------------|---------------------------------------|----------|--------------------------|-----|-----|-----|--------------------|-----|-----|-----|
| | | | | Horizontal direction | | | | Vertical direction | | | |
| | | | | 0 | 100 | 200 | 300 | 0 | 100 | 200 | 300 |
| TSL 90 M | 5 | 0 | 46 | 20 | 11 | 8 | 7 | 7 | 7 | 7 | |
| | | 100 | 46 | 20 | 11 | 8 | 7 | 7 | 7 | 7 | |
| | | 200 | 46 | 20 | 11 | 8 | 7 | 7 | 7 | 7 | |
| | 10 | 300 | 46 | 20 | 11 | 8 | 7 | 7 | 6 | 5 | |
| | | 0 | 26 | 16 | 9 | 6 | 4.7 | 4.7 | 4.7 | 4.7 | |
| | | 100 | 26 | 15 | 9 | 6 | 4.7 | 4.7 | 4.7 | 4.7 | |
| TSL120 M | 5 | 200 | 26 | 14 | 8 | 6 | 4.7 | 4.7 | 4.7 | 4.7 | |
| | | 300 | 26 | 13 | 8 | 6 | 4.7 | 4.7 | 4.7 | 4.4 | |
| | | 0 | 195 | 144 | 84 | 59 | 18 | 18 | 18 | 18 | |
| | 10 | 100 | 195 | 143 | 83 | 59 | 18 | 18 | 18 | 18 | |
| | | 200 | 195 | 140 | 83 | 58 | 18 | 18 | 18 | 18 | |
| | | 300 | 195 | 136 | 82 | 58 | 18 | 18 | 18 | 18 | |
| TSL170 M | 5 | 0 | 97 | 97 | 63 | 44 | 18 | 18 | 18 | 18 | |
| | | 100 | 97 | 97 | 63 | 44 | 18 | 18 | 18 | 18 | |
| | | 200 | 97 | 97 | 61 | 44 | 18 | 18 | 18 | 18 | |
| | 10 | 300 | 97 | 92 | 59 | 43 | 18 | 18 | 18 | 18 | |
| | | 0 | 195 | 174 | 104 | 74 | 18 | 18 | 18 | 18 | |
| | | 100 | 195 | 171 | 103 | 74 | 18 | 18 | 18 | 18 | |
| TSL170SM | 5 | 200 | 195 | 166 | 102 | 73 | 18 | 18 | 18 | 18 | |
| | | 300 | 195 | 160 | 101 | 73 | 18 | 18 | 18 | 18 | |
| | | 0 | 97 | 97 | 78 | 55 | 17 | 17 | 17 | 17 | |
| | 10 | 100 | 97 | 97 | 77 | 55 | 17 | 17 | 17 | 17 | |
| | | 200 | 97 | 97 | 74 | 54 | 17 | 17 | 17 | 17 | |
| | | 300 | 97 | 97 | 70 | 52 | 17 | 17 | 17 | 17 | |
| TSL220 M | 5 | 0 | 218 | 191 | 117 | 84 | 21 | 21 | 21 | 21 | |
| | | 100 | 218 | 190 | 117 | 84 | 21 | 21 | 21 | 21 | |
| | | 200 | 218 | 188 | 116 | 84 | 21 | 21 | 21 | 21 | |
| | 10 | 300 | 218 | 186 | 116 | 84 | 21 | 21 | 21 | 21 | |
| | | 0 | 113 | 113 | 90 | 65 | 20 | 20 | 20 | 20 | |
| | | 100 | 113 | 113 | 89 | 64 | 20 | 20 | 20 | 20 | |
| TSL220 M | 5 | 200 | 113 | 113 | 88 | 64 | 20 | 20 | 20 | 20 | |
| | | 300 | 113 | 113 | 86 | 63 | 20 | 20 | 20 | 20 | |
| | | 0 | 226 | 226 | 226 | 226 | 19 | 19 | 19 | 19 | |
| | 10 | 100 | 226 | 226 | 226 | 226 | 19 | 19 | 19 | 19 | |
| | | 200 | 226 | 226 | 226 | 225 | 19 | 19 | 19 | 19 | |
| | | 300 | 226 | 226 | 226 | 225 | 19 | 19 | 19 | 19 | |
| TSL220 M | 5 | 0 | 111 | 111 | 111 | 111 | 18 | 18 | 18 | 18 | |
| | | 100 | 111 | 111 | 111 | 111 | 18 | 18 | 18 | 18 | |
| | | 200 | 111 | 111 | 111 | 111 | 18 | 18 | 18 | 18 | |
| | 10 | 300 | 111 | 111 | 111 | 111 | 18 | 18 | 18 | 18 | |
| | | 0 | 111 | 111 | 111 | 111 | 18 | 18 | 18 | 18 | |
| | | 100 | 111 | 111 | 111 | 111 | 18 | 18 | 18 | 18 | |

Remark: The maximum carrying mass is adjusted by the mass when the rating life of the linear motion rolling guide, ball screws, or bearings is 18,000 hours during continuous operation at a number of revolutions of the motor of 3000min⁻¹ and an acceleration/deceleration time of 0.2s. The mass calculated is based upon the basic static load rating of the linear motion rolling guide.

Table 7 Maximum load mass

| Model and size | Ball screw lead mm | Maximum load mass kg | |
|----------------|--------------------|----------------------|--------------------|
| | | Horizontal direction | Vertical direction |
| TSL 90 M | 5 | 169 | 42 |
| | 10 | 89 | 21 |
| TSL120 M | 5 | 124 | 36 |
| | 10 | 76 | 20 |
| TSL170 M | 5 | 132 | 37 |
| | 10 | 78 | 20 |
| TSL170 SM | 5 | 92 | 41 |
| | 10 | 114 | 36 |
| TSL220 M | 5 | 77 | 36 |
| | 10 | 110 | 35 |

Remarks 1. The maximum load mass shows the mass that ensures acceleration/deceleration of 0.3G.
 2. The values shown in this table were calculated with the motor with the highest rated torque installed, selected from the AC servomotor models listed in Table 2.

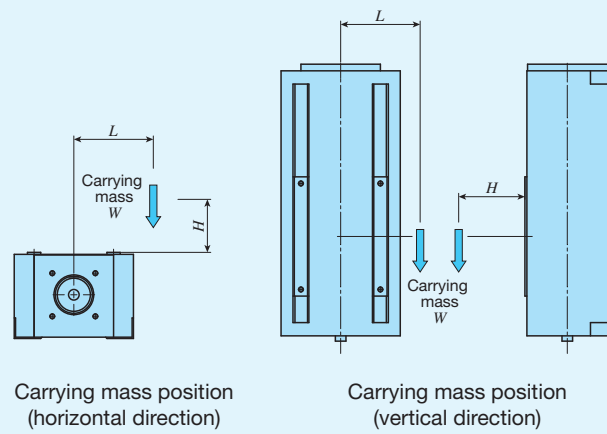
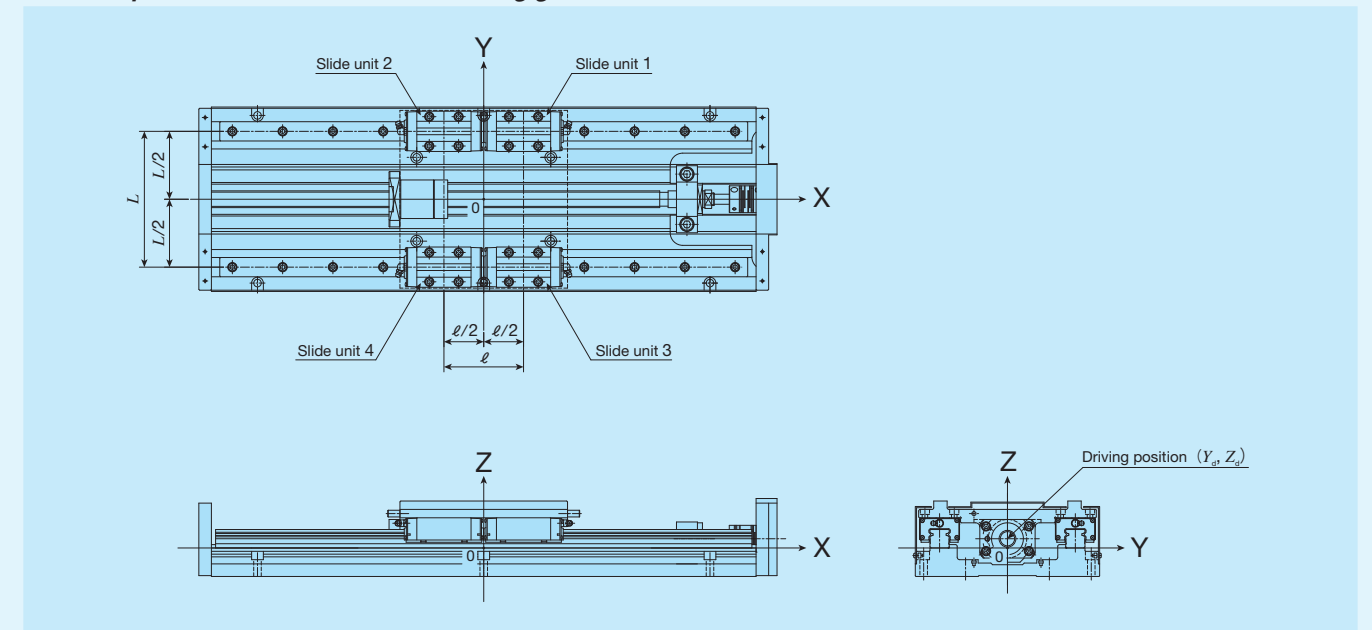


Table 8 Specification of linear motion rolling guide



| Model and size | Basic dynamic load rating ⁽¹⁾ C N | Basic static load rating ⁽¹⁾ C_0 N | Arrangement | | | |
|----------------|--|---|-------------|-----------|-------------|-------------|
| | | | L mm | l mm | Y_d mm | Z_d mm |
| TSL 90 M | 1 810 | 2 760 | 60 | 60 | 0 | -7 |
| TSL120 M | 11 600 | 13 400 | 80 | 66 | 0 | 8 |
| TSL170 M | | | 106 | 66 | 0 | 11 |
| TSL170SM | | | 120 | 130 | 0 | 1 |
| TSL220 M | 25 200 | 28 800 | 162 | 95 | 0 | 11 |

Note ⁽¹⁾ Represent the value per slide unit.

Specifications

Table 9.1 Specifications of ball screw 1

| Model and size | Lead mm | Shaft dia. mm | Axial clearance mm | Basic dynamic load rating C N | Basic static load rating C_0 N |
|----------------|---------|---------------|--------------------|---------------------------------------|--|
| TSL 90 M | 5 | 10 | 0.005 | 1 470 | 2 210 |
| | 10 | | | 1 030 | 1 370 |
| TSL120 M | 5 | 15 | 0.005 | 3 820 | 6 370 |
| TSL170 M | 10 | | | 3 820 | 6 370 |
| TSL170SM | 5 | 20 | 0.005 | 4 460 | 8 580 |
| TSL220 M | 10 | | | 4 460 | 8 580 |

Table 9.2 Specifications of ball screw 2

unit: mm

| Model and size | Stroke length | Shaft dia. | Overall length |
|----------------|---------------|------------|----------------|
| TSL 90 M | 50 | 10 | 179 |
| | 100 | | 229 |
| | 150 | | 279 |
| | 200 | | 329 |
| | 250 | | 379 |
| | 300 | | 429 |
| TSL120 M | 100 | 15 | 273 |
| | 150 | | 323 |
| | 200 | | 373 |
| | 250 | | 423 |
| | 300 | | 473 |
| | 400 | | 573 |
| TSL170 M | 150 | 15 | 289 |
| | 200 | | 339 |
| | 250 | | 389 |
| | 300 | | 439 |
| | 400 | | 539 |
| | 500 | | 639 |
| TSL170SM | 300 | 20 | 545 |
| | 400 | | 645 |
| | 500 | | 745 |
| | 600 | | 845 |
| | 800 | | 1 045 |
| TSL220 M | 1 000 | 20 | 1 245 |
| | 300 | | 545 |
| | 400 | | 645 |
| | 500 | | 745 |
| | 600 | | 845 |
| | 800 | 1 045 | |
| | 1 000 | 1 245 | |

Table 10 Table inertia and starting torque

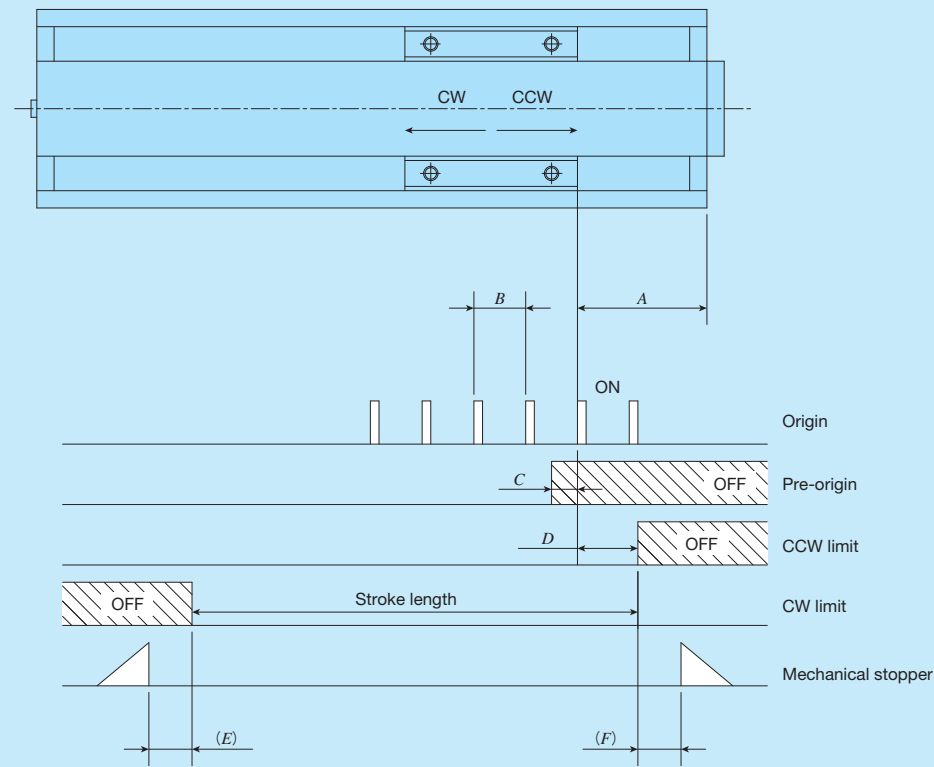
| Model and size | Stroke length mm | Table inertia J_T $\times 10^{-5} \text{kg} \cdot \text{m}^2$ | | Starting torque T_s N · m |
|----------------|------------------|--|-----------|--------------------------------|
| | | Lead 5mm | Lead 10mm | |
| TSL 90 M | 50 | 0.20 | 0.33 | 0.05 |
| | 100 | 0.25 | 0.38 | |
| | 150 | 0.28 | 0.40 | |
| | 200 | 0.33 | 0.45 | |
| | 250 | 0.35 | 0.48 | |
| | 300 | 0.40 | 0.53 | |
| TSL120 M | 100 | 1.3 | 1.7 | 0.06 |
| | 150 | 1.5 | 1.9 | |
| | 200 | 1.7 | 2.1 | |
| | 250 | 1.9 | 2.3 | |
| | 300 | 2.1 | 2.5 | |
| | 400 | 2.4 | 2.9 | |
| TSL170 M | 500 | 2.8 | 3.3 | 0.06 |
| | 600 | 3.2 | 3.7 | |
| | 150 | 1.4 | 1.8 | |
| | 200 | 1.6 | 2.0 | |
| | 250 | 1.8 | 2.2 | |
| | 300 | 2.0 | 2.4 | |
| TSL170S M | 400 | 2.3 | 2.8 | 0.10 |
| | 500 | 2.7 | 3.2 | |
| | 300 | 6.9 | 7.4 | |
| | 400 | 8.1 | 8.6 | |
| | 500 | 9.3 | 9.8 | |
| | 600 | 11 | 11 | |
| TSL220 M | 800 | 13 | 14 | 0.10 |
| | 1 000 | 15 | 16 | |
| | 300 | 7.5 | 8.5 | |
| | 400 | 8.7 | 9.7 | |
| | 500 | 9.9 | 11 | |
| | 600 | 11 | 12 | |
| | 800 | 14 | 15 | |
| | 1 000 | 16 | 17 | |

Mounting

For the processing accuracy of the Precision Positioning Table mounting surface and the tightening torque of the fixing screws, see page III-30.

Sensor Specification

Table 11 Sensor timing chart



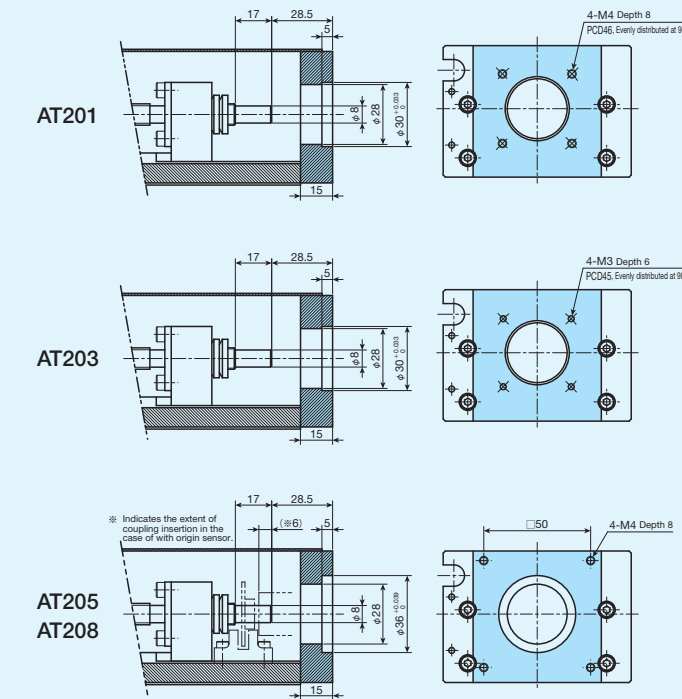
unit: mm

| Model and size | Ball screw lead | A | B | C | D | E | F |
|----------------|-----------------|----|----|---|----|----|----|
| TSL 90 M | 5 | 50 | 5 | 3 | 20 | 5 | 5 |
| | 10 | | 10 | 7 | | | |
| TSL120 M | 5 | 60 | 5 | 3 | 20 | 15 | 15 |
| | 10 | | 10 | 7 | | | |
| TSL170 M | 5 | 45 | 5 | 3 | 20 | 3 | 3 |
| | 10 | | 10 | 7 | | | |
| TSL170SM | 5 | 60 | 5 | 3 | 20 | 5 | 5 |
| | 10 | | 10 | 7 | | | |
| TSL220 M | 5 | 60 | 5 | 3 | 20 | 5 | 5 |
| | 10 | | 10 | 7 | | | |

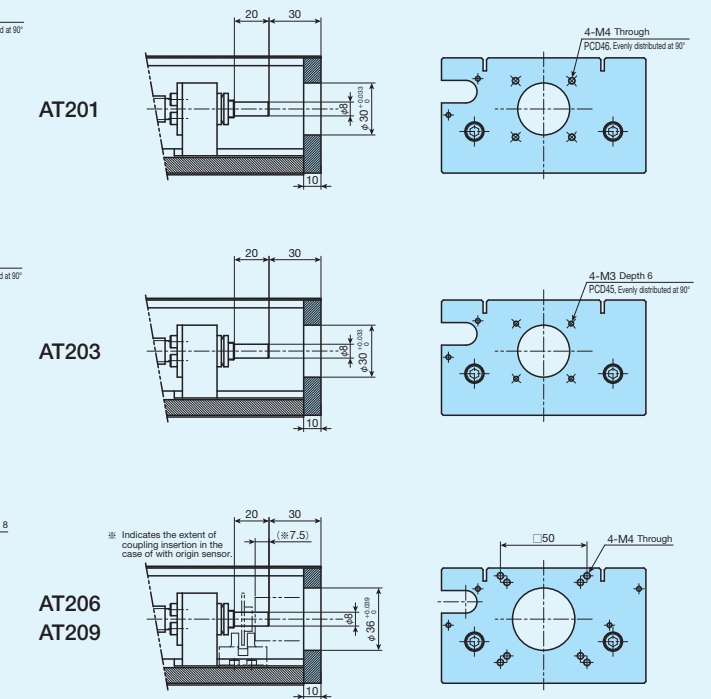
Remark: For detailed specifications of respective sensors, please see the section of sensor specification in General Explanation.

Dimensions of Motor Attachment

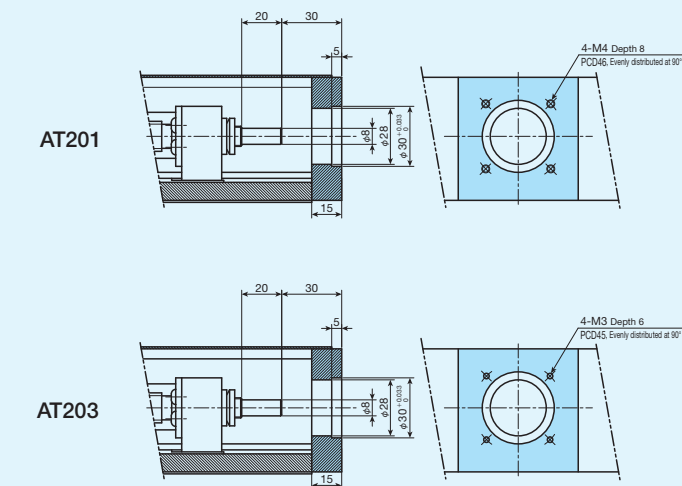
TSL90M



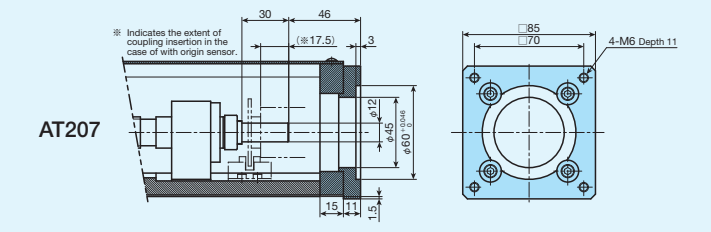
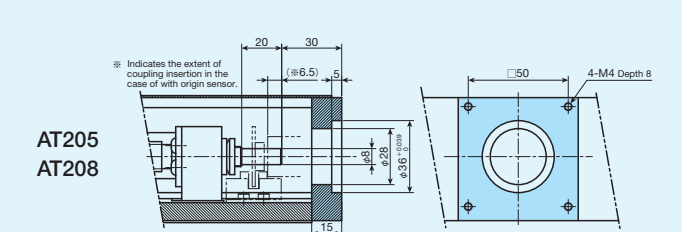
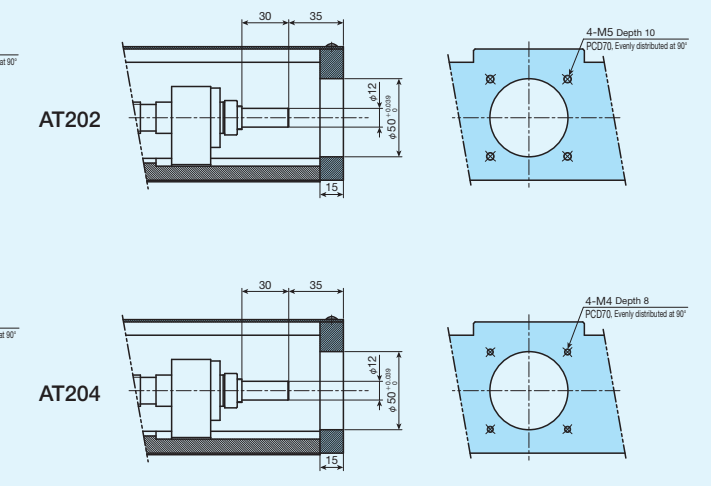
TSL120M



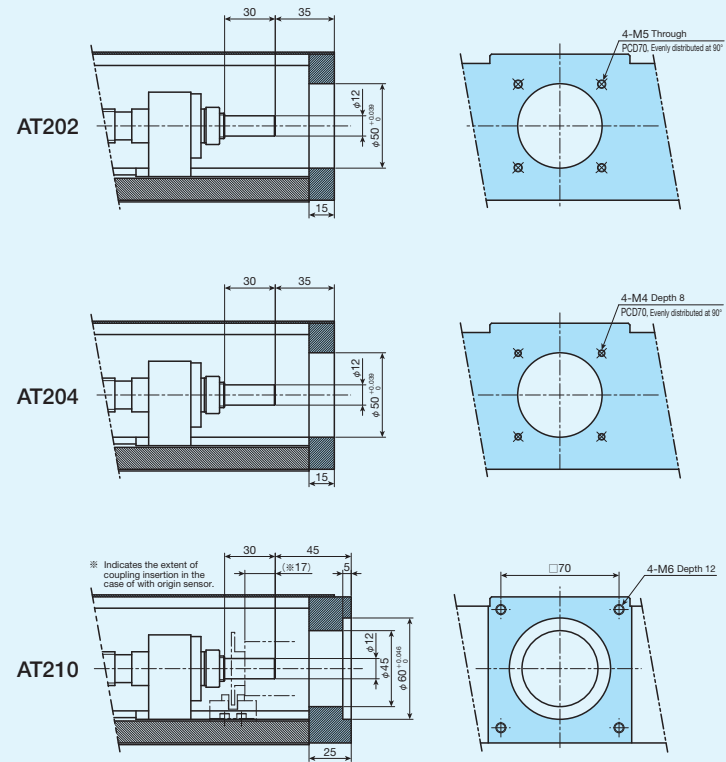
TSL170M



TSL170SM

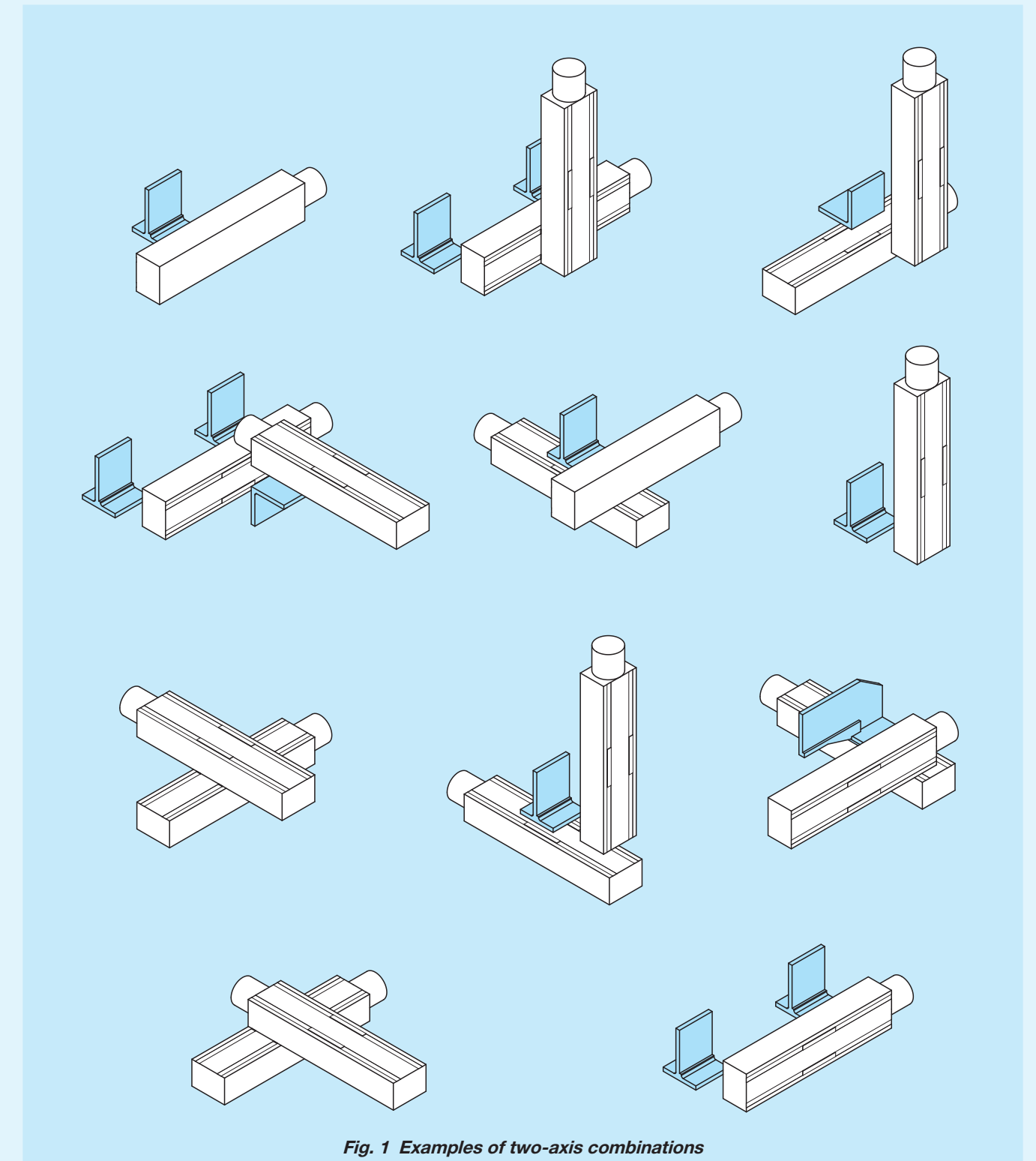


TSL220M

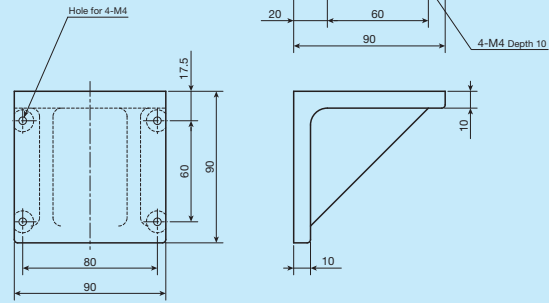


XY Bracket

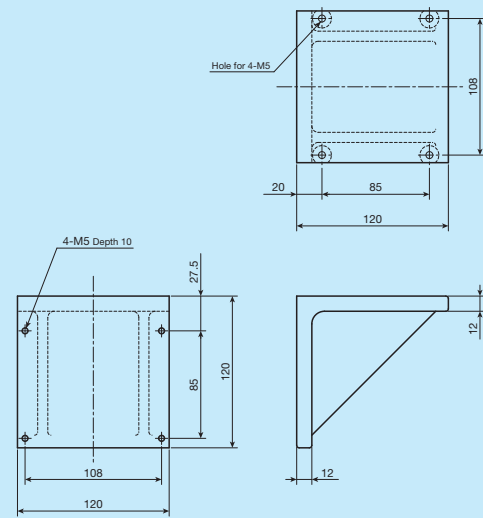
Precision Positioning Table L can configure various combinations of two-axis using XY bracket (aluminum alloy) shown in Fig. 2. If you are interested, please specify the identification number of your desired model from the figure.



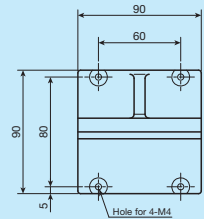
●TSL90-AGL



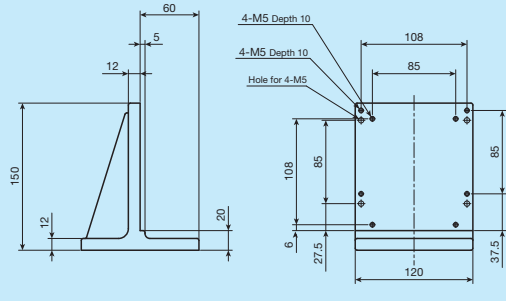
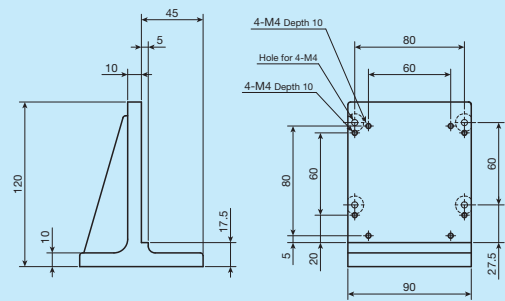
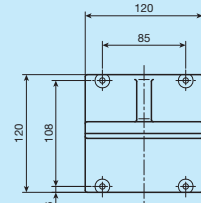
●TSL120-AGL



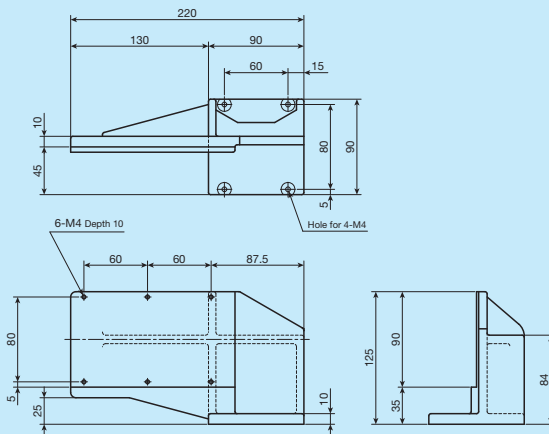
●TSL90-AGI



●TSL120-AGI



●TSL90-AGT



●TSL120-AGT

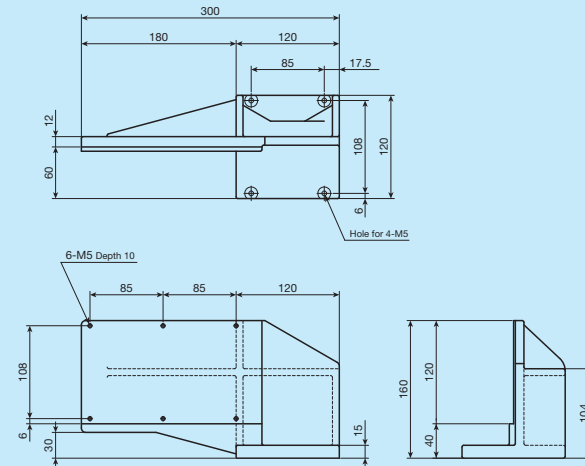
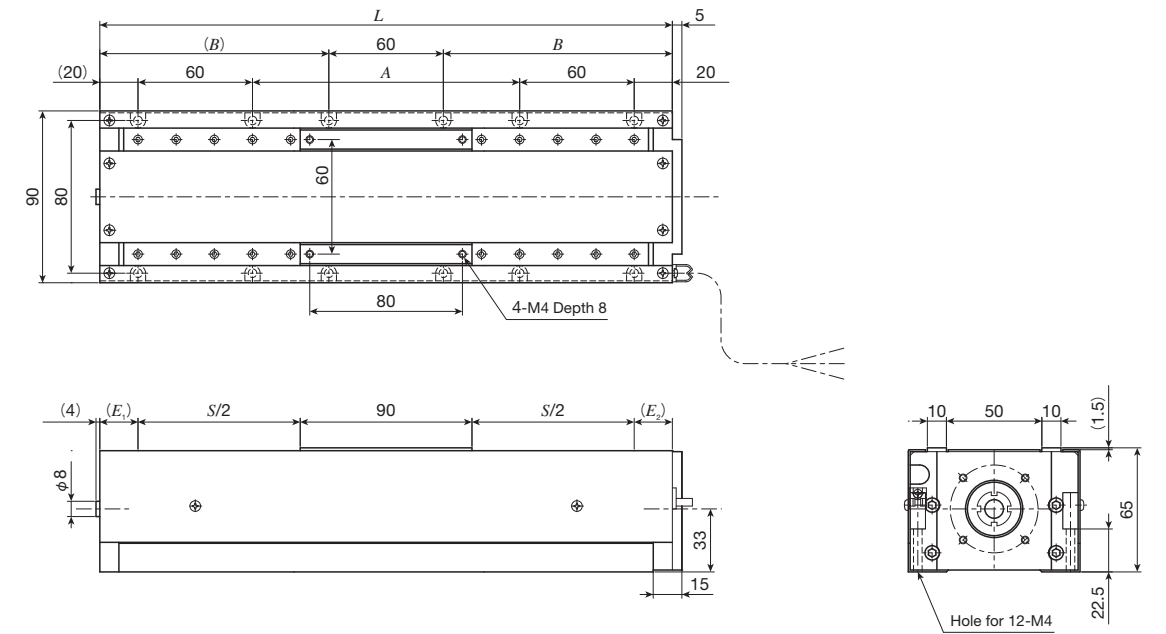


Fig. 2 XY bracket

IKO Precision Positioning Table L

TSL90M

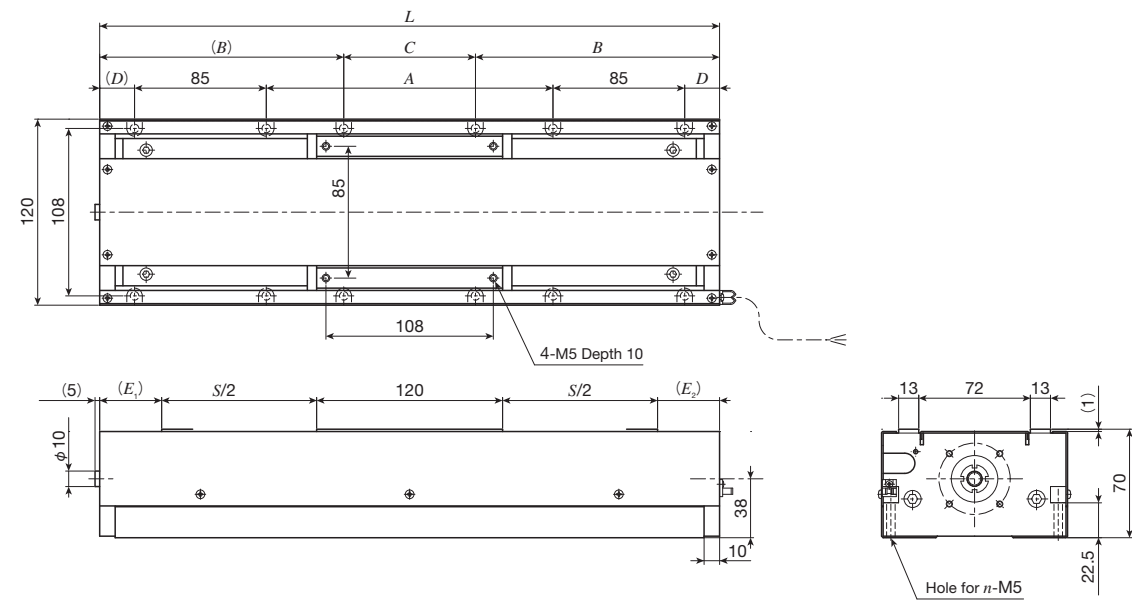


unit: mm

| Identification number | Stroke length | | | Dimensions of table | | | Mass (Ref.) kg |
|-----------------------|---------------|----------------|----------------|---------------------|-----------------------|-----|----------------|
| | S | E ₁ | E ₂ | Overall length L | Mounting holes of bed | | |
| | | | | | A | B | |
| TSL90M- 50 | 50 | 30 | 30 | 200 | 40 | 70 | 2.8 |
| TSL90M-100 | 100 | | | 250 | 90 | 95 | 3.2 |
| TSL90M-150 | 150 | | | 300 | 140 | 120 | 3.5 |
| TSL90M-200 | 200 | | | 350 | 190 | 145 | 3.9 |
| TSL90M-250 | 250 | | | 400 | 240 | 170 | 4.2 |
| TSL90M-300 | 300 | | | 450 | 290 | 195 | 4.6 |

IKO Precision Positioning Table L

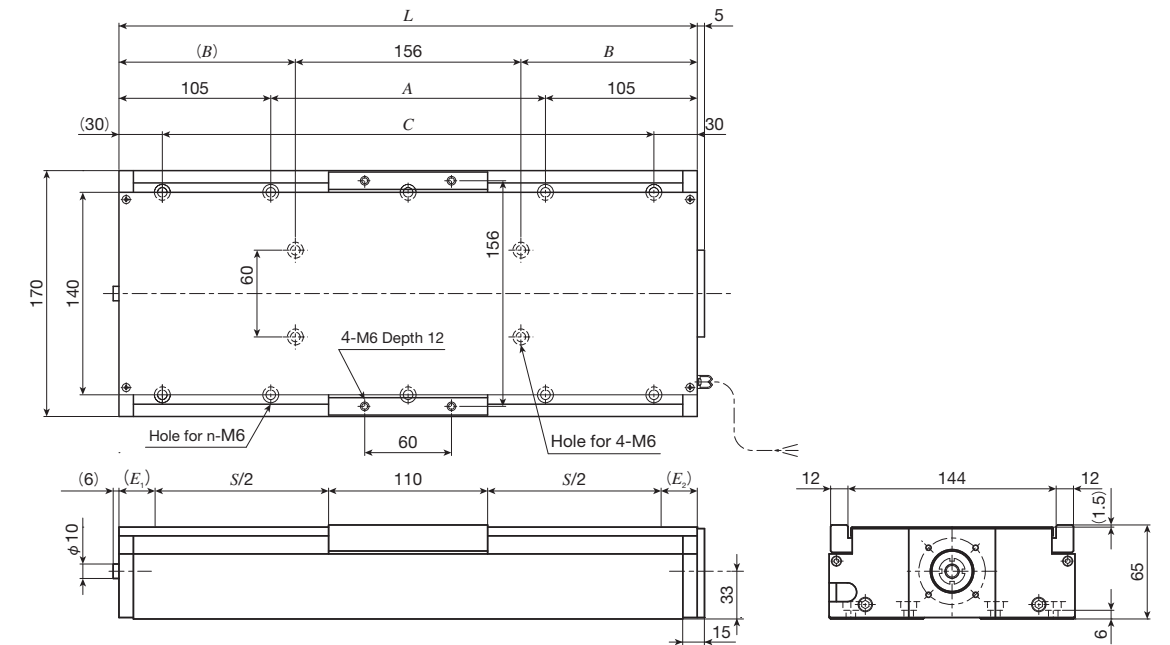
TSL120M



unit: mm

| Identification number | Stroke length | | | Dimensions of table | | | | | | Mass (Ref.) kg |
|-----------------------|---------------|----------------|----------------|---------------------|-----|-------|-----|------|----|----------------|
| | S | E ₁ | E ₂ | Overall length L | A | B | C | D | n | |
| TSL120M-100 | 100 | 40 | 40 | 300 | 85 | 107.5 | 85 | 22.5 | 8 | 6.1 |
| TSL120M-150 | 150 | | | 350 | 135 | 132.5 | 85 | 22.5 | 12 | 6.6 |
| TSL120M-200 | 200 | | | 400 | 185 | 157.5 | 85 | 22.5 | 12 | 7.1 |
| TSL120M-250 | 250 | | | 450 | 235 | 182.5 | 85 | 22.5 | 12 | 7.6 |
| TSL120M-300 | 300 | | | 500 | 255 | 207.5 | 85 | 37.5 | 12 | 8.1 |
| TSL120M-400 | 400 | | | 600 | 355 | 207.5 | 185 | 37.5 | 12 | 9.1 |
| TSL120M-500 | 500 | | | 700 | 455 | 207.5 | 285 | 37.5 | 12 | 10.1 |
| TSL120M-600 | 600 | | | 800 | 555 | 207.5 | 385 | 37.5 | 12 | 11.1 |

TSL170M

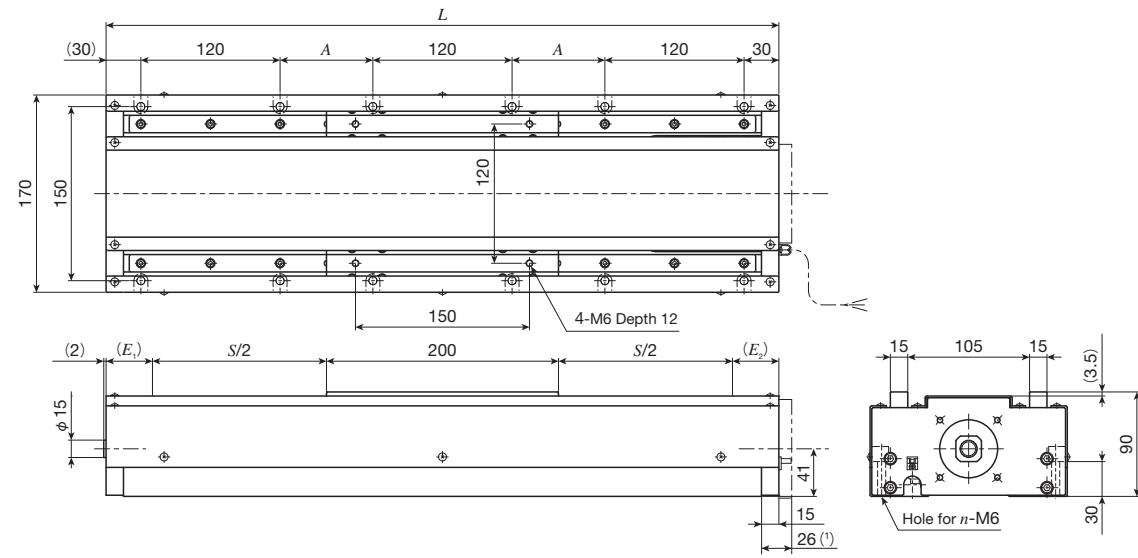


unit: mm

| Identification number | Stroke length | | | Dimensions of table | | | | | Mass (Ref.) kg |
|-----------------------|---------------|----------------|----------------|---------------------|-----|-----|-------------------------------|----|----------------|
| | S | E ₁ | E ₂ | Overall length L | A | B | C (the number of holes×pitch) | n | |
| TSL170M-150 | 150 | 25 | 25 | 310 | 100 | 77 | 250 | 8 | 7.2 |
| TSL170M-200 | 200 | | | 360 | 150 | 102 | 300 | 8 | 7.8 |
| TSL170M-250 | 250 | | | 410 | 200 | 127 | 350 (2×175) | 10 | 8.4 |
| TSL170M-300 | 300 | | | 460 | 250 | 152 | 400 (2×200) | 10 | 9.1 |
| TSL170M-400 | 400 | | | 560 | 350 | 202 | 500 (2×250) | 10 | 10.4 |
| TSL170M-500 | 500 | | | 660 | 450 | 252 | 600 (2×300) | 10 | 11.6 |

IKO Precision Positioning Table L

TSL170SM

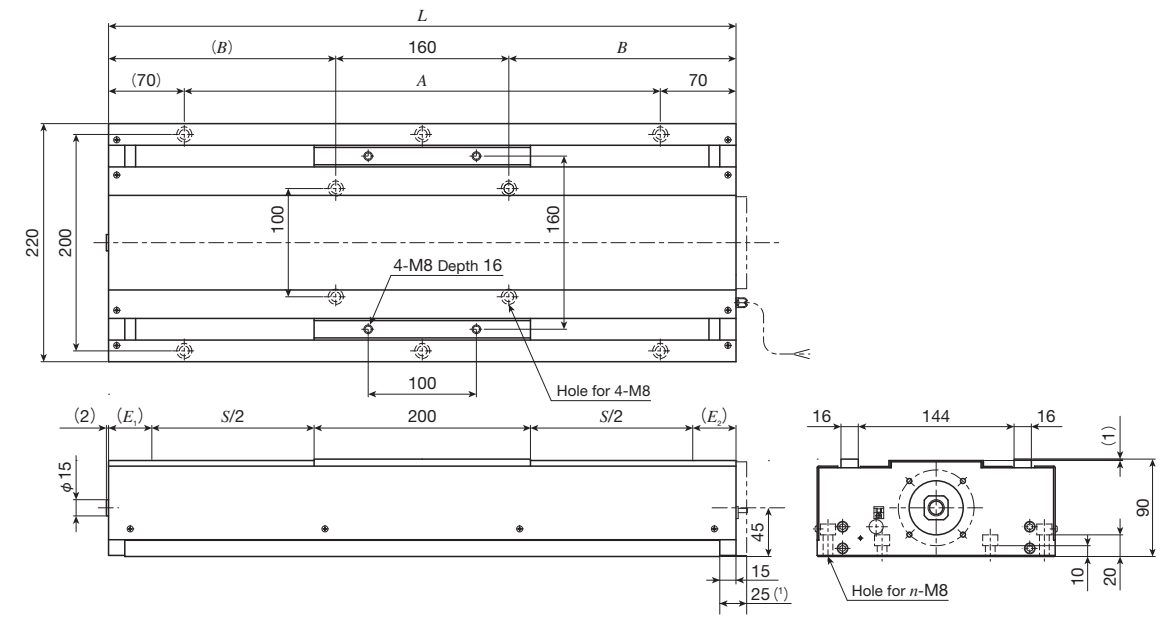


unit: mm

| Identification number | Stroke length | | | Dimensions of table | | | Mass (Ref.) kg |
|-----------------------|---------------|----------------|----------------|---------------------|--|----|----------------|
| | S | E ₁ | E ₂ | Overall length L | Mounting holes of bed A (the number of holes×pitch) | n | |
| TSL170SM- 300 | 300 | 40 | 40 | 580 | 80 | 12 | 14.8 |
| TSL170SM- 400 | 400 | | | 680 | 130 | 12 | 16.6 |
| TSL170SM- 500 | 500 | | | 780 | 180 | 12 | 18.5 |
| TSL170SM- 600 | 600 | | | 880 | 230 | 12 | 20.3 |
| TSL170SM- 800 | 800 | | | 1 080 | 330 (2×165) | 16 | 24.0 |
| TSL170SM-1000 | 1 000 | | | 1 280 | 430 (2×215) | 16 | 27.7 |

Note (1) Applicable to AT207.

TSL220M



unit: mm

| Identification number | Stroke length | | | Dimensions of table | | | Mass (Ref.) kg | |
|-----------------------|---------------|----------------|----------------|---------------------|--|-----|----------------|------|
| | S | E ₁ | E ₂ | Overall length L | Mounting holes of bed A (the number of holes×pitch) | B | | n |
| TSL220M- 300 | 300 | 40 | 40 | 580 | 440 (2×220) | 210 | 6 | 20.1 |
| TSL220M- 400 | 400 | | | 680 | 540 (2×270) | 260 | 6 | 22.5 |
| TSL220M- 500 | 500 | | | 780 | 640 (2×320) | 310 | 6 | 24.7 |
| TSL220M- 600 | 600 | | | 880 | 740 (4×185) | 360 | 10 | 27.0 |
| TSL220M- 800 | 800 | | | 1 080 | 940 (4×235) | 460 | 10 | 31.5 |
| TSL220M-1000 | 1 000 | | | 1 280 | 1 140 (4×285) | 560 | 10 | 36.2 |

Note (1) Applicable to AT210.