



Electric actuator (motorless) Slider

# EKS-04LE

Straight motor mounting

● Servo motor capacity: 50 W/100 W

## How to order

**EKS** - **04** **L** **E** - **10** **0300** **N** **NN** - **M** **1** **N** **C** **B**

|                     |
|---------------------|
| <b>A</b> Body size  |
| 04 Body width 43 mm |

|                |
|----------------|
| <b>B</b> Motor |
| L None         |

|                                   |
|-----------------------------------|
| <b>C</b> Motor mounting direction |
| E Straight mounting               |

|                     |
|---------------------|
| <b>D</b> Screw lead |
| 10 10 mm            |
| 16 16 mm            |

|                           |
|---------------------------|
| <b>E</b> Stroke length *1 |
| 0100 100 mm               |
| to (In 100 mm increments) |
| 0900 900 mm               |

|                |
|----------------|
| <b>F</b> Brake |
| N None         |

|                                                                   |
|-------------------------------------------------------------------|
| <b>G</b> Mounted motor specification                              |
| M Select the mounted motor specification from the table at right. |
| Y                                                                 |
| P                                                                 |

|                         |
|-------------------------|
| <b>H</b> Motor capacity |
| H 50 W                  |
| 1 100 W                 |

|                           |
|---------------------------|
| <b>I</b> Origin sensor *2 |
| N None                    |
| C Yes                     |

|                          |
|--------------------------|
| <b>K</b> Limit sensor *2 |
| N None                   |
| B Yes                    |

| Manufacturer                    | 50 W | 100 W |
|---------------------------------|------|-------|
| Mitsubishi Electric Corporation | M    | M     |
| Delta Electronics Co., Ltd.     | M    | M     |
| Sanyo Denki Co., Ltd.           | M    | M     |
| YASKAWA Electric Corporation    | Y    | Y     |
| Keyence Corporation             | Y    | Y     |
| Panasonic Corporation           | P    | P     |
| OMRON Corporation               | M    | M     |
| Fuji Electric Co., Ltd.         | M    | M     |
| FANUC CORPORATION               | M    | M     |
| Bosch Rexroth AG                | P    | P     |
| Rockwell Automation, Inc.       | M    | M     |
| SIEMENS AG                      | M    | M     |

\*Refer to page 461 for the motor model No.

\*1: For the stroke length per 50 mm, contact CKD.

\*2: Origin sensor and limit sensor are available as a set. As it is both-or-nothing, select "None" for both.

## Specifications

|                                         |                                                           |      |
|-----------------------------------------|-----------------------------------------------------------|------|
| Applicable motor capacity               | 50 W/100 W servo motor                                    |      |
| Drive method                            | Ball screw ø10                                            |      |
| Stroke length mm                        | 100 to 900                                                |      |
| Screw lead mm                           | 10                                                        | 16   |
| Max. load capacity kg<br>*1 *2          | Horizontal                                                | 19   |
|                                         | Wall-mounted                                              | 10.5 |
|                                         | Vertical                                                  | 8.5  |
| Max. speed mm/s                         | 500                                                       | 800  |
| Rated thrust *2 N                       | 179                                                       | 112  |
| Repeatability mm                        | ±0.01                                                     |      |
| Lost motion mm                          | 0.1 or less                                               |      |
| Static allowable load N                 | 2140                                                      |      |
| Static allowable moment N·m             | MP: 103, MY: 103, MR: 58                                  |      |
| Operating ambient temperature, humidity | 0 to 40°C (no freezing)<br>20 to 80% RH (no condensation) |      |
| Storage ambient temperature, humidity   | 0 to 40°C (no freezing)<br>20 to 80% RH (no condensation) |      |
| Atmosphere                              | No corrosive gas, explosive gas, or dust                  |      |

\*1: Values for max. load capacity are at acceleration/deceleration 0.5 G. Refer to page 510 for details.

\*2: Rated thrust and max. load capacity are guideline values assuming that the motor mounted will output the rated torque.

## Stroke and max. speed

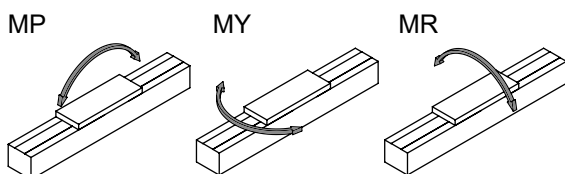
|            |               | (mm/s)     |     |     |     |     |
|------------|---------------|------------|-----|-----|-----|-----|
| Screw lead | Stroke length | 100 to 500 | 600 | 700 | 800 | 900 |
|            |               |            |     |     |     |     |
| 10         |               | 500        | 440 | 340 | 260 | 210 |
| 16         |               | 800        | 710 | 540 | 420 | 340 |

\*The max. speed is the speed when the motor mounted by the customer can output a rotation speed of 3000 rpm.  
The max. speed is restricted by the stroke. Do not move at speeds beyond the limit.

## Allowable overhang length

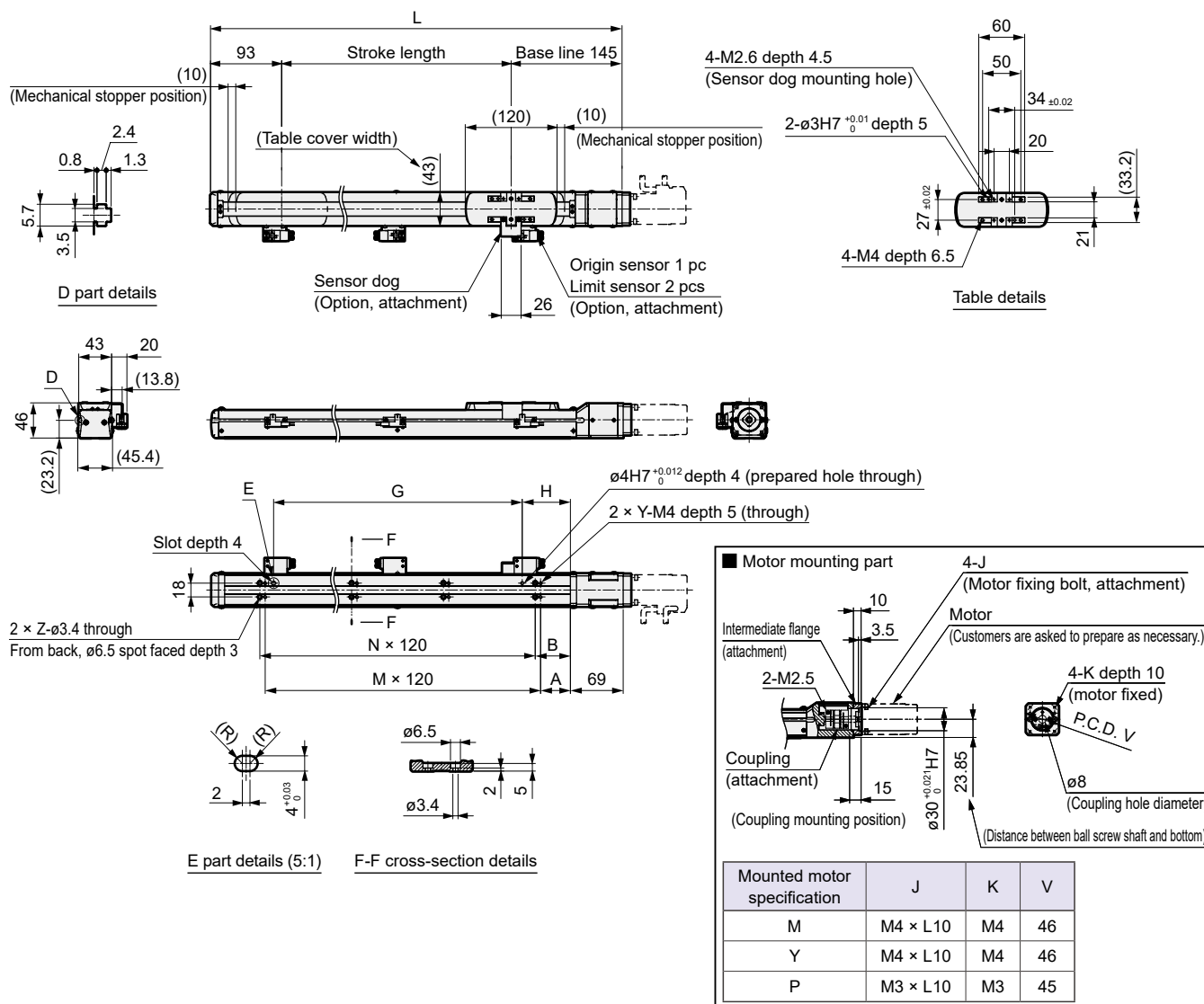
\*Refer to page 504 for details.

## Moment direction



### Dimensions Straight motor mounting

#### ● EKS-04LE



|                    |      |      |      |      |      |      |      |      |      |
|--------------------|------|------|------|------|------|------|------|------|------|
| Stroke code        | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 |
| Stroke length (mm) | 100  | 200  | 300  | 400  | 500  | 600  | 700  | 800  | 900  |
| L                  | 338  | 438  | 538  | 638  | 738  | 838  | 938  | 1038 | 1138 |
| A                  | 59   | 42   | 39   | 89   | 79   | 69   | 59   | 42   | 39   |
| B                  | 66   | 56   | 46   | 96   | 86   | 76   | 66   | 56   | 46   |
| G                  | 125  | 225  | 325  | 425  | 525  | 625  | 725  | 825  | 925  |
| H                  | 48   | 63   | 63   | 48   | 63   | 63   | 48   | 63   | 63   |
| M                  | 1    | 2    | 3    | 3    | 4    | 5    | 6    | 7    | 8    |
| N                  | 1    | 2    | 3    | 3    | 4    | 5    | 6    | 7    | 8    |
| Y                  | 2    | 3    | 4    | 4    | 5    | 6    | 7    | 8    | 9    |
| Z                  | 2    | 3    | 4    | 4    | 5    | 6    | 7    | 8    | 9    |
| Weight (kg)        | 1.7  | 2.1  | 2.5  | 2.9  | 3.2  | 3.6  | 4    | 4.4  | 4.7  |

### List of attachments

#### [Motor mounting parts]

| Mounted motor specification | Coupling             | Intermediate flange fixing bolt | Motor mounting bolt |          |
|-----------------------------|----------------------|---------------------------------|---------------------|----------|
|                             |                      |                                 | Size                | Quantity |
| M                           | Included at shipment | Included at shipment            | M4                  | 4        |
| Y                           |                      |                                 | M4                  | 4        |
| P                           |                      |                                 | M3                  | 4        |

#### [Origin sensor, limit sensor]

| Manufacturer      | Model    | Included quantity |
|-------------------|----------|-------------------|
| OMRON Corporation | EE-SX674 | 3                 |

\*Refer to page 512 for sensor specifications.



Electric actuator (motorless) Slider

# EKS-04L\*

Motor side mounting (left, right, bottom)

● Servo motor capacity: 50 W/100 W

## How to order

**EKS** - **04** **L** **R** - **10** **0300** **N** **NN** - **M** **1** **D** **C** **B**

| A Body size         |
|---------------------|
| 04 Body width 43 mm |

| B Motor |
|---------|
| L None  |

| C Motor mounting direction |
|----------------------------|
| R Right mounting           |
| D Bottom mounting          |
| L Left mounting            |

| D Screw lead |
|--------------|
| 10 10 mm     |
| 16 16 mm     |

| E Stroke length           |
|---------------------------|
| 0100 100 mm               |
| to (In 100 mm increments) |
| 0900 900 mm               |

| F Brake |
|---------|
| N None  |

| G Mounted motor specification  |
|--------------------------------|
| M Select the mounted motor     |
| Y specification from the table |
| P at right.                    |

| H Motor capacity |
|------------------|
| H 50 W           |
| 1 100 W          |

| I Motor shaft fixing method |
|-----------------------------|
| D Flat                      |
| K Key                       |

| J Origin sensor *2 |
|--------------------|
| N None             |
| C Yes              |

| K Limit sensor *2 |
|-------------------|
| N None            |
| B Yes             |

| Manufacturer                    | 50 W | 100 W |
|---------------------------------|------|-------|
| Mitsubishi Electric Corporation | M    | M     |
| Delta Electronics Co., Ltd.     | M    | M     |
| Sanyo Denki Co., Ltd.           | M    | M     |
| YASKAWA Electric Corporation    | Y    | Y     |
| Keyence Corporation             | Y    | Y     |
| Panasonic Corporation           | P    | P     |
| OMRON Corporation               | M    | M     |
| Fuji Electric Co., Ltd.         | M    | M     |
| FANUC CORPORATION               | M    | M     |
| Bosch Rexroth AG                | P    | P     |
| Rockwell Automation, Inc.       | M    | M     |
| SIEMENS AG                      | M    | M     |

\*Refer to page 461 for the motor model No.

\*1: For the stroke length per 50 mm, contact CKD.

\*2: Origin sensor and limit sensor are available as a set. As it is both-or-nothing, select "None" for both.

## Specifications

| Applicable motor capacity               | 50 W/100 W servo motor                                    |     |
|-----------------------------------------|-----------------------------------------------------------|-----|
| Drive method                            | Ball screw $\phi 10$                                      |     |
| Stroke length mm                        | 100 to 900                                                |     |
| Screw lead mm                           | 10                                                        | 16  |
| Max. load capacity kg<br>*1*2           | Horizontal                                                | 14  |
|                                         | Wall-mounted                                              | 8   |
|                                         | Vertical                                                  | 7   |
| Max. speed mm/s                         | 500                                                       | 800 |
| Rated thrust *2 N                       | 179                                                       | 112 |
| Repeatability mm                        | $\pm 0.01$                                                |     |
| Lost motion mm                          | 0.1 or less                                               |     |
| Static allowable load N                 | 2140                                                      |     |
| Static allowable moment N·m             | MP: 103, MY: 103, MR: 58                                  |     |
| Operating ambient temperature, humidity | 0 to 40°C (no freezing)<br>20 to 80% RH (no condensation) |     |
| Storage ambient temperature, humidity   | 0 to 40°C (no freezing)<br>20 to 80% RH (no condensation) |     |
| Atmosphere                              | No corrosive gas, explosive gas, or dust                  |     |

\*1: Values for max. load capacity are at acceleration/deceleration 0.5 G.  
Refer to page 510 for details.

\*2: Rated thrust and max. load capacity are guideline values assuming that the motor mounted will output the rated torque.

## Stroke and max. speed

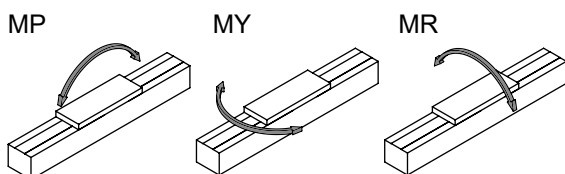
|               |            | (mm/s)     |     |     |     |     |
|---------------|------------|------------|-----|-----|-----|-----|
| Stroke length | Screw lead | 100 to 500 | 600 | 700 | 800 | 900 |
|               | 10         | 500        | 440 | 340 | 260 | 210 |
|               | 16         | 800        | 710 | 540 | 420 | 340 |

\*The max. speed is the speed when the motor mounted by the customer can output a rotation speed of 3000 rpm.  
The max. speed is restricted by the stroke. Do not move at speeds beyond the limit.

## Allowable overhang length

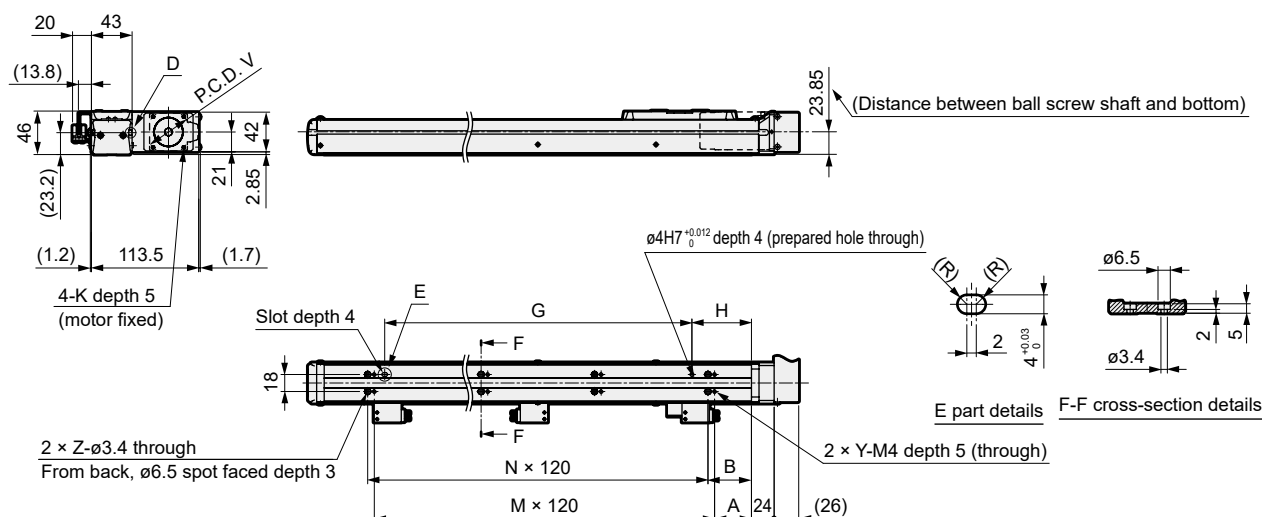
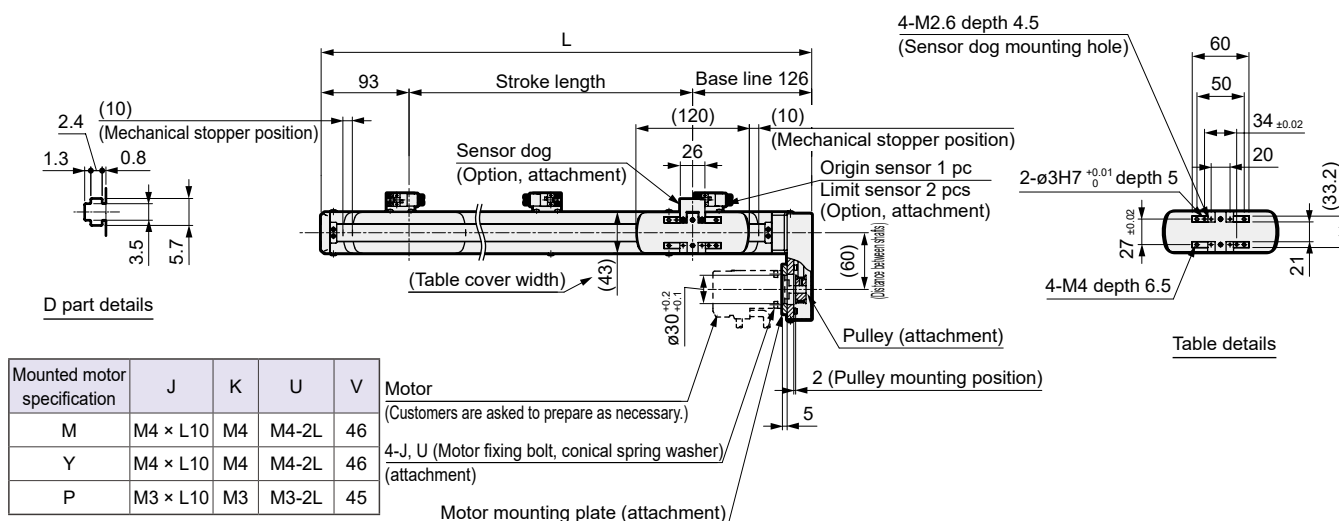
\*Refer to page 504 for details.

## Moment direction



### Dimensions Motor right-side mounting

#### ● EKS-04LR



| Stroke code        | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 |
|--------------------|------|------|------|------|------|------|------|------|------|
| Stroke length (mm) | 100  | 200  | 300  | 400  | 500  | 600  | 700  | 800  | 900  |
| L                  | 319  | 419  | 519  | 619  | 719  | 819  | 919  | 1019 | 1119 |
| A                  | 59   | 42   | 39   | 89   | 79   | 69   | 59   | 42   | 39   |
| B                  | 66   | 56   | 46   | 96   | 86   | 76   | 66   | 56   | 46   |
| G                  | 125  | 225  | 325  | 425  | 525  | 625  | 725  | 825  | 925  |
| H                  | 48   | 63   | 63   | 48   | 63   | 63   | 48   | 63   | 63   |
| M                  | 1    | 2    | 3    | 3    | 4    | 5    | 6    | 7    | 8    |
| N                  | 1    | 2    | 3    | 3    | 4    | 5    | 6    | 7    | 8    |
| Y                  | 2    | 3    | 4    | 4    | 5    | 6    | 7    | 8    | 9    |
| Z                  | 2    | 3    | 4    | 4    | 5    | 6    | 7    | 8    | 9    |
| Weight (kg)        | 1.9  | 2.3  | 2.7  | 3    | 3.4  | 3.8  | 4.2  | 4.5  | 4.9  |

### List of attachments

#### [Motor mounting parts]

| Mounted motor specification | Pulley               | Motor mounting plate fixing bolt | Motor mounting bolt |          |
|-----------------------------|----------------------|----------------------------------|---------------------|----------|
|                             |                      |                                  | Size                | Quantity |
| M                           | Included at shipment | Included at shipment             | M4                  | 4        |
| Y                           |                      |                                  | M4                  | 4        |
| P                           |                      |                                  | M3                  | 4        |

#### [Origin sensor, limit sensor]

| Manufacturer      | Model    | Included quantity |
|-------------------|----------|-------------------|
| OMRON Corporation | EE-SX674 | 3                 |

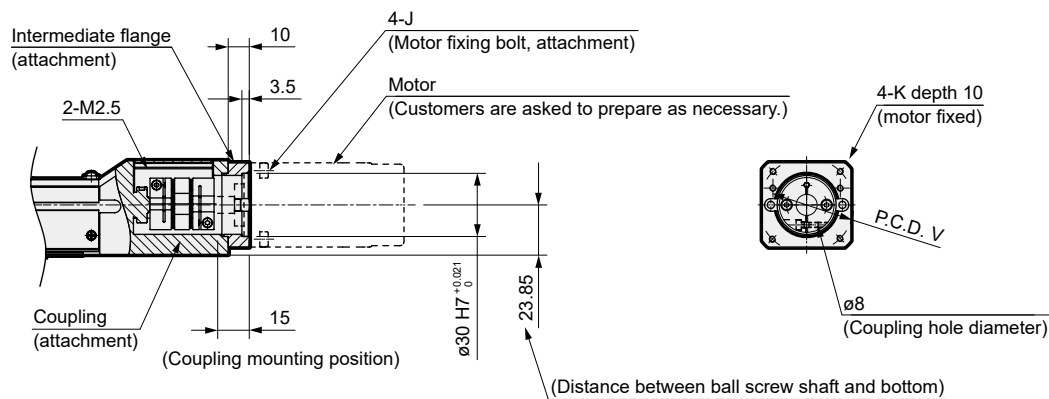
\*Refer to page 512 for sensor specifications.



## 467

Common options

Dimensions for straight motor mounting



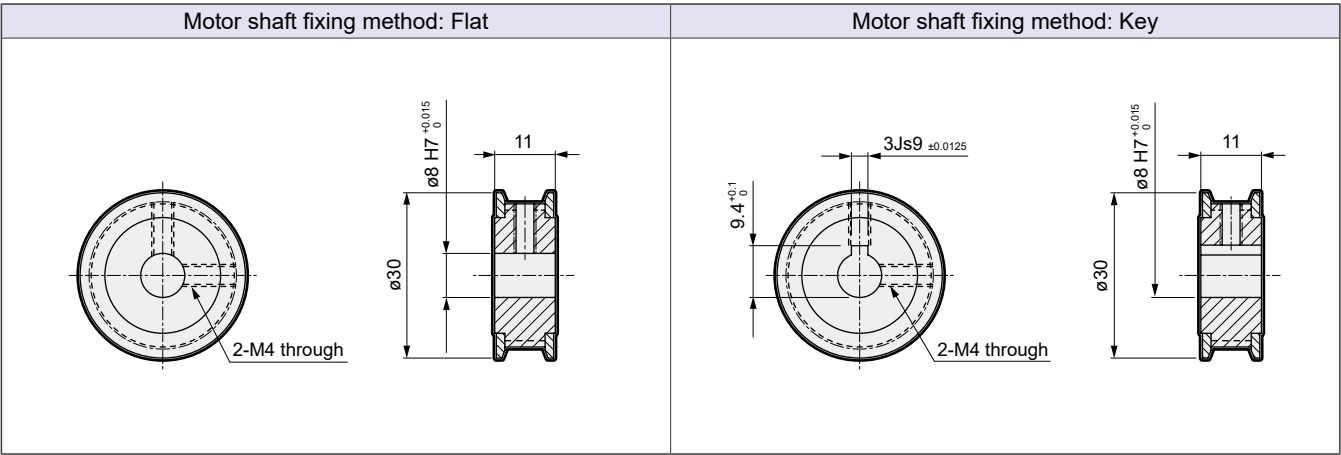
Motor mounting part details

| Mounted motor specification | J        | K  | V  |
|-----------------------------|----------|----|----|
| M                           | M4 × L10 | M4 | 46 |
| Y                           | M4 × L10 | M4 | 46 |
| P                           | M3 × L10 | M3 | 45 |

For motor mounting on side/bottom

Motor shaft fixing method

Pulley (attachment)



MEMO

| Servo motor compatible |     |     |                |     |     |     | Stepper motor compatible |     |     |     | Safety precautions |
|------------------------|-----|-----|----------------|-----|-----|-----|--------------------------|-----|-----|-----|--------------------|
| EBS                    | EBR | ETS | ETS Multi-Axis | ECS | ETV | ECV | EKS                      | EBS | EBR | ETS | ECS                |

# Electric actuator (motorless) Slider

# EKS-05LE

## Straight motor mounting

● Servo motor capacity: 100 W



### How to order

**EKS** - **05** **L** **E** - **10** **0300** **N** **NN** - **M** **1** **N** **C** **B**

|                     |
|---------------------|
| <b>A</b> Body size  |
| 05 Body width 53 mm |

|                |
|----------------|
| <b>B</b> Motor |
| L None         |

|                                   |
|-----------------------------------|
| <b>C</b> Motor mounting direction |
| E Straight mounting               |

|                     |
|---------------------|
| <b>D</b> Screw lead |
| 10 10 mm            |
| 20 20 mm            |

|                           |
|---------------------------|
| <b>E</b> Stroke length *1 |
| 0100 100 mm               |
| to (In 100 mm increments) |
| 0900 900 mm               |

|                |
|----------------|
| <b>F</b> Brake |
| N None         |

|                                      |
|--------------------------------------|
| <b>G</b> Mounted motor specification |
| M Select the mounted motor           |
| Y specification from the table       |
| P at right.                          |

|                         |
|-------------------------|
| <b>H</b> Motor capacity |
| 1 100 W                 |

|                                    |
|------------------------------------|
| <b>I</b> Motor shaft fixing method |
| N For straight mounting            |

|                           |
|---------------------------|
| <b>J</b> Origin sensor *2 |
| N None                    |
| C Yes                     |

|                          |
|--------------------------|
| <b>K</b> Limit sensor *2 |
| N None                   |
| B Yes                    |

| Manufacturer                    | 100 W |
|---------------------------------|-------|
| Mitsubishi Electric Corporation | M     |
| Delta Electronics Co., Ltd.     | M     |
| Sanyo Denki Co., Ltd.           | M     |
| YASKAWA Electric Corporation    | Y     |
| Keyence Corporation             | Y     |
| Panasonic Corporation           | P     |
| OMRON Corporation               | M     |
| Fuji Electric Co., Ltd.         | M     |
| FANUC CORPORATION               | M     |
| Bosch Rexroth AG                | P     |
| Rockwell Automation, Inc.       | M     |
| SIEMENS AG                      | M     |

\*1: For the stroke length per 50 mm, contact CKD.

\*2: Origin sensor and limit sensor are available as a set. As it is both-or-nothing, select "None" for both.

\*Refer to page 461 for the motor model No.

### Specifications

|                                         |                                                           |      |
|-----------------------------------------|-----------------------------------------------------------|------|
| Applicable motor capacity               | 100 W servo motor                                         |      |
| Drive method                            | Ball screw ø13                                            |      |
| Stroke length mm                        | 100 to 900                                                |      |
| Screw lead mm                           | 10                                                        | 20   |
| Max. load capacity kg<br>*1 *2          | Horizontal                                                | 26   |
|                                         | Wall-mounted                                              | 19   |
|                                         | Vertical                                                  | 12.5 |
| Max. speed mm/s                         | 500                                                       | 1000 |
| Rated thrust *2 N                       | 179                                                       | 89   |
| Repeatability mm                        | ±0.01                                                     |      |
| Lost motion mm                          | 0.1 or less                                               |      |
| Static allowable load N                 | 3100                                                      |      |
| Static allowable moment N·m             | MP: 147, MY: 147, MR: 149                                 |      |
| Operating ambient temperature, humidity | 0 to 40°C (no freezing)<br>20 to 80% RH (no condensation) |      |
| Storage ambient temperature, humidity   | 0 to 40°C (no freezing)<br>20 to 80% RH (no condensation) |      |
| Atmosphere                              | No corrosive gas, explosive gas, or dust                  |      |

\*1: Values for max. load capacity are at acceleration/deceleration 0.5 G.  
Refer to page 510 for details.

\*2: Rated thrust and max. load capacity are guideline values assuming that the motor mounted will output the rated torque.

### Stroke and max. speed

|            |               | (mm/s)     |     |     |     |
|------------|---------------|------------|-----|-----|-----|
| Screw lead | Stroke length | 100 to 600 | 700 | 800 | 900 |
|            |               |            |     |     |     |
| 10         |               | 500        | 390 | 310 | 250 |
| 20         |               | 1000       | 780 | 620 | 500 |

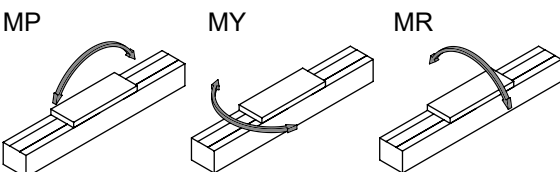
\*The max. speed is the speed when the motor mounted by the customer can output a rotation speed of 3000 rpm.

The max. speed is restricted by the stroke. Do not move at speeds beyond the limit.

### Allowable overhang length

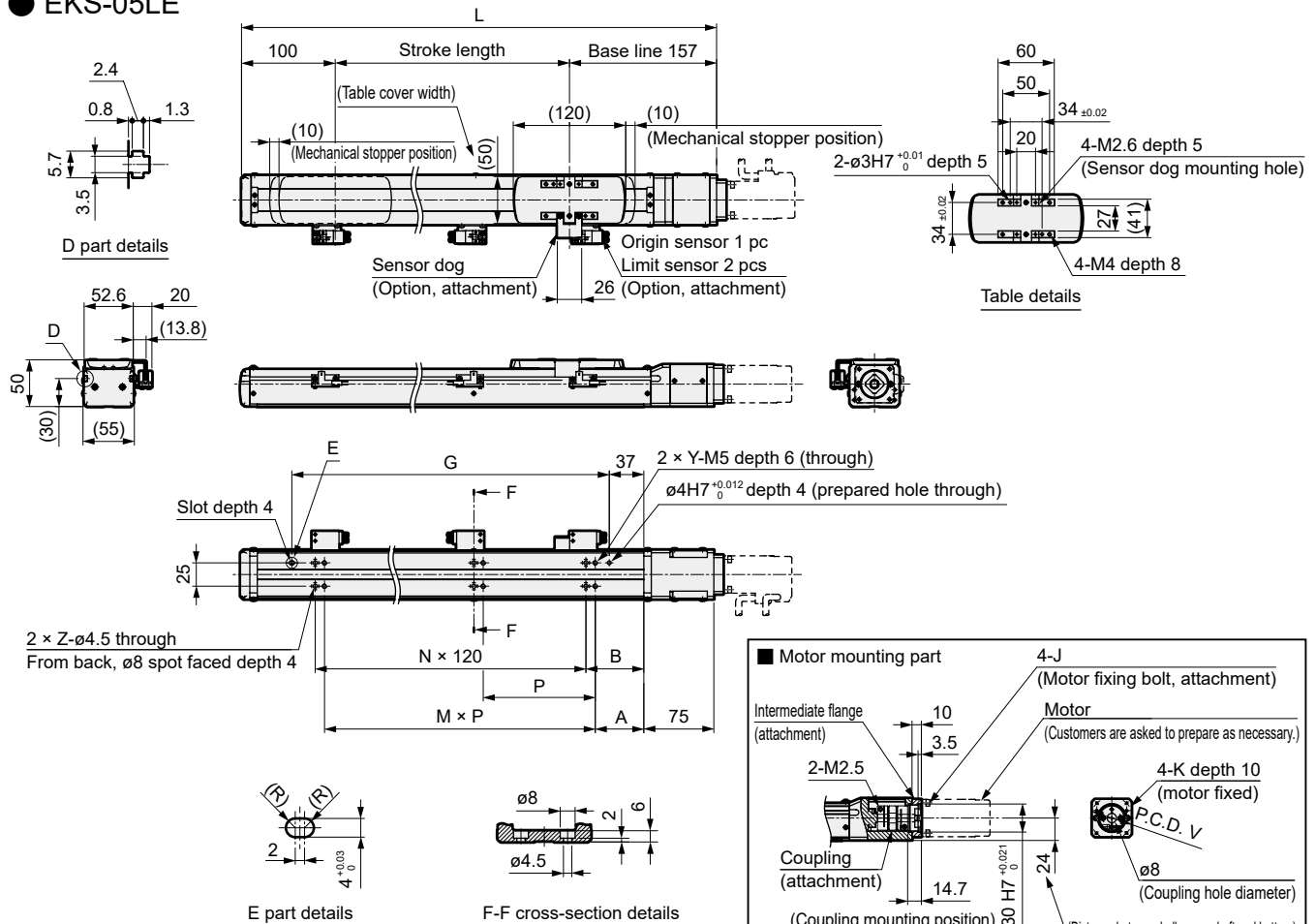
\*Refer to page 504 for details.

### Moment direction



### Dimensions Straight motor mounting

#### ● EKS-05LE



| Mounted motor specification | J        | K  | V  |
|-----------------------------|----------|----|----|
| M                           | M4 × L10 | M4 | 46 |
| Y                           | M4 × L10 | M4 | 46 |
| P                           | M3 × L10 | M3 | 45 |

| Stroke code        | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 |
|--------------------|------|------|------|------|------|------|------|------|------|
| Stroke length (mm) | 100  | 200  | 300  | 400  | 500  | 600  | 700  | 800  | 900  |
| L                  | 357  | 457  | 557  | 657  | 757  | 857  | 957  | 1057 | 1157 |
| A                  | 12   | 52   | 27   | 92   | 82   | 72   | 62   | 52   | 27   |
| B                  | 72   | 62   | 52   | 102  | 92   | 82   | 72   | 62   | 52   |
| G                  | 190  | 290  | 390  | 490  | 590  | 690  | 790  | 890  | 990  |
| M                  | 2    | 2    | 3    | 3    | 4    | 5    | 6    | 7    | 8    |
| N                  | 1    | 2    | 3    | 3    | 4    | 5    | 6    | 7    | 8    |
| P                  | 120  |      |      |      |      |      |      |      |      |
| Y                  | 3    | 3    | 4    | 4    | 5    | 6    | 7    | 8    | 9    |
| Z                  | 2    | 3    | 4    | 4    | 5    | 6    | 7    | 8    | 9    |
| Weight (kg)        | 2.6  | 3.1  | 3.7  | 4.2  | 4.8  | 5.4  | 5.9  | 6.5  | 7    |

### List of attachments

#### [Motor mounting parts]

| Mounted motor specification | Coupling             | Intermediate flange fixing bolt | Motor mounting bolt |
|-----------------------------|----------------------|---------------------------------|---------------------|
|                             |                      |                                 | Size Quantity       |
| M                           | Included at shipment | Included at shipment            | M4 4                |
| Y                           |                      |                                 | M4 4                |
| P                           |                      |                                 | M3 4                |

#### [Origin sensor, limit sensor]

| Manufacturer      | Model    | Included quantity |
|-------------------|----------|-------------------|
| OMRON Corporation | EE-SX674 | 3                 |

\*Refer to page 512 for sensor specifications.



Electric actuator (motorless) Slider

# EKS-05L\*

Motor side mounting (left, right, bottom)

● Servo motor capacity: 100 W

## How to order

**EKS** - **05** **L** **R** - **10** **0300** **N** **NN** - **M** **1** **D** **C** **B**

| A Body size         |
|---------------------|
| 05 Body width 53 mm |

| B Motor |
|---------|
| L None  |

| C Motor mounting direction |
|----------------------------|
| R Right mounting           |
| D Bottom mounting          |
| L Left mounting            |

| D Screw lead |
|--------------|
| 10 10 mm     |
| 20 20 mm     |

| E Stroke length *1        |
|---------------------------|
| 0100 100 mm               |
| to (In 100 mm increments) |
| 0900 900 mm               |

| F Brake |
|---------|
| N None  |

| G Mounted motor specification  |
|--------------------------------|
| M Select the mounted motor     |
| Y specification from the table |
| P at right.                    |

| H Motor capacity |
|------------------|
| 1 100 W          |

| I Motor shaft fixing method |
|-----------------------------|
| D Flat                      |
| K Key                       |

| J Origin sensor *2 |
|--------------------|
| N None             |
| C Yes              |

| K Limit sensor *2 |
|-------------------|
| N None            |
| B Yes             |

| Manufacturer                    | 100 W |
|---------------------------------|-------|
| Mitsubishi Electric Corporation | M     |
| Delta Electronics Co., Ltd.     | M     |
| Sanyo Denki Co., Ltd.           | M     |
| YASKAWA Electric Corporation    | Y     |
| Keyence Corporation             | Y     |
| Panasonic Corporation           | P     |
| OMRON Corporation               | M     |
| Fuji Electric Co., Ltd.         | M     |
| FANUC CORPORATION               | M     |
| Bosch Rexroth AG                | P     |
| Rockwell Automation, Inc.       | M     |
| SIEMENS AG                      | M     |

\*1: For the stroke length per 50 mm, contact CKD.

\*2: Origin sensor and limit sensor are available as a set. As it is both-or-nothing, select "None" for both.

\*Refer to page 461 for the motor model No.

## Specifications

| Applicable motor capacity               | 100 W servo motor                                         |      |
|-----------------------------------------|-----------------------------------------------------------|------|
| Drive method                            | Ball screw ø13                                            |      |
| Stroke length mm                        | 100 to 900                                                |      |
| Screw lead mm                           | 10                                                        | 20   |
| Max. load capacity kg *1 *2             | Horizontal                                                | 26   |
|                                         | Wall-mounted                                              | 19   |
|                                         | Vertical                                                  | 11.5 |
| Max. speed mm/s                         | 500                                                       | 1000 |
| Rated thrust *2 N                       | 179                                                       | 89   |
| Repeatability mm                        | ±0.01                                                     |      |
| Lost motion mm                          | 0.1 or less                                               |      |
| Static allowable load N                 | 3100                                                      |      |
| Static allowable moment N·m             | MP: 147, MY: 147, MR: 149                                 |      |
| Operating ambient temperature, humidity | 0 to 40°C (no freezing)<br>20 to 80% RH (no condensation) |      |
| Storage ambient temperature, humidity   | 0 to 40°C (no freezing)<br>20 to 80% RH (no condensation) |      |
| Atmosphere                              | No corrosive gas, explosive gas, or dust                  |      |

\*1: Values for max. load capacity are at acceleration/deceleration 0.5 G. Refer to page 510 for details.

\*2: Rated thrust and max. load capacity are guideline values assuming that the motor mounted will output the rated torque.

## Stroke and max. speed

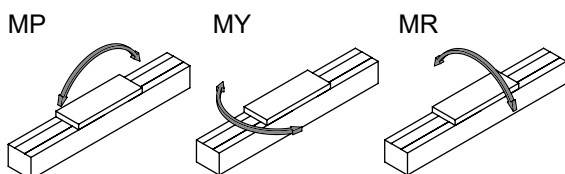
| (mm/s)                      |            |     |     |     |
|-----------------------------|------------|-----|-----|-----|
| Stroke length<br>Screw lead | 100 to 600 | 700 | 800 | 900 |
| 10                          | 500        | 390 | 310 | 250 |
| 20                          | 1000       | 780 | 620 | 500 |

\*The max. speed is the speed when the motor mounted by the customer can output a rotation speed of 3000 rpm.  
The max. speed is restricted by the stroke. Do not move at speeds beyond the limit.

## Allowable overhang length

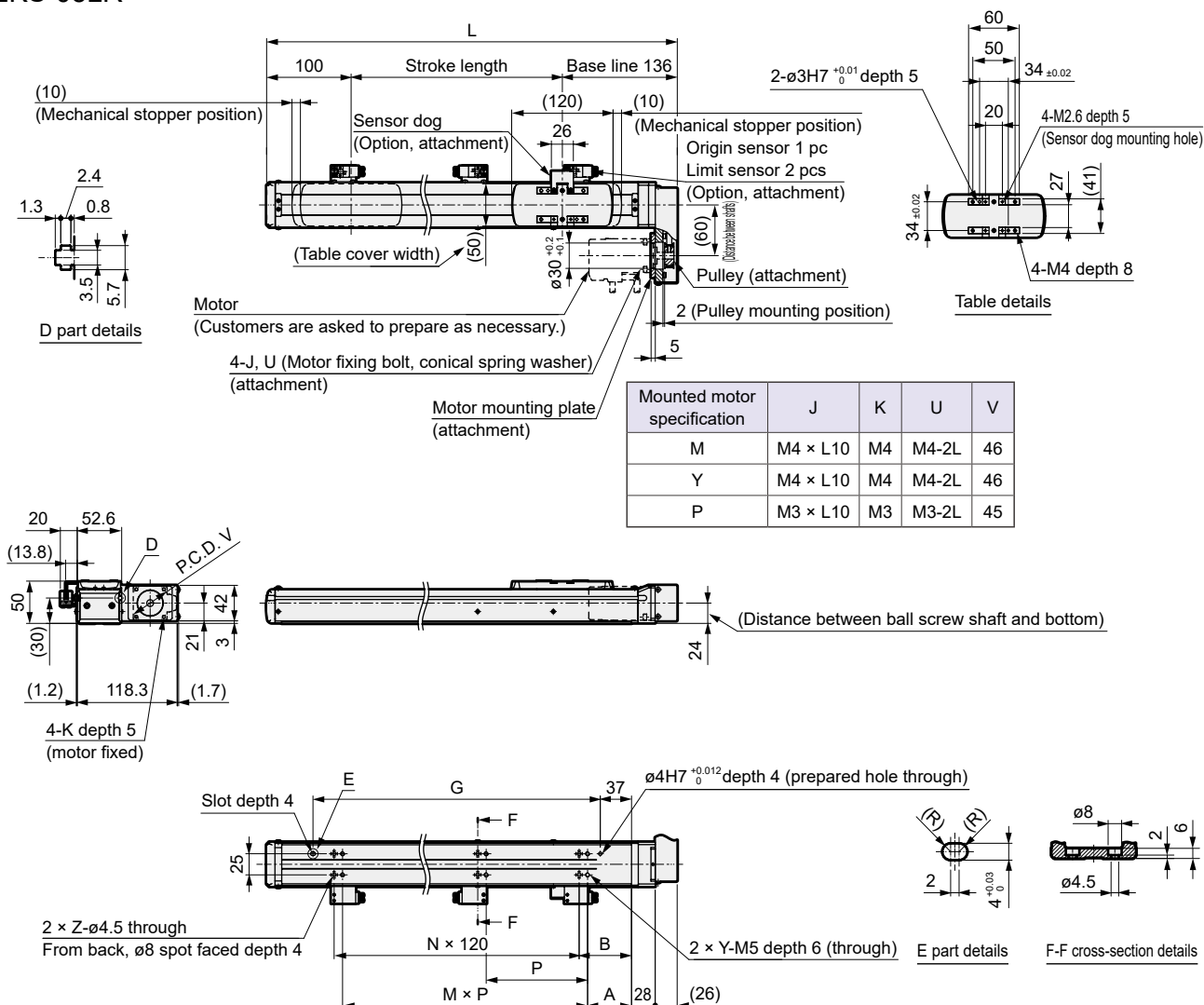
\*Refer to page 504 for details.

## Moment direction



### ● EKS-05LR

#### Dimensions Motor right-side mounting



| Stroke code        | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 |
|--------------------|------|------|------|------|------|------|------|------|------|
| Stroke length (mm) | 100  | 200  | 300  | 400  | 500  | 600  | 700  | 800  | 900  |
| L                  | 336  | 436  | 536  | 636  | 736  | 836  | 936  | 1036 | 1136 |
| A                  | 12   | 52   | 27   | 92   | 82   | 72   | 62   | 52   | 27   |
| B                  | 72   | 62   | 52   | 102  | 92   | 82   | 72   | 62   | 52   |
| G                  | 190  | 290  | 390  | 490  | 590  | 690  | 790  | 890  | 990  |
| M                  | 2    | 2    | 3    | 3    | 4    | 5    | 6    | 7    | 8    |
| N                  | 1    | 2    | 3    | 3    | 4    | 5    | 6    | 7    | 8    |
| P                  | 120  |      |      |      |      |      |      |      |      |
| Y                  | 3    | 3    | 4    | 4    | 5    | 6    | 7    | 8    | 9    |
| Z                  | 2    | 3    | 4    | 4    | 5    | 6    | 7    | 8    | 9    |
| Weight (kg)        | 2.7  | 3.3  | 3.8  | 4.4  | 4.9  | 5.5  | 6    | 6.6  | 7.2  |

#### List of attachments

##### [Motor mounting parts]

| Mounted motor specification | Pulley               | Motor mounting plate fixing bolt | Motor mounting bolt |          |
|-----------------------------|----------------------|----------------------------------|---------------------|----------|
|                             |                      |                                  | Size                | Quantity |
| M                           | Included at shipment | Included at shipment             | M4                  | 4        |
| Y                           |                      |                                  | M4                  | 4        |
| P                           |                      |                                  | M3                  | 4        |

##### [Origin sensor, limit sensor]

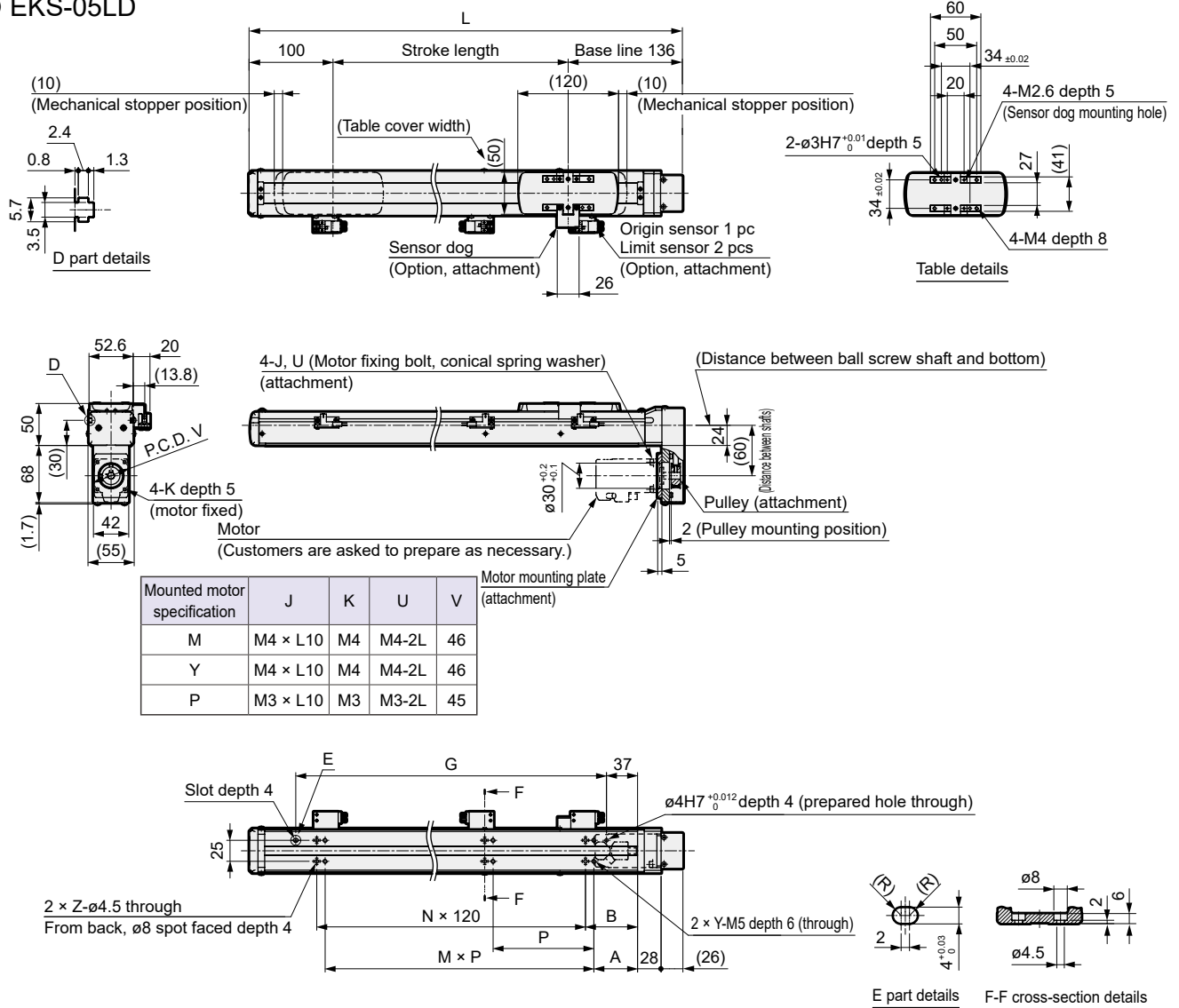
| Manufacturer      | Model    | Included quantity |
|-------------------|----------|-------------------|
| OMRON Corporation | EE-SX674 | 3                 |

\*Refer to page 512 for sensor specifications.

# EKS-05L\*

## Dimensions Motor bottom mounting

### ● EKS-05LD



| Stroke code        | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 |
|--------------------|------|------|------|------|------|------|------|------|------|
| Stroke length (mm) | 100  | 200  | 300  | 400  | 500  | 600  | 700  | 800  | 900  |
| L                  | 336  | 436  | 536  | 636  | 736  | 836  | 936  | 1036 | 1136 |
| A                  | 12   | 52   | 27   | 92   | 82   | 72   | 62   | 52   | 27   |
| B                  | 72   | 62   | 52   | 102  | 92   | 82   | 72   | 62   | 52   |
| G                  | 190  | 290  | 390  | 490  | 590  | 690  | 790  | 890  | 990  |
| M                  | 2    | 2    | 3    | 3    | 4    | 5    | 6    | 7    | 8    |
| N                  | 1    | 2    | 3    | 3    | 4    | 5    | 6    | 7    | 8    |
| P                  | 120  |      |      |      |      |      |      |      |      |
| Y                  | 3    | 3    | 4    | 4    | 5    | 6    | 7    | 8    | 9    |
| Z                  | 2    | 3    | 4    | 4    | 5    | 6    | 7    | 8    | 9    |
| Weight (kg)        | 2.7  | 3.3  | 3.8  | 4.4  | 4.9  | 5.5  | 6    | 6.6  | 7.2  |

## List of attachments

### [Motor mounting parts]

| Mounted motor specification | Pulley               | Motor mounting plate fixing bolt | Motor mounting bolt |          |
|-----------------------------|----------------------|----------------------------------|---------------------|----------|
|                             |                      |                                  | Size                | Quantity |
| M                           | Included at shipment | Included at shipment             | M4                  | 4        |
| Y                           |                      |                                  | M4                  | 4        |
| P                           |                      |                                  | M3                  | 4        |

### [Origin sensor, limit sensor]

| Manufacturer      | Model    | Included quantity |
|-------------------|----------|-------------------|
| OMRON Corporation | EE-SX674 | 3                 |

\*Refer to page 512 for sensor specifications.

### Dimensions Motor left-side mounting

#### ● EKS-05LL

| Mounted motor specification | J        | K  | V     | V  |
|-----------------------------|----------|----|-------|----|
| M                           | M4 × L10 | M4 | M4-2L | 46 |
| Y                           | M4 × L10 | M4 | M4-2L | 46 |
| P                           | M3 × L10 | M3 | M3-2L | 45 |

4-J, U (Motor fixing bolt, conical spring washer)  
(attachment)

Motor  
(Customers are asked to prepare as necessary.)

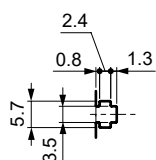
Motor mounting plate (attachment)

2 (Pulley mounting position)

Pulley (attachment)

Distance between shafts

Origin sensor 1 pc  
Limit sensor 2 pcs  
(Option, attachment)



D part details

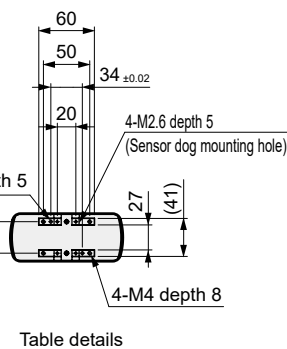
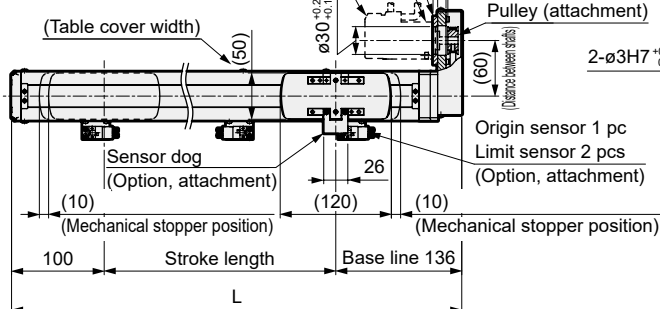
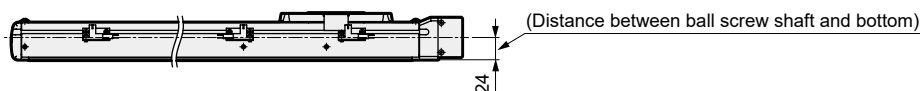
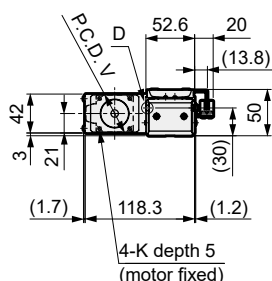
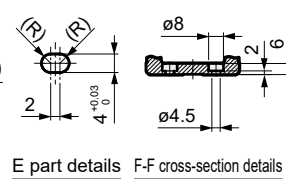
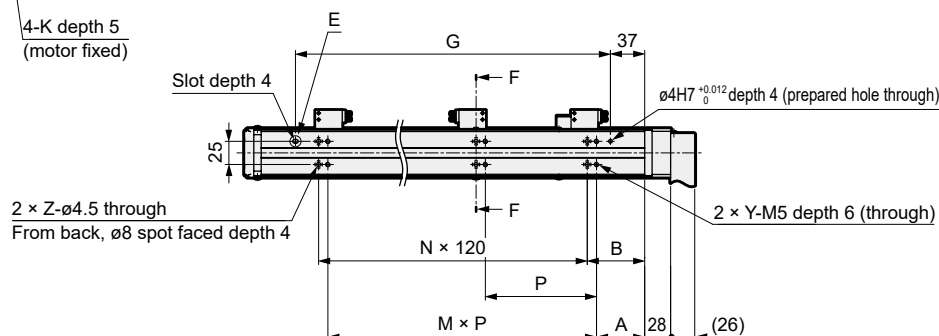


Table details



(Distance between ball screw shaft and bottom)



E part details

F-F cross-section details

| Stroke code        | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 |
|--------------------|------|------|------|------|------|------|------|------|------|
| Stroke length (mm) | 100  | 200  | 300  | 400  | 500  | 600  | 700  | 800  | 900  |
| L                  | 336  | 436  | 536  | 636  | 736  | 836  | 936  | 1036 | 1136 |
| A                  | 12   | 52   | 27   | 92   | 82   | 72   | 62   | 52   | 27   |
| B                  | 72   | 62   | 52   | 102  | 92   | 82   | 72   | 62   | 52   |
| G                  | 190  | 290  | 390  | 490  | 590  | 690  | 790  | 890  | 990  |
| M                  | 2    | 2    | 3    | 3    | 4    | 5    | 6    | 7    | 8    |
| N                  | 1    | 2    | 3    | 3    | 4    | 5    | 6    | 7    | 8    |
| P                  | 120  |      |      |      |      |      |      |      |      |
| Y                  | 3    | 3    | 4    | 4    | 5    | 6    | 7    | 8    | 9    |
| Z                  | 2    | 3    | 4    | 4    | 5    | 6    | 7    | 8    | 9    |
| Weight (kg)        | 2.7  | 3.3  | 3.8  | 4.4  | 4.9  | 5.5  | 6    | 6.6  | 7.2  |

### List of attachments

#### [Motor mounting parts]

| Mounted motor specification | Pulley               | Motor mounting plate fixing bolt | Motor mounting bolt |          |
|-----------------------------|----------------------|----------------------------------|---------------------|----------|
|                             |                      |                                  | Size                | Quantity |
| M                           | Included at shipment | Included at shipment             | M4                  | 4        |
| Y                           |                      |                                  | M4                  | 4        |
| P                           |                      |                                  | M3                  | 4        |

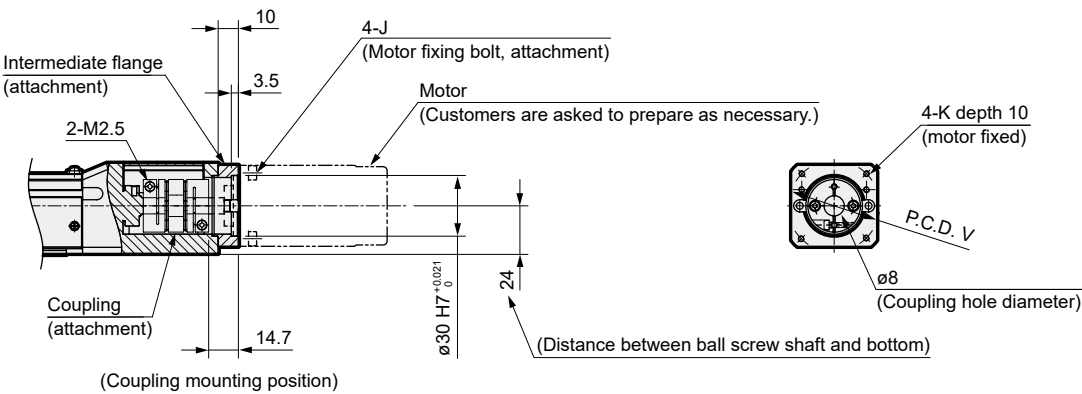
#### [Origin sensor, limit sensor]

| Manufacturer      | Model    | Included quantity |
|-------------------|----------|-------------------|
| OMRON Corporation | EE-SX674 | 3                 |

\*Refer to page 512 for sensor specifications.

Common options

Dimensions for straight motor mounting



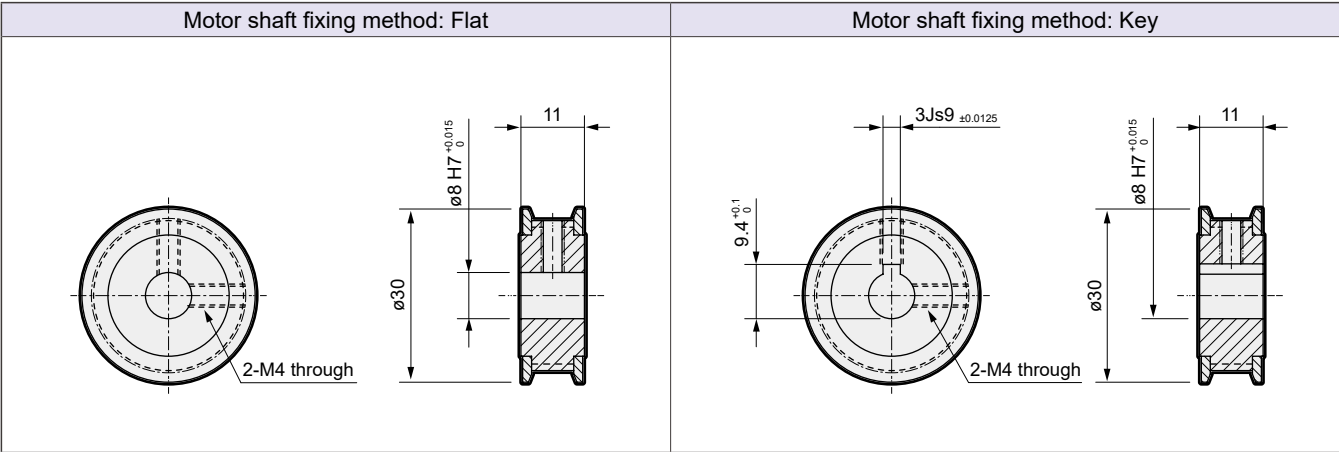
Motor mounting part details

| Mounted motor specification | J        | K  | V  |
|-----------------------------|----------|----|----|
| M                           | M4 × L10 | M4 | 46 |
| Y                           | M4 × L10 | M4 | 46 |
| P                           | M3 × L10 | M3 | 45 |

For motor mounting on side/bottom

Motor shaft fixing method

Pulley (attachment)



MEMO

| Servo motor compatible |     |     |                |     |     |     | Stepper motor compatible |     |     |     | Safety precautions |
|------------------------|-----|-----|----------------|-----|-----|-----|--------------------------|-----|-----|-----|--------------------|
| EBS                    | EBR | ETS | ETS Multi-Axis | ECS | ETV | ECV | EKS                      | EBS | EBR | ETS | ECS                |



Electric actuator (motorless) Slider

# EKS-06LE

Straight motor mounting

● Servo motor capacity: 200 W

## How to order

**EKS** - **06** **L** **E** - **20** **0300** **N** **NN** - **M** **2** **N** **C** **B**

**A** Body size  
06 Body width 64 mm

**B** Motor  
L None

**C** Motor mounting direction  
E Straight mounting

**D** Screw lead  
20 20 mm  
30 30 mm

**E** Stroke length \*1  
0100 100 mm  
to 1300 (In 100 mm increments)  
1300 1300 mm

**F** Brake  
N None

**G** Mounted motor specification  
M Select the mounted motor  
Y specification from the table  
P at right.

**H** Motor capacity  
2 200 W

**I** Motor shaft fixing method  
N For straight mounting

**J** Origin sensor \*2  
N None  
C Yes

**K** Limit sensor \*2  
N None  
B Yes

| Manufacturer                    | 200 W |
|---------------------------------|-------|
| Mitsubishi Electric Corporation | M     |
| Delta Electronics Co., Ltd.     | M     |
| Sanyo Denki Co., Ltd.           | M     |
| YASKAWA Electric Corporation    | Y     |
| Keyence Corporation             | Y     |
| Panasonic Corporation           | P     |
| OMRON Corporation               | P     |
| Fuji Electric Co., Ltd.         | M     |
| Bosch Rexroth AG                | P     |
| Rockwell Automation, Inc.       | M     |
| SIEMENS AG                      | M     |

\*Refer to page 461 for the motor model No.

\*1: For the stroke length per 50 mm, contact CKD.

\*2: Origin sensor and limit sensor are available as a set. As it is both-or-nothing, select "None" for both.

## Specifications

|                                         |                                                           |      |
|-----------------------------------------|-----------------------------------------------------------|------|
| Applicable motor capacity               | 200 W servo motor                                         |      |
| Drive method                            | Ball screw $\phi 15$                                      |      |
| Stroke length mm                        | 100 to 1300                                               |      |
| Screw lead mm                           | 20                                                        | 30   |
| Max. load capacity kg<br>*1 *2          | Horizontal                                                | 42   |
|                                         | Wall-mounted                                              | 20   |
|                                         | Vertical                                                  | 12   |
| Max. speed mm/s                         | 1000                                                      | 1500 |
| Rated thrust *2 N                       | 180                                                       | 120  |
| Repeatability mm                        | $\pm 0.01$                                                |      |
| Lost motion mm                          | 0.1 or less                                               |      |
| Static allowable load N                 | 3250                                                      |      |
| Static allowable moment N·m             | MP: 330, MY: 216, MR: 188                                 |      |
| Operating ambient temperature, humidity | 0 to 40°C (no freezing)<br>20 to 80% RH (no condensation) |      |
| Storage ambient temperature, humidity   | 0 to 40°C (no freezing)<br>20 to 80% RH (no condensation) |      |
| Atmosphere                              | No corrosive gas, explosive gas, or dust                  |      |

\*1: Values for max. load capacity are at acceleration/deceleration 0.5 G.  
Refer to page 510 for details.

\*2: Rated thrust and max. load capacity are guideline values assuming that the motor mounted will output the rated torque.

## Stroke and max. speed

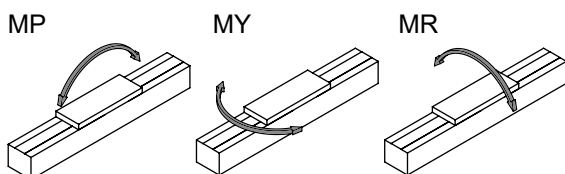
|            |               | (mm/s)        |      |      |     |      |      |      |
|------------|---------------|---------------|------|------|-----|------|------|------|
| Screw lead | Stroke length | 100 up to 600 | 700  | 800  | 900 | 1000 | 1100 | 1200 |
|            |               | 600           | 700  | 800  | 900 | 1000 | 1100 | 1200 |
| 20         |               | 1000          | 980  | 770  | 630 | 520  | 430  | 370  |
| 30         |               | 1500          | 1480 | 1160 | 940 | 780  | 650  | 550  |

\*The max. speed is the speed when the motor mounted by the customer can output a rotation speed of 3000 rpm.  
The max. speed is restricted by the stroke. Do not move at speeds beyond the limit.

## Allowable overhang length

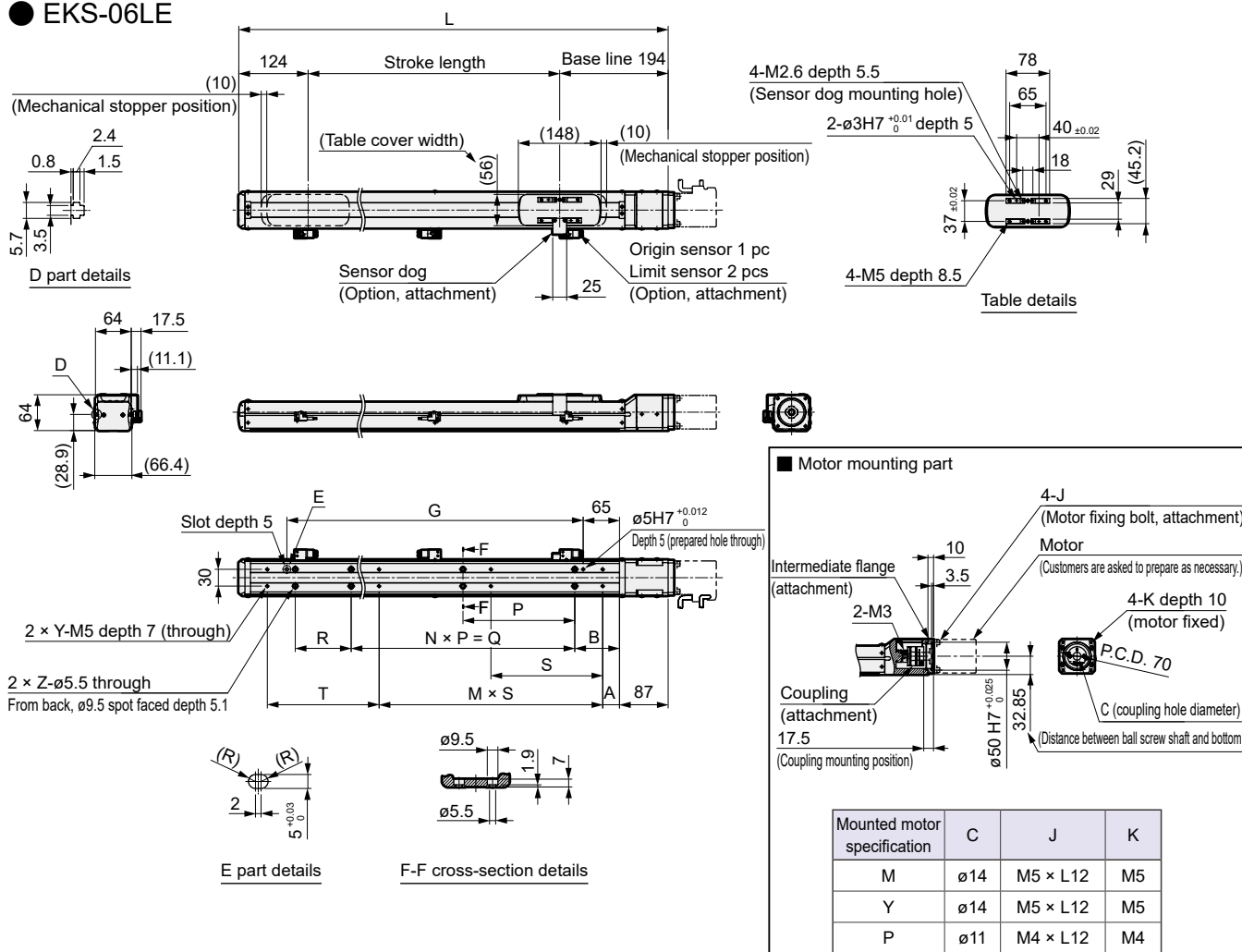
\*Refer to page 504 for details.

## Moment direction



### Dimensions Straight motor mounting

#### ● EKS-06LE



| Stroke code        | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Stroke length (mm) | 100  | 200  | 300  | 400  | 500  | 600  | 700  | 800  | 900  | 1000 | 1100 | 1200 | 1300 |
| L                  | 418  | 518  | 618  | 718  | 818  | 918  | 1018 | 1118 | 1218 | 1318 | 1418 | 1518 | 1618 |
| A                  | 55   | 55   | 55   | 55   | 55   | 55   | 55   | 55   | 55   | 55   | 55   | 55   | 55   |
| B                  | 105  | 105  | 105  | 105  | 105  | 105  | 105  | 105  | 105  | 105  | 105  | 105  | 105  |
| G                  | 180  | 280  | 380  | 480  | 580  | 680  | 780  | 880  | 980  | 1080 | 1180 | 1280 | 1380 |
| M                  | 2    | 1    | 2    | 2    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    | 7    |
| N                  | -    | -    | -    | 2    | 2    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    |
| P                  | 100  | 200  |      |      |      |      |      |      |      |      |      |      |      |
| Q                  | -    | -    | -    | 400  | 400  | 600  | 600  | 800  | 800  | 1000 | 1000 | 1200 | 1200 |
| R                  | -    | -    | 100  | -    | 100  | -    | 100  | -    | 100  | -    | 100  | -    | 100  |
| S                  | 100  | 200  |      |      |      |      |      |      |      |      |      |      |      |
| T                  | -    | 100  | -    | 100  | -    | 100  | -    | 100  | -    | 100  | -    | 100  | -    |
| Y                  | 3    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    | 7    | 7    | 8    | 8    |
| Z                  | 2    | 2    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    | 7    | 7    | 8    |
| Weight (kg)        | 4.3  | 5.1  | 5.8  | 6.6  | 7.4  | 8.2  | 8.9  | 9.7  | 10.5 | 11.3 | 12   | 12.8 | 13.6 |

### List of attachments

#### [Motor mounting parts]

| Mounted motor specification | Coupling             | Intermediate flange fixing bolt | Motor mounting bolt |          |
|-----------------------------|----------------------|---------------------------------|---------------------|----------|
|                             |                      |                                 | Size                | Quantity |
| M                           | Included at shipment | Included at shipment            | M5                  | 4        |
| Y                           |                      |                                 | M5                  | 4        |
| P                           |                      |                                 | M4                  | 4        |

#### [Origin sensor, limit sensor]

| Manufacturer      | Model    | Included quantity |
|-------------------|----------|-------------------|
| OMRON Corporation | EE-SX674 | 3                 |

\*Refer to page 512 for sensor specifications.



Electric actuator (motorless) Slider

# EKS-06L\*

Motor side mounting (left, right, bottom)

● Servo motor capacity: 200 W

## How to order

**EKS** - **06** **L** **R** - **20** **0300** **N** **NN** - **M** **2** **D** **C** **B**

|                     |
|---------------------|
| <b>A</b> Body size  |
| 06 Body width 64 mm |

|                |
|----------------|
| <b>B</b> Motor |
| L None         |

|                                   |
|-----------------------------------|
| <b>C</b> Motor mounting direction |
| R Right mounting                  |
| D Bottom mounting                 |
| L Left mounting                   |

|                     |
|---------------------|
| <b>D</b> Screw lead |
| 20 20 mm            |
| 30 30 mm            |

|                           |
|---------------------------|
| <b>E</b> Stroke length *1 |
| 0100 100 mm               |
| to (In 100 mm increments) |
| 1300 1300 mm              |

|                |
|----------------|
| <b>F</b> Brake |
| N None         |

|                                      |
|--------------------------------------|
| <b>G</b> Mounted motor specification |
| M Select the mounted motor           |
| Y specification from the table       |
| P at right.                          |

|                         |
|-------------------------|
| <b>H</b> Motor capacity |
| 2 200 W                 |

|                                    |
|------------------------------------|
| <b>I</b> Motor shaft fixing method |
| D Flat                             |
| K Key                              |
| M Friction locking                 |

|                           |
|---------------------------|
| <b>J</b> Origin sensor *2 |
| N None                    |
| C Yes                     |

|                          |
|--------------------------|
| <b>K</b> Limit sensor *2 |
| N None                   |
| B Yes                    |

| Manufacturer                    | 200 W |
|---------------------------------|-------|
| Mitsubishi Electric Corporation | M     |
| Delta Electronics Co., Ltd.     | M     |
| Sanyo Denki Co., Ltd.           | M     |
| YASKAWA Electric Corporation    | Y     |
| Keyence Corporation             | Y     |
| Panasonic Corporation           | P     |
| OMRON Corporation               | P     |
| Fuji Electric Co., Ltd.         | M     |
| Bosch Rexroth AG                | P     |
| Rockwell Automation, Inc.       | M     |
| SIEMENS AG                      | M     |

\*Refer to page 461 for the motor model No.

\*1: For the stroke length per 50 mm, contact CKD.

\*2: Origin sensor and limit sensor are available as a set. As it is both-or-nothing, select "None" for both.

## Specifications

|                                         |                                                           |          |
|-----------------------------------------|-----------------------------------------------------------|----------|
| Applicable motor capacity               | 200 W servo motor                                         |          |
| Drive method                            | Ball screw $\phi 15$                                      |          |
| Stroke length mm                        | 100 to 1300                                               |          |
| Screw lead mm                           | 20                                                        | 30       |
| Max. load capacity kg *1 *2             | Horizontal                                                | Vertical |
|                                         | 41                                                        | 19       |
|                                         | 20                                                        | 18       |
|                                         | 10.5                                                      | 6.5      |
| Max. speed mm/s                         | 1000                                                      | 1500     |
| Rated thrust *2 N                       | 180                                                       | 120      |
| Repeatability mm                        | $\pm 0.01$                                                |          |
| Lost motion mm                          | 0.1 or less                                               |          |
| Static allowable load N                 | 3250                                                      |          |
| Static allowable moment N·m             | MP: 330, MY: 216, MR: 188                                 |          |
| Operating ambient temperature, humidity | 0 to 40°C (no freezing)<br>20 to 80% RH (no condensation) |          |
| Storage ambient temperature, humidity   | 0 to 40°C (no freezing)<br>20 to 80% RH (no condensation) |          |
| Atmosphere                              | No corrosive gas, explosive gas, or dust                  |          |

\*1: Values for max. load capacity are at acceleration/deceleration 0.5 G.

Refer to page 510 for details.

\*2: Rated thrust and max. load capacity are guideline values assuming that the motor mounted will output the rated torque.

## Stroke and max. speed

|            |               | (mm/s)     |      |      |     |      |      |      |
|------------|---------------|------------|------|------|-----|------|------|------|
| Screw lead | Stroke length | 100 to 600 | 700  | 800  | 900 | 1000 | 1100 | 1200 |
|            |               | 1300       |      |      |     |      |      |      |
| 20         |               | 1000       | 980  | 770  | 630 | 520  | 430  | 370  |
| 30         |               | 1500       | 1480 | 1160 | 940 | 780  | 650  | 550  |
|            |               |            |      |      |     |      |      | 480  |

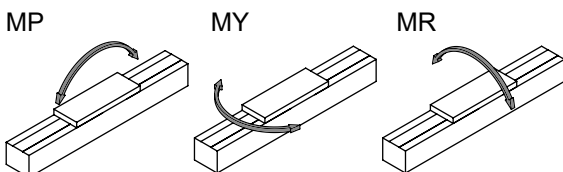
\*The max. speed is the speed when the motor mounted by the customer can output a rotation speed of 3000 rpm.

The max. speed is restricted by the stroke. Do not move at speeds beyond the limit.

## Allowable overhang length

\*Refer to page 504 for details.

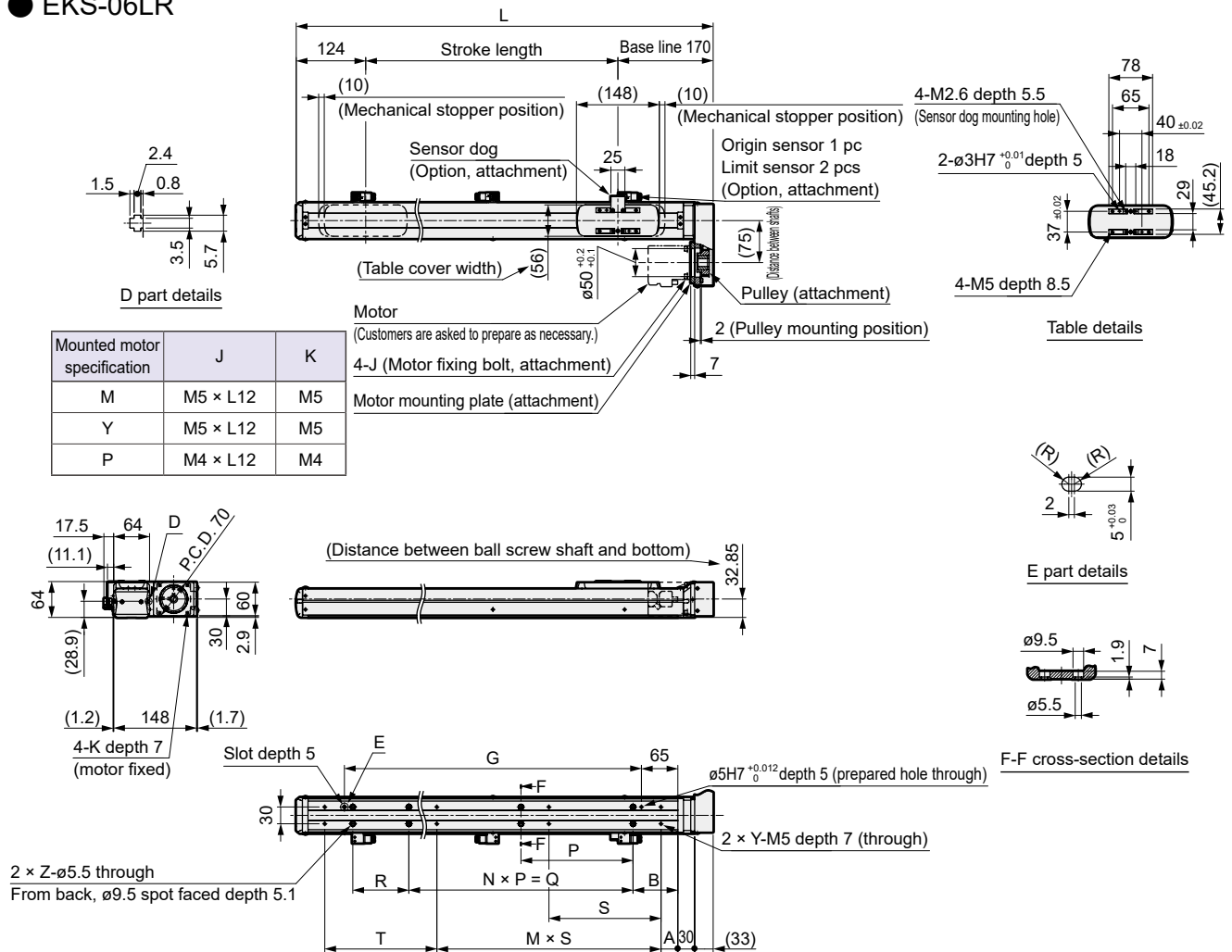
## Moment direction



Safety precautions

## Dimensions Motor right-side mounting

● EKS-06LR



| Stroke code        | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Stroke length (mm) | 100  | 200  | 300  | 400  | 500  | 600  | 700  | 800  | 900  | 1000 | 1100 | 1200 | 1300 |
| L                  | 394  | 494  | 594  | 694  | 794  | 894  | 994  | 1094 | 1194 | 1294 | 1394 | 1494 | 1594 |
| A                  | 55   | 55   | 55   | 55   | 55   | 55   | 55   | 55   | 55   | 55   | 55   | 55   | 55   |
| B                  | 105  | 105  | 105  | 105  | 105  | 105  | 105  | 105  | 105  | 105  | 105  | 105  | 105  |
| G                  | 180  | 280  | 380  | 480  | 580  | 680  | 780  | 880  | 980  | 1080 | 1180 | 1280 | 1380 |
| M                  | 2    | 1    | 2    | 2    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    | 7    |
| N                  | -    | -    | -    | 2    | 2    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    |
| P                  | 100  | 200  |      |      |      |      |      |      |      |      |      |      |      |
| Q                  | -    | -    | -    | 400  | 400  | 600  | 600  | 800  | 800  | 1000 | 1000 | 1200 | 1200 |
| R                  | -    | -    | 100  | -    | 100  | -    | 100  | -    | 100  | -    | 100  | -    | 100  |
| S                  | 100  | 200  |      |      |      |      |      |      |      |      |      |      |      |
| T                  | -    | 100  | -    | 100  | -    | 100  | -    | 100  | -    | 100  | -    | 100  | -    |
| Y                  | 3    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    | 7    | 7    | 8    | 8    |
| Z                  | 2    | 2    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    | 7    | 7    | 8    |
| Weight (kg)        | 4.9  | 5.6  | 6.4  | 7.2  | 8    | 8.7  | 9.5  | 10.3 | 11.1 | 11.8 | 12.6 | 13.4 | 14.2 |

## List of attachments

[Motor mounting parts]

| Mounted motor specification | Pulley               | Motor mounting plate fixing bolt | Motor mounting bolt |          |
|-----------------------------|----------------------|----------------------------------|---------------------|----------|
|                             |                      |                                  | Size                | Quantity |
| M                           | Included at shipment | Included at shipment             | M5                  | 4        |
| Y                           |                      |                                  | M5                  | 4        |
| P                           |                      |                                  | M4                  | 4        |

[Origin sensor, limit sensor]

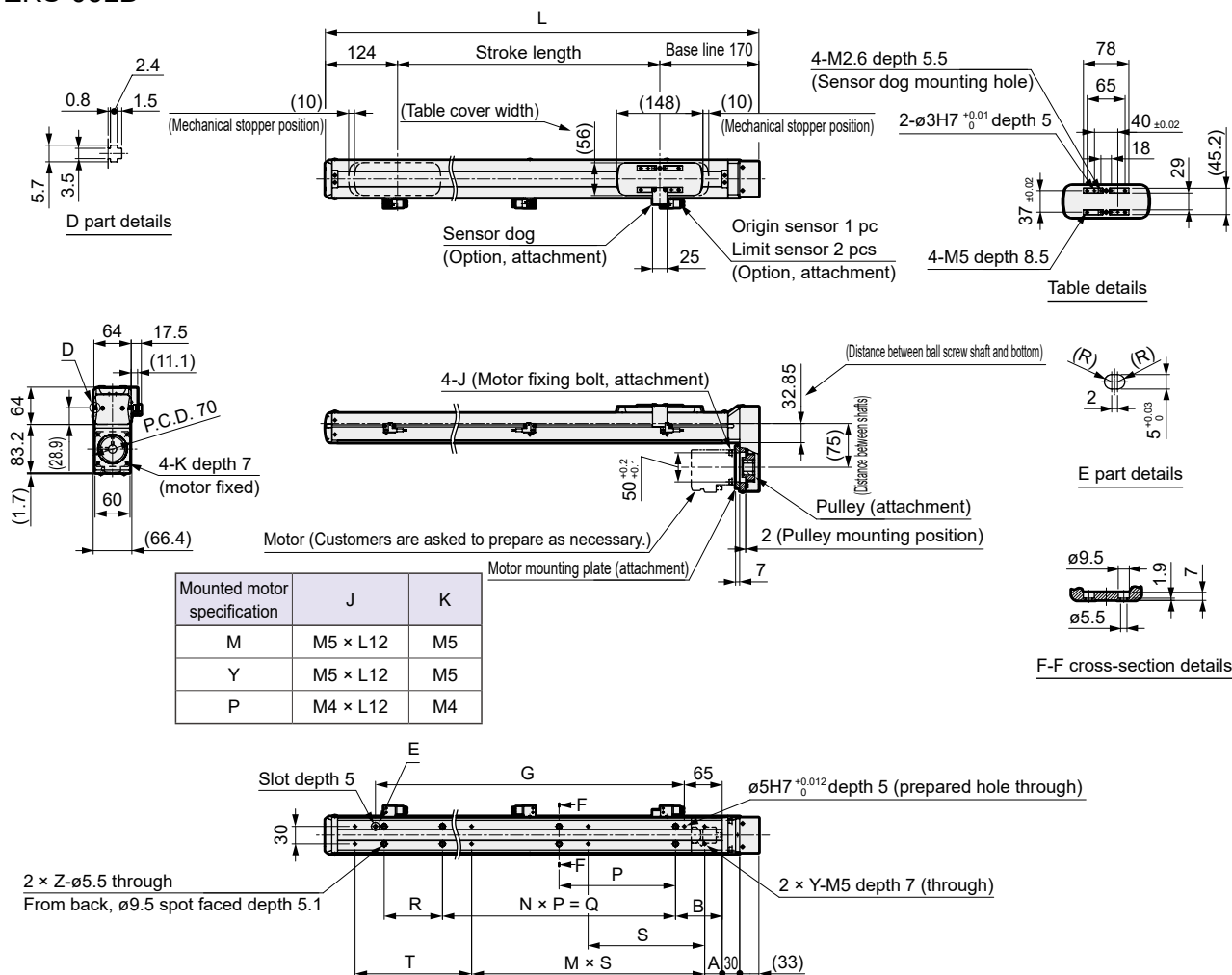
| Manufacturer      | Model    | Included quantity |
|-------------------|----------|-------------------|
| OMRON Corporation | EE-SX674 | 3                 |

\*Refer to page 512 for sensor specifications.

# EKS-06L\*

## Dimensions Motor bottom mounting

● EKS-06LD



| Stroke code        | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Stroke length (mm) | 100  | 200  | 300  | 400  | 500  | 600  | 700  | 800  | 900  | 1000 | 1100 | 1200 | 1300 |
| L                  | 394  | 494  | 594  | 694  | 794  | 894  | 994  | 1094 | 1194 | 1294 | 1394 | 1494 | 1594 |
| A                  | 55   | 55   | 55   | 55   | 55   | 55   | 55   | 55   | 55   | 55   | 55   | 55   | 55   |
| B                  | 105  | 105  | 105  | 105  | 105  | 105  | 105  | 105  | 105  | 105  | 105  | 105  | 105  |
| G                  | 180  | 280  | 380  | 480  | 580  | 680  | 780  | 880  | 980  | 1080 | 1180 | 1280 | 1380 |
| M                  | 2    | 1    | 2    | 2    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    | 7    |
| N                  | -    | -    | -    | 2    | 2    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    |
| P                  | 100  | 200  |      |      |      |      |      |      |      |      |      |      |      |
| Q                  | -    | -    | -    | 400  | 400  | 600  | 600  | 800  | 800  | 1000 | 1000 | 1200 | 1200 |
| R                  | -    | -    | 100  | -    | 100  | -    | 100  | -    | 100  | -    | 100  | -    | 100  |
| S                  | 100  | 200  |      |      |      |      |      |      |      |      |      |      |      |
| T                  | -    | 100  | -    | 100  | -    | 100  | -    | 100  | -    | 100  | -    | 100  | -    |
| Y                  | 3    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    | 7    | 7    | 8    | 8    |
| Z                  | 2    | 2    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    | 7    | 7    | 8    |
| Weight (kg)        | 4.9  | 5.6  | 6.4  | 7.2  | 8    | 8.7  | 9.5  | 10.3 | 11.1 | 11.8 | 12.6 | 13.4 | 14.2 |

## List of attachments

[Motor mounting parts]

| Mounted motor specification | Pulley               | Motor mounting plate fixing bolt | Motor mounting bolt |          |
|-----------------------------|----------------------|----------------------------------|---------------------|----------|
|                             |                      |                                  | Size                | Quantity |
| M                           | Included at shipment | Included at shipment             | M5                  | 4        |
| Y                           |                      |                                  | M5                  | 4        |
| P                           |                      |                                  | M4                  | 4        |

[Origin sensor, limit sensor]

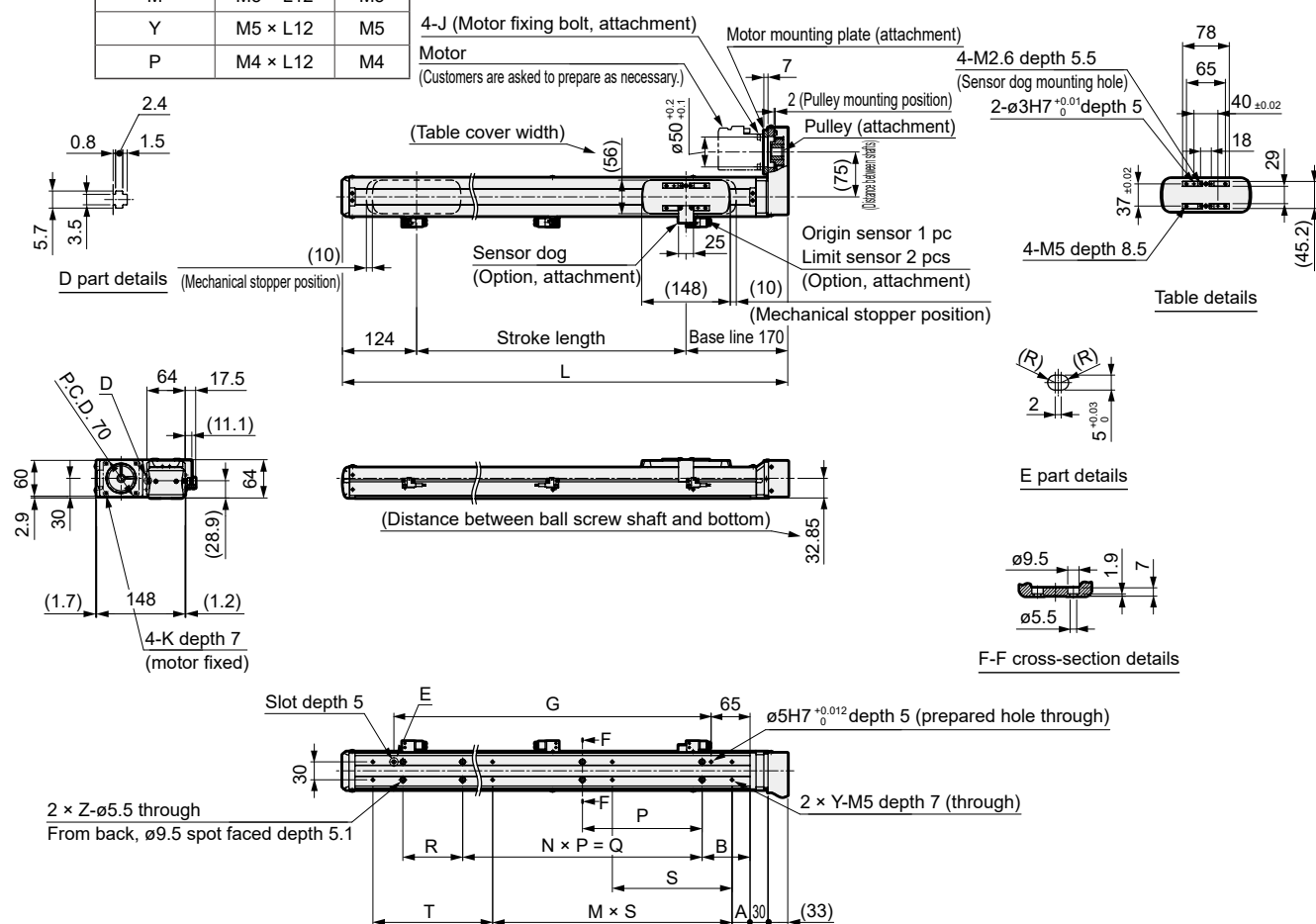
| Manufacturer      | Model    | Included quantity |
|-------------------|----------|-------------------|
| OMRON Corporation | EE-SX674 | 3                 |

\*Refer to page 512 for sensor specifications.

## Dimensions Motor left-side mounting

## ● EKS-06LL

| Mounted motor specification | J        | K  |
|-----------------------------|----------|----|
| M                           | M5 × L12 | M5 |
| Y                           | M5 × L12 | M5 |
| P                           | M4 × L12 | M4 |



| Stroke code        | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Stroke length (mm) | 100  | 200  | 300  | 400  | 500  | 600  | 700  | 800  | 900  | 1000 | 1100 | 1200 | 1300 |
| L                  | 394  | 494  | 594  | 694  | 794  | 894  | 994  | 1094 | 1194 | 1294 | 1394 | 1494 | 1594 |
| A                  | 55   | 55   | 55   | 55   | 55   | 55   | 55   | 55   | 55   | 55   | 55   | 55   | 55   |
| B                  | 105  | 105  | 105  | 105  | 105  | 105  | 105  | 105  | 105  | 105  | 105  | 105  | 105  |
| G                  | 180  | 280  | 380  | 480  | 580  | 680  | 780  | 880  | 980  | 1080 | 1180 | 1280 | 1380 |
| M                  | 2    | 1    | 2    | 2    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    | 7    |
| N                  | -    | -    | -    | 2    | 2    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    |
| P                  | 100  | 200  |      |      |      |      |      |      |      |      |      |      |      |
| Q                  | -    | -    | -    | 400  | 400  | 600  | 600  | 800  | 800  | 1000 | 1000 | 1200 | 1200 |
| R                  | -    | -    | 100  | -    | 100  | -    | 100  | -    | 100  | -    | 100  | -    | 100  |
| S                  | 100  | 200  |      |      |      |      |      |      |      |      |      |      |      |
| T                  | -    | 100  | -    | 100  | -    | 100  | -    | 100  | -    | 100  | -    | 100  | -    |
| Y                  | 3    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    | 7    | 7    | 8    | 8    |
| Z                  | 2    | 2    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    | 7    | 7    | 8    |
| Weight (kg)        | 4.9  | 5.6  | 6.4  | 7.2  | 8    | 8.7  | 9.5  | 10.3 | 11.1 | 11.8 | 12.6 | 13.4 | 14.2 |

## List of attachments

## [Motor mounting parts]

| Mounted motor specification | Pulley               | Motor mounting plate fixing bolt | Motor mounting bolt |          |
|-----------------------------|----------------------|----------------------------------|---------------------|----------|
|                             |                      |                                  | Size                | Quantity |
| M                           | Included at shipment | Included at shipment             | M5                  | 4        |
| Y                           |                      |                                  | M5                  | 4        |
| P                           |                      |                                  | M4                  | 4        |

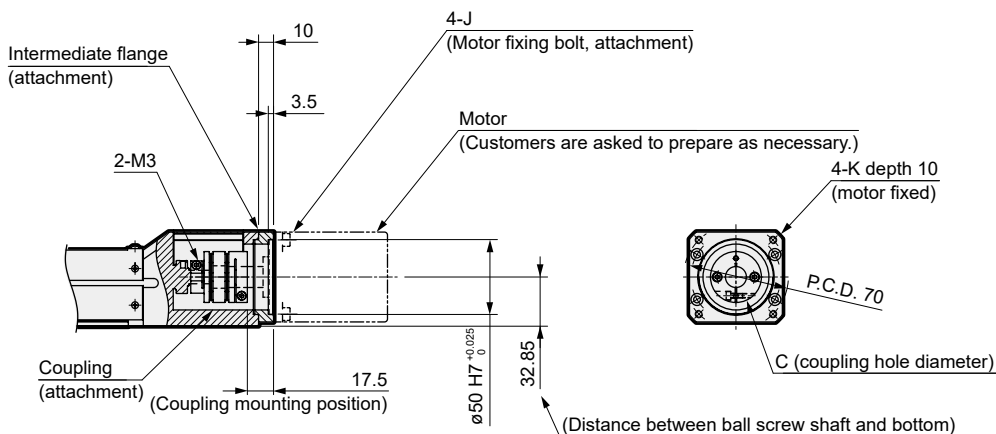
## [Origin sensor, limit sensor]

| Manufacturer      | Model    | Included quantity |
|-------------------|----------|-------------------|
| OMRON Corporation | EE-SX674 | 3                 |

\*Refer to page 512 for sensor specifications.

## Common options

### Dimensions for straight motor mounting



Motor mounting part details

| Mounted motor specification | C   | J        | K  |
|-----------------------------|-----|----------|----|
| M                           | ø14 | M5 × L12 | M5 |
| Y                           | ø14 | M5 × L12 | M5 |
| P                           | ø11 | M4 × L12 | M4 |

### For motor mounting on side/bottom

Motor shaft fixing method

Pulley (attachment)

| Mounted motor specification: M, Y<br>Motor shaft fixing method: Key                       |  | Mounted motor specification: P<br>Motor shaft fixing method: Key                 |                                                                               |
|-------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
|                                                                                           |  |                                                                                  |                                                                               |
| Motor shaft fixing method: Flat                                                           |  | Mounted motor specification: M, Y<br>Motor shaft fixing method: Friction locking | Mounted motor specification: P<br>Motor shaft fixing method: Friction locking |
| <p>Mounted motor specification: For P</p> <p>Mounted motor specification: For M and Y</p> |  |                                                                                  |                                                                               |

MEMO

| Servo motor compatible |     |     |                |     |     |     | Stepper motor compatible |     |     |     | Safety precautions |
|------------------------|-----|-----|----------------|-----|-----|-----|--------------------------|-----|-----|-----|--------------------|
| EBS                    | EBR | ETS | ETS Multi-Axis | ECS | ETV | ECV | EKS                      | EBS | EBR | ETS | ECS                |



Electric actuator (motorless) Slider

# EKS-08LE

Straight motor mounting

● Servo motor capacity: 400 W

## How to order

**EKS** - **08** **L** **E** - **20** **0300** **N** **NN** - **M** **4** **N** **C** **B**

|                     |
|---------------------|
| <b>A</b> Body size  |
| 08 Body width 84 mm |

|                |
|----------------|
| <b>B</b> Motor |
| L None         |

|                                   |
|-----------------------------------|
| <b>C</b> Motor mounting direction |
| E Straight mounting               |

|                     |
|---------------------|
| <b>D</b> Screw lead |
| 20 20 mm            |
| 40 40 mm            |

|                        |
|------------------------|
| <b>E</b> Stroke length |
| 0100 100 mm            |
| to 1500 1500 mm        |
| (In 100 mm increments) |

|                |
|----------------|
| <b>F</b> Brake |
| N None         |

|                                      |
|--------------------------------------|
| <b>G</b> Mounted motor specification |
| M Select the mounted motor           |
| Y specification from the table       |
| P at right.                          |

|                         |
|-------------------------|
| <b>H</b> Motor capacity |
| 4 400 W                 |

|                                    |
|------------------------------------|
| <b>I</b> Motor shaft fixing method |
| N For straight mounting            |

|                           |
|---------------------------|
| <b>J</b> Origin sensor *1 |
| N None                    |
| C Yes                     |

|                          |
|--------------------------|
| <b>K</b> Limit sensor *1 |
| N None                   |
| B Yes                    |

| Manufacturer                    | 400 W |
|---------------------------------|-------|
| Mitsubishi Electric Corporation | M     |
| Delta Electronics Co., Ltd.     | M     |
| Sanyo Denki Co., Ltd.           | M     |
| YASKAWA Electric Corporation    | Y     |
| Keyence Corporation             | Y     |
| Panasonic Corporation           | P     |
| OMRON Corporation               | P     |
| Fuji Electric Co., Ltd.         | M     |
| Bosch Rexroth AG                | P     |
| Rockwell Automation, Inc.       | M     |
| SIEMENS AG                      | M     |

\*1: Origin sensor and limit sensor are available as a set. As it is both-or-nothing, select "None" for both.

\*Refer to page 461 for the motor model No.

## Specifications

|                                         |                                                           |      |
|-----------------------------------------|-----------------------------------------------------------|------|
| Applicable motor capacity               | 400 W servo motor                                         |      |
| Drive method                            | Ball screw ø20                                            |      |
| Stroke length mm                        | 100 to 1500                                               |      |
| Screw lead mm                           | 20                                                        | 40   |
| Max. load capacity kg<br>*1 *2          | Horizontal                                                | 83.5 |
|                                         | Wall-mounted                                              | 45   |
|                                         | Vertical                                                  | 23.5 |
| Max. speed mm/s                         | 1000                                                      | 2000 |
| Rated thrust *2 N                       | 359                                                       | 179  |
| Repeatability mm                        | ±0.01                                                     |      |
| Lost motion mm                          | 0.1 or less                                               |      |
| Static allowable load N                 | 4000                                                      |      |
| Static allowable moment N·m             | MP: 730, MY: 437, MR: 387                                 |      |
| Operating ambient temperature, humidity | 0 to 40°C (no freezing)<br>20 to 80% RH (no condensation) |      |
| Storage ambient temperature, humidity   | 0 to 40°C (no freezing)<br>20 to 80% RH (no condensation) |      |
| Atmosphere                              | No corrosive gas, explosive gas, or dust                  |      |

\*1: Values for max. load capacity are at acceleration/deceleration 0.5 G.  
Refer to page 510 for details.

\*2: Rated thrust and max. load capacity are guideline values assuming that the motor mounted will output the rated torque.

## Stroke and max. speed

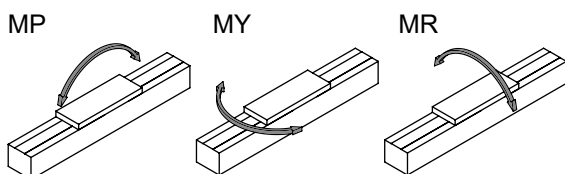
|            |               | (mm/s)     |      |      |      |      |      |      |      |      |
|------------|---------------|------------|------|------|------|------|------|------|------|------|
| Screw lead | Stroke length | 100 to 700 | 800  | 900  | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |
|            |               | 1000       | 980  | 800  | 670  | 560  | 480  | 420  | 360  | 320  |
| 20         |               | 1000       | 980  | 800  | 670  | 560  | 480  | 420  | 360  | 320  |
| 40         |               | 2000       | 1970 | 1610 | 1340 | 1130 | 970  | 840  | 730  | 650  |

\*The max. speed is the speed when the motor mounted by the customer can output a rotation speed of 3000 rpm.  
The max. speed is restricted by the stroke. Do not move at speeds beyond the limit.

## Allowable overhang length

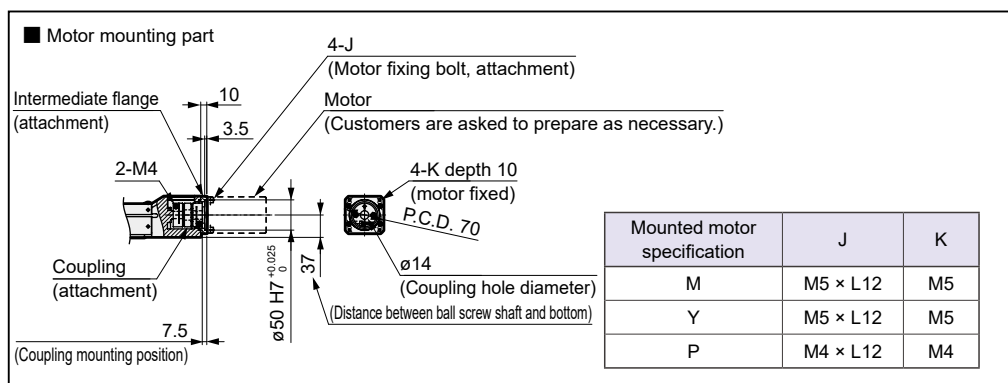
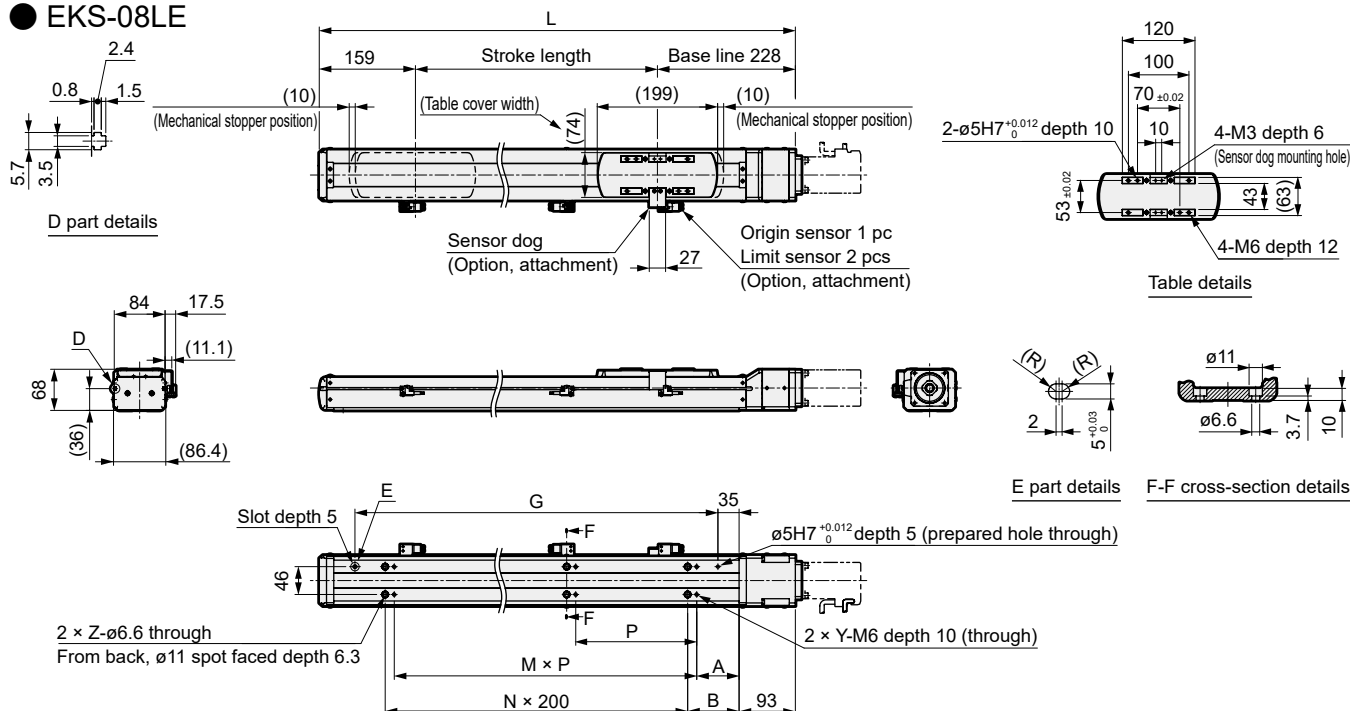
\*Refer to page 504 for details.

## Moment direction



### Dimensions Straight motor mounting

#### ● EKS-08LE



| Stroke code        | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Stroke length (mm) | 100  | 200  | 300  | 400  | 500  | 600  | 700  | 800  | 900  | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |
| L                  | 487  | 587  | 687  | 787  | 887  | 987  | 1087 | 1187 | 1287 | 1387 | 1487 | 1587 | 1687 | 1787 | 1887 |
| A                  | 65   | 25   | 70   | 120  | 70   | 120  | 70   | 120  | 70   | 120  | 70   | 120  | 70   | 120  | 70   |
| B                  | 85   | 135  | 85   | 135  | 85   | 135  | 85   | 135  | 85   | 135  | 85   | 135  | 85   | 135  | 85   |
| G                  | 300  | 400  | 500  | 600  | 700  | 800  | 900  | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 |
| M                  | 2    | 2    | 2    | 2    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    | 7    | 7    | 8    |
| N                  | 1    | 1    | 2    | 2    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    | 7    | 7    | 8    |
| P                  | 120  | 200  |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Y                  | 3    | 3    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    | 7    | 7    | 8    | 8    | 9    |
| Z                  | 2    | 2    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    | 7    | 7    | 8    | 8    | 9    |
| Weight (kg)        | 8.1  | 9.4  | 10.7 | 12   | 13.3 | 14.6 | 15.9 | 17.2 | 18.5 | 19.8 | 21.1 | 22.4 | 23.7 | 25   | 26.3 |

### List of attachments

#### [Motor mounting parts]

| Mounted motor specification | Coupling             | Intermediate flange fixing bolt | Motor mounting bolt |          |
|-----------------------------|----------------------|---------------------------------|---------------------|----------|
|                             |                      |                                 | Size                | Quantity |
| M                           | Included at shipment | Included at shipment            | M5                  | 4        |
| Y                           |                      |                                 | M5                  | 4        |
| P                           |                      |                                 | M4                  | 4        |

#### [Origin sensor, limit sensor]

| Manufacturer      | Model    | Included quantity |
|-------------------|----------|-------------------|
| OMRON Corporation | EE-SX674 | 3                 |

\*Refer to page 512 for sensor specifications.



Electric actuator (motorless) Slider

# EKS-08L\*

Motor side mounting (left, right, bottom)

● Servo motor capacity: 400 W

## How to order

**EKS** - **08** **L** **R** - **20** **0300** **N** **NN** - **M** **4** **M** **C** **B**

|                     |
|---------------------|
| <b>A</b> Body size  |
| 08 Body width 84 mm |

|                |
|----------------|
| <b>B</b> Motor |
| L None         |

|                                   |
|-----------------------------------|
| <b>C</b> Motor mounting direction |
| R Right mounting                  |
| D Bottom mounting                 |
| L Left mounting                   |

|                     |
|---------------------|
| <b>D</b> Screw lead |
| 20 20 mm            |
| 40 40 mm            |

|                        |
|------------------------|
| <b>E</b> Stroke length |
| 0100 100 mm            |
| to 1500 1500 mm        |
| (In 100 mm increments) |

|                |
|----------------|
| <b>F</b> Brake |
| N None         |

|                                                                   |
|-------------------------------------------------------------------|
| <b>G</b> Mounted motor specification                              |
| M Select the mounted motor specification from the table at right. |
| Y                                                                 |
| P                                                                 |

|                         |
|-------------------------|
| <b>H</b> Motor capacity |
| 4 400 W                 |

|                                    |
|------------------------------------|
| <b>I</b> Motor shaft fixing method |
| M Friction locking                 |

|                           |
|---------------------------|
| <b>J</b> Origin sensor *1 |
| N None                    |
| C Yes                     |

|                          |
|--------------------------|
| <b>K</b> Limit sensor *1 |
| N None                   |
| B Yes                    |

| Manufacturer                    | 400 W |
|---------------------------------|-------|
| Mitsubishi Electric Corporation | M     |
| Delta Electronics Co., Ltd.     | M     |
| Sanyo Denki Co., Ltd.           | M     |
| YASKAWA Electric Corporation    | Y     |
| Keyence Corporation             | Y     |
| Panasonic Corporation           | P     |
| OMRON Corporation               | P     |
| Fuji Electric Co., Ltd.         | M     |
| Bosch Rexroth AG                | P     |
| Rockwell Automation, Inc.       | M     |
| SIEMENS AG                      | M     |

\*1 Origin sensor and limit sensor are available as a set. As it is both-or-nothing, select "None" for both.

\*Refer to page 461 for the motor model No.

## Specifications

|                                         |                                                           |      |
|-----------------------------------------|-----------------------------------------------------------|------|
| Applicable motor capacity               | 400 W servo motor                                         |      |
| Drive method                            | Ball screw ø20                                            |      |
| Stroke length mm                        | 100 to 1500                                               |      |
| Screw lead mm                           | 20                                                        | 40   |
| Max. load capacity kg<br>*1 *2          | Horizontal                                                | 79.5 |
|                                         | Wall-mounted                                              | 45   |
|                                         | Vertical                                                  | 20.5 |
| Max. speed mm/s                         | 1000                                                      | 2000 |
| Rated thrust *2 N                       | 359                                                       | 179  |
| Repeatability mm                        | ±0.01                                                     |      |
| Lost motion mm                          | 0.1 or less                                               |      |
| Static allowable load N                 | 4000                                                      |      |
| Static allowable moment N·m             | MP: 730, MY: 437, MR: 387                                 |      |
| Operating ambient temperature, humidity | 0 to 40°C (no freezing)<br>20 to 80% RH (no condensation) |      |
| Storage ambient temperature, humidity   | 0 to 40°C (no freezing)<br>20 to 80% RH (no condensation) |      |
| Atmosphere                              | No corrosive gas, explosive gas, or dust                  |      |

\*1: Values for max. load capacity are at acceleration/deceleration 0.5 G.  
Refer to page 510 for details.

\*2: Rated thrust and max. load capacity are guideline values assuming that the motor mounted will output the rated torque.

## Stroke and max. speed

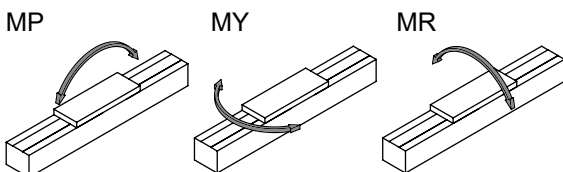
|            |               | (mm/s)     |      |      |      |      |      |      |      |      |  |
|------------|---------------|------------|------|------|------|------|------|------|------|------|--|
| Screw lead | Stroke length | 100 to 700 | 800  | 900  | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |  |
|            |               | 1000       | 980  | 800  | 670  | 560  | 480  | 420  | 360  | 320  |  |
| 20         |               | 1000       | 980  | 800  | 670  | 560  | 480  | 420  | 360  | 320  |  |
| 40         |               | 2000       | 1970 | 1610 | 1340 | 1130 | 970  | 840  | 730  | 650  |  |

\*The max. speed is the speed when the motor mounted by the customer can output a rotation speed of 3000 rpm.  
The max. speed is restricted by the stroke. Do not move at speeds beyond the limit.

## Allowable overhang length

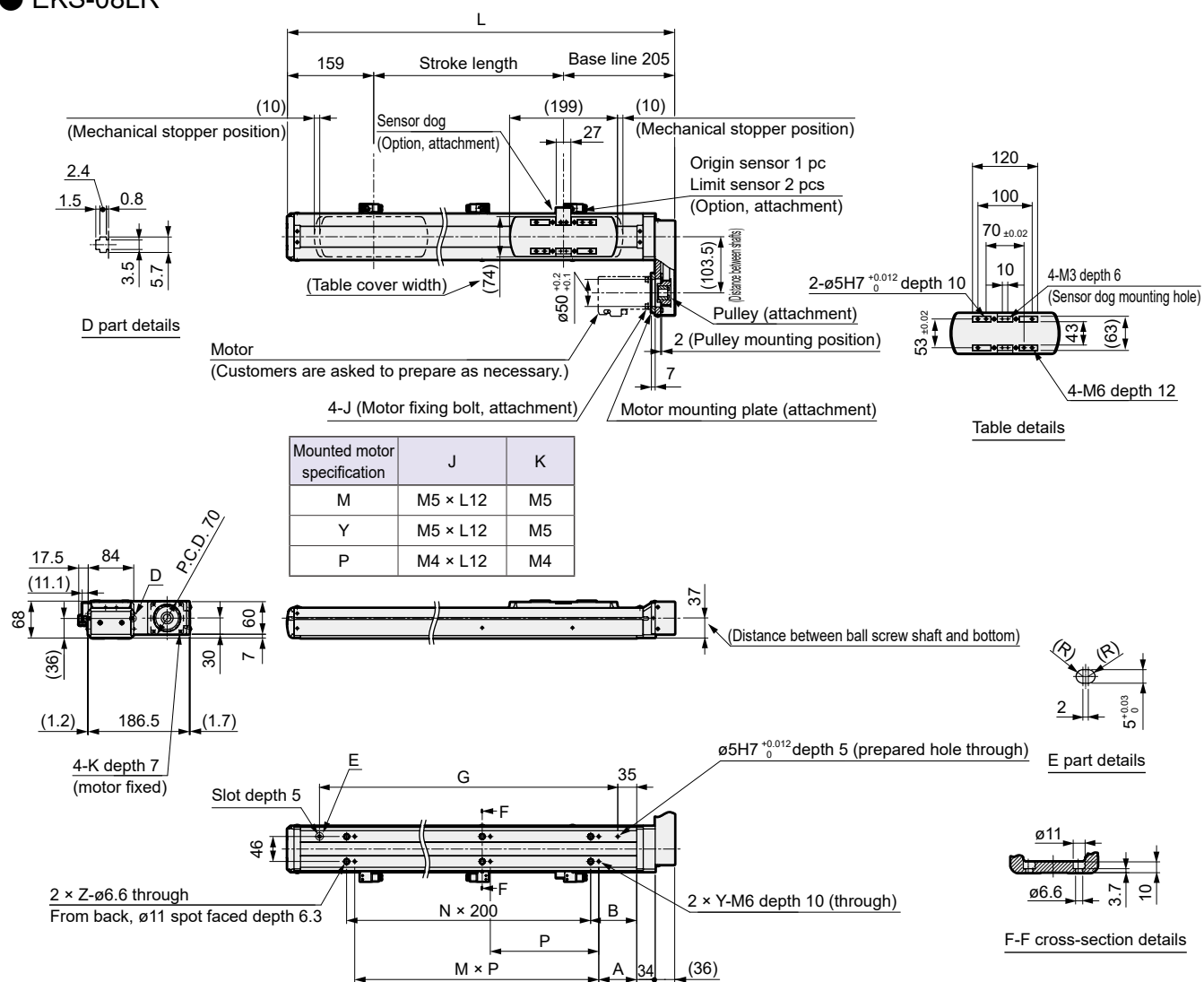
\*Refer to page 504 for details.

## Moment direction



## Dimensions Motor right-side mounting

## ● EKS-08LR



| Stroke code        | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Stroke length (mm) | 100  | 200  | 300  | 400  | 500  | 600  | 700  | 800  | 900  | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |
| L                  | 464  | 564  | 664  | 764  | 864  | 964  | 1064 | 1164 | 1264 | 1364 | 1464 | 1564 | 1664 | 1764 | 1864 |
| A                  | 65   | 25   | 70   | 120  | 70   | 120  | 70   | 120  | 70   | 120  | 70   | 120  | 70   | 120  | 70   |
| B                  | 85   | 135  | 85   | 135  | 85   | 135  | 85   | 135  | 85   | 135  | 85   | 135  | 85   | 135  | 85   |
| G                  | 300  | 400  | 500  | 600  | 700  | 800  | 900  | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 |
| M                  | 2    | 2    | 2    | 2    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    | 7    | 7    | 8    |
| N                  | 1    | 1    | 2    | 2    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    | 7    | 7    | 8    |
| P                  | 120  | 200  |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Y                  | 3    | 3    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    | 7    | 7    | 8    | 8    | 9    |
| Z                  | 2    | 2    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    | 7    | 7    | 8    | 8    | 9    |
| Weight (kg)        | 8.7  | 10   | 11.3 | 12.6 | 13.9 | 15.2 | 16.5 | 17.8 | 19.1 | 20.4 | 21.7 | 23   | 24.3 | 25.6 | 26.9 |

## List of attachments

## [Motor mounting parts]

| Mounted motor specification | Pulley               | Motor mounting plate fixing bolt | Motor mounting bolt |          |
|-----------------------------|----------------------|----------------------------------|---------------------|----------|
|                             |                      |                                  | Size                | Quantity |
| M                           | Included at shipment | Included at shipment             | M5                  | 4        |
| Y                           |                      |                                  | M5                  | 4        |
| P                           |                      |                                  | M4                  | 4        |

## [Origin sensor, limit sensor]

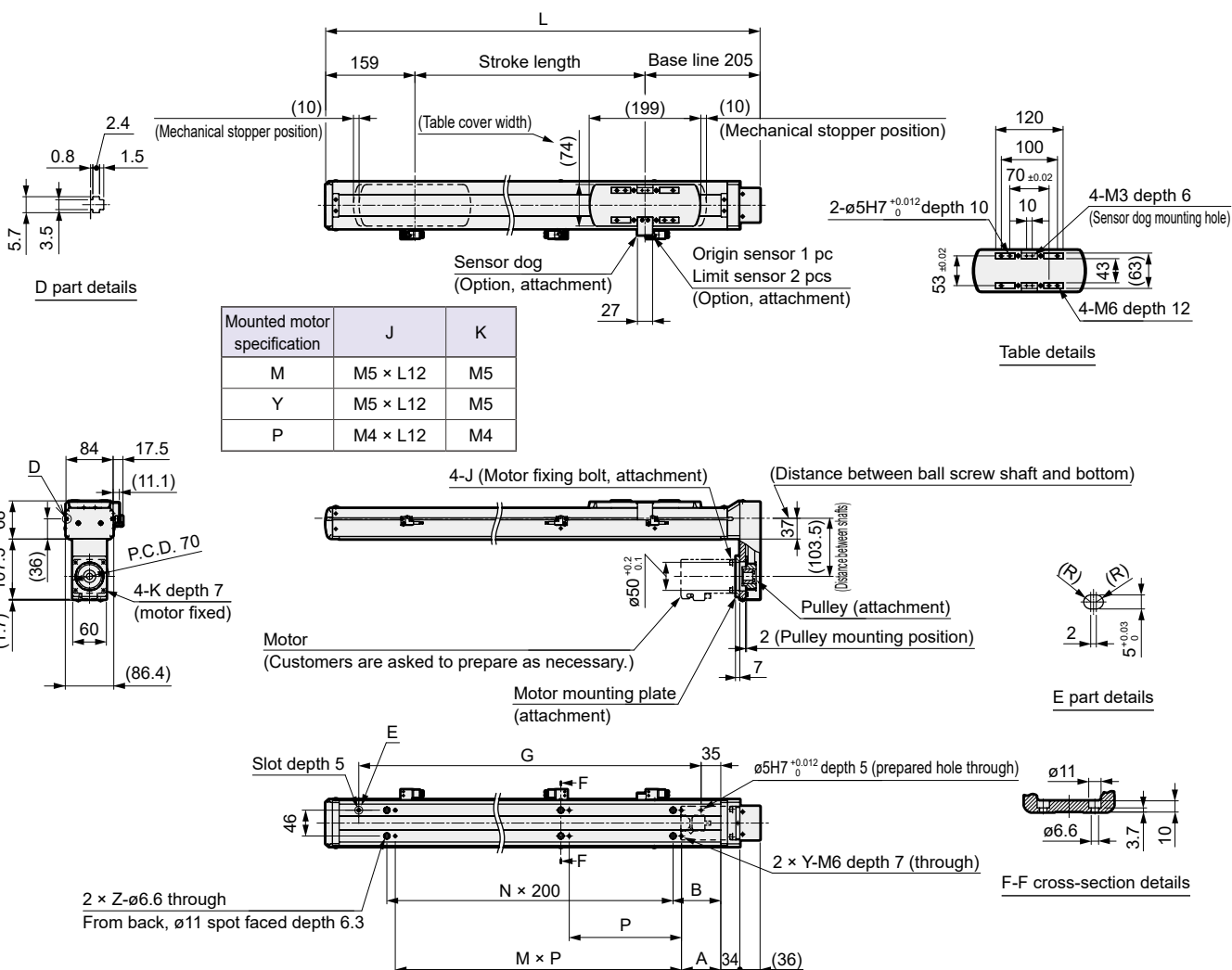
| Manufacturer      | Model    | Included quantity |
|-------------------|----------|-------------------|
| OMRON Corporation | EE-SX674 | 3                 |

\*Refer to page 512 for sensor specifications.

# EKS-08L\*

## Dimensions Motor bottom mounting

### ● EKS-08LD



| Stroke code        | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Stroke length (mm) | 100  | 200  | 300  | 400  | 500  | 600  | 700  | 800  | 900  | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |
| L                  | 464  | 564  | 664  | 764  | 864  | 964  | 1064 | 1164 | 1264 | 1364 | 1464 | 1564 | 1664 | 1764 | 1864 |
| A                  | 65   | 25   | 70   | 120  | 70   | 120  | 70   | 120  | 70   | 120  | 70   | 120  | 70   | 120  | 70   |
| B                  | 85   | 135  | 85   | 135  | 85   | 135  | 85   | 135  | 85   | 135  | 85   | 135  | 85   | 135  | 85   |
| G                  | 300  | 400  | 500  | 600  | 700  | 800  | 900  | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 |
| M                  | 2    | 2    | 2    | 2    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    | 7    | 7    | 8    |
| N                  | 1    | 1    | 2    | 2    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    | 7    | 7    | 8    |
| P                  | 120  | 200  |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Y                  | 3    | 3    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    | 7    | 7    | 8    | 8    | 9    |
| Z                  | 2    | 2    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    | 7    | 7    | 8    | 8    | 9    |
| Weight (kg)        | 8.7  | 10   | 11.3 | 12.6 | 13.9 | 15.2 | 16.5 | 17.8 | 19.1 | 20.4 | 21.7 | 23   | 24.3 | 25.6 | 26.9 |

## List of attachments

### [Motor mounting parts]

| Mounted motor specification | Pulley               | Motor mounting plate fixing bolt | Motor mounting bolt |          |
|-----------------------------|----------------------|----------------------------------|---------------------|----------|
|                             |                      |                                  | Size                | Quantity |
| M                           | Included at shipment | Included at shipment             | M5                  | 4        |
| Y                           |                      |                                  | M5                  | 4        |
| P                           |                      |                                  | M4                  | 4        |

### [Origin sensor, limit sensor]

| Manufacturer      | Model    | Included quantity |
|-------------------|----------|-------------------|
| OMRON Corporation | EE-SX674 | 3                 |

\*Refer to page 512 for sensor specifications.

## Dimensions Motor left-side mounting

## ● EKS-08LL

| Mounted motor specification | J        | K  |
|-----------------------------|----------|----|
| M                           | M5 × L12 | M5 |
| Y                           | M5 × L12 | M5 |
| P                           | M4 × L12 | M4 |

4-J (Motor fixing bolt, attachment)

Motor

(Customers are asked to prepare as necessary.)

Motor mounting plate (attachment)

2 (Pulley mounting position)

Pulley (attachment)

Origin sensor 1 pc

Limit sensor 2 pcs

(Option, attachment)

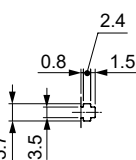
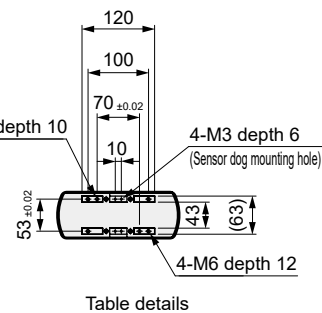
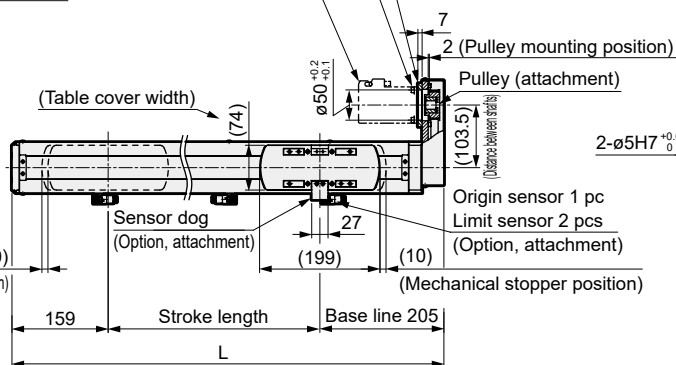
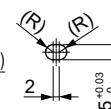
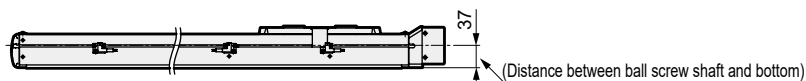
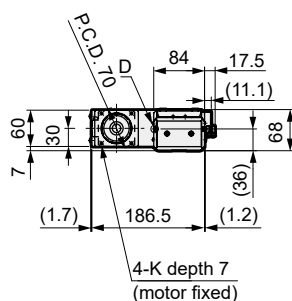
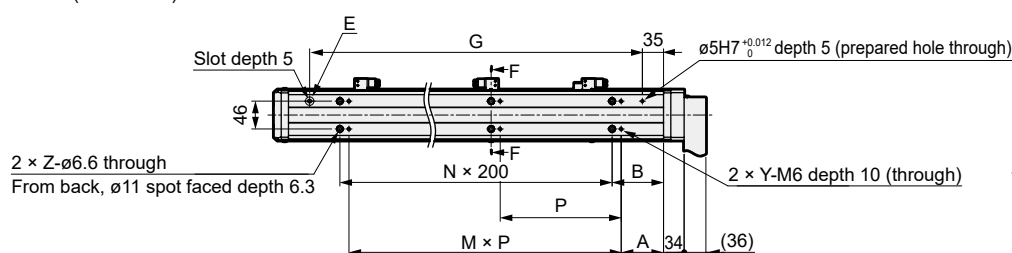
D part details  
(Mechanical stopper position)

Table details



E part details



F-F cross-section details

| Stroke code        | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Stroke length (mm) | 100  | 200  | 300  | 400  | 500  | 600  | 700  | 800  | 900  | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |
| L                  | 464  | 564  | 664  | 764  | 864  | 964  | 1064 | 1164 | 1264 | 1364 | 1464 | 1564 | 1664 | 1764 | 1864 |
| A                  | 65   | 25   | 70   | 120  | 70   | 120  | 70   | 120  | 70   | 120  | 70   | 120  | 70   | 120  | 70   |
| B                  | 85   | 135  | 85   | 135  | 85   | 135  | 85   | 135  | 85   | 135  | 85   | 135  | 85   | 135  | 85   |
| G                  | 300  | 400  | 500  | 600  | 700  | 800  | 900  | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 |
| M                  | 2    | 2    | 2    | 2    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    | 7    | 7    | 8    |
| N                  | 1    | 1    | 2    | 2    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    | 7    | 7    | 8    |
| P                  | 120  | 200  |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Y                  | 3    | 3    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    | 7    | 7    | 8    | 8    | 9    |
| Z                  | 2    | 2    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    | 7    | 7    | 8    | 8    | 9    |
| Weight (kg)        | 8.7  | 10   | 11.3 | 12.6 | 13.9 | 15.2 | 16.5 | 17.8 | 19.1 | 20.4 | 21.7 | 23   | 24.3 | 25.6 | 26.9 |

## List of attachments

## [Motor mounting parts]

| Mounted motor specification | Pulley               | Motor mounting plate fixing bolt | Motor mounting bolt |          |
|-----------------------------|----------------------|----------------------------------|---------------------|----------|
|                             |                      |                                  | Size                | Quantity |
| M                           | Included at shipment | Included at shipment             | M5                  | 4        |
| Y                           |                      |                                  | M5                  | 4        |
| P                           |                      |                                  | M4                  | 4        |

## [Origin sensor, limit sensor]

| Manufacturer      | Model    | Included quantity |
|-------------------|----------|-------------------|
| OMRON Corporation | EE-SX674 | 3                 |

\*Refer to page 512 for sensor specifications.

Servo motor compatible

ETV

ECV

EKS

EBS

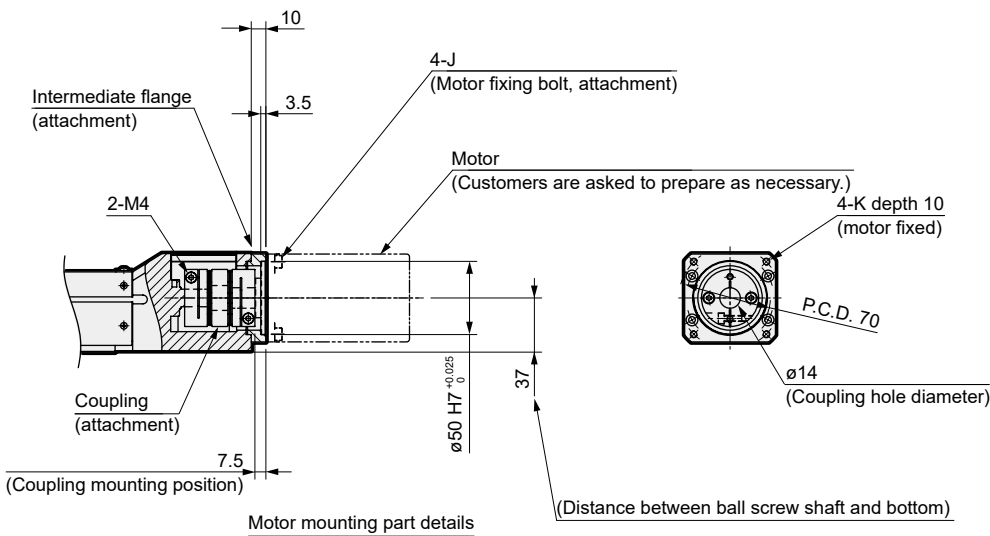
Stepper motor compatible

ECS

Safety  
precautions

Common options

Dimensions for straight motor mounting

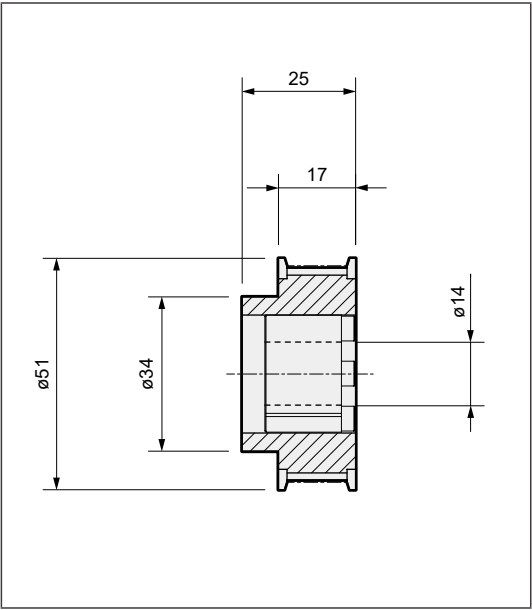


| Mounted motor specification | J        | K  |
|-----------------------------|----------|----|
| M                           | M5 × L12 | M5 |
| Y                           | M5 × L12 | M5 |
| P                           | M4 × L12 | M4 |

For motor mounting on side/bottom

Motor shaft fixing method

Pulley (attachment)



MEMO

| Servo motor compatible |     |     |                |     |     |     | Stepper motor compatible |     |     |     | Safety precautions |
|------------------------|-----|-----|----------------|-----|-----|-----|--------------------------|-----|-----|-----|--------------------|
| EBS                    | EBR | ETS | ETS Multi-Axis | ECS | ETV | ECV | EKS                      | EBS | EBR | ETS | ECS                |



Electric actuator (motorless) Slider

# EKS-10LE

Straight motor mounting

● Servo motor capacity: 750 W

## How to order

**EKS** - **10** **L** **E** - **25** **0300** **N** **NN** - **M** **8** **N** **C** **B**

|                      |
|----------------------|
| <b>A</b> Body size   |
| 10 Body width 104 mm |

|                |
|----------------|
| <b>B</b> Motor |
| L None         |

|                                   |
|-----------------------------------|
| <b>C</b> Motor mounting direction |
| E Straight mounting               |

|                     |
|---------------------|
| <b>D</b> Screw lead |
| 25 25 mm            |
| 50 50 mm            |

|                        |
|------------------------|
| <b>E</b> Stroke length |
| 0100 100 mm            |
| to 1500 1500 mm        |
| (In 100 mm increments) |

|                |
|----------------|
| <b>F</b> Brake |
| N None         |

|                                      |
|--------------------------------------|
| <b>G</b> Mounted motor specification |
| M Select the mounted motor           |
| Y specification from the table       |
| P at right.                          |

|                         |
|-------------------------|
| <b>H</b> Motor capacity |
| 8 750 W                 |

|                                    |
|------------------------------------|
| <b>I</b> Motor shaft fixing method |
| N For straight mounting            |

|                           |
|---------------------------|
| <b>J</b> Origin sensor *1 |
| N None                    |
| C Yes                     |

|                          |
|--------------------------|
| <b>K</b> Limit sensor *1 |
| N None                   |
| B Yes                    |

| Manufacturer                    | 750 W |
|---------------------------------|-------|
| Mitsubishi Electric Corporation | M     |
| Delta Electronics Co., Ltd.     | M     |
| YASKAWA Electric Corporation    | Y     |
| Keyence Corporation             | Y     |
| Panasonic Corporation           | P     |
| OMRON Corporation               | P     |
| Fuji Electric Co., Ltd.         | M     |
| Bosch Rexroth AG                | P     |
| Rockwell Automation, Inc.       | M     |
| SIEMENS AG                      | M     |

\*1 Origin sensor and limit sensor are available as a set. As it is both-or-nothing, select "None" for both.

\*Refer to page 461 for the motor model No.

## Specifications

|                                         |                                                           |       |
|-----------------------------------------|-----------------------------------------------------------|-------|
| Applicable motor capacity               | 750 W servo motor                                         |       |
| Drive method                            | Ball screw $\phi 25$                                      |       |
| Stroke length mm                        | 100 to 1500                                               |       |
| Screw lead mm                           | 25                                                        | 50    |
| Max. load capacity kg<br>*1 *2          | Horizontal                                                | 118.5 |
|                                         | Wall-mounted                                              | 76    |
|                                         | Vertical                                                  | 33.5  |
| Max. speed mm/s                         | 1250                                                      | 2500  |
| Rated thrust *2 N                       | 540                                                       | 270   |
| Repeatability mm                        | $\pm 0.01$                                                |       |
| Lost motion mm                          | 0.1 or less                                               |       |
| Static allowable load N                 | 5830                                                      |       |
| Static allowable moment N·m             | MP: 1048, MY: 712, MR: 671                                |       |
| Operating ambient temperature, humidity | 0 to 40°C (no freezing)<br>20 to 80% RH (no condensation) |       |
| Storage ambient temperature, humidity   | 0 to 40°C (no freezing)<br>20 to 80% RH (no condensation) |       |
| Atmosphere                              | No corrosive gas, explosive gas, or dust                  |       |

\*1: Values for max. load capacity are at acceleration/deceleration 0.5 G.  
Refer to page 510 for details.

\*2: Rated thrust and max. load capacity are guideline values assuming that the motor mounted will output the rated torque.

## Stroke and max. speed

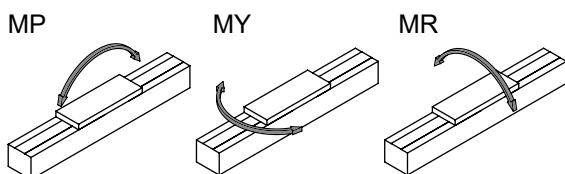
|            |               | (mm/s)     |      |      |      |      |      |      |
|------------|---------------|------------|------|------|------|------|------|------|
| Screw lead | Stroke length | 100 to 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |
|            |               |            |      |      |      |      |      |      |
| 25         |               | 1250       | 1050 | 890  | 760  | 660  | 580  | 510  |
| 50         |               | 2500       | 2110 | 1790 | 1530 | 1330 | 1160 | 1030 |

\*The max. speed is the speed when the motor mounted by the customer can output a rotation speed of 3000 rpm.  
The max. speed is restricted by the stroke. Do not move at speeds beyond the limit.

## Allowable overhang length

\*Refer to page 504 for details.

## Moment direction







Electric actuator (motorless) Slider

# EKS-10L\*

Motor side mounting (left, right, bottom)

● Servo motor capacity: 750 W

## How to order

**EKS** - **10** **L** **R** - **25** **0300** **N** **NN** - **M** **8** **M** **C** **B**

|                      |
|----------------------|
| <b>A</b> Body size   |
| 10 Body width 104 mm |

|                |
|----------------|
| <b>B</b> Motor |
| L None         |

|                                   |
|-----------------------------------|
| <b>C</b> Motor mounting direction |
| R Right mounting                  |
| D Bottom mounting                 |
| L Left mounting                   |

|                     |
|---------------------|
| <b>D</b> Screw lead |
| 25 25 mm            |
| 50 50 mm            |

|                        |
|------------------------|
| <b>E</b> Stroke length |
| 0100 100 mm            |
| to 1500 1500 mm        |
| (In 100 mm increments) |

|                |
|----------------|
| <b>F</b> Brake |
| N None         |

|                                      |
|--------------------------------------|
| <b>G</b> Mounted motor specification |
| M Select the mounted motor           |
| Y specification from the table       |
| P at right.                          |

|                         |
|-------------------------|
| <b>H</b> Motor capacity |
| 8 750 W                 |

|                                    |
|------------------------------------|
| <b>I</b> Motor shaft fixing method |
| M Friction locking                 |

|                           |
|---------------------------|
| <b>J</b> Origin sensor *1 |
| N None                    |
| C Yes                     |

|                          |
|--------------------------|
| <b>K</b> Limit sensor *1 |
| N None                   |
| B Yes                    |

| Manufacturer                    | 750 W |
|---------------------------------|-------|
| Mitsubishi Electric Corporation | M     |
| Delta Electronics Co., Ltd.     | M     |
| YASKAWA Electric Corporation    | Y     |
| Keyence Corporation             | Y     |
| Panasonic Corporation           | P     |
| OMRON Corporation               | P     |
| Fuji Electric Co., Ltd.         | M     |
| Bosch Rexroth AG                | P     |
| Rockwell Automation, Inc.       | M     |
| SIEMENS AG                      | M     |

\*1 Origin sensor and limit sensor are available as a set. As it is both-or-nothing, select "None" for both.

\*Refer to page 461 for the motor model No.

## Specifications

|                                         |                                                           |      |
|-----------------------------------------|-----------------------------------------------------------|------|
| Applicable motor capacity               | 750 W servo motor                                         |      |
| Drive method                            | Ball screw $\phi 25$                                      |      |
| Stroke length mm                        | 100 to 1500                                               |      |
| Screw lead mm                           | 25                                                        | 50   |
| Max. load capacity kg<br>*1 *2          | Horizontal                                                | 92.5 |
|                                         | Wall-mounted                                              | 76   |
|                                         | Vertical                                                  | 28   |
| Max. speed mm/s                         | 1250                                                      | 2500 |
| Rated thrust *2 N                       | 540                                                       | 270  |
| Repeatability mm                        | $\pm 0.01$                                                |      |
| Lost motion mm                          | 0.1 or less                                               |      |
| Static allowable load N                 | 5830                                                      |      |
| Static allowable moment N·m             | MP: 1048, MY: 712, MR: 671                                |      |
| Operating ambient temperature, humidity | 0 to 40°C (no freezing)<br>20 to 80% RH (no condensation) |      |
| Storage ambient temperature, humidity   | 0 to 40°C (no freezing)<br>20 to 80% RH (no condensation) |      |
| Atmosphere                              | No corrosive gas, explosive gas, or dust                  |      |

\*1: Values for max. load capacity are at acceleration/deceleration 0.5 G.  
Refer to page 510 for details.

\*2: Rated thrust and max. load capacity are guideline values assuming that the motor mounted will output the rated torque.

## Stroke and max. speed

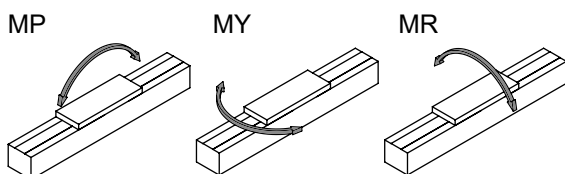
|                             |               |      |      |      |      |      |      | (mm/s) |
|-----------------------------|---------------|------|------|------|------|------|------|--------|
| Stroke length<br>Screw lead | 100 to<br>900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |        |
| 25                          | 1250          | 1050 | 890  | 760  | 660  | 580  | 510  |        |
| 50                          | 2500          | 2110 | 1790 | 1530 | 1330 | 1160 | 1030 |        |

\*The max. speed is the speed when the motor mounted by the customer can output a rotation speed of 3000 rpm.  
The max. speed is restricted by the stroke. Do not move at speeds beyond the limit.

## Allowable overhang length

\*Refer to page 504 for details.

## Moment direction



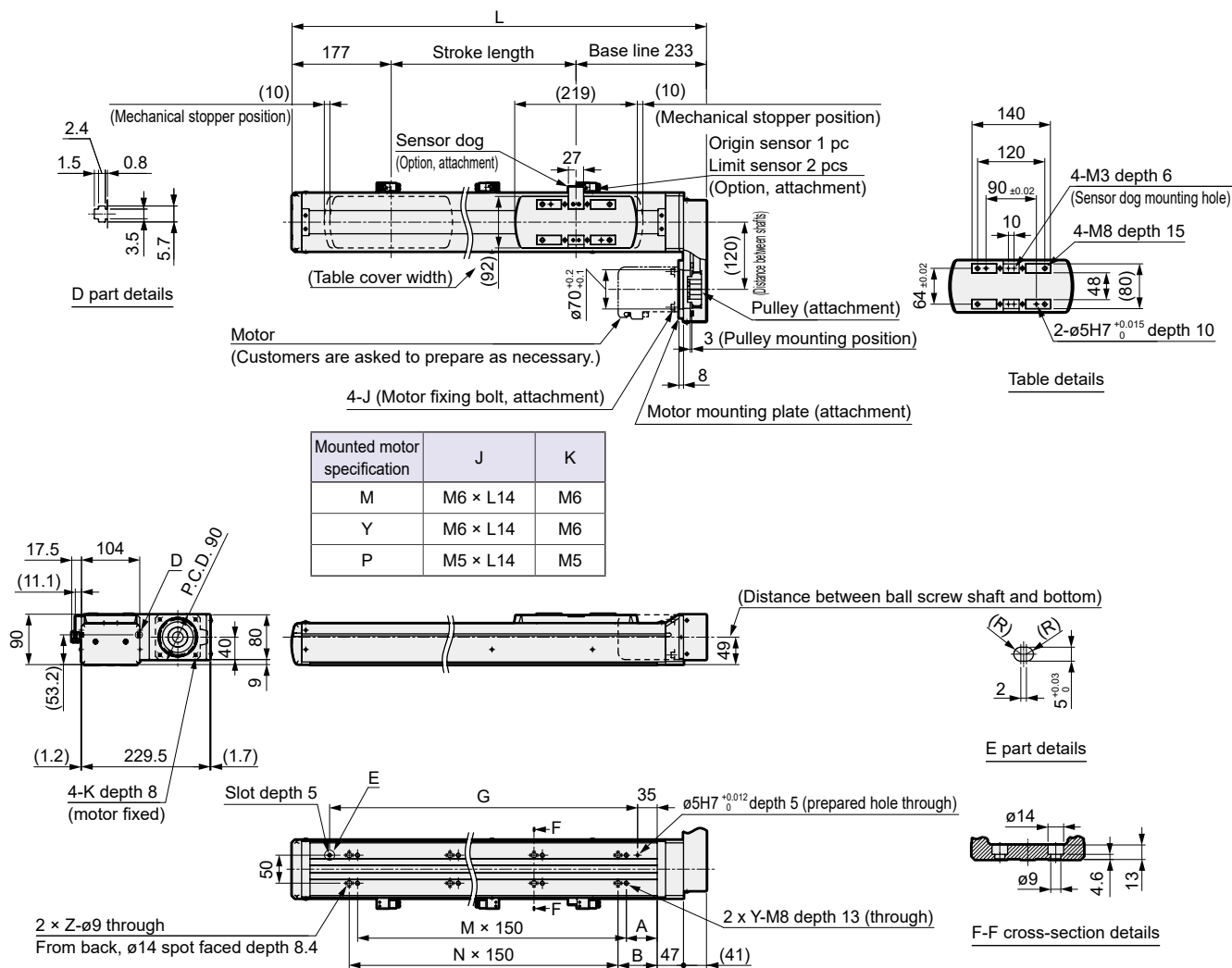
Servo motor compatible

Stepper motor compatible

Safety precautions

## Dimensions Motor right-side mounting

## ● EKS-10LR



## List of attachments

## [Motor mounting parts]

| Mounted motor specification | Pulley               | Motor mounting plate fixing bolt | Motor mounting bolt |          |
|-----------------------------|----------------------|----------------------------------|---------------------|----------|
|                             |                      |                                  | Size                | Quantity |
| M                           | Included at shipment | Included at shipment             | M6                  | 4        |
| Y                           |                      |                                  | M6                  | 4        |
| P                           |                      |                                  | M5                  | 4        |

## [Origin sensor, limit sensor]

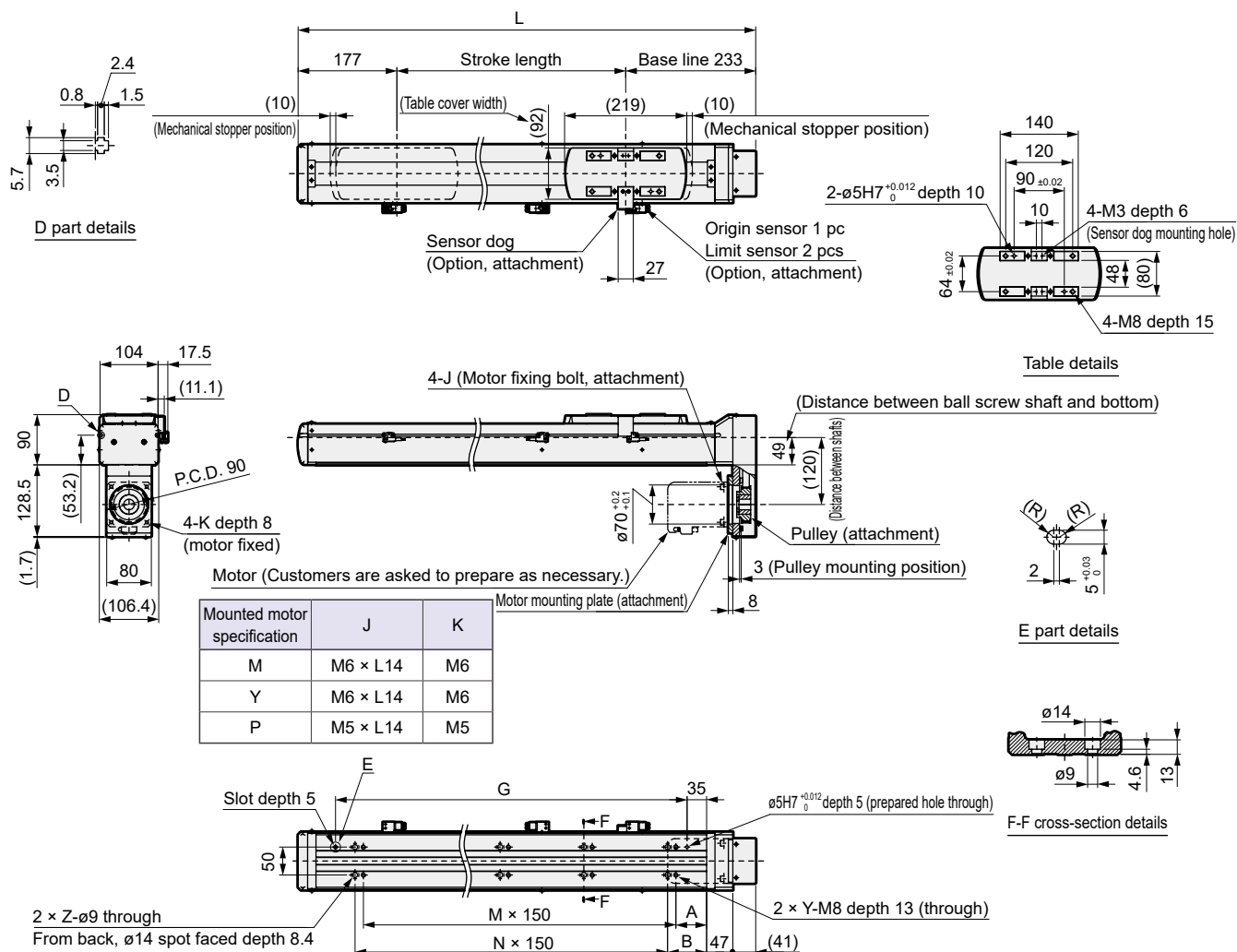
| Manufacturer      | Model    | Included quantity |
|-------------------|----------|-------------------|
| OMRON Corporation | EE-SX674 | 3                 |

\*Refer to page 512 for sensor specifications.

# EKS-10L\*

## Dimensions Motor bottom mounting

● EKS-10LD



| Stroke code        | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Stroke length (mm) | 100  | 200  | 300  | 400  | 500  | 600  | 700  | 800  | 900  | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |
| L                  | 510  | 610  | 710  | 810  | 910  | 1010 | 1110 | 1210 | 1310 | 1410 | 1510 | 1610 | 1710 | 1810 | 1910 |
| A                  | 45   | 80   | 55   | 105  | 80   | 55   | 105  | 80   | 55   | 105  | 80   | 55   | 105  | 80   | 55   |
| B                  | 120  | 95   | 70   | 120  | 95   | 70   | 120  | 95   | 70   | 120  | 95   | 70   | 120  | 95   | 70   |
| G                  | 320  | 420  | 520  | 620  | 720  | 820  | 920  | 1020 | 1120 | 1220 | 1320 | 1420 | 1520 | 1620 | 1720 |
| M                  | 2    | 2    | 3    | 3    | 4    | 5    | 5    | 6    | 7    | 7    | 8    | 9    | 9    | 10   | 11   |
| N                  | 1    | 2    | 3    | 3    | 4    | 5    | 5    | 6    | 7    | 7    | 8    | 9    | 9    | 10   | 11   |
| Y                  | 3    | 3    | 4    | 4    | 5    | 6    | 6    | 7    | 8    | 8    | 9    | 10   | 10   | 11   | 12   |
| Z                  | 2    | 3    | 4    | 4    | 5    | 6    | 6    | 7    | 8    | 8    | 9    | 10   | 10   | 11   | 12   |
| Weight (kg)        | 15.6 | 17.7 | 19.8 | 21.8 | 23.9 | 25.9 | 28   | 30.1 | 32.1 | 34.2 | 36.2 | 38.3 | 40.4 | 42.4 | 44.5 |

## List of attachments

[Motor mounting parts]

| Mounted motor specification | Pulley               | Motor mounting plate fixing bolt | Motor mounting bolt |          |
|-----------------------------|----------------------|----------------------------------|---------------------|----------|
|                             |                      |                                  | Size                | Quantity |
| M                           | Included at shipment | Included at shipment             | M6                  | 4        |
| Y                           |                      |                                  | M6                  | 4        |
| P                           |                      |                                  | M5                  | 4        |

[Origin sensor, limit sensor]

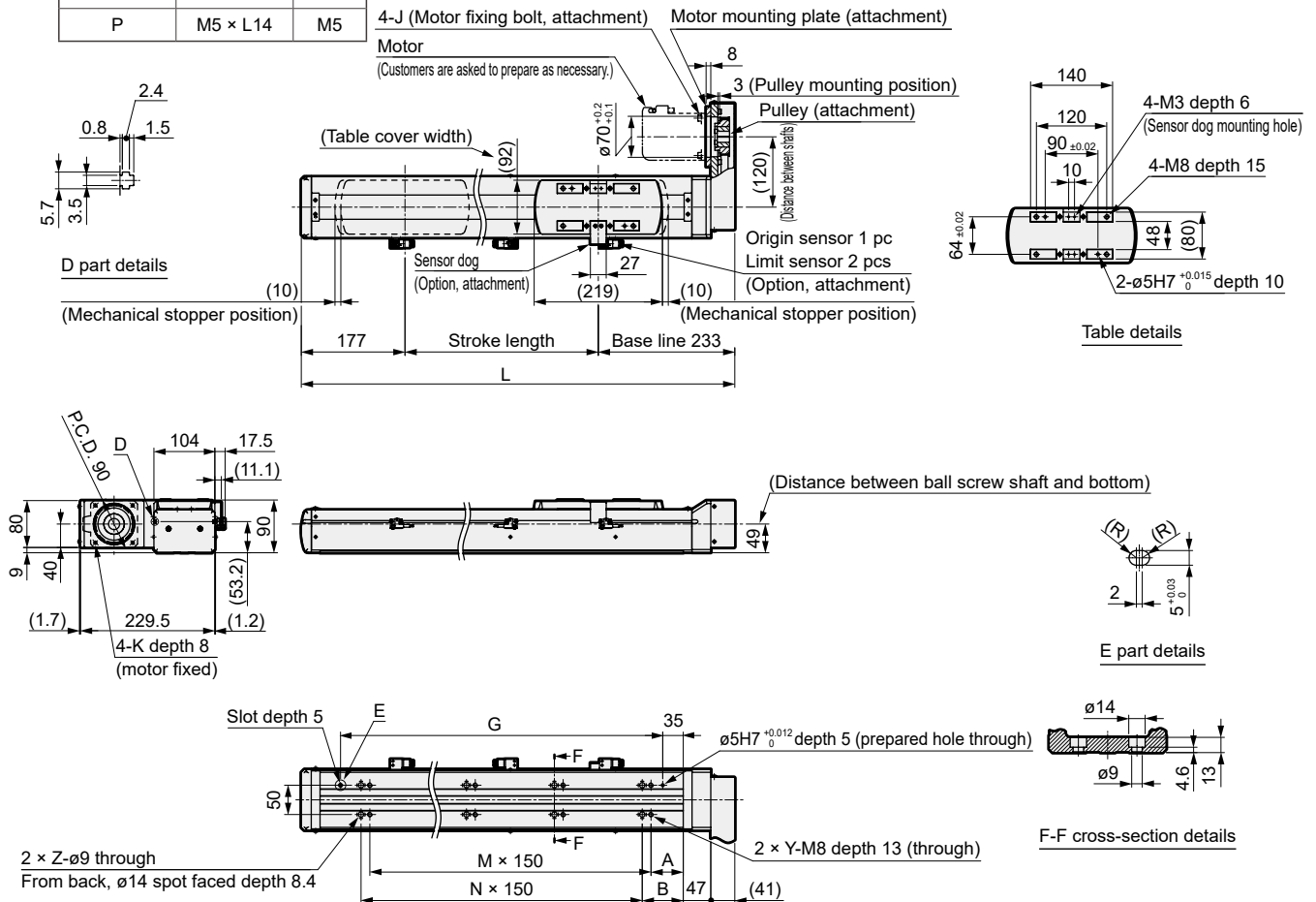
| Manufacturer      | Model    | Included quantity |
|-------------------|----------|-------------------|
| OMRON Corporation | EE-SX674 | 3                 |

\*Refer to page 512 for sensor specifications.

## Dimensions Motor left-side mounting

● EKS-10LL

| Mounted motor specification | J        | K  |
|-----------------------------|----------|----|
| M                           | M6 × L14 | M6 |
| Y                           | M6 × L14 | M6 |
| P                           | M5 × L14 | M5 |



| Stroke code        | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Stroke length (mm) | 100  | 200  | 300  | 400  | 500  | 600  | 700  | 800  | 900  | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |
| L                  | 510  | 610  | 710  | 810  | 910  | 1010 | 1110 | 1210 | 1310 | 1410 | 1510 | 1610 | 1710 | 1810 | 1910 |
| A                  | 45   | 80   | 55   | 105  | 80   | 55   | 105  | 80   | 55   | 105  | 80   | 55   | 105  | 80   | 55   |
| B                  | 120  | 95   | 70   | 120  | 95   | 70   | 120  | 95   | 70   | 120  | 95   | 70   | 120  | 95   | 70   |
| G                  | 320  | 420  | 520  | 620  | 720  | 820  | 920  | 1020 | 1120 | 1220 | 1320 | 1420 | 1520 | 1620 | 1720 |
| M                  | 2    | 2    | 3    | 3    | 4    | 5    | 5    | 6    | 7    | 7    | 8    | 9    | 9    | 10   | 11   |
| N                  | 1    | 2    | 3    | 3    | 4    | 5    | 5    | 6    | 7    | 7    | 8    | 9    | 9    | 10   | 11   |
| Y                  | 3    | 3    | 4    | 4    | 5    | 6    | 6    | 7    | 8    | 8    | 9    | 10   | 10   | 11   | 12   |
| Z                  | 2    | 3    | 4    | 4    | 5    | 6    | 6    | 7    | 8    | 8    | 9    | 10   | 10   | 11   | 12   |
| Weight (kg)        | 15.6 | 17.7 | 19.8 | 21.8 | 23.9 | 25.9 | 28   | 30.1 | 32.1 | 34.2 | 36.2 | 38.3 | 40.4 | 42.4 | 44.5 |

## List of attachments

[Motor mounting parts]

| Mounted motor specification | Pulley               | Motor mounting plate fixing bolt | Motor mounting bolt |          |
|-----------------------------|----------------------|----------------------------------|---------------------|----------|
|                             |                      |                                  | Size                | Quantity |
| M                           | Included at shipment | Included at shipment             | M6                  | 4        |
| Y                           |                      |                                  | M6                  | 4        |
| P                           |                      |                                  | M5                  | 4        |

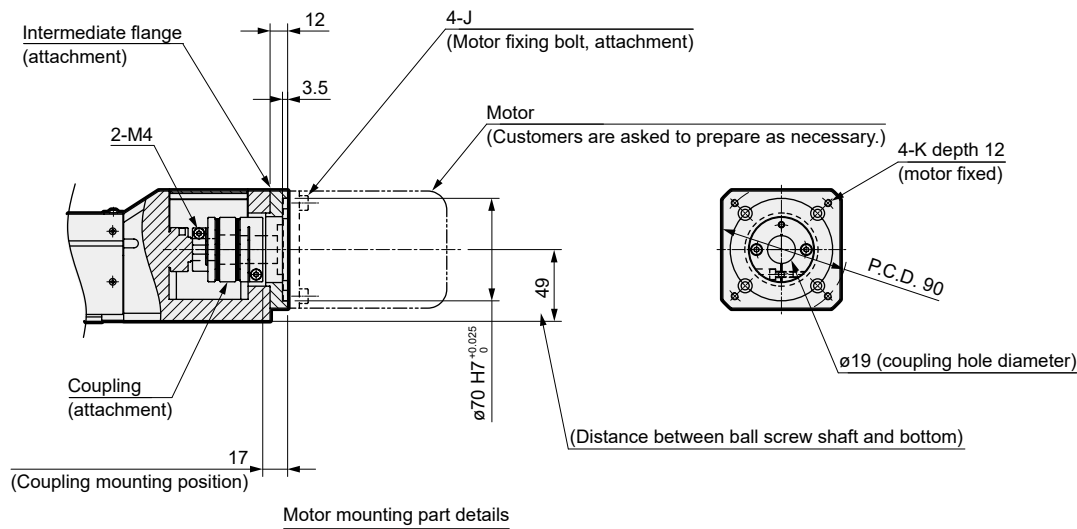
[Origin sensor, limit sensor]

| Manufacturer      | Model    | Included quantity |
|-------------------|----------|-------------------|
| OMRON Corporation | EE-SX674 | 3                 |

\*Refer to page 512 for sensor specifications.

Common options

Dimensions for straight motor mounting



| Mounted motor specification | J        | K  |
|-----------------------------|----------|----|
| M                           | M6 × L14 | M6 |
| Y                           | M6 × L14 | M6 |
| P                           | M5 × L14 | M5 |

For motor mounting on side/bottom

Motor shaft fixing method

Pulley (attachment)

