



Electric actuator Ball screw drive Slider

ETS-13 Series

Straight motor mounting

● Stepper motor size: ☐56, ☐60

How to order

ETS	-	13	-	05	005	-	E	A	B	N	N	N	N	N	N	X
		A	B		C	D		E	F		G	H	I	J	K	L
A Body size		C Stroke length		E Mounted motor specification		H Origin sensor (1 pc) *1 *2 *3		L Metal stopper specifications (ETS-X)		K Positioning pin hole		I Limit sensor (2 pcs) *1 *2 *3		J Grease nipple *3 *4		
13 Body width 135 mm		005 50 mm to (In 50 mm increments) 105 1050 mm		A Select the mounted B motor specification C from the table below.		N None A Inside motor side B Inside motor opposite side C Outside motor side D Outside motor opposite side		Standard X Yes		N None P Yes		N None A Inside B Outside		N None (Body mounting direction: Standard) R Right L Counterclockwise		
B Screw lead		D Motor mounting direction		F Motor size												
05 5 mm 10 10 mm 16 16 mm 20 20 mm		E Straight mounting		B ☐ 56 C ☐ 60												
				G Brake												
				N None												

Manufacturer	☐ 56	☐ 60
Oriental Motor Co., Ltd.	-	A
MinebeaMitsumi Inc.	B	-
Dyadic Systems Co., Ltd.	C	-

*Refer to page 587 for the motor model No.

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

*2: For sensor inside mounting, the user cannot adjust the position. (Assembled at shipment)

For sensor outside mounting, the user can adjust the position. (Included at shipment)

*3: Contact CKD to use the origin sensor, limit sensor and grease nipple in the same direction.

*4: "Body mounting direction: Standard" here indicates that either top or bottom mounting is possible.

Specifications

Applicable motor size *1	☐ 56, ☐ 60 stepper motor			
Drive method	Ball screw ø16			
Ball screw accuracy grade	C7			
Stroke length mm	50 to 1050			
Screw lead mm	5	10	16	20
Max. load capacity	Horizontal kg	70	47	30
*1	Vertical kg	17	12	6
Max. speed mm/s	250	500	800	1000
Rated thrust *1	N	1388	694	433
Repeatability mm	±0.01			
Lost motion mm	0.1 or less			
Drive system weight kg	1.0			
Other inertia kg·cm ²	0.074			
Coefficient of friction	0.03			
Mechanical efficiency	0.8			
Ball screw length	Stroke + 200			
Dynamic allowable load N	4822			
Static allowable moment N·m	MP: 175, MY: 174, MR: 153			
Dynamic allowable moment N·m	MP: 45.1, MY: 45.1, MR: 191.7			
Operating ambient temperature, humidity	0 to 40°C (no freezing) 35 to 80% RH (no condensation)			
Storage ambient temperature, humidity	-10 to 50°C (no freezing) 35 to 80% RH (no condensation)			
Atmosphere	No corrosive gas, explosive gas, or dust			

*1 The rated thrust and max. load capacity values are the allowable values for the actuator body; the actual thrust and load capacity are limited by the motor used.

Stroke and max. speed

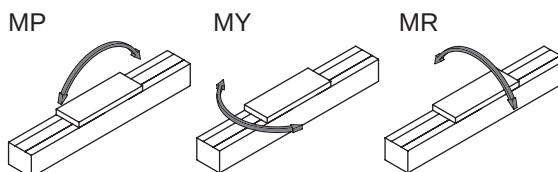
		(mm/s)					
Stroke length	Screw lead	100 to 750	800	850	900	950	1050
		250	225	200	175	150	125
5	250	450	400	350	300	250	
10	500	720	640	560	480	400	
16	800	900	800	700	600	500	
20	1000						

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

Allowable overhang length

*Refer to page 626 for details.

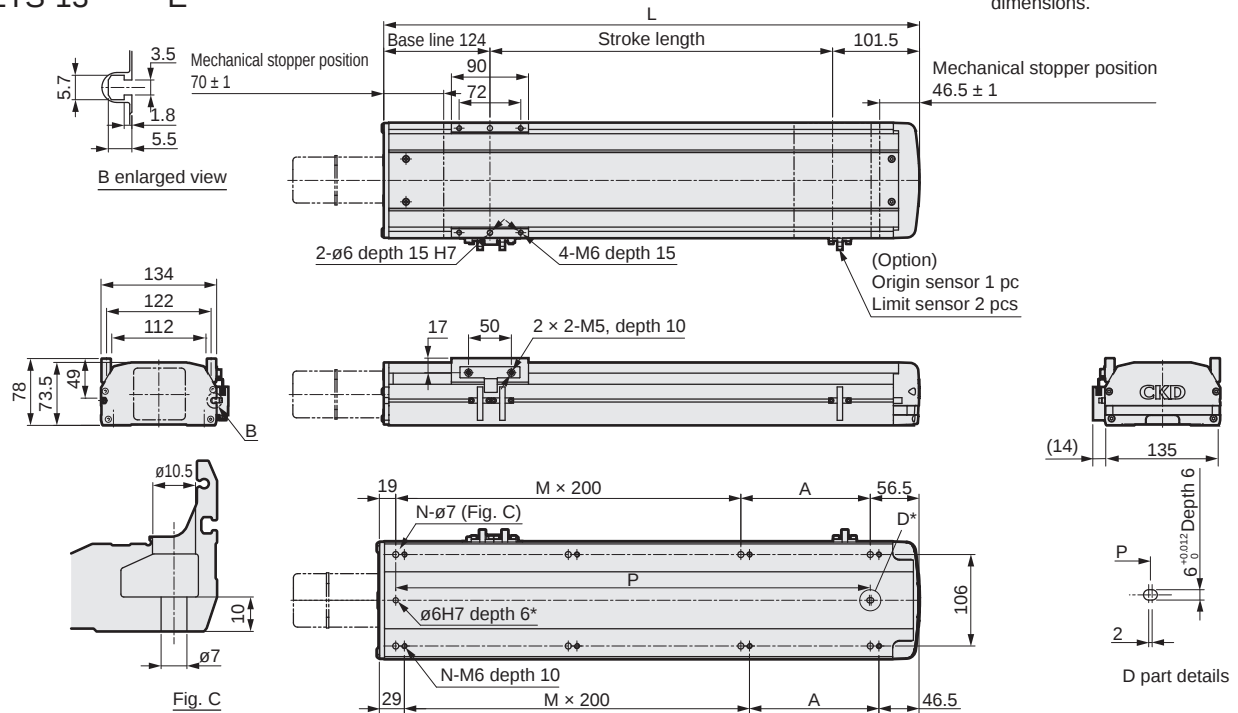
Moment direction



Dimensions Straight motor mounting

● ETS-13-****-E

· Refer to page 632 for grease nipple dimensions.



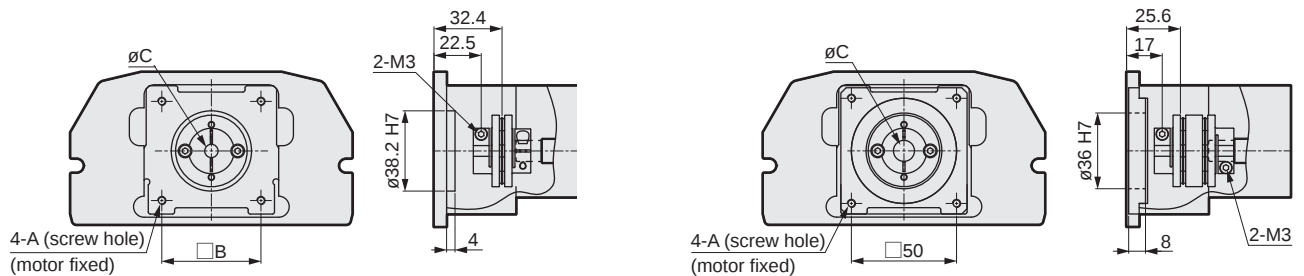
*Positioning pin hole (option)

Stroke length (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	275.5	325.5	375.5	425.5	475.5	525.5	575.5	625.5	675.5	725.5	775.5	825.5	875.5	925.5	975.5	1025.5	1075.5	1125.5	1175.5	1225.5	1275.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
P	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
Weight (kg)	5.9	6.5	6.9	7.4	7.9	8.4	8.9	9.3	9.9	10.3	10.9	11.3	11.8	12.3	12.8	13.3	13.8	14.3	14.8	15.2	15.8

Motor mounting part

● ETS-13 (□56)

● ETS-13 (□60)



Mounted motor specification		A	B	C	Motor mounting bolt
A	□60	M4	50	10	4-M4 × L20
B	□56	M4	47.14	6.35	4-M4 × L20
C	□56	M4	47.14	8	4-M4 × L20

List of attachments

[Motor mounting parts]

Mounted motor specification	Coupling	Motor size	Motor mounting bolt	
			Size	Quantity
A	Assembled at shipment	□56 □60	M4	4
B			M4	4
C			M4	4

[Origin sensor/Limit sensor]

Manufacturer	Model	Quantity
OMRON Corporation	EE-SX672	3

*Refer to page 630 for sensor specifications.



Electric actuator Ball screw drive Slider

ETS-13 Series

Motor side mounting (left, right, bottom)

● Stepper motor size: ☐56, ☐60

How to order

ETS - 13 - 05 005 - R A B N N N N N X

A Body size
13 Body width 135 mm

B Screw lead
05 5 mm
10 10 mm
16 16 mm
20 20 mm

C Stroke length
005 50 mm to 1050 mm (In 50 mm increments)
105 1050 mm

D Motor mounting direction *5
R Right mounting
D Bottom mounting
L Left mounting

E Mounted motor specification
A Select the mounted motor specification from the table below.
B ☐56
C ☐60

F Motor size
B ☐56
C ☐60

G Brake
N None

H Origin sensor (1 pc) *1 *2 *3
N None
A Inside motor side
B Inside motor opposite side
C Outside motor side
D Outside motor opposite side

I Limit sensor (2 pcs) *1 *2 *3
N None
A Inside
B Outside

J Grease nipple *3 *4 *5
N None (Body mounting direction: Standard)
R Right
L Counterclockwise

K Positioning pin hole
N None
P Yes

L Metal stopper specifications (ETS-X)
Standard
X Yes

Manufacturer	☐ 56	☐ 60
Oriental Motor Co., Ltd.	-	A
MinebeaMitsumi Inc.	B	-
Dyadic Systems Co., Ltd.	C	-

*Refer to page 587 for the motor model No.

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

*2: For sensor inside mounting, the user cannot adjust the position. (Assembled at shipment)

For sensor outside mounting, the user can adjust the position. (Included at shipment)

*3: Contact CKD to use the origin sensor, limit sensor and grease nipple in the same direction.

*4: "Body mounting direction: Standard" here indicates that either top or bottom mounting is possible.

*5: When selecting motor mounting direction R, grease nipple R cannot be selected.

When selecting L, grease nipple L cannot be selected.

Specifications

Applicable motor size *1	☐ 56, ☐ 60 stepper motor			
Drive method	Ball screw ϕ 16			
Ball screw accuracy grade	C7			
Stroke length mm	50 to 1050			
Screw lead mm	5	10	16	20
Max. load capacity *1	Horizontal kg	70	47	30
	Vertical kg	17	12	6
Max. speed mm/s	250	500	800	1000
Rated thrust *1 N	1388	694	433	347
Repeatability mm	± 0.01			
Lost motion mm	0.1 or less			
Drive system weight kg	1.0			
Other inertia kg·cm ²	0.870			
Coefficient of friction	0.05			
Mechanical efficiency	0.8			
Ball screw length	Stroke + 200			
Dynamic allowable load N	4822			
Static allowable moment N·m	MP: 175, MY: 174, MR: 153			
Dynamic allowable moment N·m	MP: 45.1, MY: 45.1, MR: 191.7			
Operating ambient temperature, humidity	0 to 40°C (no freezing) 35 to 80% RH (no condensation)			
Storage ambient temperature, humidity	-10 to 50°C (no freezing) 35 to 80% RH (no condensation)			
Atmosphere	No corrosive gas, explosive gas, or dust			

*1 The rated thrust and max. load capacity values are the allowable values for the actuator body; the actual thrust and load capacity are limited by the motor used.

Stroke and max. speed

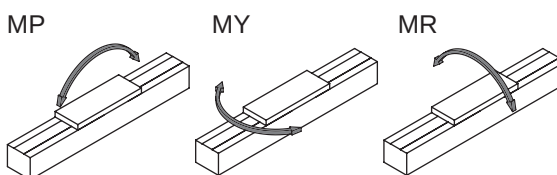
Stroke length	100 to 750	800	850	900	950	1050
Screw lead						
5	250	225	200	175	150	125
10	500	450	400	350	300	250
16	800	720	640	560	480	400
20	1000	900	800	700	600	500

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

Allowable overhang length

*Refer to page 626 for details.

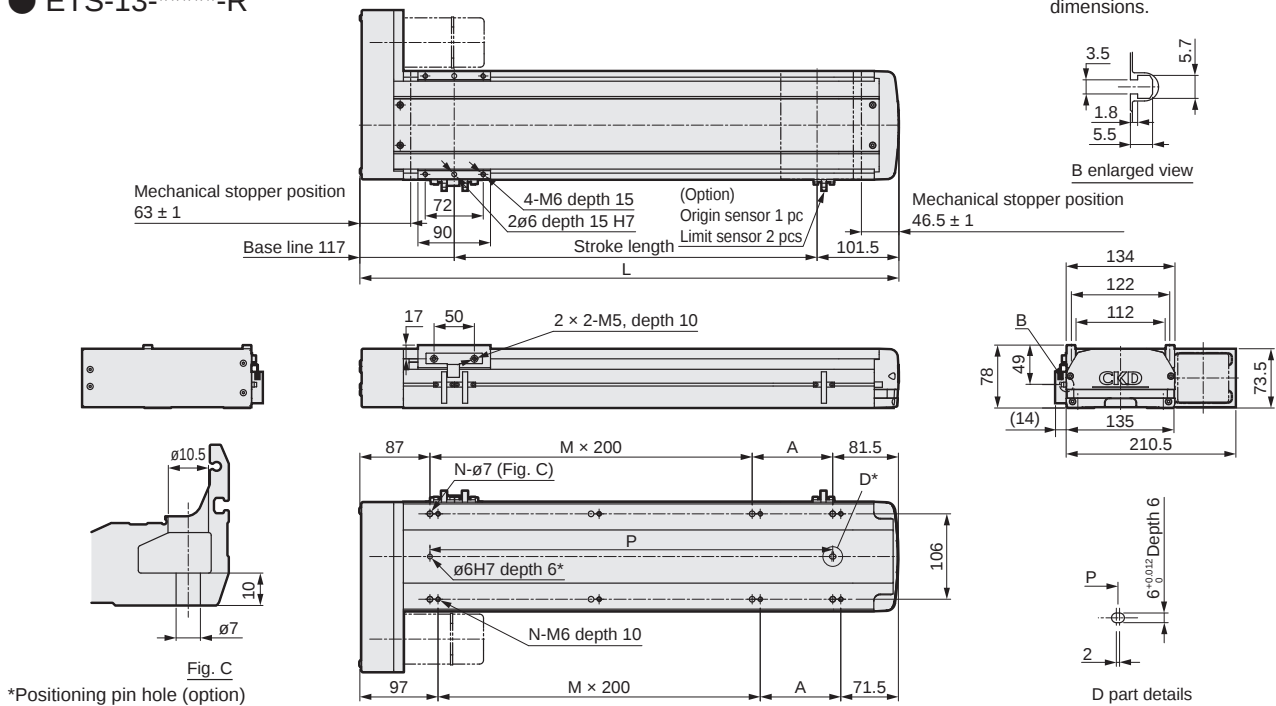
Moment direction



Dimensions Motor right-side mounting

● ETS-13-*****-R

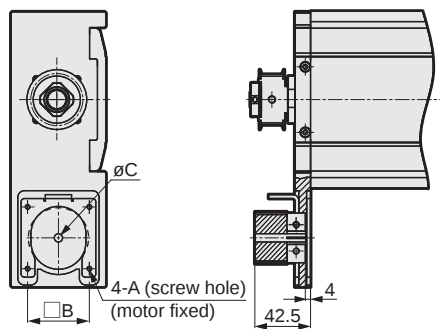
- Refer to page 632 for grease nipple dimensions.



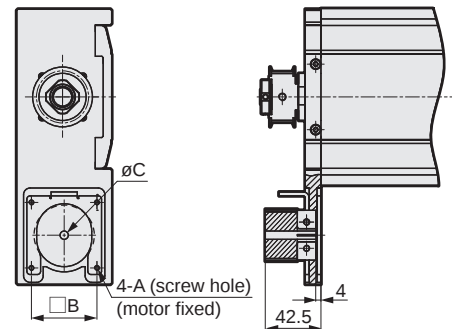
Stroke length (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	268.5	318.5	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5	768.5	818.5	868.5	918.5	968.5	1018.5	1068.5	1118.5	1168.5	1218.5	1268.5
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5
N	4	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
Weight (kg)	6.7	7.3	7.7	8.2	8.7	9.2	9.7	10.1	10.7	11.1	11.7	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.0	16.6

Motor mounting part

● ETS-13 (□56)



● ETS-13 (□60)



Mounted motor specification		A	B	C	Motor mounting bolt
A	□60	M4	50	10	4-M4 × L20
B	□56	M4	47.14	6.35	4-M4 × L20
C	□56	M4	47.14	8	4-M4 × L20

List of attachments

[Motor mounting parts]

Mounted motor specification	Timing belt/pulley	Motor size	Motor mounting bolt	
			Size	Quantity
A	Included at shipment	☐ 56 ☐ 60	M4	4
B			M4	4
C			M4	4

[Origin sensor/Limit sensor]

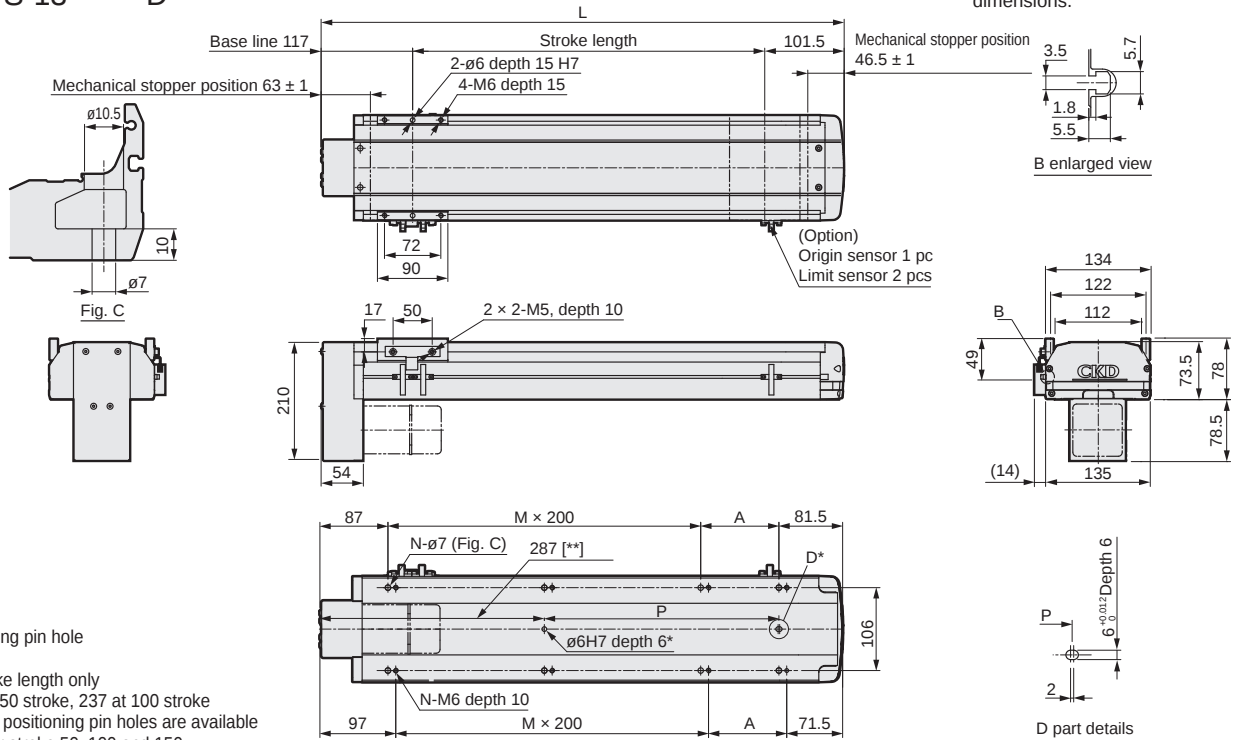
Manufacturer	Model	Quantity
OMRON Corporation	EE-SX672	3

*Refer to page 630 for sensor specifications.

Dimensions Motor bottom mounting

● ETS-13-*****-D

Refer to page 632 for grease nipple dimensions.



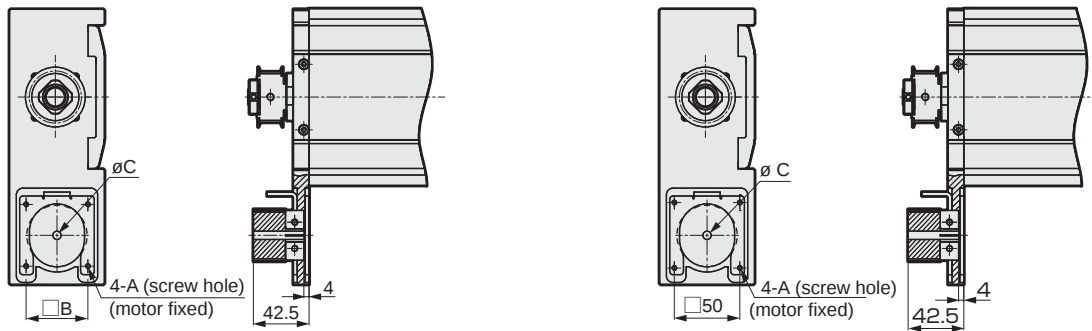
*Positioning pin hole (option)
 **50 stroke length only
 ** 187 at 50 stroke, 237 at 100 stroke
 Round positioning pin holes are available only for stroke 50, 100 and 150.

Stroke length (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	268.5	318.5	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5	768.5	818.5	868.5	918.5	968.5	1018.5	1068.5	1118.5	1168.5	1218.5	1268.5
A	0	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5
N	4	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14
P	0	0	0	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900
Weight (kg)	6.7	7.3	7.7	8.2	8.7	9.2	9.7	10.1	10.7	11.1	11.7	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.0	16.6

Motor mounting part

● ETS-13 (□ 56)

● ETS-13 (□ 60)



Mounted motor specification		A	B	C	Motor mounting bolt
A	□ 60	M4	50	10	4-M4 × L20
B	□ 56	M4	47.14	6.35	4-M4 × L20
C	□ 56	M4	47.14	8	4-M4 × L20

List of attachments

[Motor mounting parts]

Mounted motor specification	Timing belt/pulley	Motor size	Motor mounting bolt	
			Size	Quantity
A	Included at shipment	□ 56 □ 60	M4	4
B			M4	4
C			M4	4

[Origin sensor/Limit sensor]

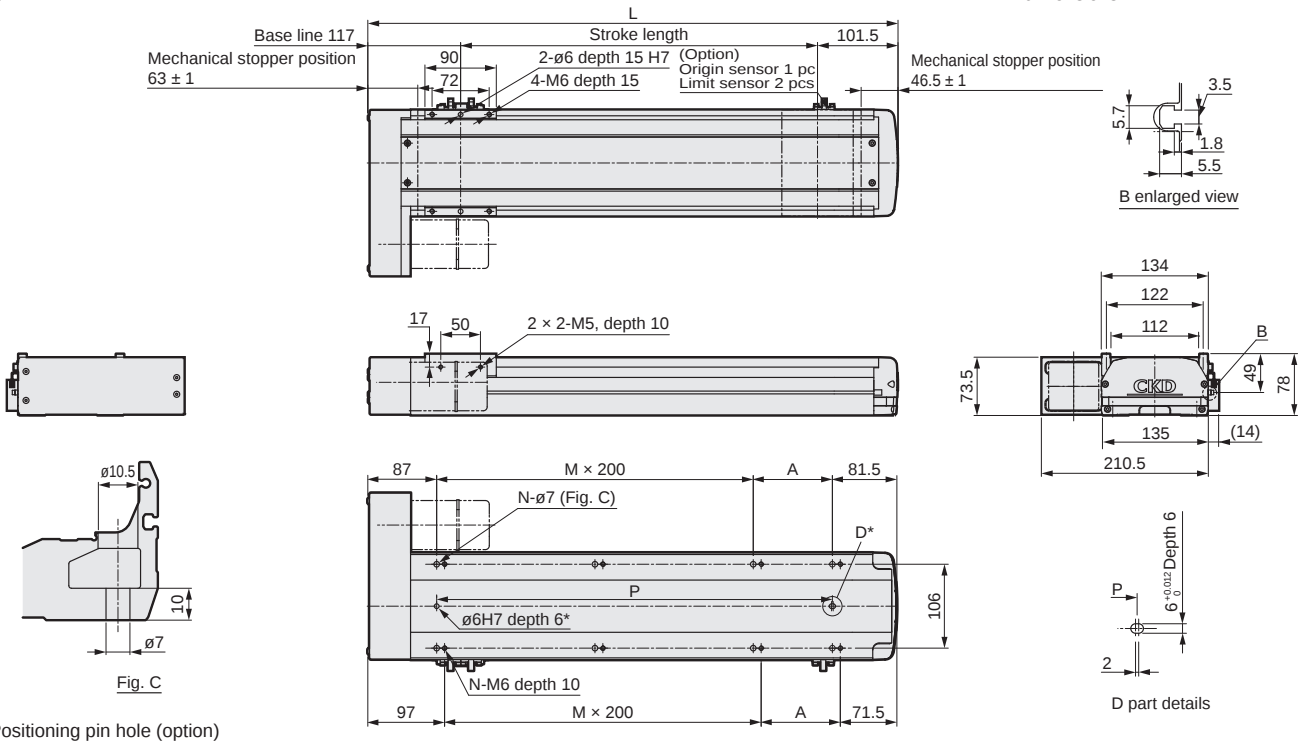
Manufacturer	Model	Quantity
OMRON Corporation	EE-SX672	3

*Refer to page 630 for sensor specifications.

Dimensions Motor left-side mounting

● ETS-13-*****-L

· Refer to page 632 for grease nipple dimensions.



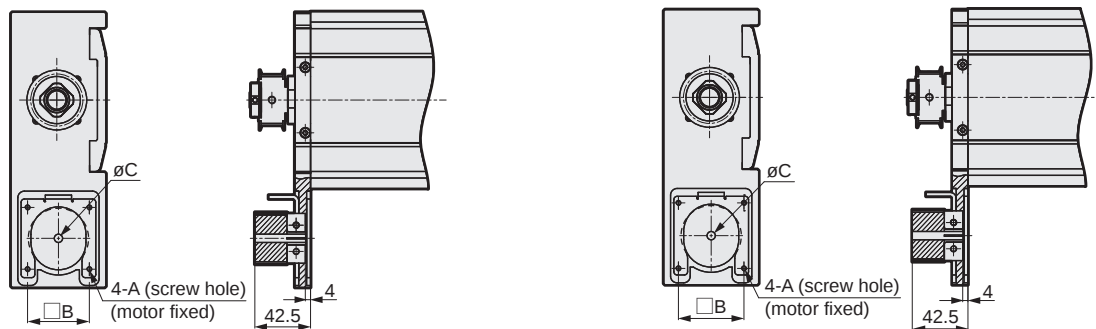
*Positioning pin hole (option)

Stroke length (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	268.5	318.5	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5	768.5	818.5	868.5	918.5	968.5	1018.5	1068.5	1118.5	1168.5	1218.5	1268.5
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5
N	4	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
Weight (kg)	6.7	7.3	7.7	8.2	8.7	9.2	9.7	10.1	10.7	11.1	11.7	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.0	16.6

Motor mounting part

● ETS-13 (□56)

● ETS-13 (□60)



Mounted motor specification		A	B	C	Motor mounting bolt
A	□60	M4	50	10	4-M4 × L20
B	□56	M4	47.14	6.35	4-M4 × L20
C	□56	M4	47.14	8	4-M4 × L20

List of attachments

[Motor mounting parts]

Mounted motor specification	Timing belt/pulley	Motor size	Motor mounting bolt	
			Size	Quantity
A	Included at shipment	☐ 56 ☐ 60	M4	4
B			M4	4
C			M4	4

[Origin sensor/Limit sensor]

Manufacturer	Model	Quantity
OMRON Corporation	EE-SX672	3

*Refer to page 630 for sensor specifications.



Electric actuator Ball screw drive Slider

ETS-14 Series

Straight motor mounting

● Stepper motor size: ☐56, ☐60

How to order

ETS - 14 - 05 005 - E A B N N N N N - X

A Body size
14 Body width 135 mm

B Screw lead
05 5 mm
10 10 mm
16 16 mm
20 20 mm

C Stroke length
005 50 mm
to (In 50 mm increments)
105 1050 mm

D Motor mounting direction
E Straight mounting

E Mounted motor specification
A Select the mounted motor specification from the table below.
B
C

F Motor size
B ☐56
C ☐60

G Brake
N None

H Origin sensor (1 pc) *1 *2 *3
N None
A Inside motor side
B Inside motor opposite side
C Outside motor side
D Outside motor opposite side

I Limit sensor (2 pcs) *1 *2 *3
N None
A Inside
B Outside

J Grease nipple *3 *4
N None (Body mounting direction: Standard)
R Right
L Counterclockwise

K Positioning pin hole
N None
P Yes

L Metal stopper specifications (ETS-X)
Standard
X Yes

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

*2: For sensor inside mounting, the user cannot adjust the position. (Assembled at shipment)

For sensor outside mounting, the user can adjust the position. (Included at shipment)

*3: Contact CKD to use the origin sensor, limit sensor and grease nipple in the same direction.

*4: "Body mounting direction: Standard" here indicates that either top or bottom mounting is possible.

Manufacturer	☐ 56	☐ 60
Oriental Motor Co., Ltd.	-	A
MinebeaMitsumi Inc.	B	-
Dyadic Systems Co., Ltd.	C	-

*Refer to page 587 for the motor model No.

Specifications

Applicable motor sizes	☐ 56, ☐ 60 stepper motor			
Drive method	Ball screw ϕ 16			
Ball screw accuracy grade	C7			
Stroke length mm	50 to 1050			
Screw lead mm	5	10	16	20
Max. load capacity *1	Horizontal kg	110	88	48
	Vertical kg	33	22	10
Max. speed mm/s	250	500	800	1000
Rated thrust *1 N	1388	694	433	347
Repeatability mm	± 0.01			
Lost motion mm	0.1 or less			
Drive system weight kg	1.6			
Other inertia kg·cm ²	0.074			
Coefficient of friction	0.05			
Mechanical efficiency	0.8			
Ball screw length	Stroke + 200			
Dynamic allowable load N	6567			
Static allowable moment N·m	MP: 552.0, MY: 551.0, MR: 485.0			
Dynamic allowable moment N·m	MP: 262.7, MY: 262.7, MR: 261.0			
Operating ambient temperature, humidity	0 to 40°C (no freezing) 35 to 80% RH (no condensation)			
Storage ambient temperature, humidity	-10 to 50°C (no freezing) 35 to 80% RH (no condensation)			
Atmosphere	No corrosive gas, explosive gas, or dust			

*1 The rated thrust and max. load capacity values are the allowable values for the actuator body; the actual thrust and load capacity are limited by the motor used.

Stroke and max. speed

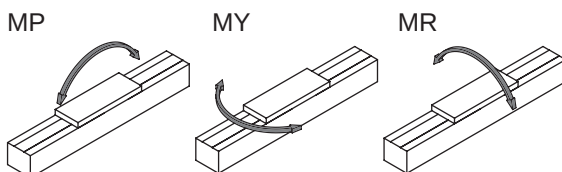
		(mm/s)					
Stroke length	Screw lead	100 to 750	800	850	900	950	1050
5	5	250	225	200	175	150	125
10	10	500	450	400	350	300	250
16	16	800	720	640	560	480	400
20	20	1000	900	800	700	600	500

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

Allowable overhang length

*Refer to page 626 for details.

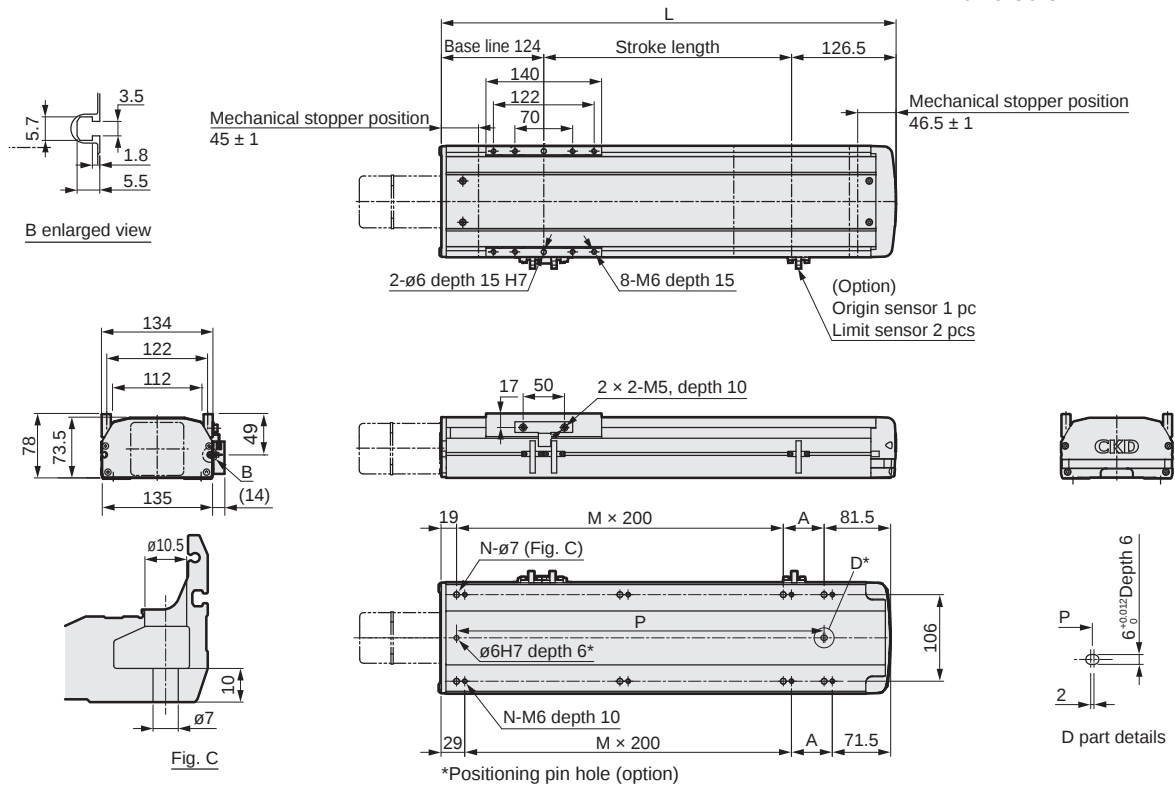
Moment direction



Dimensions Straight motor mounting

● ETS-14-****-E

· Refer to page 632 for grease nipple dimensions.

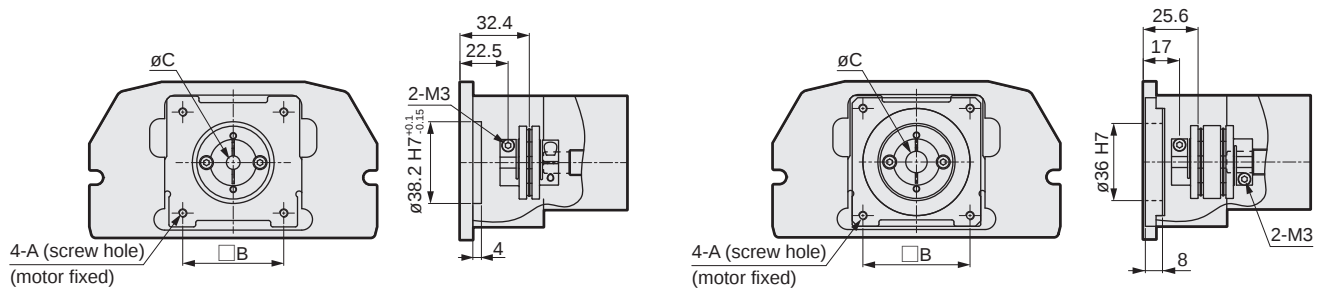


Stroke length (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	300.5	350.5	400.5	450.5	500.5	550.5	600.5	650.5	700.5	750.5	800.5	850.5	900.5	950.5	1000.5	1050.5	1100.5	1150.5	1200.5	1250.5	1300.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
P	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
Weight (kg)	6.1	6.7	7.1	7.6	8.1	8.6	9.1	9.5	10.1	10.5	11.1	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.4	16.0

Motor mounting part

● ETS-14 (□56)

● ET4-14 (□60)



Mounted motor specification		A	B	C	Motor mounting bolt
A	□60	M4	50	10	4-M4 × L20
B	□56	M4	47.14	6.35	4-M4 × L16
C	□56	M4	47.14	8	4-M4 × L16

List of attachments

[Motor mounting parts]

Mounted motor specification	Coupling	Motor size	Motor mounting bolt	
			Size	Quantity
A	Assembled at shipment	☐ 56 ☐ 60	M4	4
B			M4	4
C			M4	4

[Origin sensor/Limit sensor]

Manufacturer	Model	Quantity
OMRON Corporation	EE-SX672	3

*Refer to page 630 for sensor specifications.



Electric actuator Ball screw drive Slider

ETS-14 Series

Motor side mounting (left, right, bottom)

● Stepper motor size: ☐56, ☐60

How to order

ETS - 14 - 05 005 - R A B N N N N N - X

A Body size
14 Body width 135 mm

B Screw lead
05 5 mm
10 10 mm
16 16 mm
20 20 mm

C Stroke length
005 50 mm
to (In 50 mm increments)
105 1050 mm

D Motor mounting direction *5
R Right mounting
D Bottom mounting
L Left mounting

E Mounted motor specification
A Select the mounted motor specification from the table below.
B
C

F Motor size
B ☐56
C ☐60

G Brake
N None

H Origin sensor (1 pc) *1 *2 *3
N None
A Inside motor side
B Inside motor opposite side
C Outside motor side
D Outside motor opposite side

I Limit sensor (2 pcs) *1 *2 *3
N None
A Inside
B Outside

J Grease nipple *3 *4 *5
N None (Body mounting direction: Standard)
R Right
L Counterclockwise

K Positioning pin hole
N None
P Yes

L Metal stopper specifications (ETS-X)
Standard
X Yes

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

*2: For sensor inside mounting, the user cannot adjust the position. (Assembled at shipment)

For sensor outside mounting, the user can adjust the position. (Included at shipment)

*3: Contact CKD to use the origin sensor, limit sensor and grease nipple in the same direction.

*4: "Body mounting direction: Standard" here indicates that either top or bottom mounting is possible.

*5: When selecting motor mounting direction R, grease nipple R cannot be selected.

When selecting L, grease nipple L cannot be selected.

Manufacturer	☐ 56	☐ 60
Oriental Motor Co., Ltd.	-	A
MinebeaMitsumi Inc.	B	-
Dyadic Systems Co., Ltd.	C	-

*Refer to page 587 for the motor model No.

Specifications

Applicable motor sizes		□56, □60 stepper motor			
Drive method		Ball screw ø16			
Ball screw accuracy grade		C7			
Stroke length *1 mm		50 to 1050			
Screw lead mm		5	10	16	20
Max. load capacity *1	Horizontal kg	110	88	48	40
	Vertical kg	33	22	10	8
Max. speed mm/s		250	500	800	1000
Rated thrust *1 N		1388	694	433	347
Repeatability mm		±0.01			
Lost motion mm		0.1 or less			
Drive system weight kg		1.6			
Other inertia kg·cm²		0.870			
Coefficient of friction		0.05			
Mechanical efficiency		0.8			
Ball screw length		Stroke + 200			
Dynamic allowable load N		6567			
Static allowable moment N·m		MP: 552.0, MY: 551.0, MR: 485.0			
Dynamic allowable moment N·m		MP: 262.7, MY: 262.7, MR: 261.0			
Operating ambient temperature, humidity		0 to 40°C (no freezing) 35 to 80% RH (no condensation)			
Storage ambient temperature, humidity		-10 to 50°C (no freezing) 35 to 80% RH (no condensation)			
Atmosphere		No corrosive gas, explosive gas, or dust			

*1 The rated thrust and max. load capacity values are the allowable values for the actuator body; the actual thrust and load capacity are limited by the motor used.

Stroke and max. speed

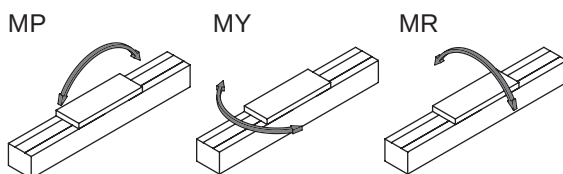
		(mm/s)					
Stroke length	Screw lead	100 to 750	800	850	900	950	1050
	5	250	225	200	175	150	125
	10	500	450	400	350	300	250
	16	800	720	640	560	480	400
	20	1000	900	800	700	600	500

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

Allowable overhang length

*Refer to page 626 for details.

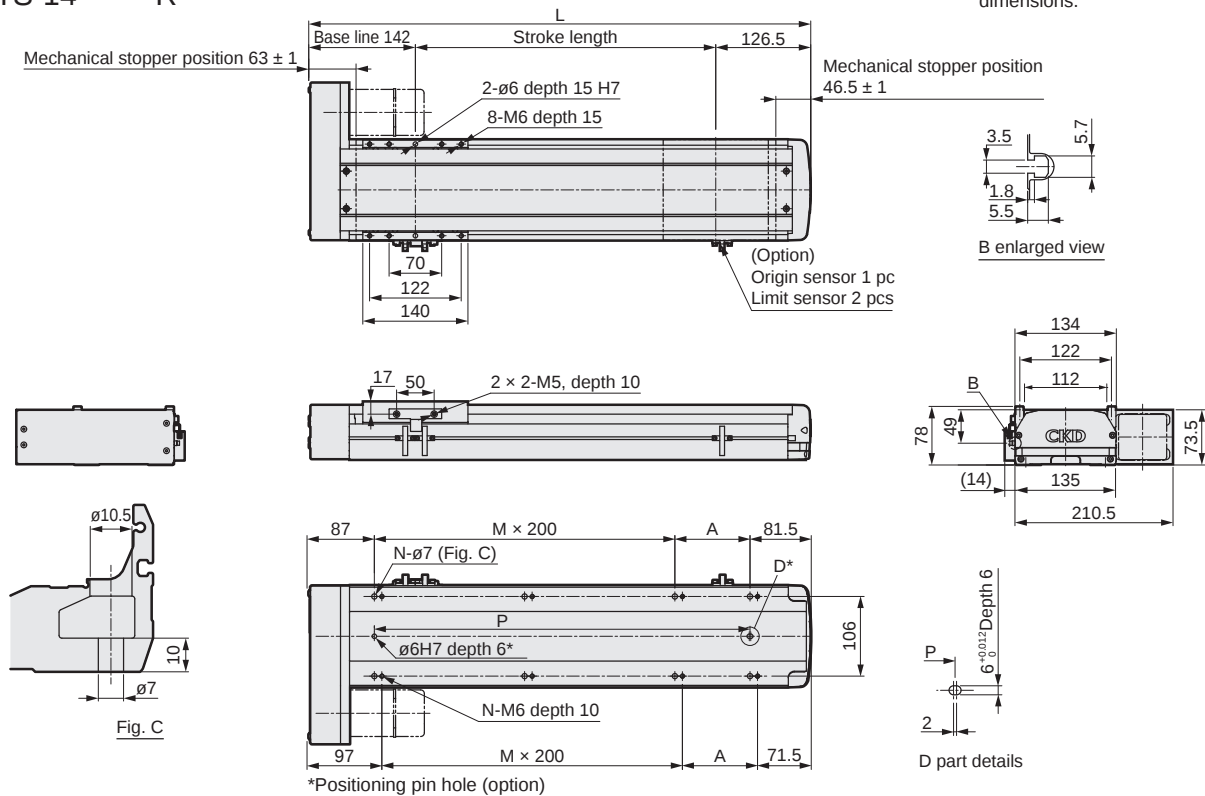
Moment direction



Dimensions Motor right-side mounting

● ETS-14-*****-R

· Refer to page 632 for grease nipple dimensions.

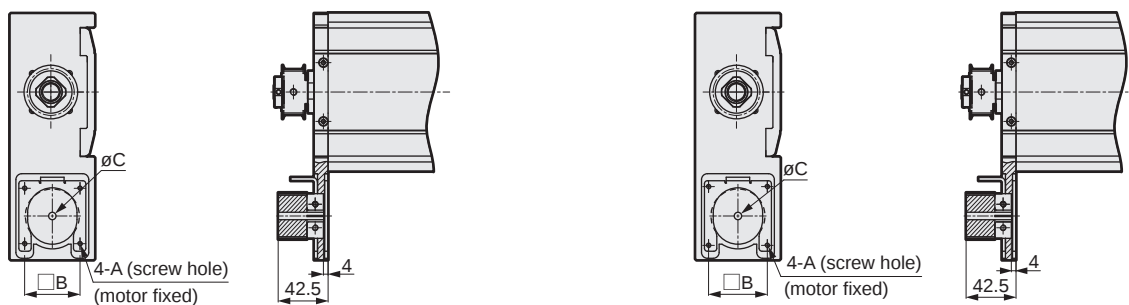


Stroke length (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	318.5	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5	768.5	818.5	868.5	918.5	968.5	1018.5	1068.5	1118.5	1168.5	1218.5	1268.5	1318.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
P	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150
Weight (kg)	6.9	7.5	7.9	8.4	8.9	9.4	9.9	10.3	10.9	11.3	11.9	12.3	12.8	13.3	13.8	14.3	14.8	15.3	15.8	16.2	16.8

Motor mounting part

● ETS-14 (□56)

● ETS-14 (□60)



Mounted motor specification		A	B	C	Motor mounting bolt
A	□60	M4	50	10	4-M4 × L20
B	□56	M4	47.14	6.35	4-M4 × L20
C	□56	M4	47.14	8	4-M4 × L20

List of attachments

[Motor mounting parts]

Mounted motor specification	Timing belt, pulley	Motor size	Motor mounting bolt	
			Size	Quantity
A	Included at shipment	□56 □60	M4	4
B			M4	4
C			M4	4

[Origin sensor/Limit sensor]

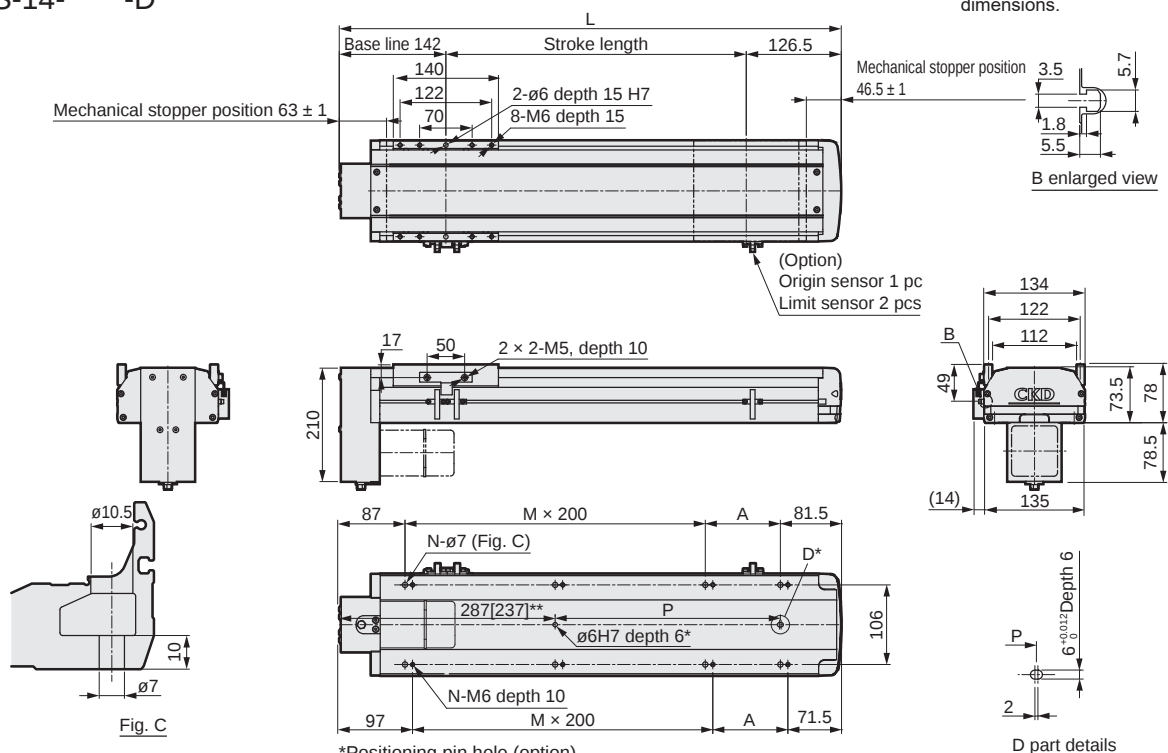
Manufacturer	Model	Quantity
OMRON Corporation	EE-SX672	3

*Refer to page 630 for sensor specifications.

Dimensions Motor bottom mounting

● ETS-14-*****-D

· Refer to page 632 for grease nipple dimensions.



*Positioning pin hole (option)

** 50 stroke only

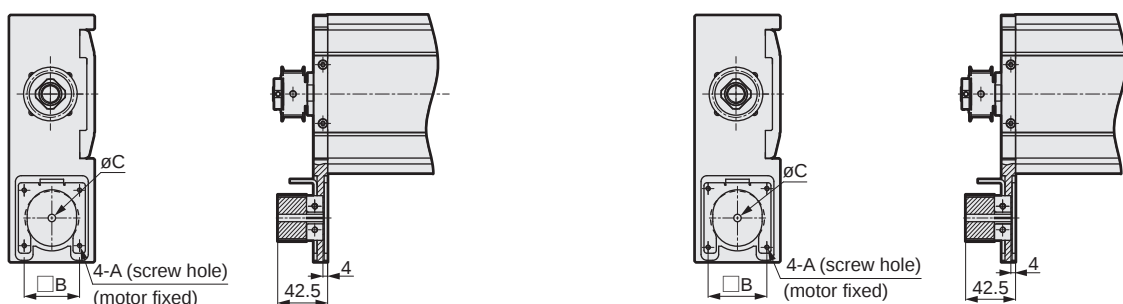
Only round positioning pin holes are available for strokes 50 and 100.

Stroke length (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	318.5	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5	768.5	818.5	868.5	918.5	968.5	1018.5	1068.5	1118.5	1168.5	1218.5	1268.5	1318.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	3	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
P	0	0	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
Weight (kg)	6.9	7.5	7.9	8.4	8.9	9.4	9.9	10.3	10.9	11.3	11.9	12.3	12.8	13.3	13.8	14.3	14.8	15.3	15.8	16.2	16.8

Motor mounting part

● ETS-14 (□ 56)

● ETS-14 (□ 60)



Mounted motor specification		A	B	C	Motor mounting bolt
A	□ 60	M4	50	10	4-M4 × L20
B	□ 56	M4	47.14	6.35	4-M4 × L20
C	□ 56	M4	47.14	8	4-M4 × L20

List of attachments

[Motor mounting parts]

Mounted motor specification	Timing belt, pulley	Motor size	Motor mounting bolt	
			Size	Quantity
A	Included at shipment	□ 56 □ 60	M4	4
B			M4	4
C			M4	4

[Origin sensor/Limit sensor]

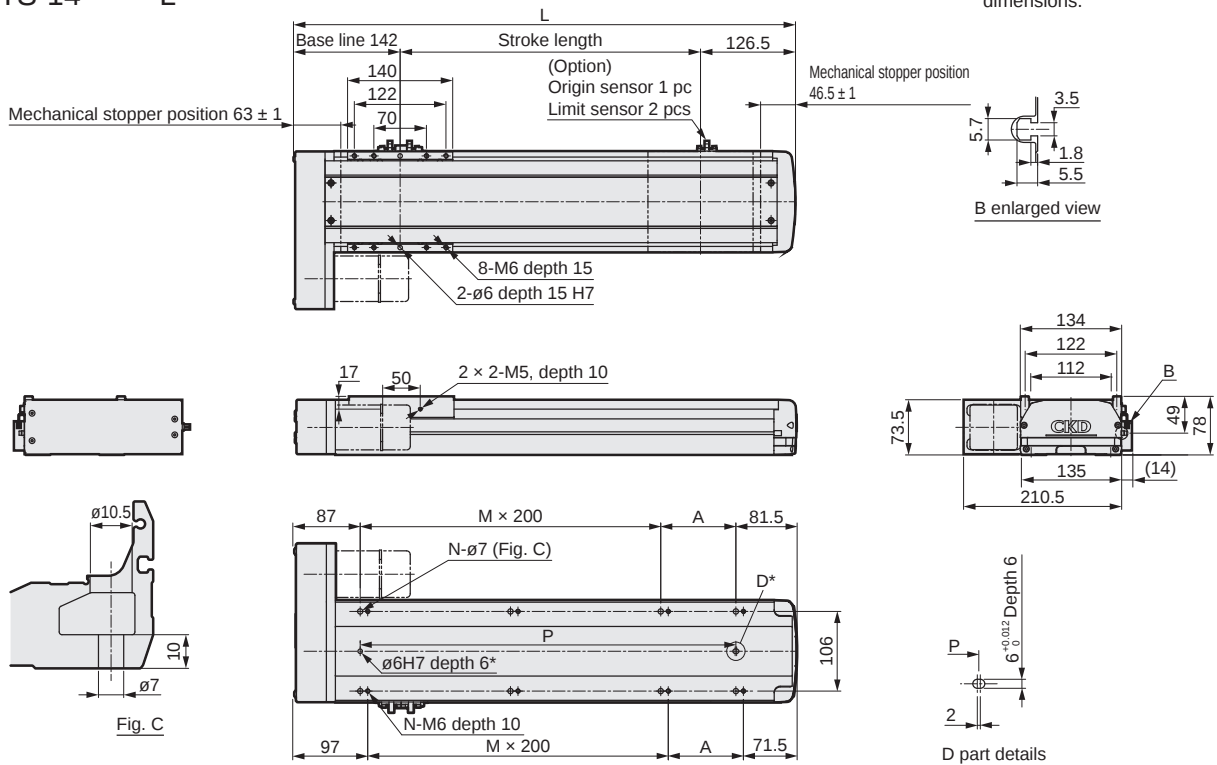
Manufacturer	Model	Quantity
OMRON Corporation	EE-SX672	3

*Refer to page 630 for sensor specifications.

Dimensions Motor left-side mounting

● ETS-14-****-L

· Refer to page 632 for grease nipple dimensions.



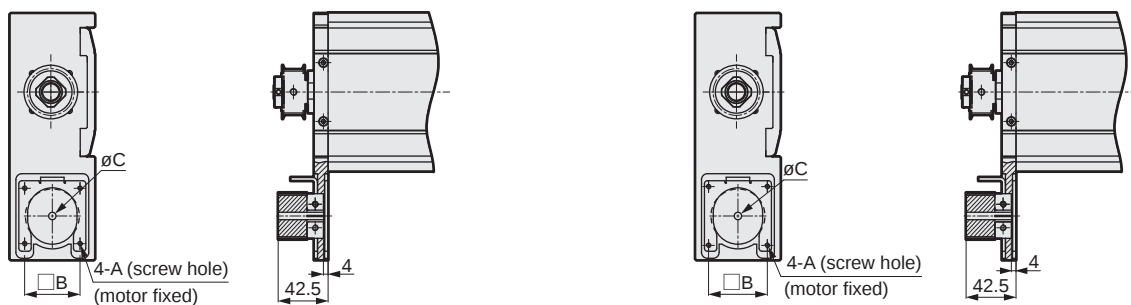
*Positioning pin hole (option)

Stroke length (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	318.5	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5	768.5	818.5	868.5	918.5	968.5	1018.5	1068.5	1118.5	1168.5	1218.5	1268.5	1318.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
P	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150
Weight (kg)	6.9	7.5	7.9	8.4	8.9	9.4	9.9	10.3	10.9	11.3	11.9	12.3	12.8	13.3	13.8	14.3	14.8	15.3	15.8	16.2	16.8

Motor mounting part

● ETS-14 (□56)

● ETS-14 (□60)



Mounted motor specification		A	B	C	Motor mounting bolt
A	□60	M4	50	10	4-M4 × L20
B	□56	M4	47.14	6.35	4-M4 × L20
C	□56	M4	47.14	8	4-M4 × L20

List of attachments

[Motor mounting parts]

Mounted motor specification	Timing belt, pulley	Motor size	Motor mounting bolt	
			Size	Quantity
A	Included at shipment	□56 □60	M5	4
B			M5	4
C			M4	4

[Origin sensor/Limit sensor]

Manufacturer	Model	Quantity
OMRON Corporation	EE-SX672	3

*Refer to page 630 for sensor specifications.