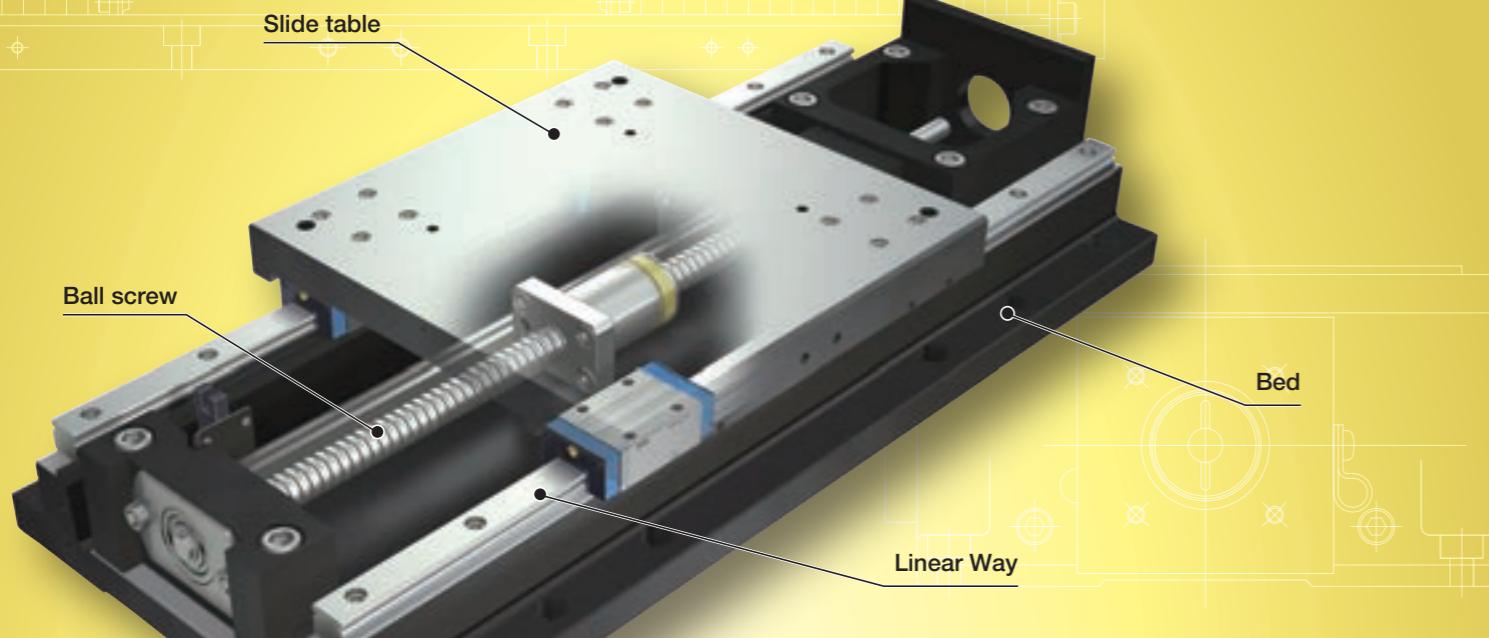
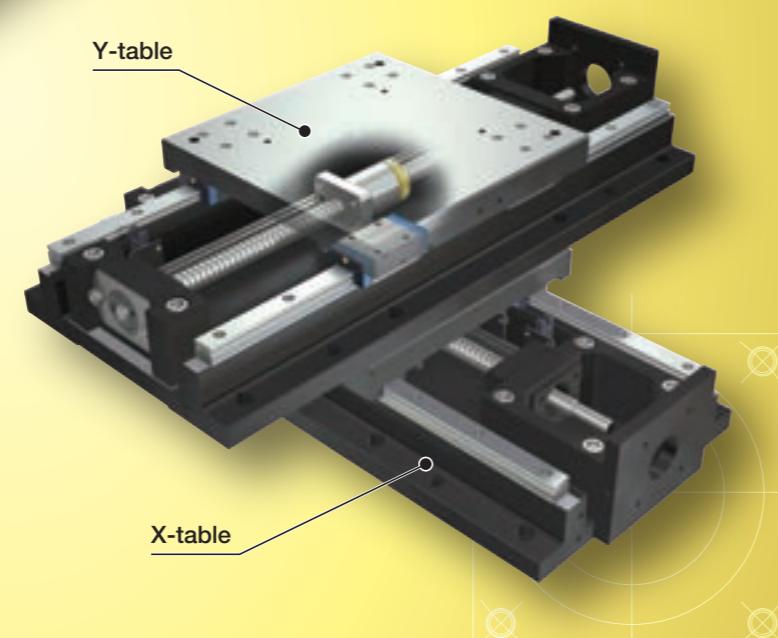


**TSLH···M
CTLH···M**

TSLH...M



CTLH...M



Major product specifications

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

Accuracy

unit: mm	
Positioning repeatability	±0.002
Positioning accuracy	0.010~0.035
Lost motion	-
Parallelism in table motion A	0.010~0.035
Parallelism in table motion B	-
Attitude accuracy	-
Straightness	0.005~0.025
Backlash	0.001

Points

● High precision, high rigidity positioning table

1 High precision, high rigidity positioning table configured with high rigidity and vibration damping performance cast iron slide tables and beds.

● High running accuracy and positioning accuracy

2 High running accuracy and high accuracy positioning are realized by incorporating 2 sets of Linear Way in parallel on cast iron slide tables and beds finished by accurate ground and combining with precision ball screws.

● High rigidity and large carrying mass

3 The structure with large carrying mass, and resistant to moment and complex load since 2 sets of Linear Way are optimally positioned on the high rigidity bed.

Variation

Shape	Model and size	Table width (mm)	Stroke length (mm)									
			100	150	200	250	300	400	500	600	800	1000
	TSLH120M	120	☆	☆	☆	☆	☆	-	-	-	-	-
	TSLH220M	220	-	☆	☆	☆	☆	☆	☆	(☆)	(☆)	-
	TSLH320M	320	-	-	-	-	☆	☆	☆	(☆)	(☆)	(☆)
	TSLH420M	420	-	-	-	-	-	-	☆	☆	☆	(☆)

Identification Number

Example of an Identification Number
(Single-axis specification)

1 2 1 3 4 5 6 7
TSLH 120 M - 300 / AT301 10 J R

1 Model

Page II-126

2 Size

Page II-126

3 Stroke length

Page II-126

4 Designation of motor attachment

Page II-126

5 Ball screw lead

Page II-126

6 Designation of bellow

Page II-126

7 Surface treatment

Page II-126

Identification Number and Specification

1 Model

TSLH···M: Precision Positioning Table LH (single-axis specification)

2 Size

Size indicates table width.
Select a size from the list of Table 1.

3 Stroke length

Select a stroke length from the list of Table 1.
As for a table with bellows, available stroke length is somewhat shorter, so please see the dimension table.

Table 1 Sizes, table width dimensions, and stroke lengths

unit: mm

Model and size	Table width	Stroke length
TSLH120M	120	100, 150, 200, 250, 300
TSLH220M	220	150, 200, 250, 300, 400 (500, 600)
TSLH320M	320	300, 400, 500 (600, 800, 1 000)
TSLH420M	420	500, 600, 800 (1 000)

Remark: If the stroke length shown in () is needed, please contact IKO.

4 Designation of motor attachment

As for a motor attachment, select it from the list of Table 3.

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

5 Ball screw lead

5: Lead 5mm
10: Lead 10mm

6 Designation of bellow

No symbol: Without bellows
J : With bellows

As for a table with bellows, available stroke length is somewhat shorter, so please see the dimension table.

7 Surface treatment

No symbol: Black chrome surface treatment
R : Black chrome surface treatment 1
L : Black chrome surface treatment 2

Black chrome surface treatment: This treatment is performed on main parts excluding Linear Way, ball screw, and ball bearing.

Black chrome surface treatment 1: In addition to the above black chrome surface treatment, this treatment is performed even on the surface of Linear Way.

Black chrome surface treatment 2: In addition to the above black chrome surface treatment 1, this treatment is performed even on the surface of ball screw.

The black chrome surface treatment improves the corrosion resistance by forming black permeable film on the surface.

For the upper and lower surfaces of the main body and the reference surfaces of respective parts, surface treatment is excluded.

Identification Number

Example of an Identification Number
(Two-axis specification)

1 2 1 3 4 5 6 7 8 9
CTLH 120 M - 30 20 / AT301 10 J R C

1 Model

Page II-128

2 Size

Page II-128

3 X-axis stroke length

Page II-128

4 Y-axis stroke length

Page II-128

5 Designation of motor attachment

Page II-128

6 Ball screw lead

Page II-128

7 Designation of bellow

Page II-128

8 Surface treatment

Page II-128

9 Designation of combination direction

Page II-128

Identification Number and Specification

1 Model

CTLH··M: Precision Positioning Table LH (two-axis specification)

2 Size

Size indicates table width.
Select a size from the list of Table 2.

Tables of different sizes can also be combined.

3 X-axis stroke length

Select a stroke length from the list of Table 2.

4 Y-axis stroke length

Stroke lengths of respective axes are displayed in cm. Please note that allowable lengths for X- and Y-axes vary.
As for a table with bellows, available stroke length is somewhat shorter, so please see the dimension table.

Table 2 Sizes, table width dimensions, and stroke lengths

Model and size	Table width	Stroke length		unit: mm
		X-axis	Y-axis	
CTLH120M	120	100	100	
		200	100	
		200	200	
		300	200	
		300	300	
CTLH220M	220	200	200	
		300	200	
		300	300	
		400	300	
		400	400	
CTLH320M	320	300	300	
		400	300	
		400	400	
		500	400	
		500	500	

5 Designation of motor attachment

As for a motor attachment, select it from the list of Table 3.

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

6 Ball screw lead

5: Lead 5mm
10: Lead 10mm

7 Designation of bellow

No symbol: Without bellows
J : With bellows

As for a table with bellows, available stroke length is somewhat shorter, so please see the dimension table.

8 Surface treatment

No symbol: Black chrome surface treatment
R : Black chrome surface treatment 1
L : Black chrome surface treatment 2

Black chrome surface treatment: This treatment is performed on main parts excluding Linear Way, ball screw, and ball bearing.
Black chrome surface treatment 1: In addition to the above black chrome surface treatment, this treatment is performed even on the surface of Linear Way.
Black chrome surface treatment 2: In addition to the above black chrome surface treatment 1, this treatment is performed even on the surface of ball screw.
The black chrome surface treatment improves the corrosion resistance by forming black permeable film on the surface.
For the upper and lower surfaces of the main body and the reference surfaces of respective parts, surface treatment is excluded.

9 Designation of combination direction

No symbol: Standard configuration
C : Reverse configuration

Standard configuration: A direction under the condition where X-axis motor side is placed at the front and Y-axis motor side is placed on the right side respectively.
Reverse configuration: A direction under the condition where X-axis motor side is placed at the front and Y-axis motor side is placed on the left side respectively.

Specifications

Table 3 Application of motor attachment

Models of motor to be used					Flange size mm	Motor attachment			
Type	Manufacturer	Series	Model	Rated output W		TSLH120M CTLH120M	TSLH220M CTLH220M	TSLH320M CTLH320M	TSLH420M
AC servo motor	YASKAWA ELECTRIC CORPORATION	Σ-V	SGMJV-01A	100	□40	AT301	—	—	—
			SGMAV-01A			AT301	—	—	—
			SGMJV-02A	200	□60	AT302	AT303	—	—
			SGMAV-02A			AT302	AT303	—	—
		J4	SGMJV-04A	400	□80	—	AT303	AT304	—
			SGMAV-04A			—	AT303	AT304	—
			SGMJV-08A	750		—	—	AT305	AT306
			SGMAV-08A			—	—	AT305	AT306
	Mitsubishi Electric Corporation	HG	HG-MR13	100	□40	AT301	—	—	—
			HG-KR13			AT301	—	—	—
			HG-MR23	200	□60	AT302	AT303	—	—
			HG-KR23			AT302	AT303	—	—
		HG	HG-MR43	400	□80	—	AT303	AT304	—
			HG-KR43			—	AT303	AT304	—
			HG-MR73	750		—	—	AT305	AT306
			HG-KR73			—	—	AT305	AT306
	Panasonic Corporation	MINAS A5	MSMD01	100	□38	AT307	—	—	—
			MSME01			AT307	—	—	—
			MSMD02	200	□60	AT308	AT309	AT311	—
			MSME02			AT308	AT309	AT311	—
			MSMD04	400	□80	—	AT310	AT312	—
			MSME04			—	AT310	AT312	—
		MSME08	MSME08	750	□38	—	—	AT313	AT314
			MSME08			—	—	AT313	AT314
			ADMA-01L	100	□40	AT301	—	—	—
			ADMA-02L	200	□60	AT302	AT303	—	—
	Hitachi Industrial Equipment Systems Co., Ltd	AD	ADMA-04L	400		—	AT303	AT304	—
			ADMA-08L	750	□75	—	—	AT305	AT306
		ORIENTAL MOTOR Co., Ltd.	ARM66		□60	AT315	—	—	—
			ARM69			AT315	—	—	—
			ARM98		□85	—	AT317	AT318	—
			ARM911			—	AT317	AT318	—
		RKS CRK	CRK56(1)		□60	AT316	—	—	—
			RKS59		□85	—	AT317	AT318	—

Note (1) Applicable to the outer diameter $\phi 8$ of motor output shaft.

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

Table 4 Coupling models

Motor attachment	Coupling models	Manufacturer	Coupling inertia J_c $\times 10^{-5}\text{kg} \cdot \text{m}^2$
AT301	UA-25C- 8× 8	Sakai Manufacturing Co., Ltd	0.290
AT302	UA-30C- 8×14	Sakai Manufacturing Co., Ltd	0.603
AT303	UA-35C-12×14	Sakai Manufacturing Co., Ltd	1.34
AT304	UA-35C-14×15	Sakai Manufacturing Co., Ltd	1.34
AT305	UA-40C-15×19	Sakai Manufacturing Co., Ltd	2.61
AT306	UA-40C-15×19	Sakai Manufacturing Co., Ltd	2.61
AT307	UA-25C- 8× 8	Sakai Manufacturing Co., Ltd	0.290
AT308	UA-30C- 8×11	Sakai Manufacturing Co., Ltd	0.603
AT309	UA-35C-11×12	Sakai Manufacturing Co., Ltd	1.34
AT310	UA-35C-12×14	Sakai Manufacturing Co., Ltd	1.34
AT311	UA-35C-11×15	Sakai Manufacturing Co., Ltd	1.34
AT312	UA-35C-14×15	Sakai Manufacturing Co., Ltd	1.34
AT313	UA-40C-15×19	Sakai Manufacturing Co., Ltd	2.61
AT314	UA-40C-15×19	Sakai Manufacturing Co., Ltd	2.61
AT315	MSTS-25C- 8×10	Nabeya Bi-tech Kaisha	0.71
AT316	MSTS-25C- 8× 8	Nabeya Bi-tech Kaisha	0.71
AT317	MSTS-32C-12×14	Nabeya Bi-tech Kaisha	2.7
AT318	MSTS-40C-14×15	Nabeya Bi-tech Kaisha	9.0

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

Table 5 Accuracy

Model and size		Stroke length		Positioning repeatability	Positioning accuracy	Parallelism in table motion A	Straightness	Squareness of XY motion	Backlash	
		X-axis	Y-axis							
Single-axis specification	TSLH120M	100		± 0.002	0.010	0.010	0.005	—	0.001	
		150			0.015	0.015				
		200			0.020	0.020	0.010			
		250								
		300								
	TSLH220M	150		± 0.002	0.010	0.010	0.005	—	0.001	
		200			0.015	0.015				
		250			0.020	0.020	0.010			
		300								
		400								
Two-axis specification	TSLH320M	300		± 0.002	0.015	0.015	0.005	—	0.001	
		400			0.020					
		500								
	TSLH420M	500		± 0.002	0.025	0.025	0.015	—	0.001	
		600			0.030	0.030				
		800			0.035	0.035	0.020			
	CTLH120M	100	100	± 0.002	0.015	0.015	0.005	0.005	0.001	
		200	100		0.020	0.020	0.010	0.010		
		200	200			0.025				
		300	200		0.030	0.030	0.025			
		300	300							
	CTLH220M	200	200	± 0.002	0.020	0.025	0.010	0.010	0.001	
		300	200		0.030	0.035	0.020	0.015		
		300	300							
		400	300		0.030	0.035	0.020			
		400	400							
	CTLH320M	300	300	± 0.002	0.020	0.020	0.005	0.010	0.001	
		400	300		0.025					
		400	400							
		500	400		0.030					
		500	500							

Table 6 Maximum speed

Motor type	Model and size		Maximum speed mm/s	
	Single-axis specification	Two-axis specification	Lead 5mm	Lead 10mm
AC servo motor	TSLH120M	CTLH120M	250	500
	TSLH220M	CTLH220M		
	TSLH320M	CTLH320M	224	448
	TSLH420M			
Stepper motor	TSLH120M	CTLH120M	150	300
	TSLH220M	CTLH220M		
	TSLH320M	CTLH320M		

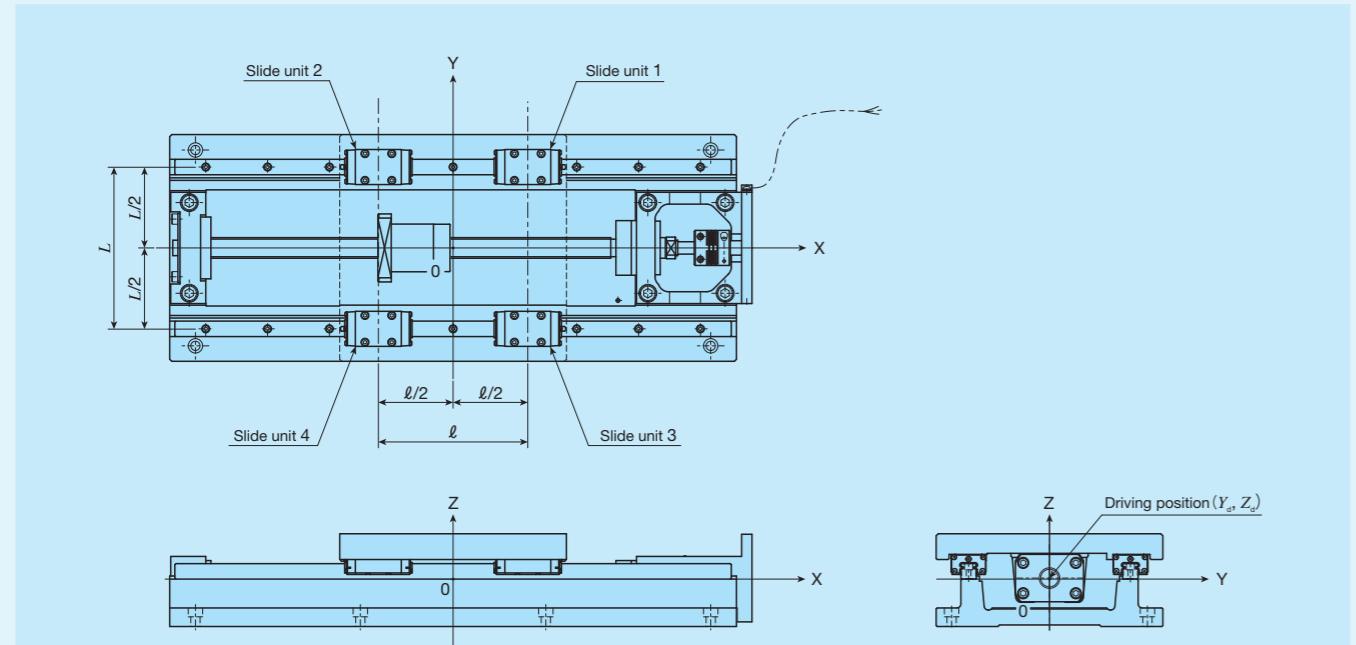
Remark: To measure the practical maximum speed, it is required to consider operation patterns based on the motor to be used and load conditions.

Specifications

Table 7 Maximum carrying mass

Model and size	Ball screw lead mm	Maximum carrying mass kg	
		Horizontal	Vertical
TSLH120M	5	135	28
	10	124	27
TSLH220M	5	218	30
	10	187	29
TSLH320M	5	536	27
	10	254	25
TSLH420M	5	519	10
	10	237	8

Table 8 Specifications of linear motion rolling guide



Model and size	Basic dynamic load rating ⁽¹⁾ C N	Basic static load rating ⁽¹⁾ C ₀ N	Arrangement			
			L mm	l mm	Y _d mm	Z _d mm
TSLH120M	6 260	8 330	88	82	0	2
TSLH220M	11 600	13 400	157	145	0	1
TSLH320M	25 200	28 800	240	210	0	6
TSLH420M	30 800	38 300	300	290	0	0

Note⁽¹⁾ Represent the value per slide unit.

Table 9.1 Specifications of ball screw 1

Model and size	Lead mm	Shaft dia. mm	Axial clearance mm	Basic dynamic load rating C N	Basic static load rating C ₀ N
TSLH120M	5	15	0	7 070	12 800
	10			7 070	12 800
TSLH220M	5	20	0	8 230	17 510
	10			10 900	21 700
TSLH320M TSLH420M	5	25	0	16 700	43 500
	10			15 800	32 700

Table 9.2 Specifications of ball screw 2

Model and size	Stroke length	Shaft dia.	Overall length
TSLH120M	100	15	256
	150		306
	200		356
	250		406
	300		456
TSLH220M	150	20	370
	200		420
	250		470
	300		520
	400		620
TSLH320M	300	25	616
	400		716
	500		816
	500		916
	600		1 016
TSLH420M	800	25	1 216

Table 10 Table inertia and starting torque

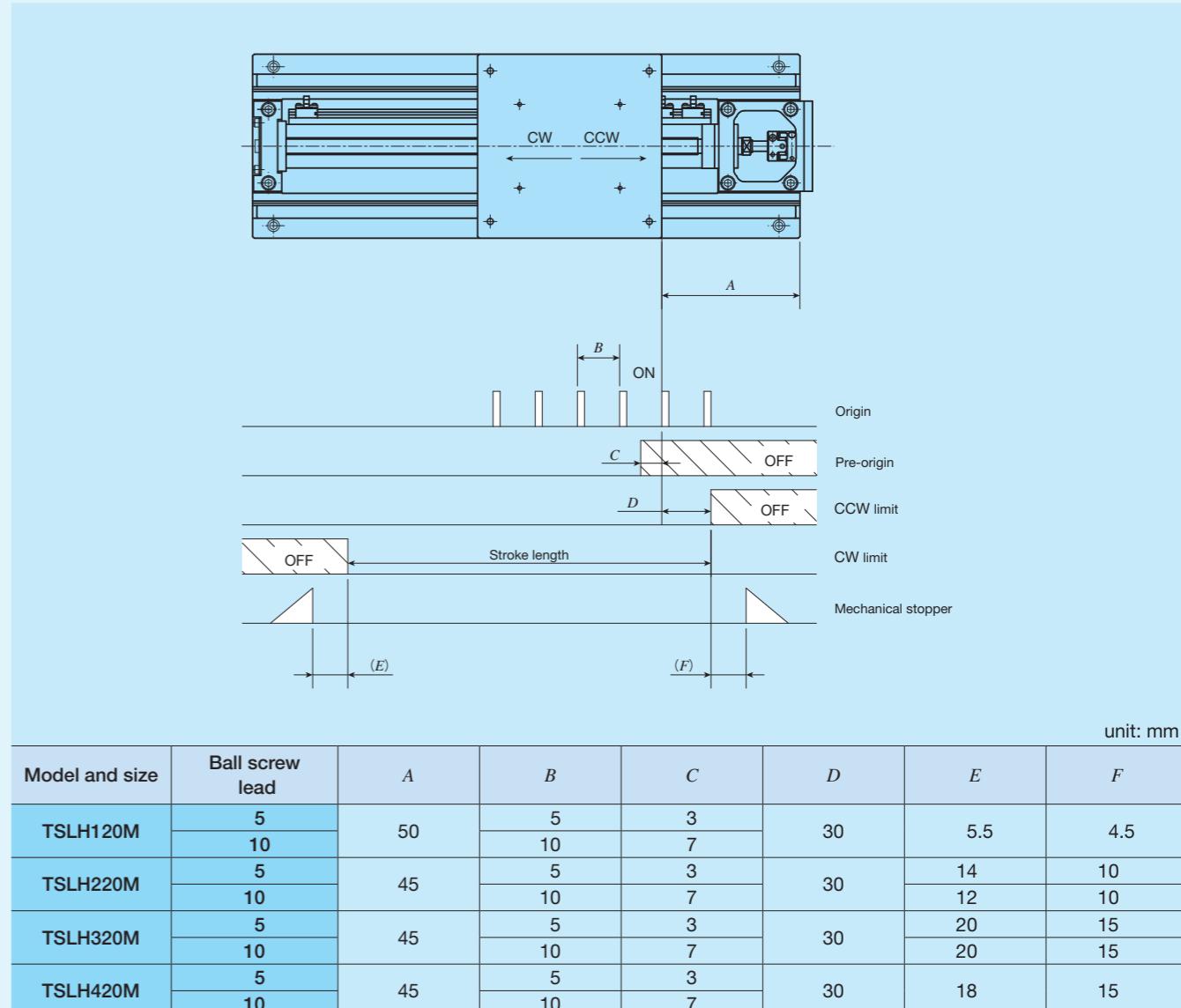
Model and size		Stroke length mm		Table inertia J_T $\times 10^{-5}\text{kg} \cdot \text{m}^2$		Starting torque T_s N · m	
		X-axis	Y-axis	Lead 5mm	Lead 10mm	Lead 5mm	Lead 10mm
Single-axis specification	TSLH120M	100		1.2	1.7	0.07	
		150		1.4	1.9		
		200		1.5	2.1		
		250		1.7	2.3		
		300		1.9	2.5		
	TSLH220M	150		5.1	6.9	0.12	
		200		5.7	7.5		
		250		6.3	8.1		
		300		7.0	8.7		
		400		8.2	10		
Two-axis specification	TSLH320M	300	100	20	26	0.20	
		400	100	23	29		
		500	100	26	32		
	TSLH420M	500	100	30	39	0.22	
		600	100	33	42		
		800	100	39	48		
	CTLH120M	100	100	1.8	4.2	0.08	
		200	100	2.2	4.5		
		200	200	2.3	5.1		
		300	200	2.7	5.5		
		300	300	2.8	6.0		
Two-axis specification	CTLH220M	200	200	7.8	16	0.12	
		300	200	9.1	17		
		300	300	9.3	18		
		400	300	11	19		
		400	400	11	21		
	CTLH320M	300	300	27	51	0.22	
		400	300	30	54		
		400	400	30	57		
		500	400	33	60		
		500	500	34	62		

Remark: As for tables of two-axis specification, the figures represent values in X-axis. For values in Y-axis, see the figures for single-axis specification.

Mounting

For the processing accuracy of the Precision Positioning Table mounting surface and the tightening torque of the fixing screws, see page III-29.

Table 11.1 Sensor timing chart (without bellows)

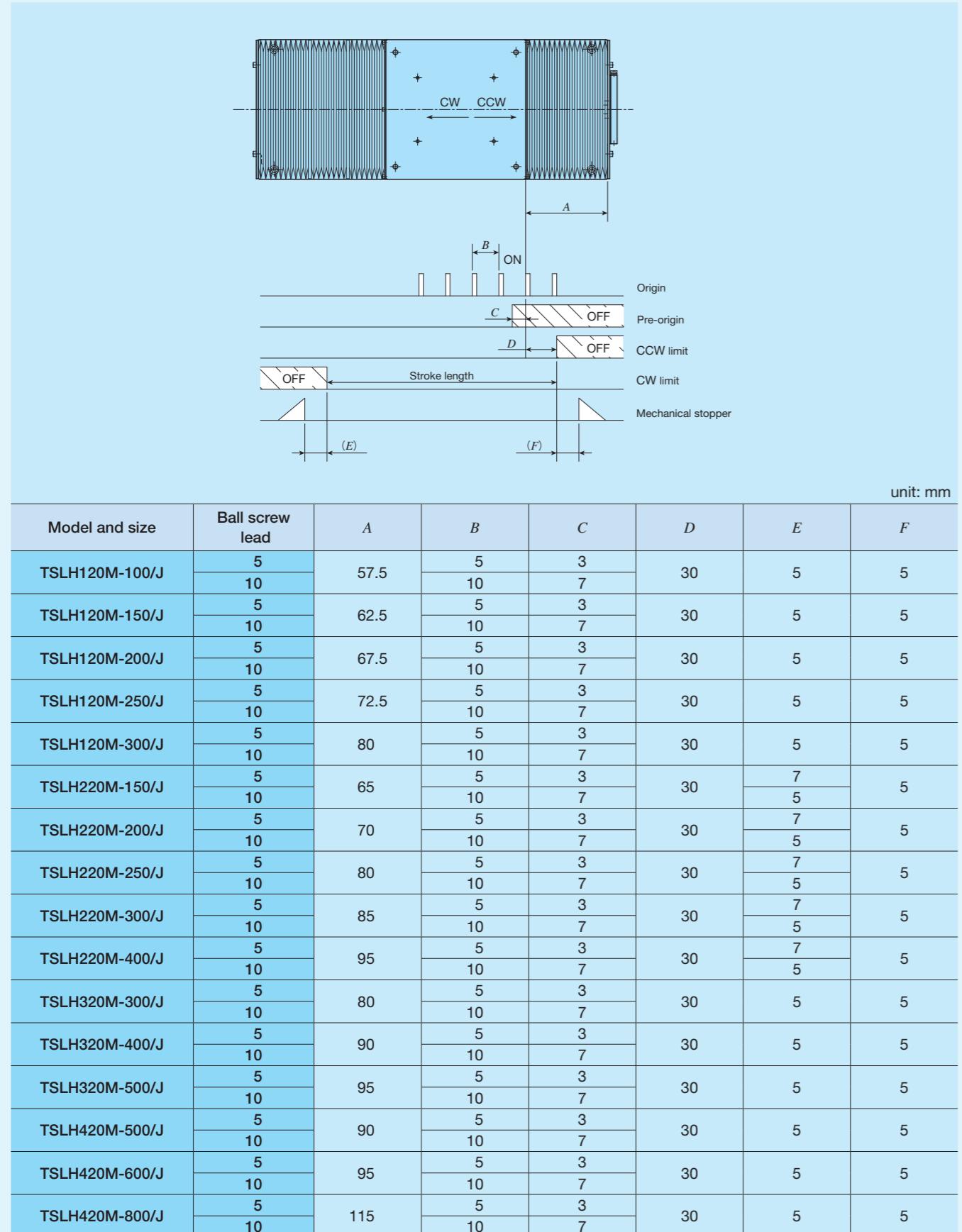


Remarks 1. For detailed specifications of respective sensors, please see the section of sensor specification in General Explanation.

2. The values of respective axes in tables of two-axis specification are the same as those of tables of single-axis specification.

Sensor Specification

Table 11.2 Sensor timing chart (with bellows)

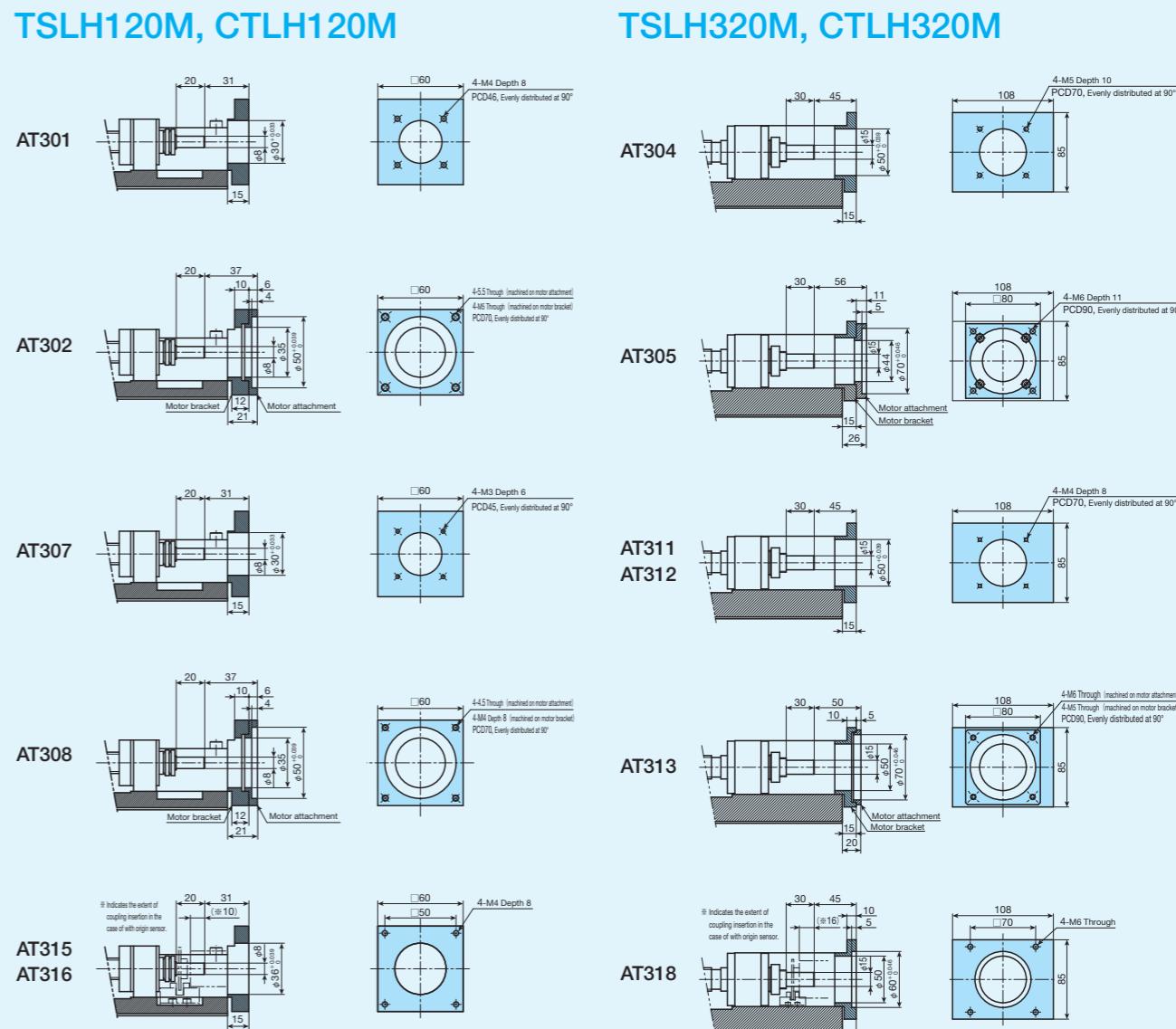


Remarks 1. For detailed specifications of respective sensors, please see the section of sensor specification in General Explanation.

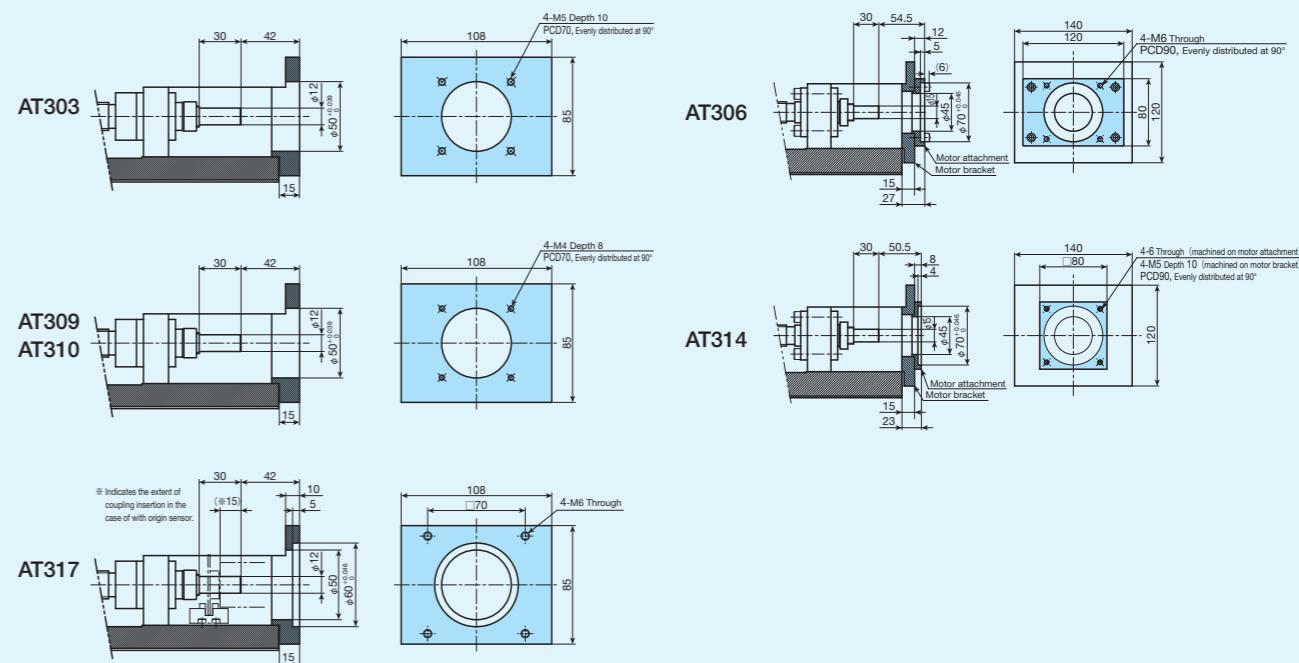
2. The values of respective axes in tables of two-axis specification are the same as those of tables of single-axis specification.

Dimensions of Motor Attachment

TSLH120M, CTLH120M



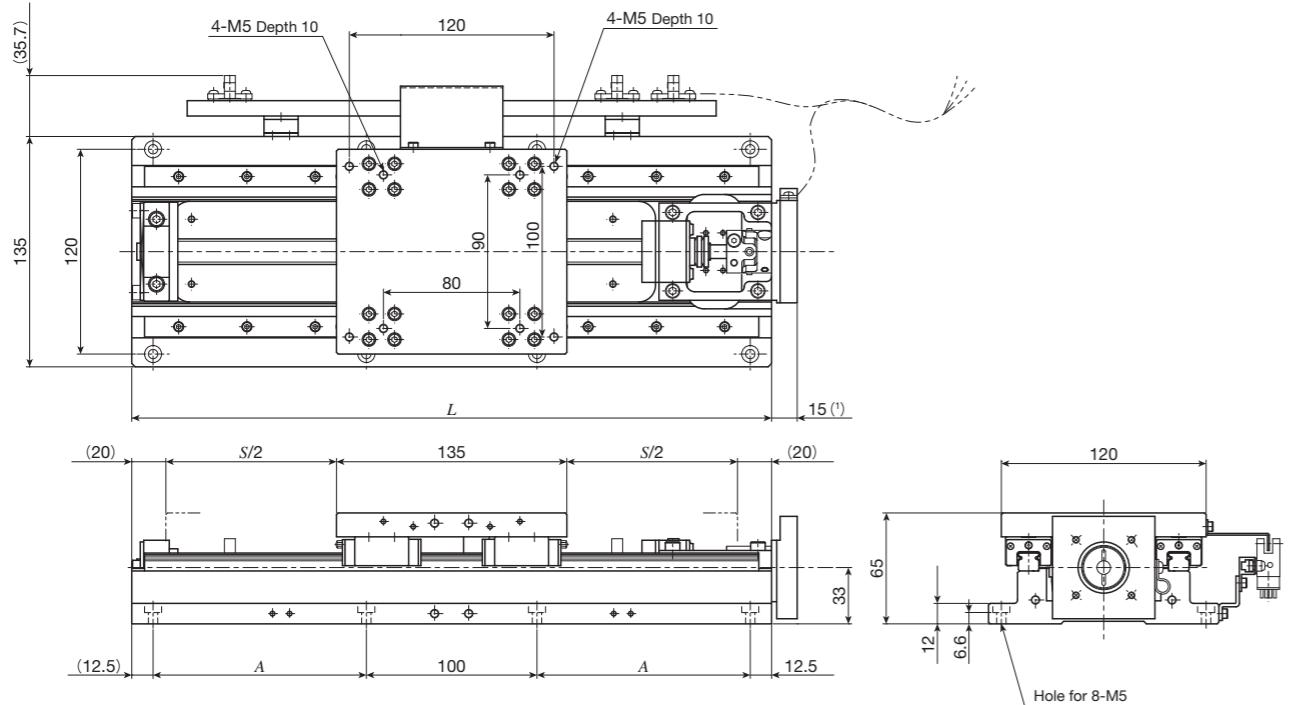
TSLH220M, CTLH220M



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

IKO Precision Positioning Table LH

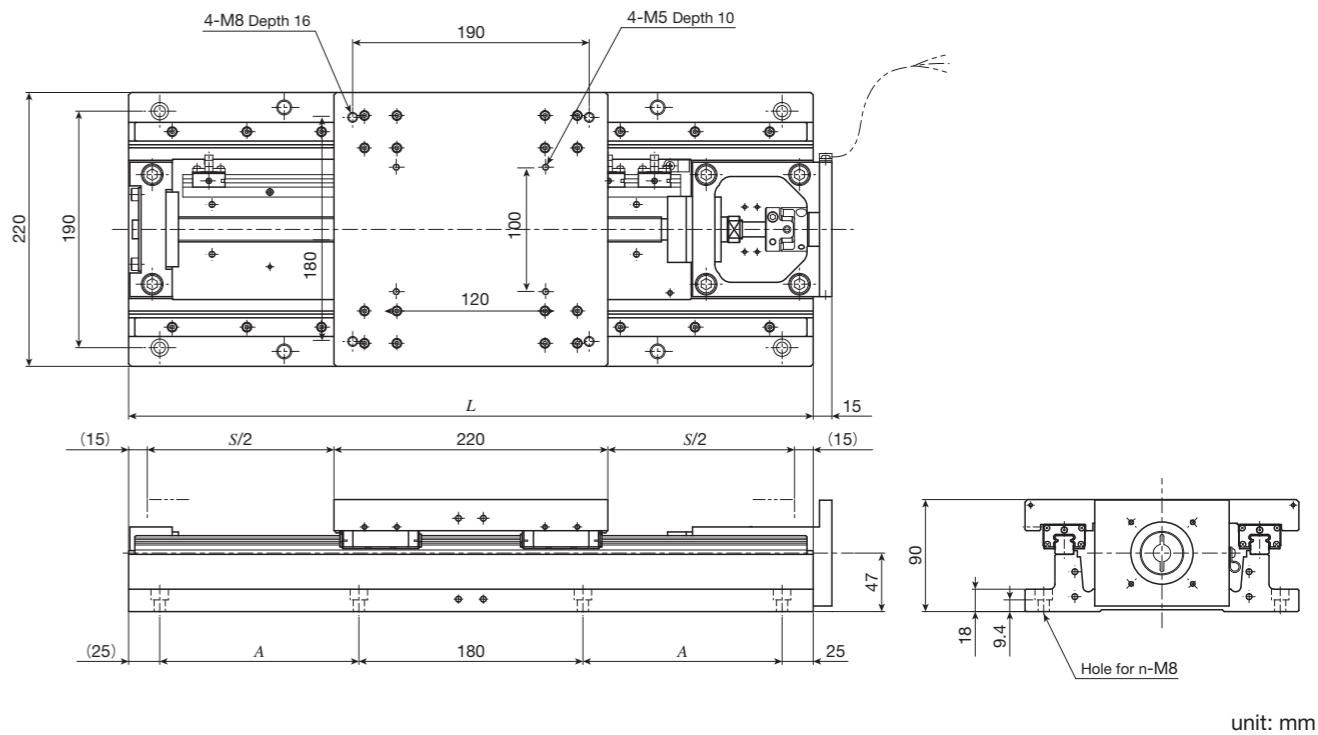
TSLH120M



Identification number	Stroke length <i>S</i>	Overall length <i>L</i>	Mounting holes of bed <i>A</i>	Mass (Ref.) kg
TSLH120M-100	100	275	75	10
TSLH120M-150	150	325	100	11
TSLH120M-200	200	375	125	12
TSLH120M-250	250	425	150	13
TSLH120M-300	300	475	175	14

Note (1) When selecting AT302 or AT308, 21mm is applied.

TSLH220M

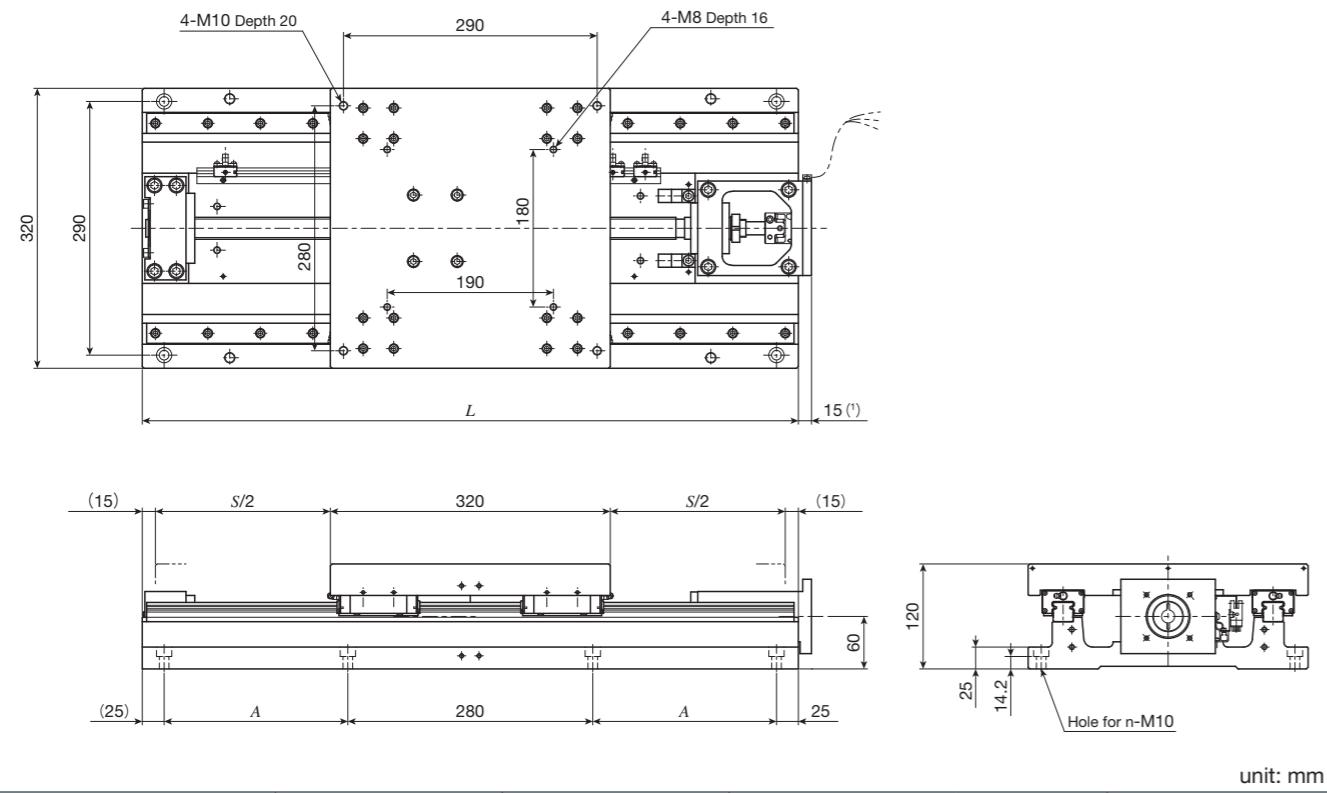


Identification number	Stroke length <i>S</i>	Overall length <i>L</i>	Mounting holes of bed <i>A</i> (the number of holes × pitch)	<i>n</i>	Mass (Ref.) kg
TSLH220M-150	150	400	85	8	32
TSLH220M-200	200	450	110	8	34
TSLH220M-250	250	500	135	8	36
TSLH220M-300	300	550	160	8	38
TSLH220M-400	400	650	210 (2×105)	12	42
(TSLH220M-500)	500	750	260 (2×130)	12	47
(TSLH220M-600)	600	850	310 (2×155)	12	51

Remark: If you are interested in a product of identification number shown in (), please contact IKO.

IKO Precision Positioning Table LH

TSLH320M

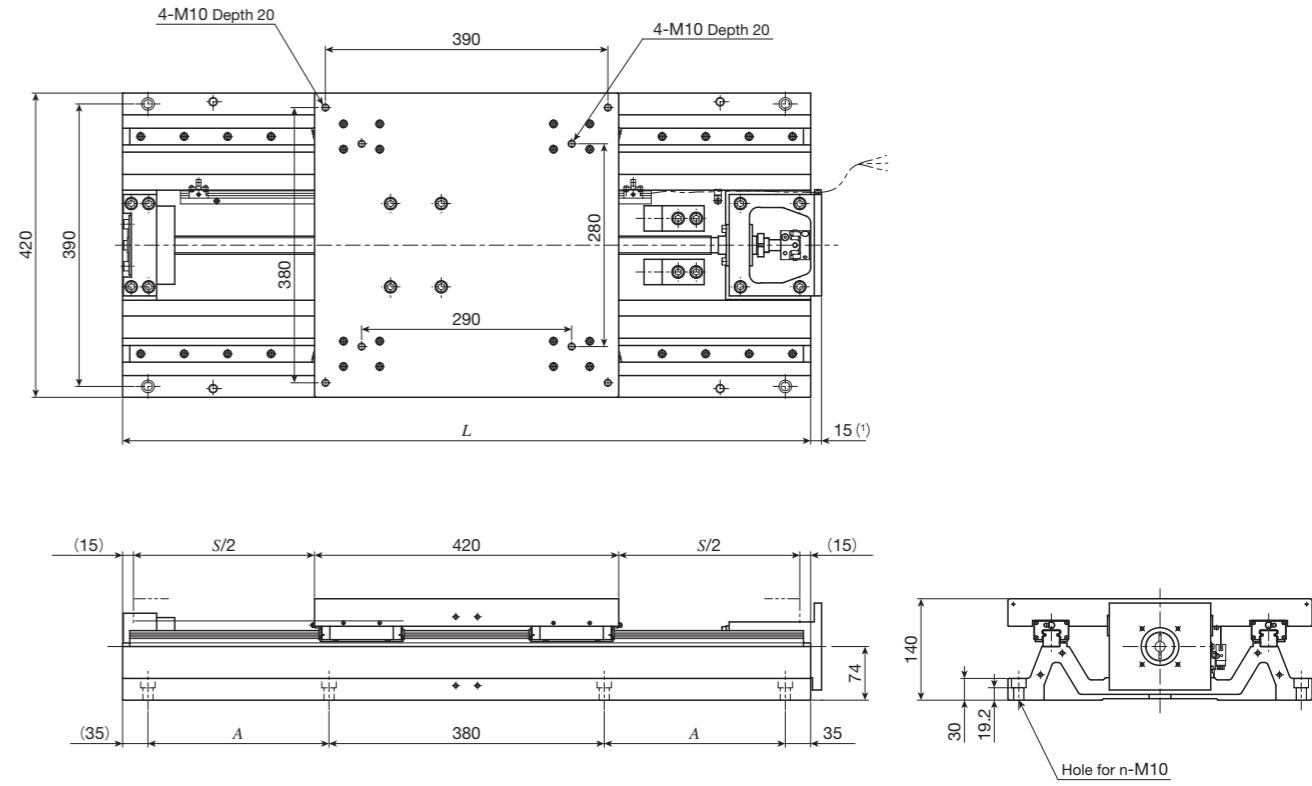


Identification number	Stroke length <i>S</i>	Overall length <i>L</i>	Mounting holes of bed <i>A</i> (the number of holes × pitch)	<i>n</i>	Mass (Ref.) kg
TSLH320M- 300	300	650	160	8	100
TSLH320M- 400	400	750	210	8	109
TSLH320M- 500	500	850	260	8	118
(TSLH320M- 600)	600	950	310	8	127
(TSLH320M- 800)	800	1 150	410 (2×205)	12	146
(TSLH320M-1000)	1 000	1 350	510 (2×255)	12	164

Note (*) When selecting AT305, 26mm is applied. When selecting AT313, 20mm is applied.

Remark: If you are interested in a product of identification number shown in (), please contact IKO.

TSLH420M



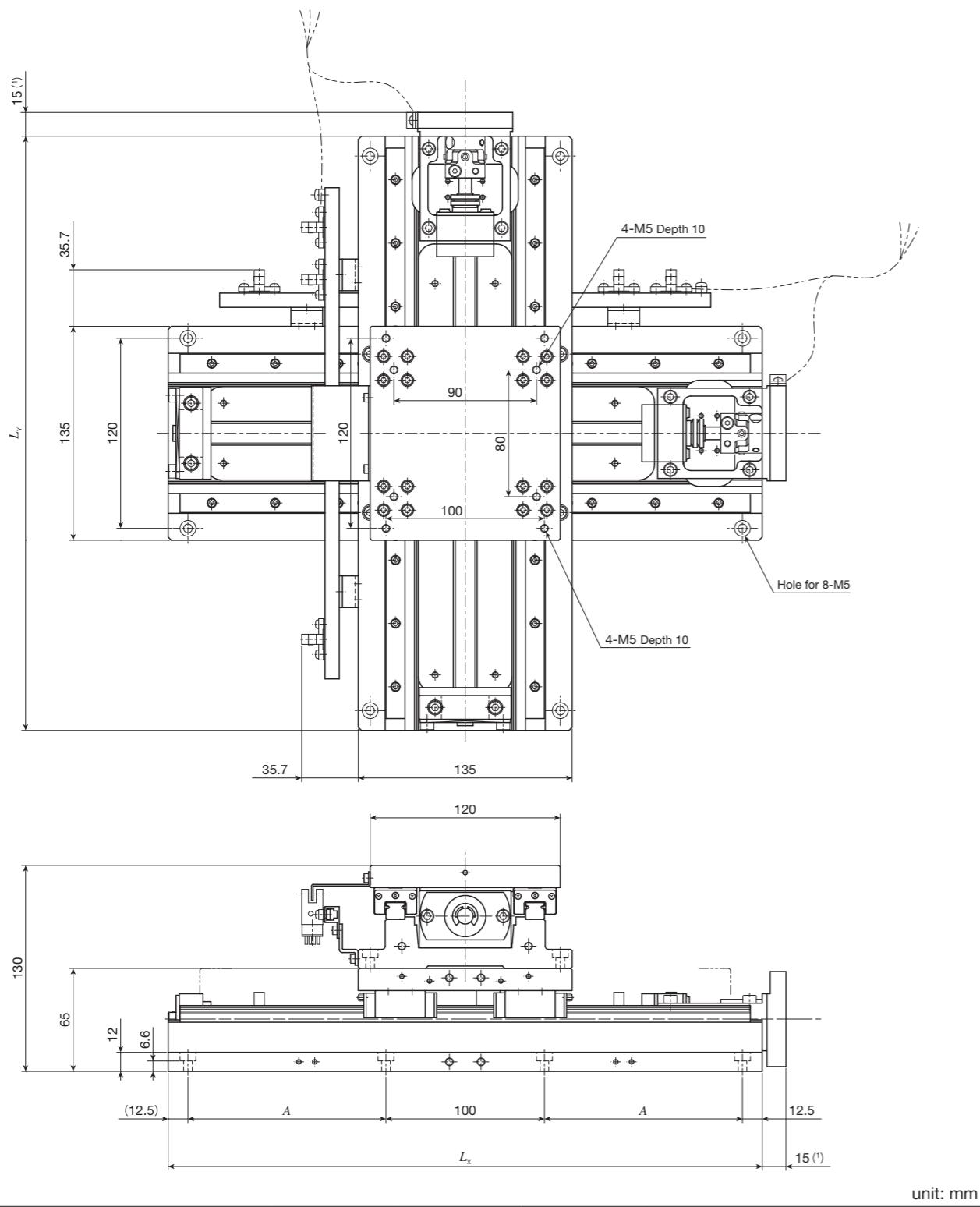
Identification number	Stroke length <i>S</i>	Overall length <i>L</i>	Mounting holes of bed <i>A</i> (the number of holes × pitch)	<i>n</i>	Mass (Ref.) kg
TSLH420M- 500	500	950	250	8	176
TSLH420M- 600	600	1 050	300	8	188
TSLH420M- 800	800	1 250	400 (2×200)	12	212
(TSLH420M-1000)	1 000	1 450	500 (2×250)	12	237

Note (*) They represent the dimensions of motor bracket only. When selecting AT306, 27mm is applied. When selecting AT314, 23mm is applied.

Remark: If you are interested in a product of identification number shown in (), please contact IKO.

IKO Precision Positioning Table LH

CTLH120M

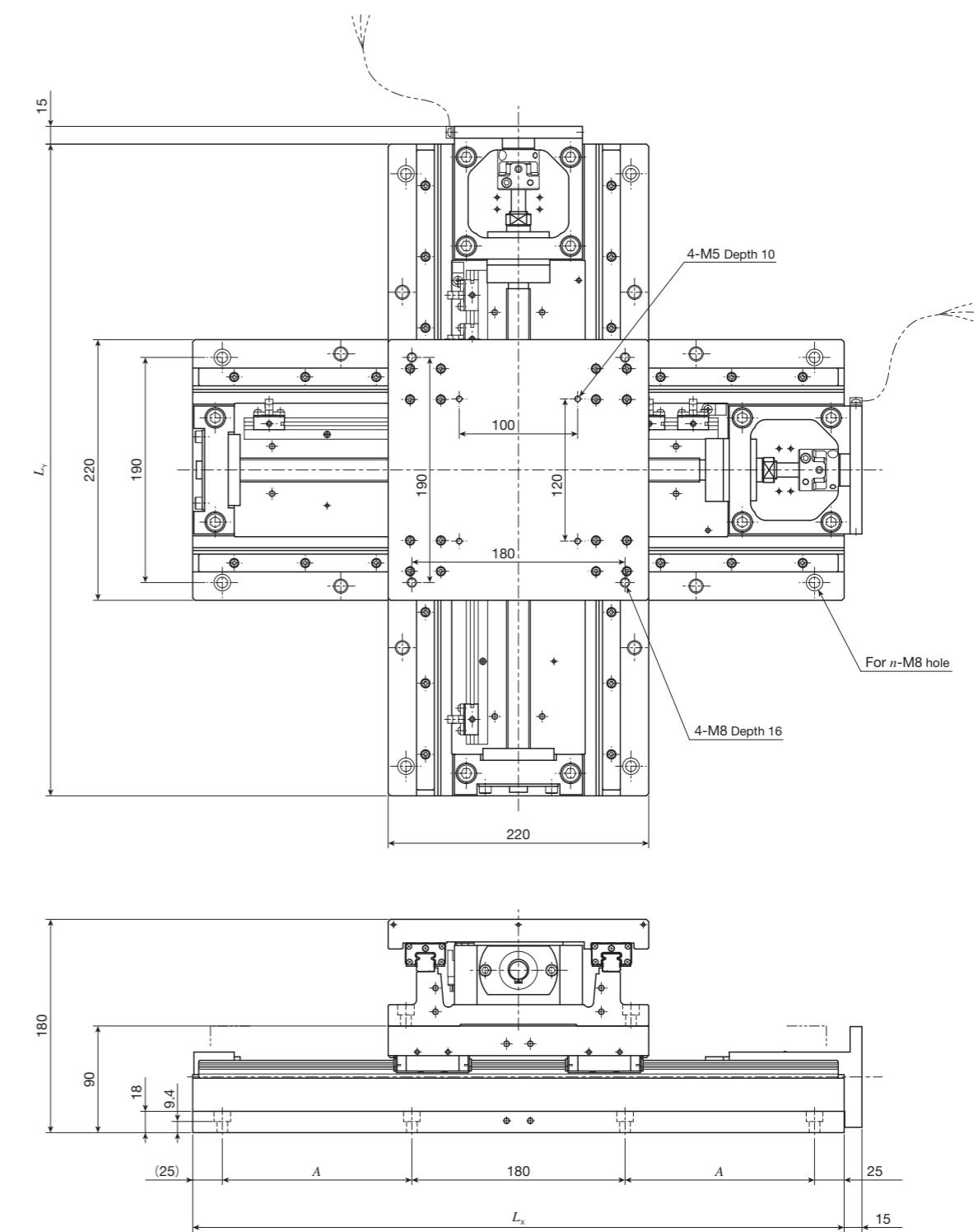


Identification number	Stroke length <i>S</i>		Overall length		Mounting holes of bed <i>A</i>	Mass (Ref.) kg
	X-axis	Y-axis	<i>L_x</i>	<i>L_y</i>		
CTLH120M-1010	100	100	275	275	75	20
CTLH120M-2010	200	100	375	275	125	22
CTLH120M-2020	200	200	375	375	125	24
CTLH120M-3020	300	200	475	375	175	26
CTLH120M-3030	300	300	475	475	175	28

Note (¹) When selecting AT302 or AT308, 21mm is applied.

Remark: As a combination of stroke length other than listed above and a table of different size is possible, please contact IKO.

CTLH220M

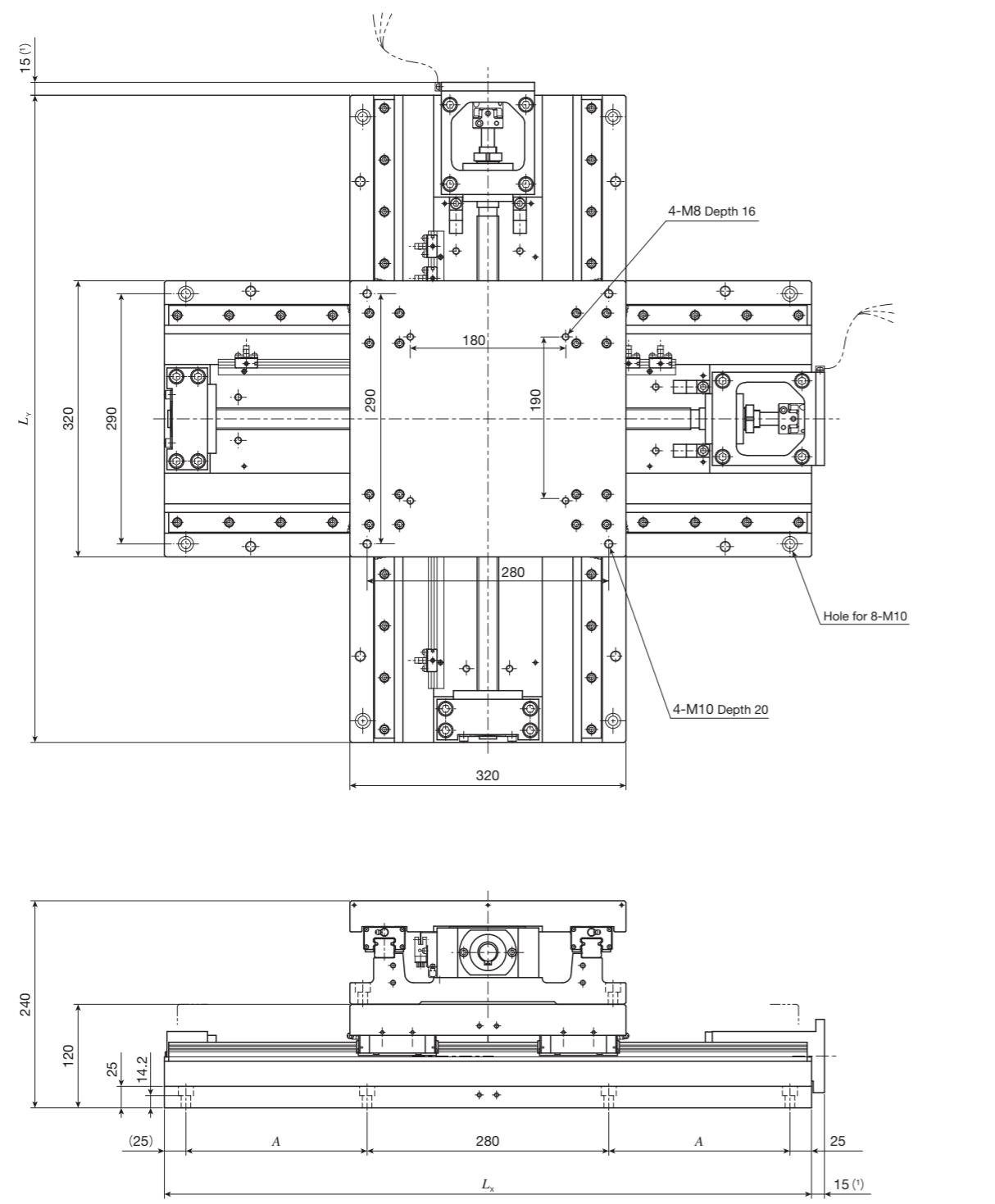


Identification number	Stroke length <i>S</i>		Overall length		Mounting holes of bed <i>A</i> (the number of holes × pitch) <i>n</i>	Mass (Ref.) kg
	X-axis	Y-axis	<i>L_x</i>	<i>L_y</i>		
CTLH220M-2020	200	200	450	450	110	67
CTLH220M-3020	300	200	550	450	160	71
CTLH220M-3030	300	300	550	550	160	76
CTLH220M-4030	400	300	650	550	210 (2×105)	80
CTLH220M-4040	400	400	650	650	210 (2×105)	84

Remark: As a combination of stroke length other than listed above and a table of different size is possible, please contact IKO.

IKO Precision Positioning Table LH

CTLH320M

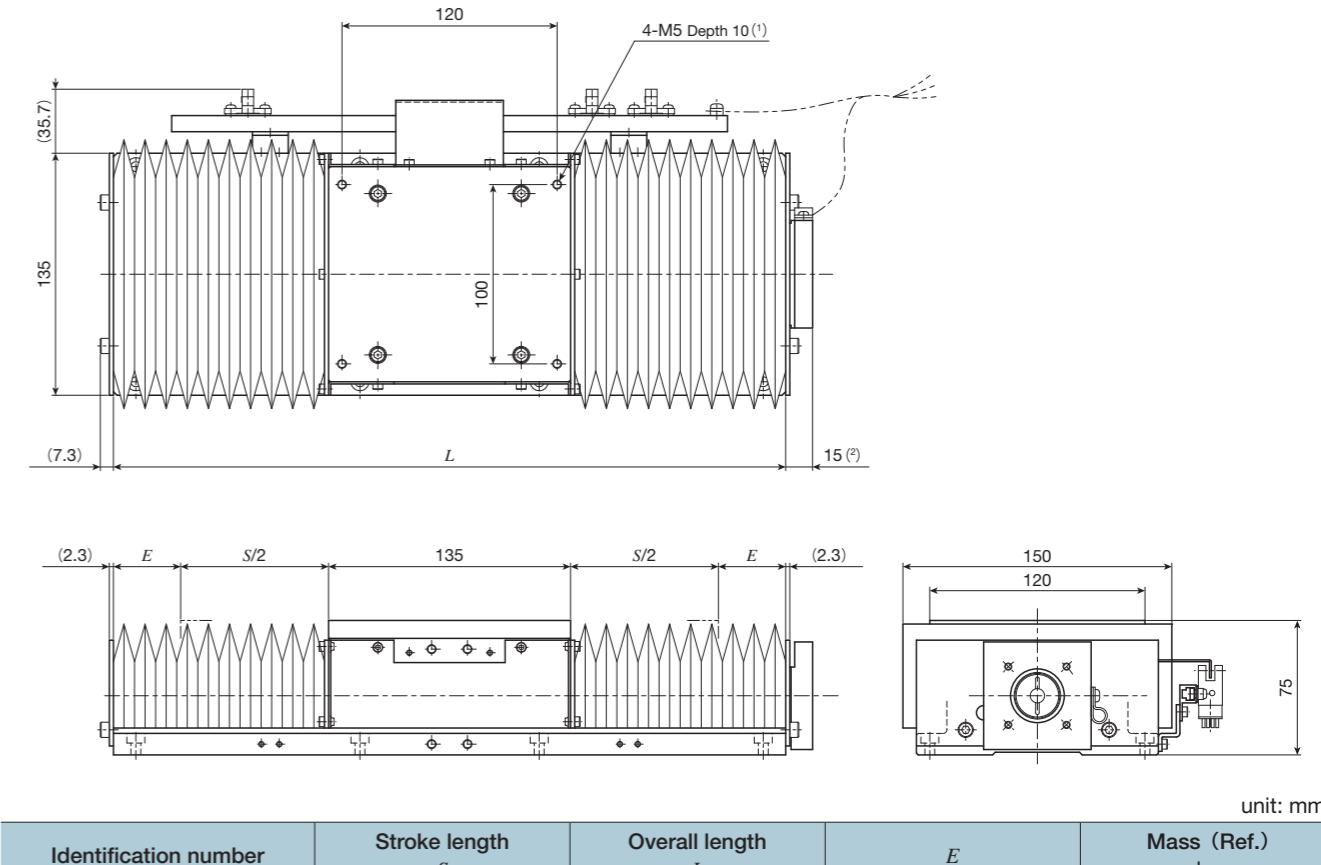


Identification number	Stroke length S		Overall length		Mounting holes of bed A	Mass (Ref.) kg
	X-axis	Y-axis	L_x	L_y		
CTLH320M-3030	300	300	650	650	160	199
CTLH320M-4030	400	300	750	650	210	209
CTLH320M-4040	400	400	750	750	210	218
CTLH320M-5040	500	400	850	750	260	227
CTLH320M-5050	500	500	850	850	260	236

Note (1) When selecting AT305, 26mm is applied. When selecting AT313, 20mm is applied.

Remark: As a combination of stroke length other than listed above and a table of different size is possible, please consult IKO.

TSLH120M…/J Table with bellows



Identification number	Stroke length S	Overall length L	E	Mass (Ref.) kg
TSLH120M-100/J	85	275	27.5	13
TSLH120M-150/J	125	325	32.5	14
TSLH120M-200/J	165	375	37.5	15
TSLH120M-250/J	205	425	42.5	16
TSLH120M-300/J	240	475	50.0	17

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

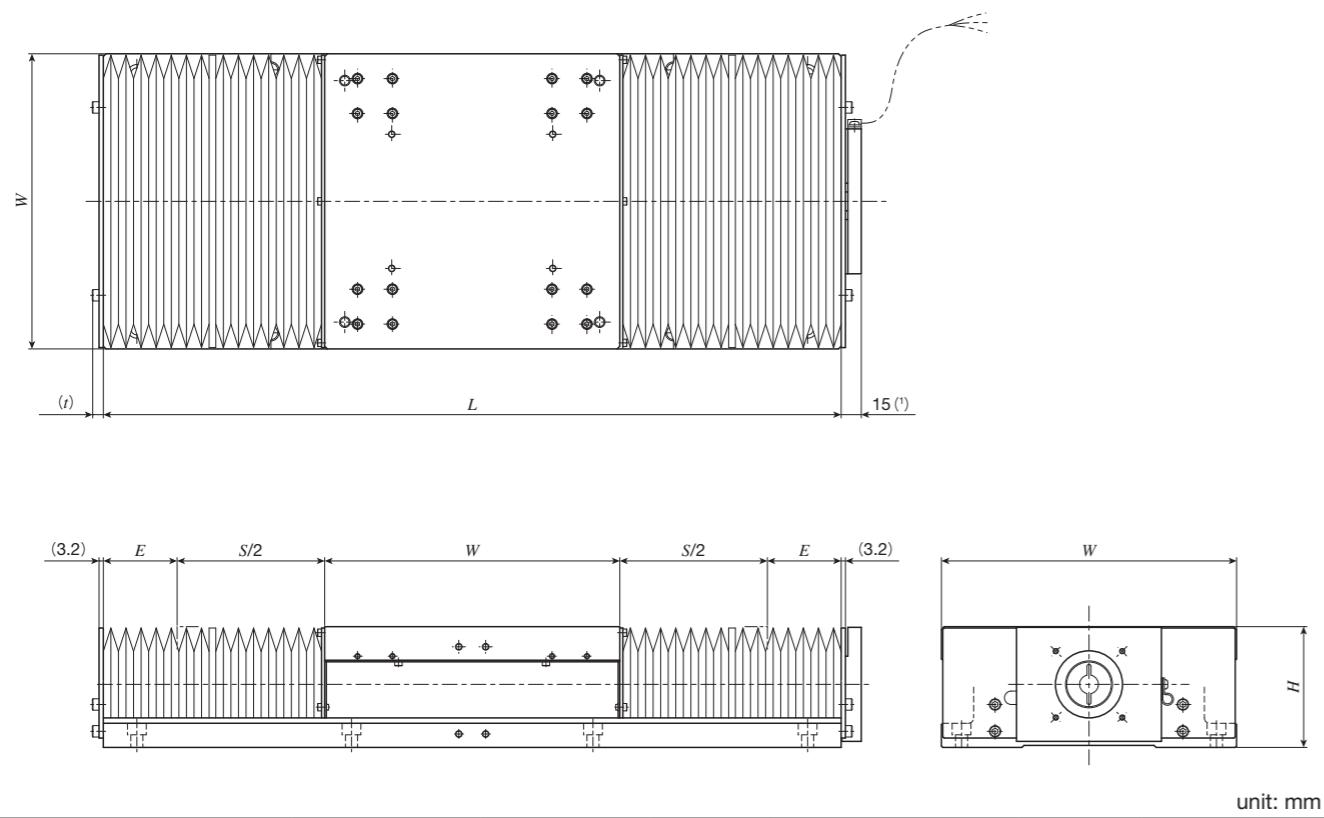
(2) When selecting AT302 or AT308, 21mm is applied.

Remarks 1. For the usage in vertical axis, the dimension of the bellows is different, so please contact IKO.

2. For bed mounting dimensions, see the dimension table for TSLH120M.

IKO Precision Positioning Table LH

TSLH220M···/J, TSLH320M···/J, TSLH420M···/J Table with bellows



Identification number	Stroke length <i>S</i>	Overall length <i>L</i>	<i>W</i>	<i>H</i>	<i>E</i>	<i>t</i>	Mass (Ref.) kg
TSLH220M- 150/J	110	400	220	90	35	8.2	33
TSLH220M- 200/J	150	450			40		36
TSLH220M- 250/J	180	500			50		38
TSLH220M- 300/J	220	550			55		40
TSLH220M- 400/J	300	650			65		44
(TSLH220M- 500/J)	370	750			80		49
(TSLH220M- 600/J)	440	850			95		53
TSLH320M- 300/J	230	650	320	120	50	9.2	104
TSLH320M- 400/J	310	750			60		113
TSLH320M- 500/J	400	850			65		129
(TSLH320M- 600/J)	480	950			75		131
(TSLH320M- 800/J)	640	1 150			95		151
(TSLH320M-1000/J)	800	1 350			115		169
TSLH420M- 500/J	410	950	420	140	60	10.5	183
TSLH420M- 600/J	500	1 050			65		195
TSLH420M- 800/J	660	1 250			85		219
(TSLH420M-1000/J)	830	1 450			100		244

Note (1) When selecting AT305, 26mm is applied. When selecting AT306, 27mm is applied.

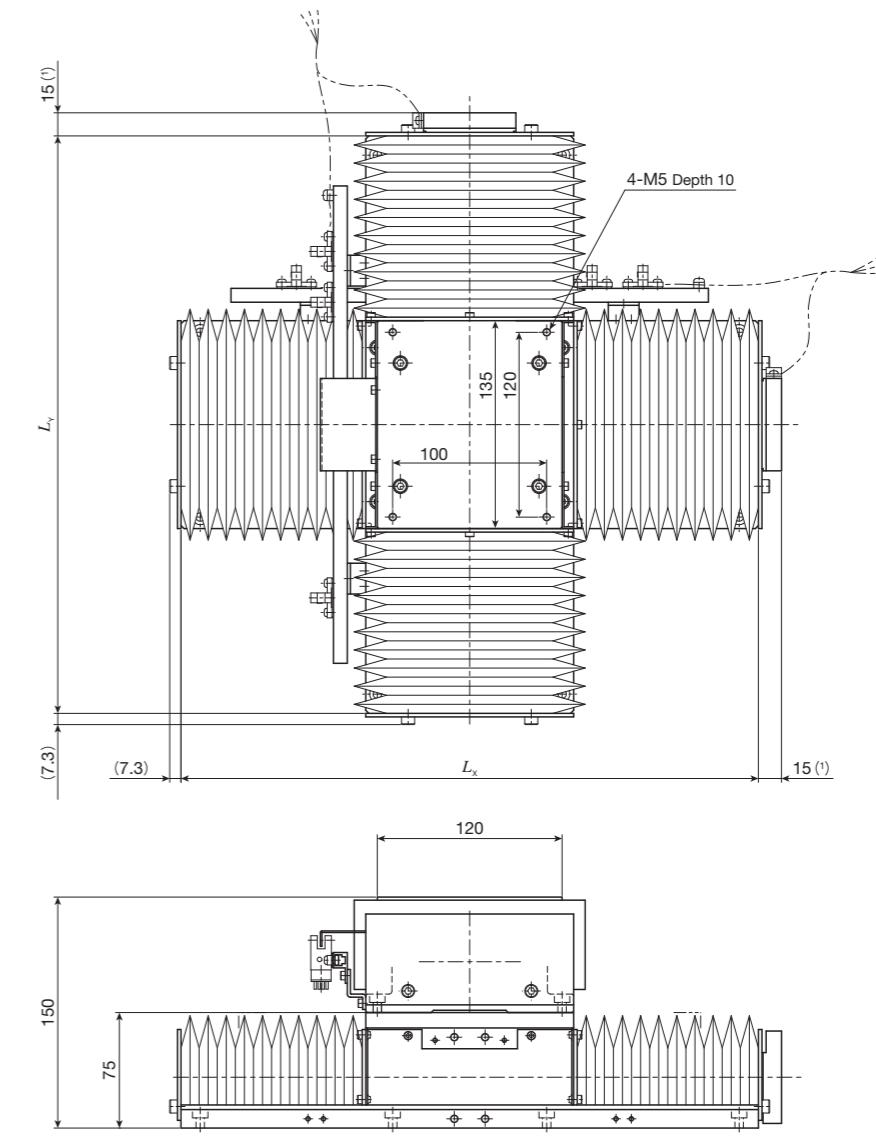
When selecting AT313, 20mm is applied. When selecting AT314, 23mm is applied.

Remarks 1. For the usage in vertical axis, the dimension of the bellows is different, so please contact IKO.

2. If you are interested in a product of identification number shown in (), please contact IKO.

3. For mounting dimensions, see the dimension tables for TSLH220M, TSLH320M, and TSLH420M.

CTLH120M···/J Table with bellows



Identification number	Stroke length <i>S</i> X-axis	Stroke length <i>S</i> Y-axis	Overall length of bed <i>L_x</i>	Overall length of bed <i>L_y</i>	Mass (Ref.) kg
CTLH120M-1010/J	85	85	275	275	25
CTLH120M-2010/J	165	85	375	275	27
CTLH120M-2020/J	165	165	375	375	29
CTLH120M-3020/J	240	165	475	375	31
CTLH120M-3030/J	240	240	475	475	33

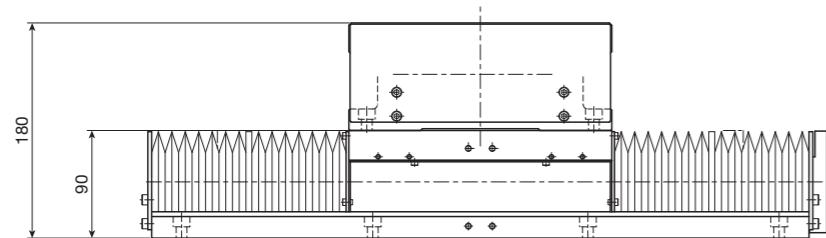
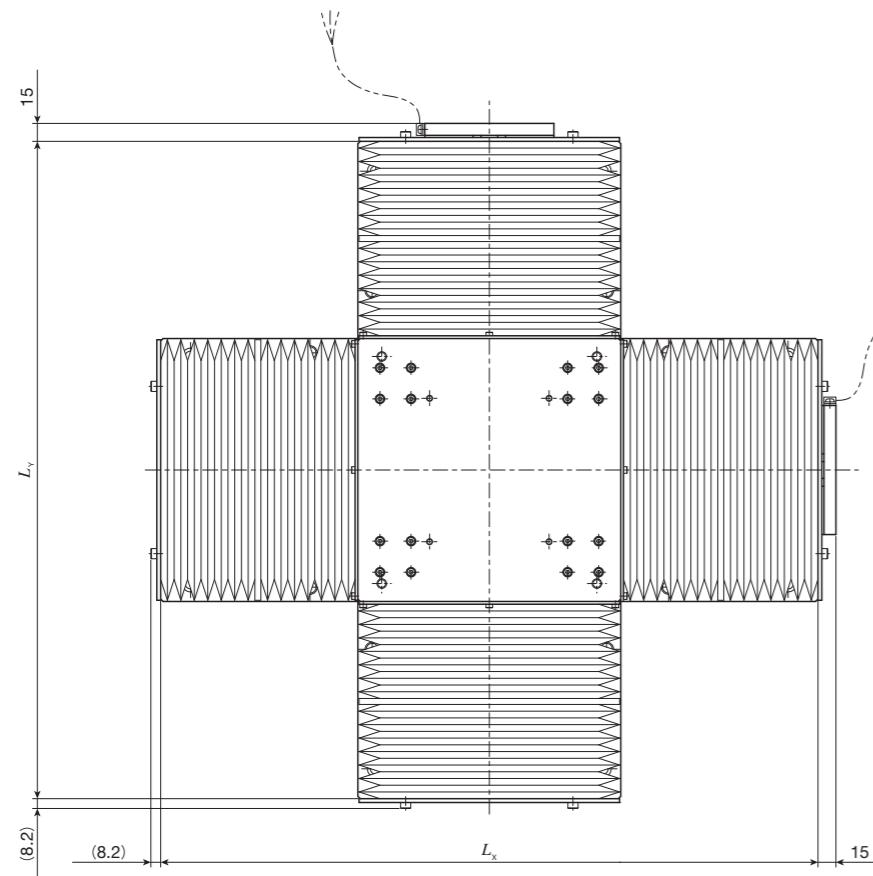
Note (1) When selecting AT302 or AT308, 21mm is applied.

Remarks 1. For the usage in vertical axis, the dimension of the bellows is different, so please contact IKO.

2. For mounting dimensions, see the dimension table for TSLH120M.

IKO Precision Positioning Table LH

CTLH220M…/J Table with bellows

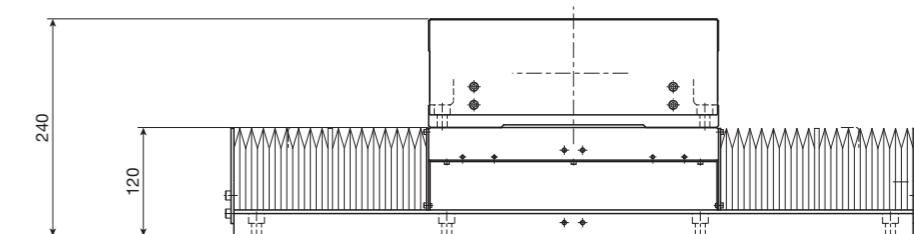
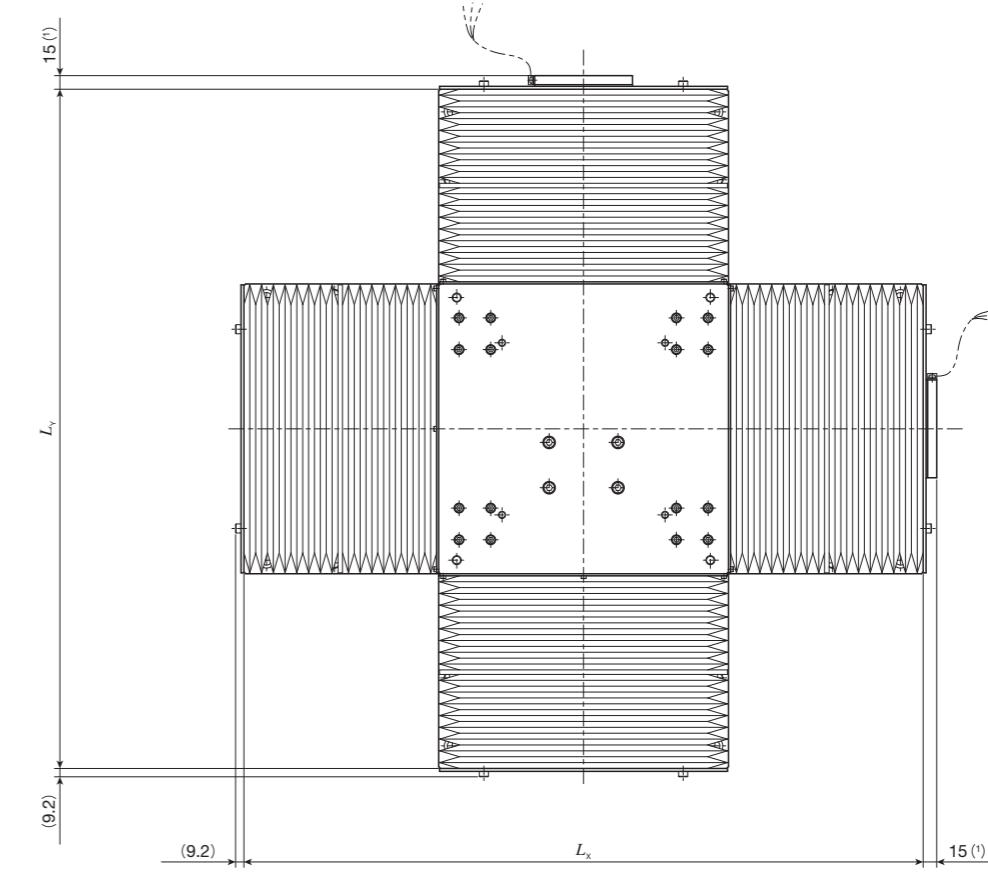


Identification number	Stroke length <i>S</i>		Overall length of bed		Mass (Ref.) kg
	X-axis	Y-axis	<i>L</i> _x	<i>L</i> _y	
CTLH220M-2020/J	150	150	450	450	71
CTLH220M-3020/J	220	150	550	450	75
CTLH220M-3030/J	220	220	550	550	80
CTLH220M-4030/J	300	220	650	550	84
CTLH220M-4040/J	300	300	650	650	88

Remarks 1. For the usage in vertical axis, the dimension of the bellows is different, so please contact IKO.

2. For mounting dimensions, see the dimension table for TSLH220M.

CTLH320M…/J Table with bellows



Identification number	Stroke length <i>S</i>		Overall length of bed		Mass (Ref.) kg
	X-axis	Y-axis	<i>L</i> _x	<i>L</i> _y	
CTLH320M-3030/J	230	230	650	650	207
CTLH320M-4030/J	310	230	750	650	216
CTLH320M-4040/J	310	310	750	750	226
CTLH320M-5040/J	400	310	850	750	235
CTLH320M-5050/J	400	400	850	850	244

Note (*) When selecting AT305, 26mm is applied. When selecting AT313, 20mm is applied.

Remarks 1. For the usage in vertical axis, the dimension of the bellows is different, so please contact IKO.

2. For mounting dimensions, see the dimension table for TSLH320M.