LT
(LT…CE, LT…LD, LT…H)

LT

Linear motor

Linear

Major product specifications

Driving method	Linear motor
Linear motion rolling guide	Linear Way（ball type）
Built-in lubrication part	Lubrication part "C-Lube" is built-in
Material of table and bed	High-strength aluminum alloy
Sensor	Select by identification number

Accuracy

unit: mm

Positioning repeatability	±0.0005～0.0010
Positioning accuracy	–
Lost motion	–
Parallelism in table motion A	–
Parallelism in table motion B	–
Attitude accuracy	–
Straightness	–
Backlash	–

Compact, high thrust, and long stroke LT series!

Linear Motor Table LT is a compact and high-precision positioning table with an optical linear encoder built in and with AC linear servomotor incorporated between moving table and bed. Lightweight moving table and large thrust force enables the operation of high acceleration / deceleration and high response. And, the advanced servo technology achieves high static stability and speed stability.

Three types, consisting of Compact type LT···CE, Long stroke type LT···LD, and High thrust type LT···H, are listed on lineup, which allows customers to select the most suitable model depending on the usage.

Linear Motor Table LT specification list

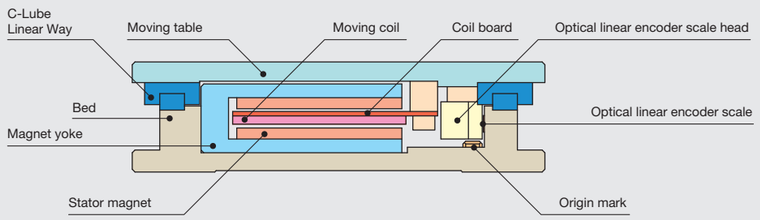
Model and size		Compact type LT···CE						Long stroke type LT···LD								
		LT100CEG			LT150CEG			LT130LDG			LT170LDG			LT170LDV		
Sectional shape		100, 30			150, 40			130, 50			170, 55					
Maximum thrust	N	150			450			150			450			190		
Rated thrust	N	15			60			15			60			25		
Maximum load mass	kg	15			45			15			45			28		
Effective stroke length	mm	1000			1200			2760			2720			2720		
Resolution	μm	0.1	0.5	1.0	0.1	0.5	1.0	0.1	0.5	1.0	0.1	0.5	1.0	0.1	0.5	1.0
Maximum speed	mm/s	700	2000	2000	700	2000	2000	700	2000	3000	700	2000	2000	700	2000	3000
Positioning repeatability	μm	±0.5	±0.5	±1.0	±0.5	±0.5	±1.0	±0.5	±0.5	±1.0	±0.5	±0.5	±1.0	±0.5	±0.5	±1.0

Model and size		High thrust type LT···H					
		LT130H			LT170H		
Sectional shape		130, 55			170, 63		
Maximum thrust	N	300			900		
Rated thrust	N	Natural air cooling: 60 Air cooling : 75			Natural air cooling: 120 Air cooling : 150		
Maximum load mass	kg	30			90		
Effective stroke length	mm	2710			2670		
Resolution	μm	0.1	0.5	1.0	0.1	0.5	1.0
Maximum speed	mm/s	700	1500 (2000)	1500 (2000)	700	1500 (2000)	1500 (2000)
Positioning repeatability	μm	±0.5	±0.5	±1.0	±0.5	±0.5	±1.0

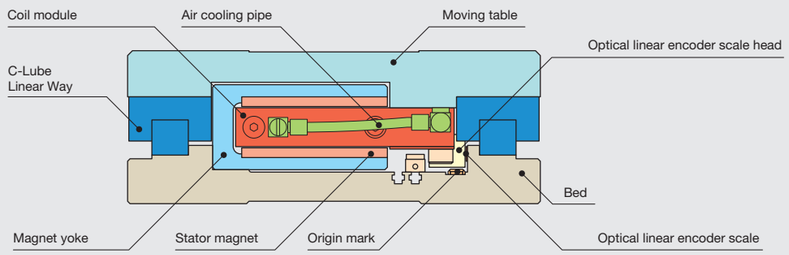
1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

Sectional Structure of Linear Motor Table LT

Structures of LT···CE and LT···LD



Structure of LT···H

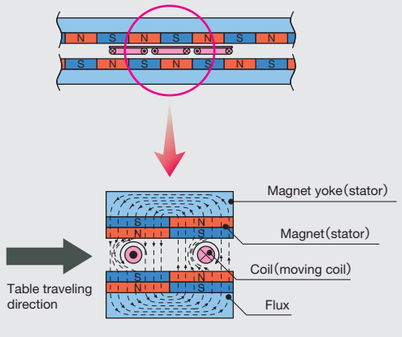


Operating principle of Linear Motor Table LT

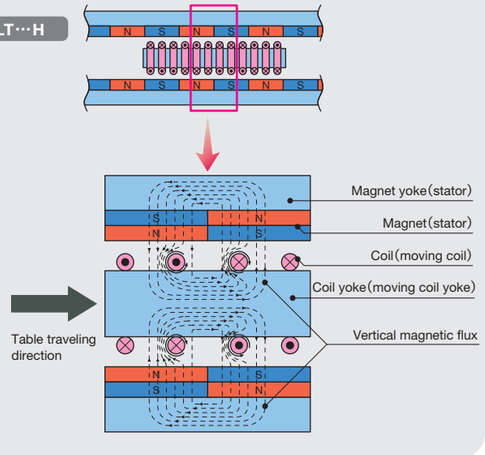
Linear Motor Table LT consists of moving field coil and stator having a magnet arranged facing the inside of C-type yoke. Magnetic flux vertically exerted by magnet and rotational flux generated around the coil by electric current causes the coil to be forced horizontally. (Fleming's left-hand rule)

By switching the coil current to certain direction corresponding to the flux direction, continuous thrust force in a certain direction can be obtained and linear motions of the rotator is maintained. In the High Thrust Series, as the coils are densely arranged in vertical magnetic flux generated by a pair of coil yokes arranged one above the other, it can produce extremely high thrust force although it is small.

LT···CE and LT···LD

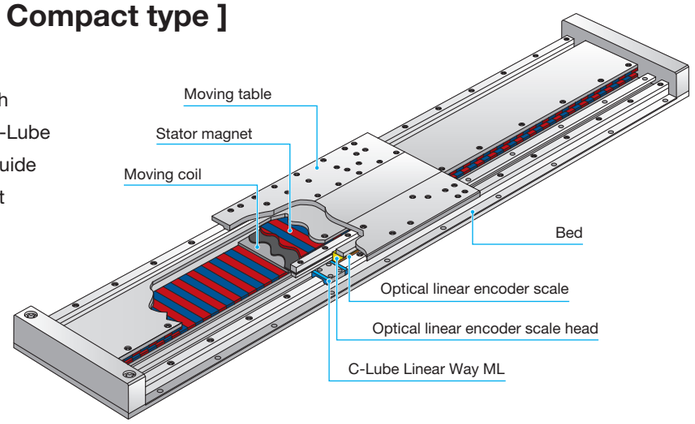


LT···H



LT···CE [Compact type]

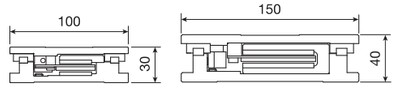
LT···CE is a compact linear motor table with high thrust force generating capability, which uses C-Lube Linear Way ML, miniature linear motion rolling guide in the table guiding parts and adopts lightweight aluminum alloy in the moving table.



Points

1 ● Compact

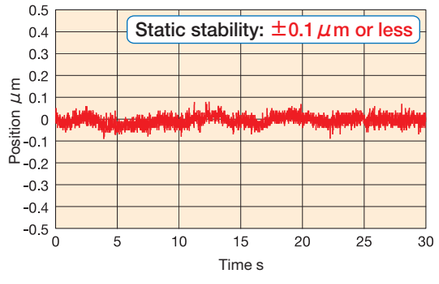
Low profile design with downsizing thoroughly pursued by adopting C-Lube Linear Way ML and small optical linear encoder. Minimum sectional height of 30mm (LT100CE) is achieved.



LT100CE **LT150CE**

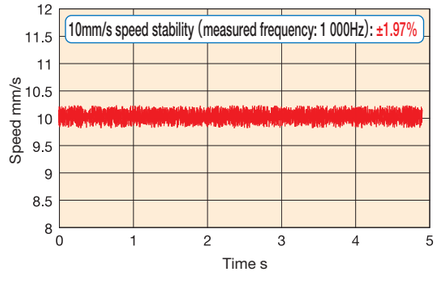
2 ● Static stability

Advanced servo technology has achieved high static stability.



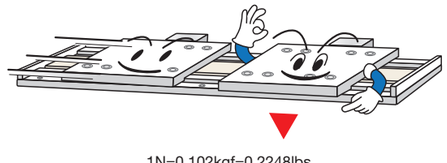
3 ● High speed stability

Direct drive and advanced servo technology has achieved high speed stability.



4 ● High acceleration / deceleration and high response

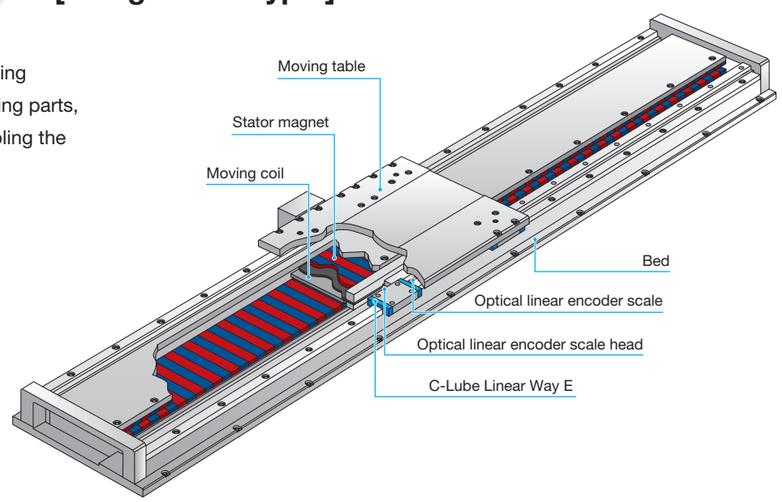
This unit is small but can produce a great thrust force. Aluminum alloy-made and lightweight moving table has achieved the positioning by high acceleration / deceleration and high response. It contributes to shortening of tact time.



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

LT···LD [Long stroke type]

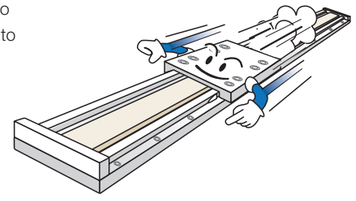
Using C-Lube Linear Way E of the jointing specification track rail in the table guiding parts, the LT···LD is a linear motor table enabling the long stroke and high-speed operation.

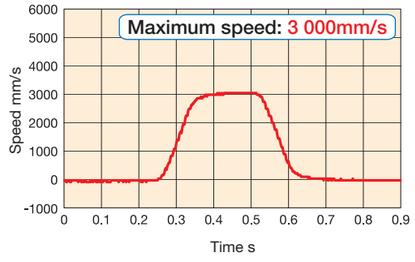


Points

1 ● High speed

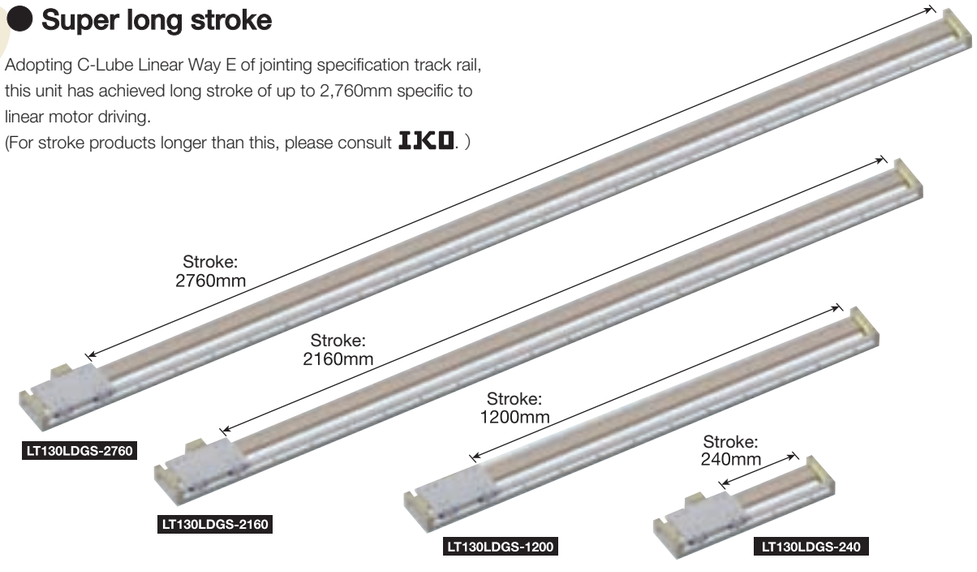
Direct drive enables both high-precision positioning and high speed. Supports high speed operation required for long stroke motion. It is possible to perform high-speed motion of up to 3,000mm/s.





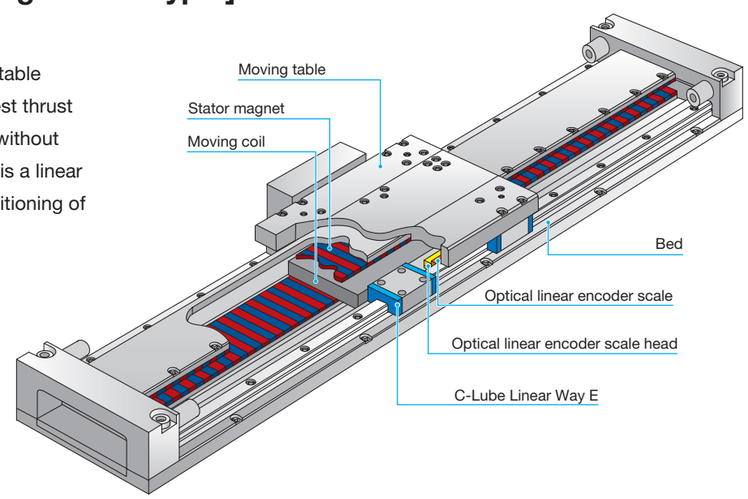
2 ● Super long stroke

Adopting C-Lube Linear Way E of jointing specification track rail, this unit has achieved long stroke of up to 2,760mm specific to linear motor driving.
(For stroke products longer than this, please consult IKO.)



LT···H [High thrust type]

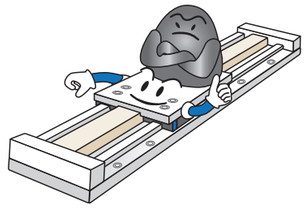
LT···H uses C-Lube Linear Way E in the table guiding parts and can produce the biggest thrust force among linear motor table LT units without impairing the compact feature, so that it is a linear motor table best suited for precision positioning of a heavy load.

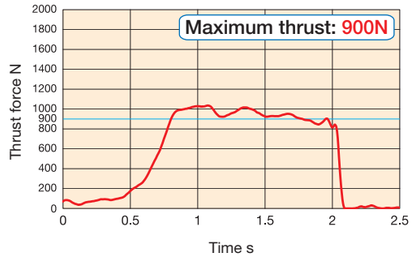


Points

1 ● High thrust

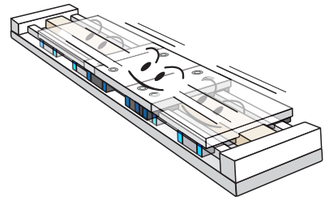
Although this table is compact in shape, it can produce maximum thrust force of 900N. This unit is best suited to the precision positioning of heavy load.

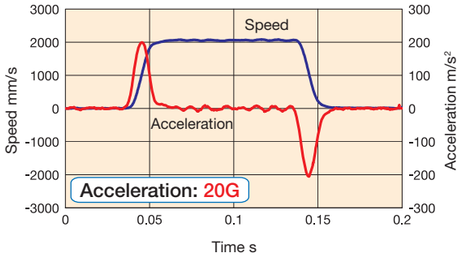




2 ● High acceleration / deceleration

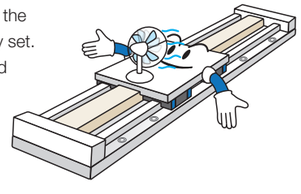
Lightweight table and high thrust have achieved high acceleration / deceleration and high response.

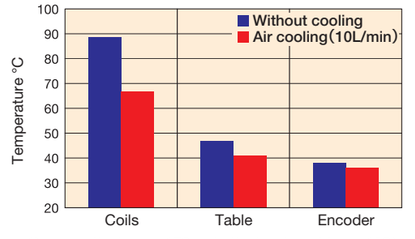




3 ● Air cooling

Cooling mechanism for suppressing the heating of motor section is optionally set. It enables shortening of tact time and contributes to improving the production efficiency.





Cooling effect by LT170H at effective thrust force 120N

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

Identification Number

Example of an Identification Number

1	2	3	4	5	6	7	8	9	10	11
LT	100	CE	G	F	- 430	/ 5		D	SC	T2	1

1 Model — Page Ⅱ-289
2 Size — Page Ⅱ-289
3 Specification of thrust and speed — Page Ⅱ-289
4 Shape of moving table — Page Ⅱ-290
5 Stroke length — Page Ⅱ-290
6 Resolution — Page Ⅱ-290
7 Cooling type — Page Ⅱ-290
8 Designation of cover — Page Ⅱ-290
9 Designation of sensor — Page Ⅱ-290
10 Specification of moving table — Page Ⅱ-290
11 Specification number — Page Ⅱ-290

Identification Number and Specification

1 Model

LT···CE: Linear Motor Table LT compact series
LT···LD: Linear Motor Table LT long stroke series
LT···H : Linear Motor Table LT high thrust series

2 Size

100: Width 100mm (applicable to LT···CE)
150: Width 150mm (applicable to LT···CE)

130: Width 130mm (applicable to LT···LD and LT···H)
170: Width 170mm (applicable to LT···LD and LT···H)

3 Specification of thrust and speed

G : High thrust (high speed) specification
V : High speed specification
No symbol

For application of respective specifications, please see Table 1.

Table 1 Application of thrust force and speed symbols

Model	Size	Thrust / speed specification		
		G	V	No symbol
LT···CE	100	○	–	–
	150	○	–	–
LT···LD	130	○	–	–
	170	○	○	–
LT···H	130	–	–	○
	170	–	–	○

4 Shape of moving table

S: Standard
F: With flange

When selecting S, set "No symbol" in the entry of section 8 "Designation of cover".
When selecting F, select D in the entry of section 8 "Designation of cover".

5 Stroke length

Select a stroke length from the list of Table 2.

Table 2 Stroke length

Model and size	Stroke length mm
LT100CEG (S, F)	200, 400, 600, 800, 1 000
LT100CEG (S, F)···/T2	230, 430, 630, 830
LT150CEG (S, F)	400, 600, 800, 1 000, 1 200
LT150CEG (S, F)···/T2	350, 550, 750, 950
LT130LDGS	240, 720, 1 200, 1 680, 2 160, 2 640, 2 760
LT130LDGS···/T2	500, 980, 1 460, 1 940, 2 420, 2 540
LT130LDGF	240, 720, 1 200, 1 680
LT130LDGF···/T2	500, 980, 1 460
LT170LD (G, V)S	680, 1 160, 1 640, 2 120, 2 600, 2 720
LT170LD (G, V)S···/T2	420, 900, 1 380, 1 860, 2 340, 2 460
LT170LD (G, V)F	680, 1 160, 1 640
LT170LD (G, V)F···/T2	420, 900, 1 380
LT130HS	680, 1 160, 1 640, 2 120, 2 600, 2 710
LT130HS···T2	460, 940, 1 420, 1 900, 2 380, 2 490
LT130HF	680, 1 160, 1 640
LT130HF···T2	460, 940, 1 420
LT170HS	650, 1 130, 1 610, 2 090, 2 570, 2 670
LT170HS···T2	410, 890, 1 370, 1 850, 2 330, 2 430
LT170HF	650, 1 130, 1 610
LT170HF···T2	410, 890, 1 370

6 Resolution

1: 0.1 μm
5: 0.5 μm
10: 1.0 μm

7 Cooling type

No symbol: Natural air cooling
CA : Air cooling (applicable to LT···H)

8 Designation of cover

No symbol: Without cover (applicable to standard moving table)
D : With cover (applicable to moving table with flange)

9 Designation of sensor

No symbol: Without sensor
SC : Sensor (limit and pre-origin), with sensor rail (applicable to LT···CE)

LT···LD and LT···H have a sensor built-in. For the entry of section 9, set "No symbol".

10 Specification of moving table

No symbol: Single table
T2 : Twin table

11 Specification number

1 : Specification number 1

The specification number is limited to 1.

LT

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

Specifications

Table 3 LT···CE performance

Item	Model and size	LT100CEG			LT150CEG		
Maximum thrust(1)	N	150			450		
Rated thrust	N	15			60		
Maximum load mass	kg	15			45		
Resolution	μm	0.1	0.5	1.0	0.1	0.5	1.0
Maximum speed(2)	mm/s	700	2 000	2 000	700	2 000	2 000
Positioning repeatability(3)	μm	±0.5	±0.5	±1.0	±0.5	±0.5	±1.0

Notes (1) The duration of maximum thrust is up to 1 second.
(2) This speed may not be reached depending on the max. output frequency of the controller used.
(3) When the temperature of the product is constant.

Table 4 LT···LD performance

Item	Model and size	LT130LDG			LT170LDG			LT170LDV		
Maximum thrust(1)	N	150			450			190		
Rated thrust	N	15			60			25		
Maximum load mass	kg	15			45			28		
Resolution	μm	0.1	0.5	1.0	0.1	0.5	1.0	0.1	0.5	1.0
Maximum speed(2)	mm/s	700	2 000	3 000	700	2 000	2 000	700	2 000	3 000
Positioning repeatability(3)	μm	±0.5	±0.5	±1.0	±0.5	±0.5	±1.0	±0.5	±0.5	±1.0

Notes (1) The duration of maximum thrust is up to 1 second.
(2) This speed may not be reached depending on the max. output frequency of the controller used.
(3) When the temperature of the product is constant.

Table 5 LT···H performance

Item		Model and size	LT130H			LT170H		
Maximum thrust(1)		N	300			900		
Rated thrust(2)	Natural air cooling	N	60			120		
	Air cooling (3)	N	75			150		
Maximum load mass		kg	30			90		
Resolution		μm	0.1	0.5	1.0	0.1	0.5	1.0
Maximum speed (4) (5)		mm/s	700	1 500(2 000)	1 500(2 000)	700	1 500(2 000)	1 500(2 000)
Positioning repeatability(6)		μm	±0.5	±0.5	±1.0	±0.5	±0.5	±1.0

Notes (1) The duration of maximum thrust is up to 1 second.
(2) In the case where the unit is fixed on a steel-made cradle under ambient temperature of 0 to 25℃. For more information, please see Fig. 11 on page Ⅱ-294.
(3) This is under air flow rate of 30NL/min.
(4) For the speed exceeding 1,500mm/s, please contact IKO.
(5) This speed may not be reached depending on the max. output frequency of the controller used.
(6) When the temperature of the product is constant.

■ Thrust characteristics of LT···CE

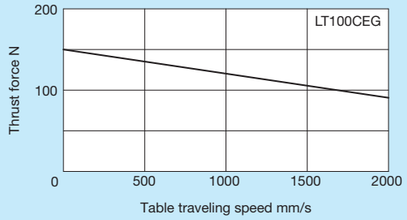


Fig. 1 Thrust characteristics of LT100CEG

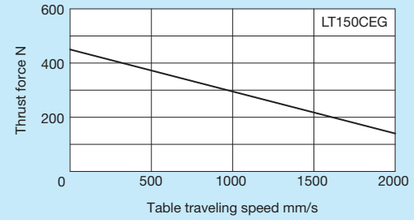


Fig. 2 Thrust characteristics of LT150CEG

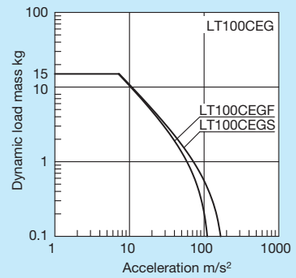


Fig. 3 Dynamic load mass of LT100CEG

Remark: These are values calculated based on the thrust force with table moving speed set to 1,000mm/s.

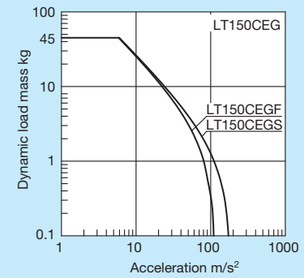


Fig. 4 Dynamic load mass of LT150CEG

Remark: These are values calculated based on the thrust force with table moving speed set to 1,000mm/s.

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

■ Thrust characteristics of LT···LD

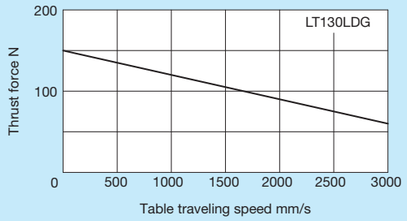


Fig. 5 Thrust characteristics of LT130LDG

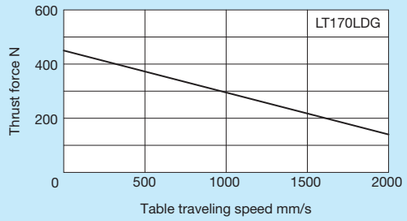


Fig. 6 Thrust characteristics of LT170LDG

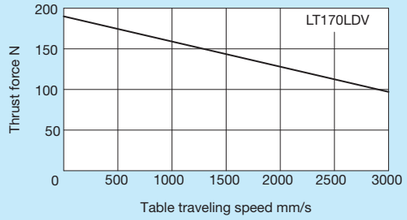


Fig. 7 Thrust characteristics of LT170LDV

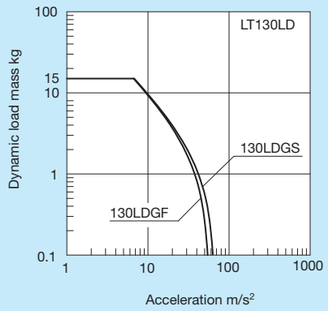


Fig. 8 Dynamic load mass of LT130LD

Remark: These are values calculated based on the thrust force with table moving speed set to 1,000mm/s.

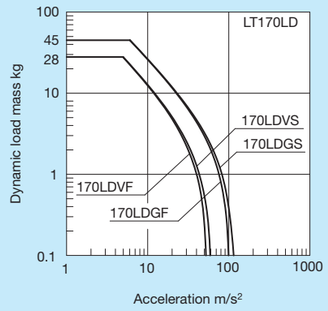


Fig. 9 Dynamic load mass of LT170LD

Remark: These are values calculated based on the thrust force with table moving speed set to 1,000mm/s.

■ Thrust characteristics of LT···H

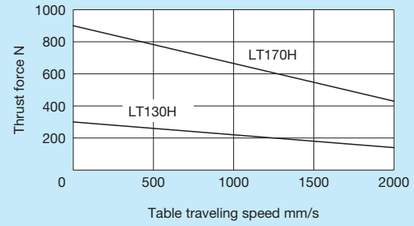


Fig. 10 Trust characteristics of LT···H

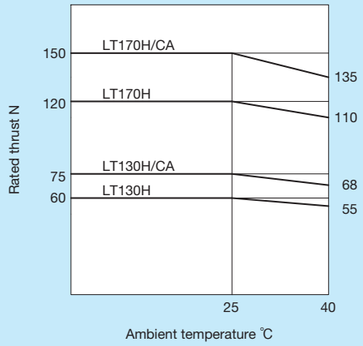


Fig. 11 Rated thrust characteristics of LT···H

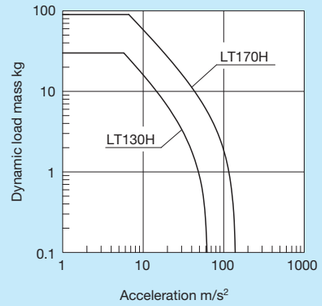


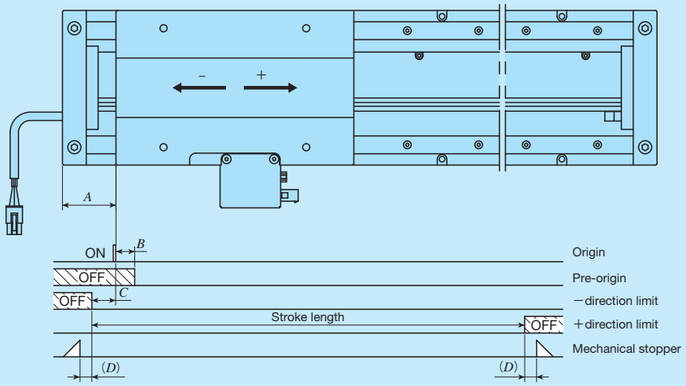
Fig. 12 Dynamic load mass of LT···H

Remark: These are values calculated based on the thrust force with table moving speed set to 1,000mm/s.

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

Sensor Specification

Table 6.1 Sensor timing chart for single table of LT···CE, LT···LD, and LT···H

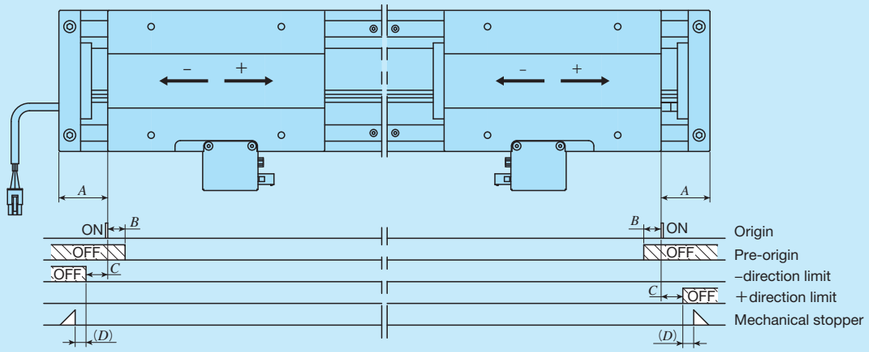


unit: mm

Model and size	A	B(1)	C(1)	D(1)
LT100CE···/SC	34	3	5	16
LT150CE···/SC	44	3	5	16
LT130LD	45	3	5	10
LT170LD	44	3	5	9
LT130H	82	3	17	20
LT170H	92	3	17	20

Note (1) Respective values are for reference and are not guaranteed values. For detailed dimensions, please contact IKO.
Remark: For the specifications of respective sensors, please see the section of sensor specification in General Explanation.

Table 6.2 Sensor timing chart for twin tables of LT···CE, LT···LD, and LT···H



unit: mm

Model and size	A	B(1)	C(1)	D(1)
LT100CE···/SCT2	34	3	5	16
LT150CE···/SCT2	44	3	5	16
LT130LD···/T2	45	3	5	10
LT170LD···/T2	44	3	5	9
LT130H ···/T2	82	3	17	20
LT170H ···/T2	92	3	17	20

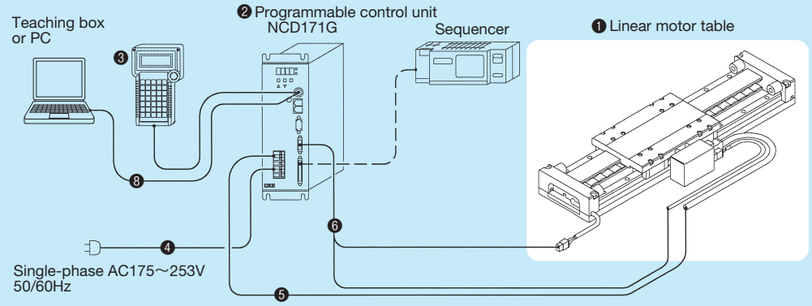
Note (1) Respective values are for reference and are not guaranteed values. For detailed dimensions, please contact IKO.
Remark: For the specifications of respective sensors, please see the section of sensor specification in General Explanation.

System Configuration

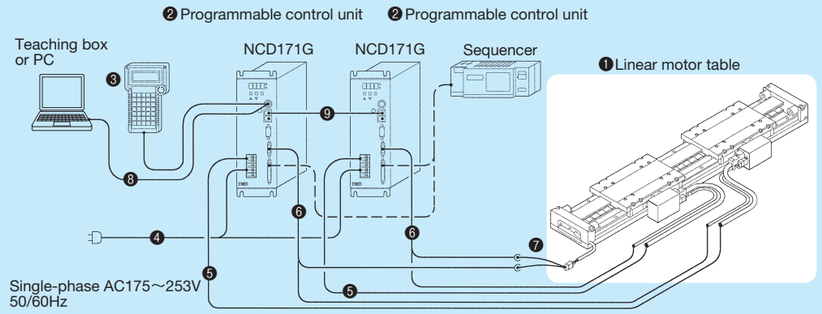
There are special programmable control units for Linear Motor Table LT, and the system configuration is shown in Table 7. For the programmable control unit specification, please see the section of programmable control unit specification on page Ⅱ-298. When you place an order, please specify desired identification numbers from the list of Table 7.

Table 7 System configuration

● Example of system configuration for single table



● Example of system configuration for twin table



No.	Name	Identification number			
		LT···CE	LT···CE/SC	LT···LD	LT···H
❶	Linear motor table	Please see pages of Ⅱ-299～Ⅱ-310			
❷	Programmable control unit	NCD171G-L2620			NCD171G-L6820
❸	Teaching box	TAE1050-TB			
❹	Power cord	This must be prepared by customer.			
❺	Motor extension cord	TAE20C8-MC□□			
❻	Encoder extension cord (1)	TAE20S5-EC□□	—		—
	Limit / Encoder extension cord	—	TAE20V0-EC□□		TAE20V1-EC□□
❼	Limit branch cord (0.1m)	TAE20V2-BC			
❽	Communication cable (2.0m)	TAE1098-RS			
❾	Inter axial cable (1.0m)	TAE1099-LC			

Note (1) This is applied to LT···CE without sensor. Limit sensor connection cord shown in the configuration example is not included.
Remark: The lengths of motor extension cord, encoder extension cord, and limit / encoder extension cord are specified in the fields of □□ located at the end of the identification number with a length from 3 to 10m in units of 1m.
(The limit cord portion is shortened by 1.5m.)
The cord length is specified in two digits even when the length is less than 10m. (For 3m: TAE20C8-MC03)

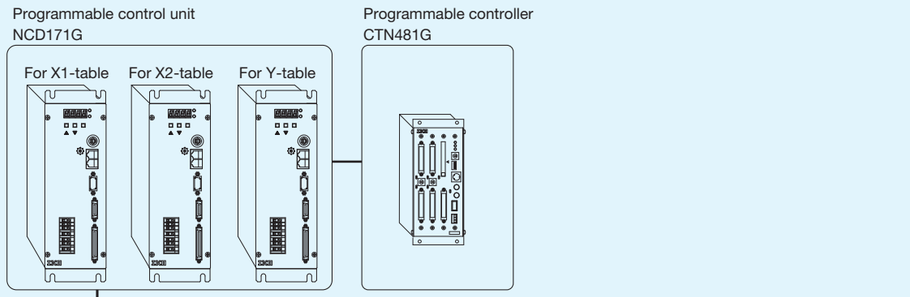
● Two-axis parallel operation

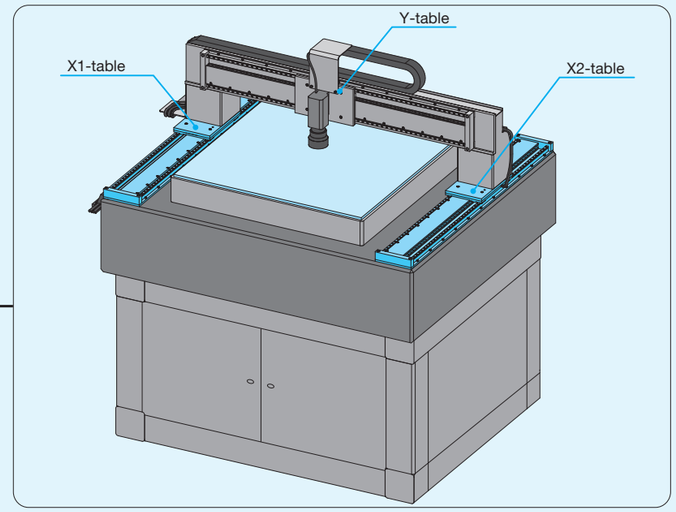
Implementing rigid combination of two sets of Linear Motor Table LT arranged in parallel enables parallel operation by two-axis driving.
As compared with conventional single-axis driving and single-axis driven method, the two-axis parallel operation enables stabilized positioning mechanism with flame torsion and the delay of right and left drive shafts minimized. This is most suitable for inspection devices that need carrying of large size work and wide moving area such as a flat panel display production device.
Two-axis parallel operation is prepared based on respective usages. For details of product specifications, please contact IKO.

Comparison of characteristics by driving method

Two-axis parallel operation	single-axis driving and single-axis driven method
· This is driven by two-axis and can generate large thrust force. · Driving of right and left tables enables positioning mechanism with table delay and flame torsion minimized. · Table delay and flame torsion are minimized, which ensures high positioning accuracy. · As compared with two-axis synchronization control system, this can reduce the cost.	· This is driven by single-axis and cannot generate large thrust force. · Only single-axis is driving, which is likely to cause the delay of driven-side table and flame torsion. · Delay of driven-side table and flame torsion tend to occur, which cannot ensure the positioning accuracy.

System configuration example





This configuration example is a system configuration of parallel operation of X1 and X2 tables with IKO programmable controller CTN481G set as an upper controller.

Programmable Control Unit Specification

- Programmable controller and servo driver are unified into a compact unit.
- This unit requires less connection cords, which largely reduces the number of man-hours for wiring.
- Single unit of teaching box is sufficient even for operation of multiple axes.
- DC24V power supply for external I/O and sensor is built in the unit.
- Built-in I/O sequence function does not require use of sequencer if the system is not complicated.
- Various check functions makes it easier to check external I/O connection.
- The program is composed of easy-to-understand command language, which helps you easily create a program.
- Flash memory is used for memory backup, so that you don't need battery change.
- Monitoring and limiting thrust force during movement is possible.
- A teaching box is available as an auxiliary storage device.
- Various home returning methods enable return to origin operation without externally mounting a sensor.
- Using RS232C interface enables the connection to PC.
- Conformance with CE marking (low voltage command and EMC command) is confirmed.

The values in ( ) represent the dimensions of NCD171G-L6820.

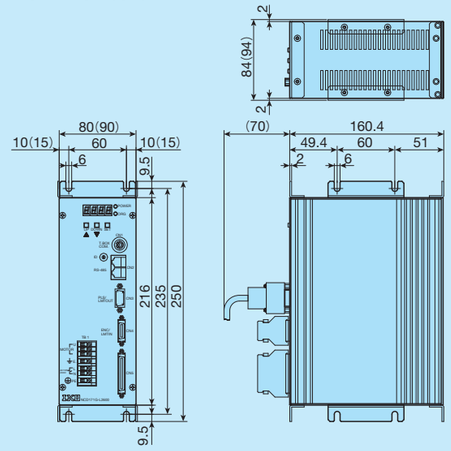


Table 8 Programmable control unit specification

Item			Model number NCD171G-L2620	NCD171G-L6820
Control specification	Number of control axis		Single-axis	
	Applicable linear motor		LT100CE, LT150CE, LT130LD, and LT170LD	LT130H and LT170H
	Feedback		Incremental linear encoder	
	Resolution		0.1μm, 0.5μm, and 1.0μm	
	Command input	Position control External	+ direction/- direction pulse, position command pulse/direction command, selection of A/B phase, Max. 5MHz	
		Position control Program	±2147483647 pulse (command maximum value)	
		Speed control Analog	±10V/rated speed (variable by parameter) resolution 10V/372 interpolation	
Program specifications	Entry method		MDI, teaching, and PC input via RS232C	
	Command input type		Absolute command or incremental command	
	Program capacity		11K byte (1 100 steps or more)	
	Number of positioning point		512 points	
	Function		Jump, call, repeat, speed setting, acceleration/deceleration setting, timer control, I/O control, input condition branching, various editing functions (creating, erasing, deleting, inserting, etc.)	
Input & output specifications	Input	No. of input points	LS input: 3, I/O input: 20	
		Control input	Start, stop, emergency stop, +/- direction movement manual operation, return to origin, alarm reset, deviation counter reset, servomotor control, interrupt, etc. (assignment to I/O input by parameters)	
		Input method	Photo coupler bi-directional input (non voltage contact, open collector, and open emitter are supported)	
	Output	No. of output points	I/O output: 12	
		Operational output	In automatic operation, limit actuation, emergency stop, return to origin complete, ready complete, alarm, positioning complete, pre-origin sensor (assignment to I/O output by parameters)	
		Output type	Open emitter output (maximum open / close voltage: 30V Maximum load current: 100mA)	
	Input & output power voltage		DC24V±5% 500mA	
Protective function			Overcurrent, overvoltage, overload, voltage drop, encoder failure, deviation error, regeneration resistance overheating, CPU error, etc.	
Other major functions			RS232C (read, write, direct execution, etc.), software limit, thrust force limitation, thrust force monitoring, speed control during travel, changing LS logic, various check functions	
General specifications	Main power supply voltage		Single-phase AC200~230V±10%(1) 50/60Hz	
	Continuous rated current		0.6Arms	2.4Arms
	Max. momentary current		4.7Arms	15.0Arms
	Ambient temperature		0~40℃ Storage−10~60℃	
	Ambient humidity		35~85%RH (keep dewdrop free)	
	Measure against power outage		Flash memory (Battery change is not required)	
Mass			Main body : 1.7kg Teaching box: 0.5kg	Main body : 1.9kg Teaching box: 0.5kg

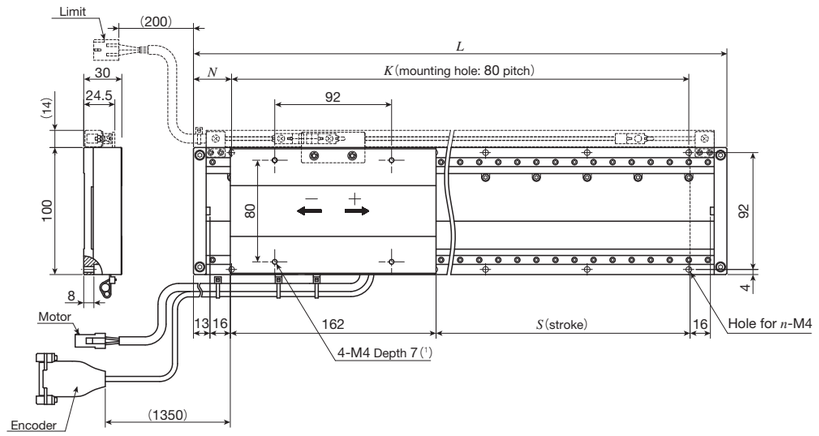
Note (1) If you need AC100V specification for NCD171G-L2620, please contact IKO.

● CE marking

Programmable control unit's CE marking is based on confirmation of conformance with the following evaluation standard.
Low voltage command: EN50178
EMC command : EN55011 Gr1 ClassA and EN61000-6-2
Conformance with EMC command has been confirmed in our selected system configuration. In the condition where the unit is incorporated into practical machine or device, the wiring and installation condition may be different, so that the conformance with EMC command in machine or device requires the measurement in final machine or device with the LT incorporated.

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

LT100CEGS Single table

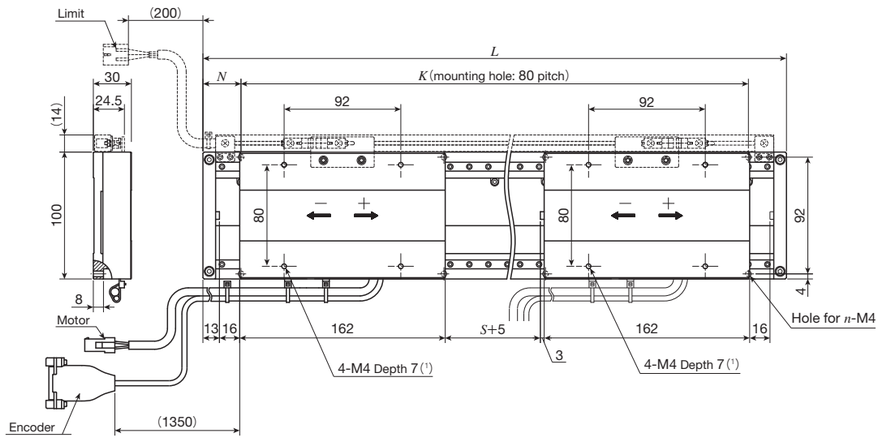


unit: mm

Identification number	Stroke length S(2)	Overall length L	Mounting holes of bed N	K	n	Total mass of table kg	Mass of moving table kg
LT100CEGS- 200	200	420	50	320	10	4.9	0.58
LT100CEGS- 400	400	620	30	560	16	6.9	
LT100CEGS- 600	600	820	50	720	20	9.0	
LT100CEGS- 800	800	1 020	30	960	26	11.1	
LT100CEGS-1000	1 000	1 220	50	1 120	30	13.1	

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) For other stroke lengths, please contact IKO.
Remark: Dashed line portions in the dimensional figures indicate the sensor-included specification / SC.

LT100CEGS/T2 Twin table

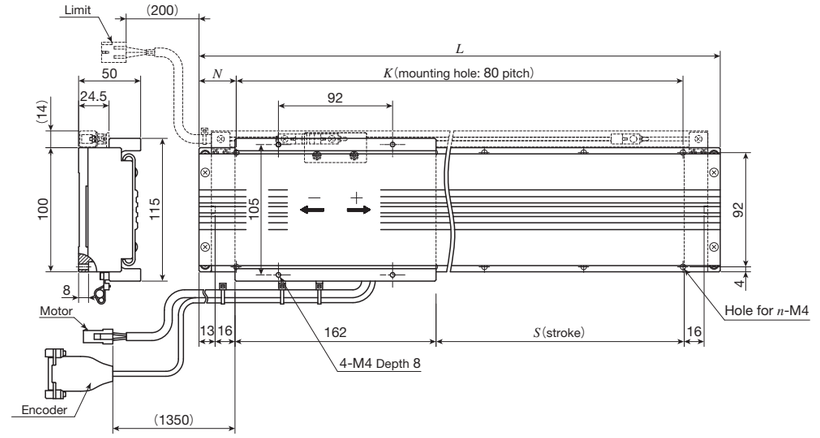


unit: mm

Identification number	Stroke length S(2)	Overall length L	Mounting holes of bed N	K	n	Total mass of table kg	Mass of moving table kg
LT100CEGS-230/T2	230	620	30	560	16	7.5	0.58
LT100CEGS-430/T2	430	820	50	720	20	9.6	
LT100CEGS-630/T2	630	1 020	30	960	26	11.7	
LT100CEGS-830/T2	830	1 220	50	1 120	30	13.7	

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) For other stroke lengths, please contact IKO.
Remark: Dashed line portions in the dimensional figures indicate the sensor-included specification / SC.

LT100CEGF/D Single table with cover

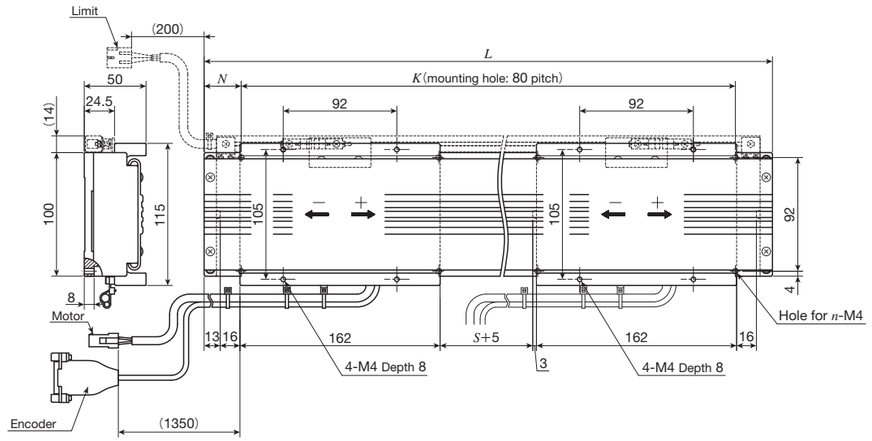


unit: mm

Identification number	Stroke length S(1)	Overall length L	Mounting holes of bed N	K	n	Total mass of table kg	Mass of moving table kg
LT100CEGF- 200/D	200	420	50	320	10	5.6	0.93
LT100CEGF- 400/D	400	620	30	560	16	7.8	
LT100CEGF- 600/D	600	820	50	720	20	10.0	
LT100CEGF- 800/D	800	1 020	30	960	26	12.2	
LT100CEGF-1000/D	1 000	1 220	50	1 120	30	14.4	

Note (1) For other stroke lengths, please contact IKO.
Remark: Dashed line portions in the dimensional figures indicate the sensor-included specification / SC.

LT100CEGF/DT2 Twin table with cover



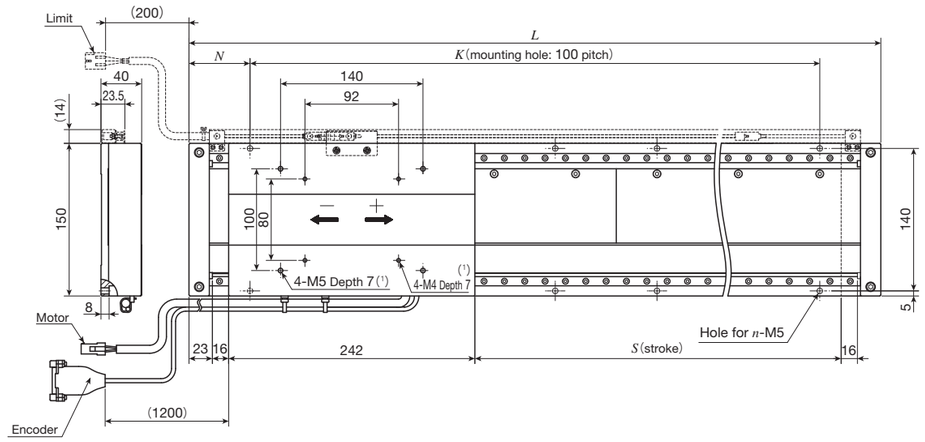
unit: mm

Identification number	Stroke length S(1)	Overall length L	Mounting holes of bed N	K	n	Total mass of table kg	Mass of moving table kg
LT100CEGF-230/DT2	230	620	30	560	16	8.7	0.93
LT100CEGF-430/DT2	430	820	50	720	20	10.9	
LT100CEGF-630/DT2	630	1 020	30	960	26	13.2	
LT100CEGF-830/DT2	830	1 220	50	1 120	30	15.4	

Note (1) For other stroke lengths, please contact IKO.
Remark: Dashed line portions in the dimensional figures indicate the sensor-included specification / SC.

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

LT150CEGS Single table

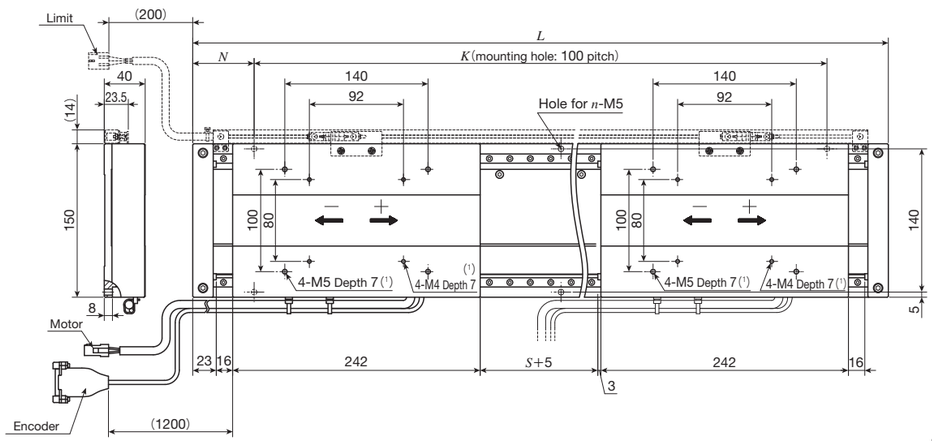


unit: mm

Identification number	Stroke length S(2)	Overall length L	Mounting holes of bed N	K	n	Total mass of table kg	Mass of moving table kg
LT150CEGS- 400	400	720	60	600	14	12.4	1.5
LT150CEGS- 600	600	920	60	800	18	15.5	
LT150CEGS- 800	800	1 120	60	1 000	22	18.6	
LT150CEGS-1000	1 000	1 320	60	1 200	26	21.6	
LT150CEGS-1200	1 200	1 520	60	1 400	30	24.7	

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) For other stroke lengths, please contact IKO.
Remark: Dashed line portions in the dimensional figures indicate the sensor-included specification / SC.

LT150CEGS/T2 Twin table

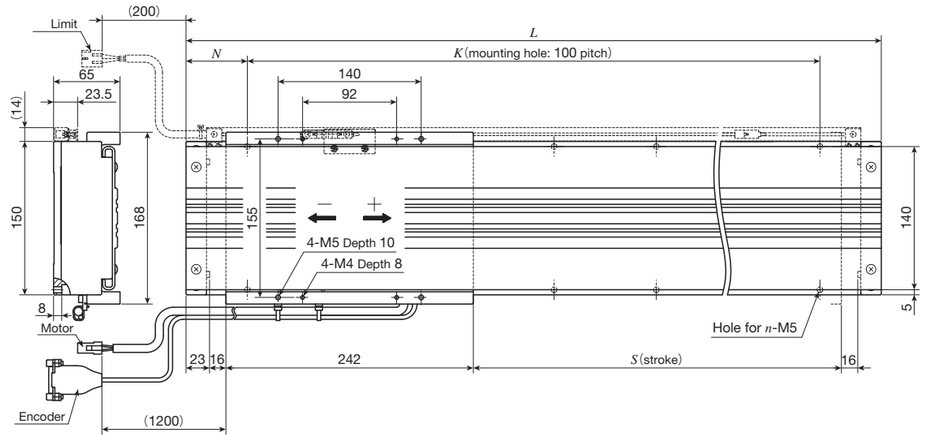


unit: mm

Identification number	Stroke length S(2)	Overall length L	Mounting holes of bed N	K	n	Total mass of table kg	Mass of moving table kg
LT150CEGS-350/T2	350	920	60	800	18	17.0	1.5
LT150CEGS-550/T2	550	1 120	60	1 000	22	20.1	
LT150CEGS-750/T2	750	1 320	60	1 200	26	23.1	
LT150CEGS-950/T2	950	1 520	60	1 400	30	26.2	

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) For other stroke lengths, please contact IKO.
Remark: Dashed line portions in the dimensional figures indicate the sensor-included specification / SC.

LT150CEGF/D Single table with cover

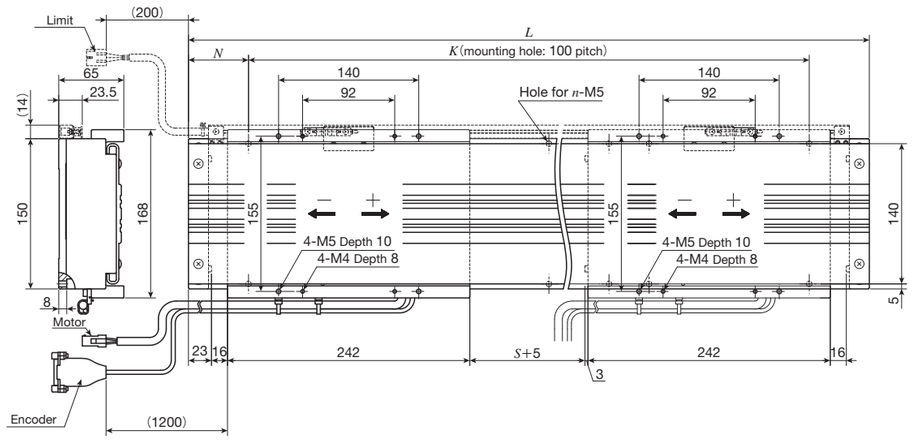


unit: mm

Identification number	Stroke length S(1)	Overall length L	Mounting holes of bed N	K	n	Total mass of table kg	Mass of moving table kg
LT150CEGF- 400/D	400	720	60	600	14	14.8	2.4
LT150CEGF- 600/D	600	920	60	800	18	18.1	
LT150CEGF- 800/D	800	1 120	60	1 000	22	21.5	
LT150CEGF-1000/D	1 000	1 320	60	1 200	26	24.8	
LT150CEGF-1200/D	1 200	1 520	60	1 400	30	28.2	

Note (1) For other stroke lengths, please contact IKO.
Remark: Dashed line portions in the dimensional figures indicate the sensor-included specification / SC.

LT150CEGF/DT2 Twin table with cover



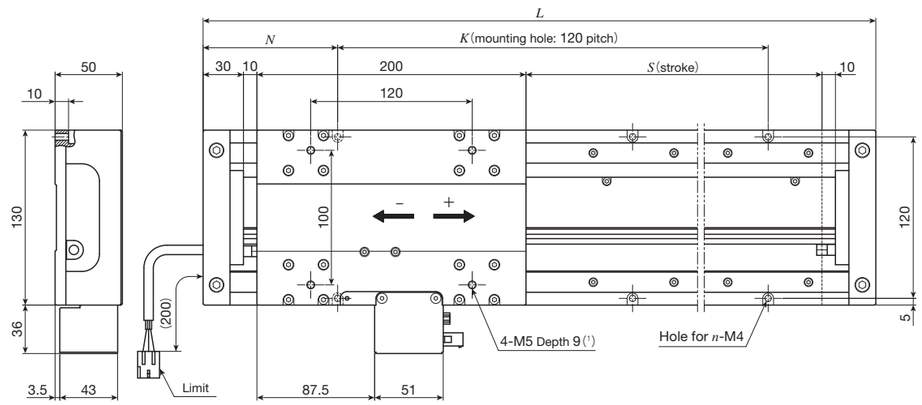
unit: mm

Identification number	Stroke length S(1)	Overall length L	Mounting holes of bed N	K	n	Total mass of table kg	Mass of moving table kg
LT150CEGF-350/DT2	350	920	60	800	18	20.5	2.4
LT150CEGF-550/DT2	550	1120	60	1000	22	23.9	
LT150CEGF-750/DT2	750	1320	60	1200	26	27.3	
LT150CEGF-950/DT2	950	1520	60	1400	30	30.6	

Note (1) For other stroke lengths, please contact IKO.
Remark: Dashed line portions in the dimensional figures indicate the sensor-included specification / SC.

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

LT130LDGS Single table

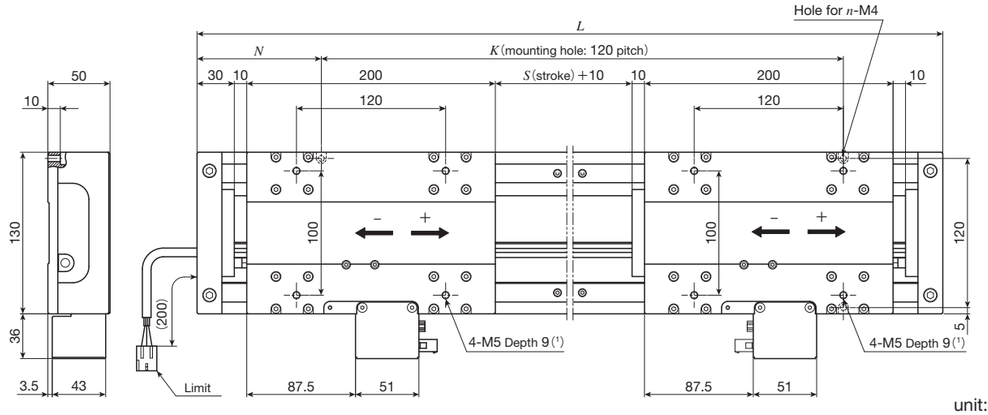


unit: mm

Identification number	Stroke length S(2)	Overall length L	Mounting holes of bed N	K	n	Total mass of table kg	Mass of moving table kg
LT130LDGS- 240	240	520	80	360	8	7.6	1.7
LT130LDGS- 720	720	1 000	80	840	16	13.5	
LT130LDGS-1200	1 200	1 480	80	1320	24	19.4	
LT130LDGS-1680	1 680	1 960	80	1800	32	25.3	
LT130LDGS-2160	2 160	2 440	80	2280	40	31.2	
LT130LDGS-2640	2 640	2 920	80	2760	48	37.1	
LT130LDGS-2760	2 760	3 040	80	2880	50	38.6	

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) For other stroke lengths, please contact IKO.

LT130LDGS/T2 Twin table

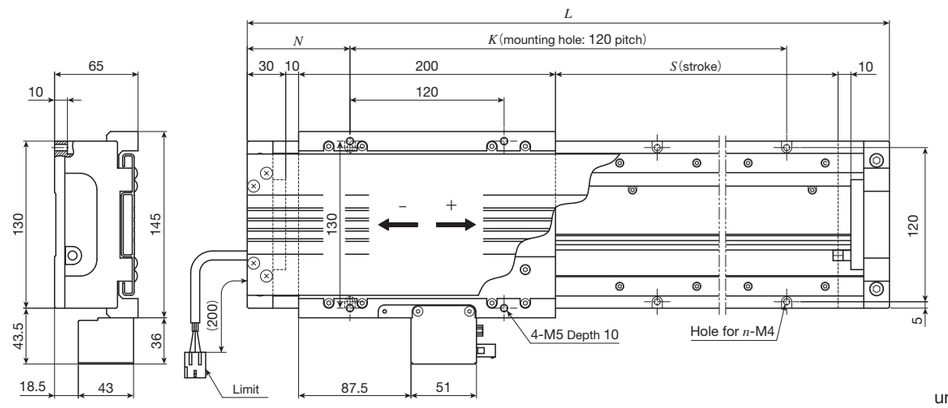


unit: mm

Identification number	Stroke length S(2)	Overall length L	Mounting holes of bed N	K	n	Total mass of table kg	Mass of moving table kg
LT130LDGS- 500/T2	500	1 000	80	840	16	15.2	1.7
LT130LDGS- 980/T2	980	1 480	80	1 320	24	21.1	
LT130LDGS-1460/T2	1 460	1 960	80	1 800	32	27.0	
LT130LDGS-1940/T2	1 940	2 440	80	2 280	40	32.9	
LT130LDGS-2420/T2	2 420	2 920	80	2 760	48	38.8	
LT130LDGS-2540/T2	2 540	3 040	80	2 880	50	40.3	

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) For other stroke lengths, please contact IKO.

LT130LDGF/D Single table with cover

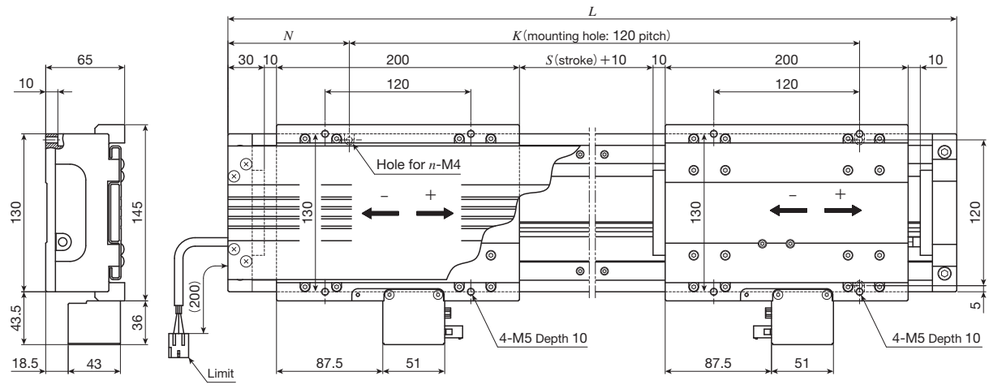


unit: mm

Identification number	Stroke length S(1)	Overall length L	Mounting holes of bed N	K	n	Total mass of table kg	Mass of moving table kg
LT130LDGF- 240/D	240	520	80	360	8	8.3	2.0
LT130LDGF- 720/D	720	1 000	80	840	16	14.6	
LT130LDGF-1200/D	1 200	1 480	80	1 320	24	20.9	
LT130LDGF-1680/D	1 680	1 960	80	1 800	32	27.2	

Note (1) For other stroke lengths, please contact IKO.

LT130LDGF/DT2 Twin table with cover



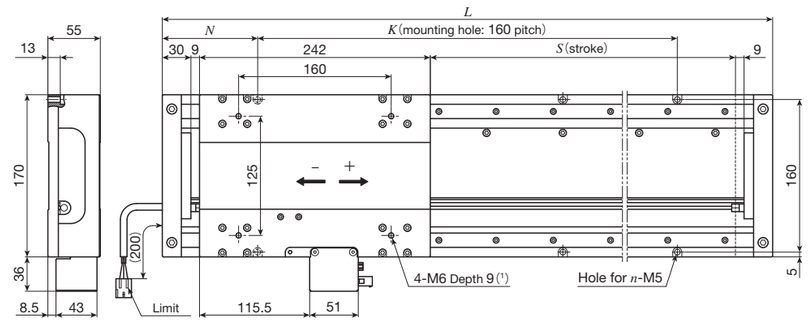
unit: mm

Identification number	Stroke length S(1)	Overall length L	Mounting holes of bed N	K	n	Total mass of table kg	Mass of moving table kg
LT130LDGF- 500/DT2	500	1 000	80	840	16	16.6	2.0
LT130LDGF- 980/DT2	980	1 480	80	1 320	24	22.8	
LT130LDGF-1460/DT2	1 460	1 960	80	1 800	32	29.1	

Note (1) For other stroke lengths, please contact IKO.

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

LT170LDGS Single table / High thrust specification
LT170LDVS Single table / High speed specification

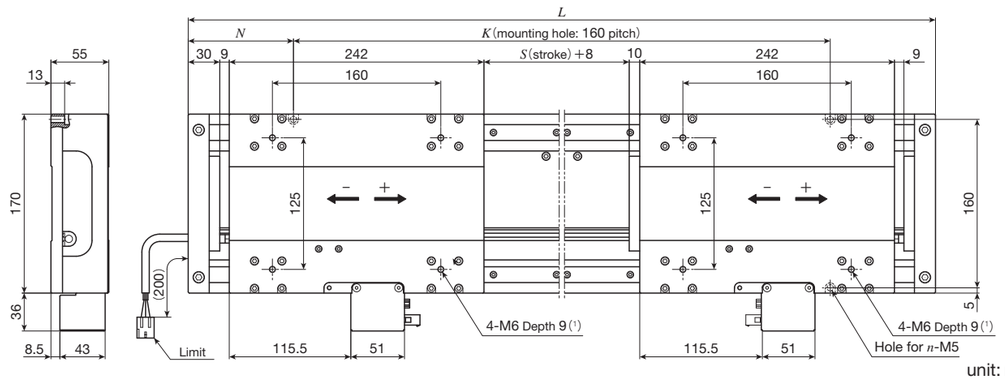


unit: mm

Identification number	Stroke length S (2)	Overall length L	Mounting holes of bed N	K	n	Total mass of table kg	Mass of moving table kg
LT170LDGS- 680 LT170LDVS- 680	680	1 000	100	800	12	22.6	2.5
LT170LDGS-1160 LT170LDVS-1160	1 160	1 480	100	1 280	18	32.7	
LT170LDGS-1640 LT170LDVS-1640	1 640	1 960	100	1 760	24	42.7	
LT170LDGS-2120 LT170LDVS-2120	2 120	2 440	100	2 240	30	52.8	
LT170LDGS-2600 LT170LDVS-2600	2 600	2 920	100	2 720	36	62.9	
LT170LDGS-2720 LT170LDVS-2720	2 720	3 040	80	2 880	38	65.4	

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) For other stroke lengths, please contact IKO.

LT170LDGS/T2 Twin table / High thrust specification
LT170LDVS/T2 Twin table / High speed specification

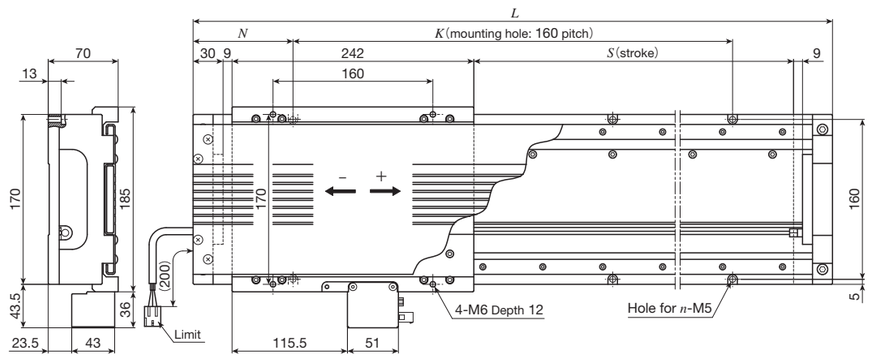


unit: mm

Identification number	Stroke length S (2)	Overall length L	Mounting holes of bed N	K	n	Total mass of table kg	Mass of moving table kg
LT170LDGS- 420/T2 LT170LDVS- 420/T2	420	1 000	100	800	12	25.1	2.5
LT170LDGS- 900/T2 LT170LDVS- 900/T2	900	1 480	100	1 280	18	35.2	
LT170LDGS-1380/T2 LT170LDVS-1380/T2	1 380	1 960	100	1 760	24	45.2	
LT170LDGS-1860/T2 LT170LDVS-1860/T2	1 860	2 440	100	2 240	30	55.3	
LT170LDGS-2340/T2 LT170LDVS-2340/T2	2 340	2 920	100	2 720	36	65.4	
LT170LDGS-2460/T2 LT170LDVS-2460/T2	2 460	3 040	80	2 880	38	67.9	

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) For other stroke lengths, please contact IKO.

LT170LDGF/D Single table with cover / High thrust specification
LT170LDVF/D Single table with cover / High speed specification

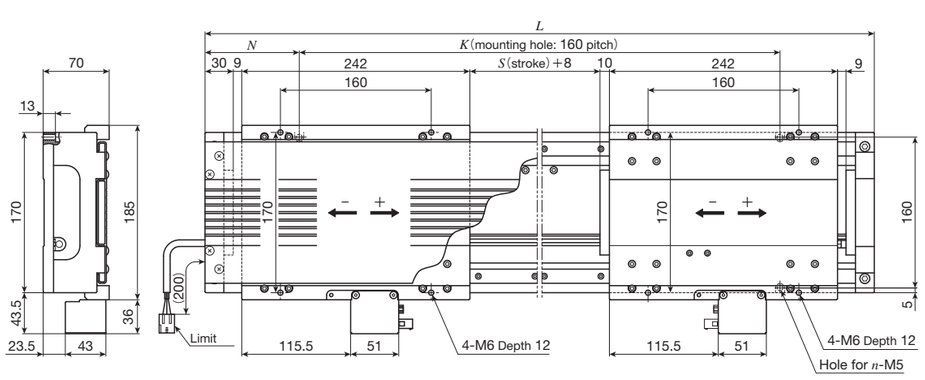


unit: mm

Identification number	Stroke length S (1)	Overall length L	Mounting holes of bed N	K	n	Total mass of table kg	Mass of moving table kg
LT170LDGF- 680/D LT170LDVF- 680/D	680	1 000	100	800	12	24.0	2.8
LT170LDGF-1160/D LT170LDVF-1160/D	1 160	1 480	100	1 280	18	34.6	
LT170LDGF-1640/D LT170LDVF-1640/D	1 640	1 960	100	1 760	24	45.2	

Note (1) For other stroke lengths, please contact IKO.

LT170LDGF/DT2 Twin table with cover / High thrust specification
LT170LDVF/DT2 Twin table with cover / High speed specification



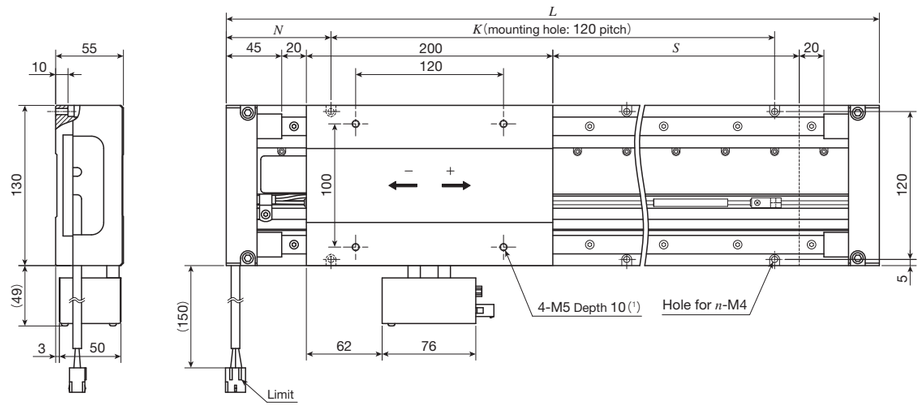
unit: mm

Identification number	Stroke length S (1)	Overall length L	Mounting holes of bed N	K	n	Total mass of table kg	Mass of moving table kg
LT170LDGF- 420/DT2 LT170LDVF- 420/DT2	420	1 000	100	800	12	26.9	2.8
LT170LDGF- 900/DT2 LT170LDVF- 900/DT2	900	1 480	100	1 280	18	37.5	
LT170LDGF-1380/DT2 LT170LDVF-1380/DT2	1 380	1 960	100	1 760	24	48.0	

Note (1) For other stroke lengths, please contact IKO.

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

LT130HS Single table

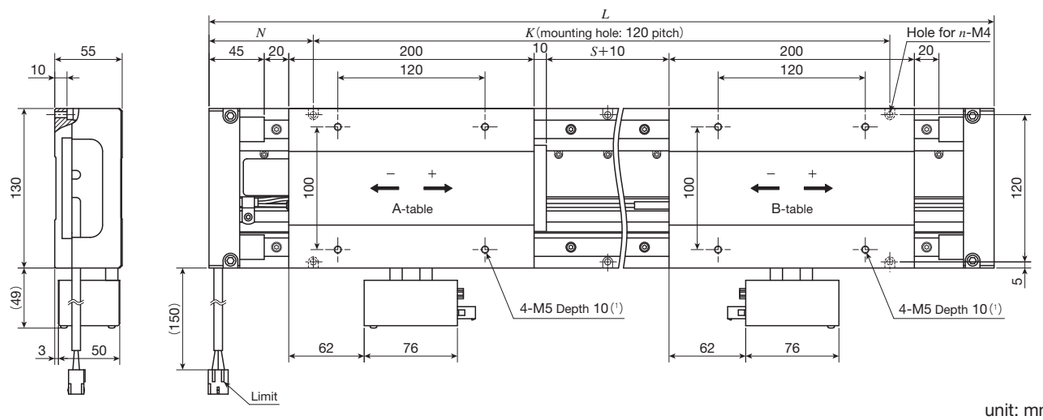


unit: mm

Identification number	Stroke length S(2)	Overall length L	Mounting holes of bed N	Mounting holes of bed K	Mounting holes of bed n	Total mass of table kg	Mass of moving table kg
LT130HS- 680	680	1 010	85	840	16	15.6	2.5
LT130HS-1160	1 160	1 490	85	1 320	24	21.7	
LT130HS-1640	1 640	1 970	85	1 800	32	27.8	
LT130HS-2120	2 120	2 450	85	2 280	40	33.9	
LT130HS-2600	2 600	2 930	85	2 760	48	40.0	
LT130HS-2710	2 710	3 040	80	2 880	50	41.4	

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) For other stroke lengths, please contact IKO.

LT130HS/T2 Twin table

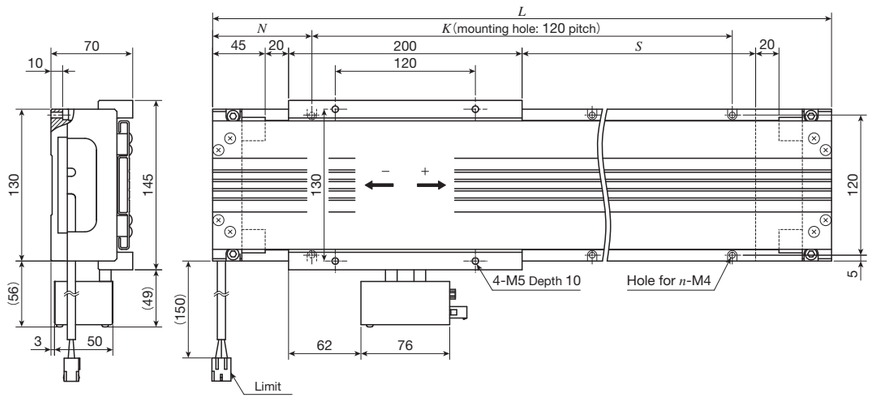


unit: mm

Identification number	Stroke length S(2)	Overall length L	Mounting holes of bed N	Mounting holes of bed K	Mounting holes of bed n	Total mass of table kg	Mass of moving table kg
LT130HS- 460/T2	460	1 010	85	840	16	18.1	2.5
LT130HS- 940/T2	940	1 490	85	1 320	24	24.2	
LT130HS-1420/T2	1 420	1 970	85	1 800	32	30.3	
LT130HS-1900/T2	1 900	2 450	85	2 280	40	36.4	
LT130HS-2380/T2	2 380	2 930	85	2 760	48	42.5	
LT130HS-2490/T2	2 490	3 040	80	2 880	50	43.9	

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) For other stroke lengths, please contact IKO.

LT130HF/D Single table with cover

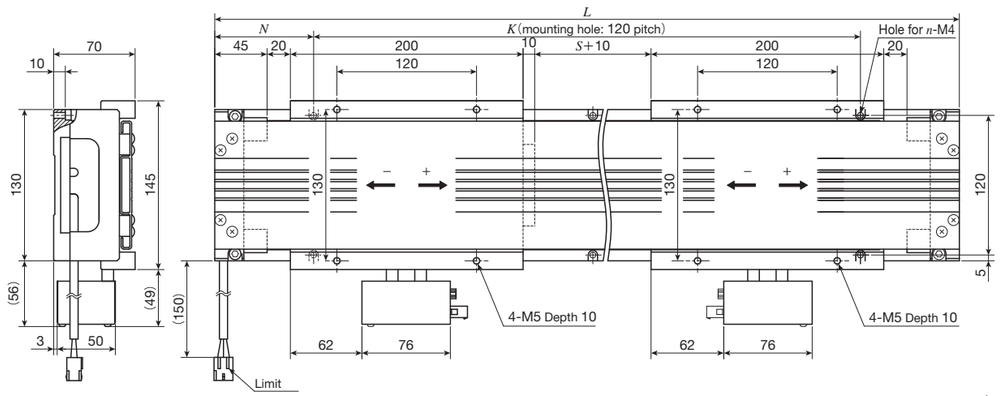


unit: mm

Identification number	Stroke length S(1)	Overall length L	Mounting holes of bed N	Mounting holes of bed K	Mounting holes of bed n	Total mass of table kg	Mass of moving table kg
LT130HF- 680/D	680	1 010	85	840	16	15.9	2.9
LT130HF-1160/D	1 160	1 490	85	1320	24	22.0	
LT130HF-1640/D	1 640	1 970	85	1800	32	28.1	

Note (1) For other stroke lengths, please contact IKO.

LT130HF/DT2 Twin table with cover



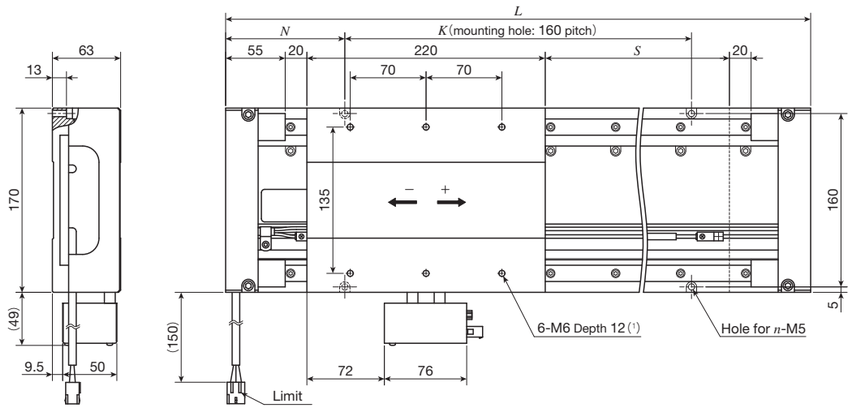
unit: mm

Identification number	Stroke length S(1)	Overall length L	Mounting holes of bed N	Mounting holes of bed K	Mounting holes of bed n	Total mass of table kg	Mass of moving table kg
LT130HF- 460/DT2	460	1 010	85	840	16	18.8	2.9
LT130HF- 940/DT2	940	1 490	85	1 320	24	24.9	
LT130HF-1420/DT2	1 420	1 970	85	1 800	32	31.0	

Note (1) For other stroke lengths, please contact IKO.

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

LT170HS Single table

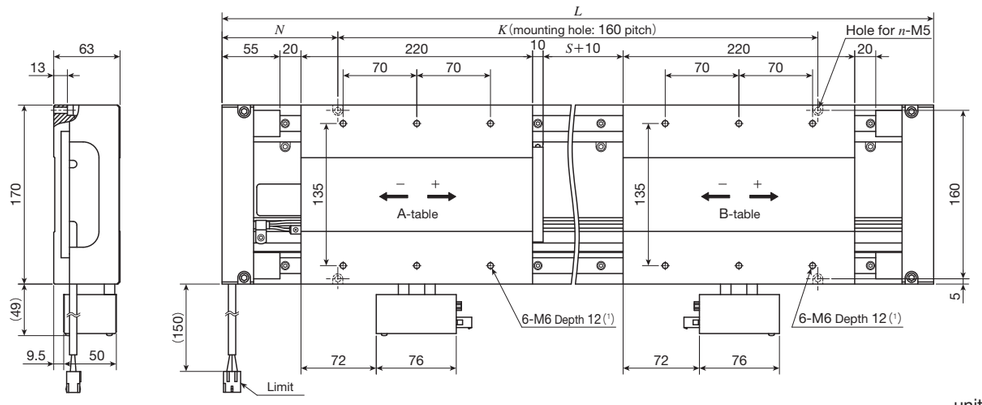


unit: mm

Identification number	Stroke length S (2)	Overall length L	Mounting holes of bed N	K	n	Total mass of table kg	Mass of moving table kg
LT170HS- 650	650	1 020	110	800	12	25.1	4.0
LT170HS-1130	1 130	1 500	110	1 280	18	34.9	
LT170HS-1610	1 610	1 980	110	1 760	24	44.6	
LT170HS-2090	2 090	2 460	110	2 240	30	54.4	
LT170HS-2570	2 570	2 940	110	2 720	36	64.1	
LT170HS-2670	2 670	3 040	80	2 880	38	66.4	

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) For other stroke lengths, please contact IKO.

LT170HS/T2 Twin table

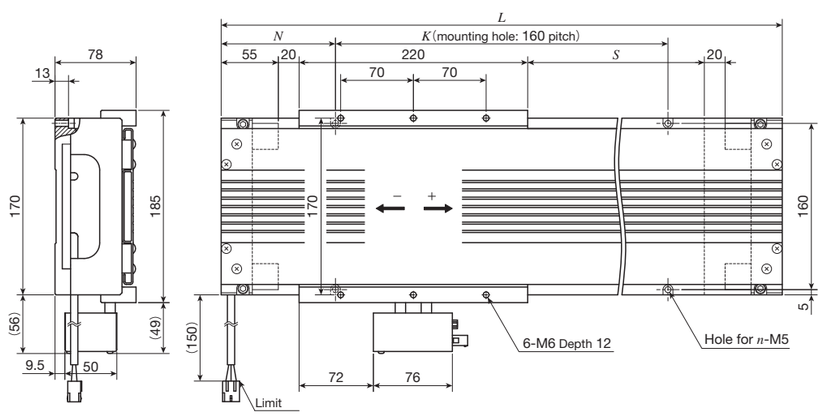


unit: mm

Identification number	Stroke length S (2)	Overall length L	Mounting holes of bed N	K	n	Total mass of table kg	Mass of moving table kg
LT170HS- 410/T2	410	1 020	110	800	12	29.1	4.0
LT170HS- 890/T2	890	1 500	110	1280	18	38.9	
LT170HS-1370/T2	1 370	1 980	110	1760	24	48.6	
LT170HS-1850/T2	1 850	2 460	110	2240	30	58.4	
LT170HS-2330/T2	2 330	2 940	110	2720	36	68.1	
LT170HS-2430/T2	2 430	3 040	80	2880	38	70.4	

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) For other stroke lengths, please contact IKO.

LT170HF/D Single table with cover

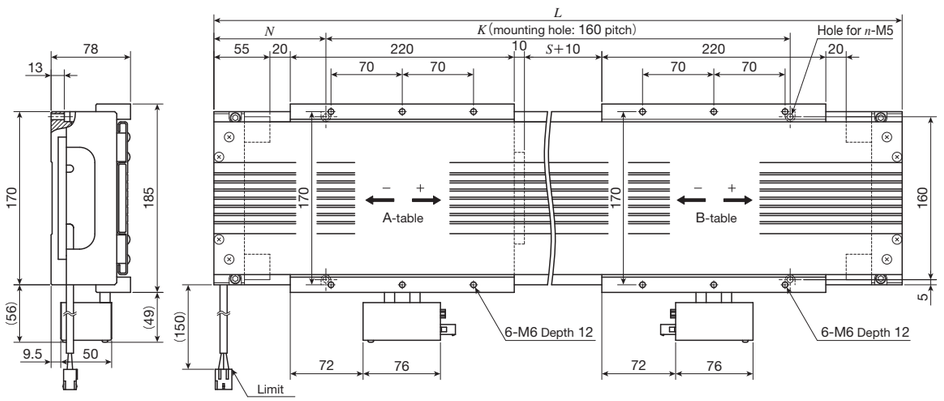


unit: mm

Identification number	Stroke length S (1)	Overall length L	Mounting holes of bed N	K	n	Total mass of table kg	Mass of moving table kg
LT170HF- 650/D	650	1 020	110	800	12	25.5	4.4
LT170HF-1130/D	1 130	1 500	110	1 280	18	35.2	
LT170HF-1610/D	1 610	1 980	110	1 760	24	45.0	

Note (1) For other stroke lengths, please contact IKO.

LT170HF/DT2 Twin table with cover



unit: mm

Identification number	Stroke length S (1)	Overall length L	Mounting holes of bed N	K	n	Total mass of table kg	Mass of moving table kg
LT170HF- 410/DT2	410	1 020	110	800	12	29.9	4.4
LT170HF- 890/DT2	890	1 500	110	1 280	18	39.6	
LT170HF-1370/DT2	1 370	1 980	110	1 760	24	49.4	

Note (1) For other stroke lengths, please contact IKO.

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