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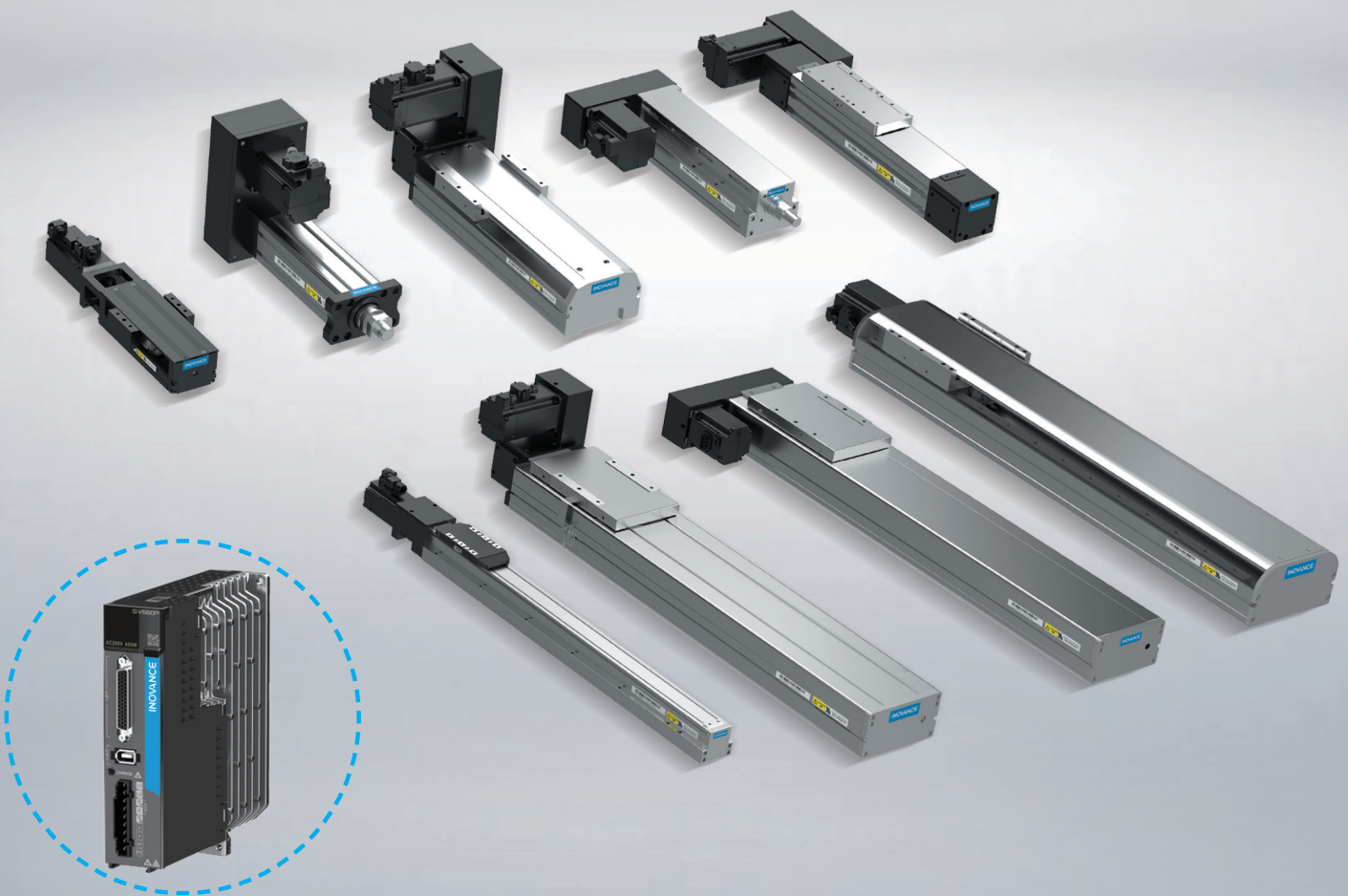
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Electric Cylinder Product Catalog

Easy to Use, Efficient, Precise



Company Profile



Headquarters in Shenzhen

Headquartered in Shenzhen, with multiple subsidiaries in major cities such as Suzhou and Hong Kong

Shenzhen Inovance Technology Co., Ltd. (stock code: SZ.300124) (hereinafter referred to as "Inovance") was founded in 2003 and its current market value is about CNY 160 billion. Inovance leads in industrial automation control and drive technology in China. It provides solutions integrating optical, mechanical, electrical, hydraulic, and pneumatic technologies covering drive, control, motor, and precision machinery products. Headquartered in Shenzhen, Inovance has more than 20,000 employees, with a production base in Suzhou and resident offices and service centers in over 30 countries and regions.

In 2022, Inovance achieved total operating revenues of CNY 23.008 billion, a 28.23% YoY increase, and operating profits of CNY 4.320 billion, a 20.89% YoY increase.

Inovance focuses on automation, digitalization, and intelligence of the industrial field and is dedicated to developing core technologies for the information layer, control layer, drive layer, execution layer, and sensor layer. Over 20 years of development, Inovance has successfully run business in general-purpose automation, smart elevator, new-energy vehicle, industrial robot, and rail transit.

The major products of Inovance are as follows: (1) General-purpose automation: Core products such as AC drives, servo systems, control systems (PLCs and CNCs), industrial vision systems, sensors, high-performance motors, high-precision lead screws, and industrial Internet products, and optic-hydraulics solutions; (2) Smart elevator: Elevator control systems (integrated controllers/AC drives), human-machine interfaces, door systems, control cabinets, cables, shaft electrical, elevator IoT products, and comprehensive electrical solutions; (3) New-energy vehicle: Electric drive system (motor, inverter, and electric drive assembly) and power supply system (DC/DC, OBC, power supply assembly), providing cost-effective product solutions and services; (4) Industrial robot: SCARA robot, six-axis robot, vision system, high-precision screw, control systems and other solutions, covering 3C manufacturing, lithium battery, silicon crystal, textile, and other downstream industries; (5) Rail transit: Traction converters, auxiliary converters, medium-voltage boxes, traction motors, and traction systems such as the train control and management system (TCMS), providing traction systems and services for metro and light rail vehicles.

As a leading enterprise in China's industrial automation field, the core technologies of Inovance cover various products at the information layer, control layer, drive layer, execution layer, and sensor layer, as well as application processes in fields such as industrial automation, elevators, new-energy vehicles, and rail transit. Inovance has mastered the following core technologies: (1) high-performance vector control technology, high-performance servo control technology, and high-power IGCT drive technology at the drive layer; (2) medium- and large-PLC technology, CNC control technology, robot control technology, high-speed bus technology, and machine vision technology at the control layer; (3) high-performance servo motor technology, high-efficiency motor technology, high-speed motor and magnetic bearing technology, high-accuracy encoder design and process technology, and precision transmission mechanism design and process technology at the execution layer; (4) industrial Internet, edge computing, and industrial AI technologies at the information layer; (5) process technologies for industries including new-energy vehicle, elevator, air cooling, air compressor, 3C manufacturing, lithium battery, silicon, crane, injection molding machine, textile, metal product, and printing and packaging.

In 2022, Inovance had 4,793 R&D engineers and invested CNY 2.229 billion in R&D, accounting for 9.69% of its revenues. As of 2022, the company had been granted 2,923 patents and software copyrights. The constant heavy investment in R&D has allowed Inovance to continuously improve its core technologies in motor and drive control, industrial control software, NEV electric drive assembly, digitalization, and industrial robots, consolidating Inovance's leading position in this field.

Inovance has been included in "2017 CCTV Top 50 Chinese Listed Companies by Social Responsibility", "First Batch of Key R&D Projects in Intelligent Robot in China", "New Energy Vehicle Power Assembly Engineering Center in Jiangsu", "National Enterprise Technology Center" in 2021, "First Batch of Postdoctoral Workstation in Shenzhen", "2022 Forbes China Top 50 Sustainable Development Industrial Enterprises", and "2022 Hurun China 100".

(Data as of 2023)

67 offices in China

400 authorized distributors

2,500⁺ sales and service employees

1,020 service centers

6 spare parts centers

A comprehensive service network to offer timely response to customer demands

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Series

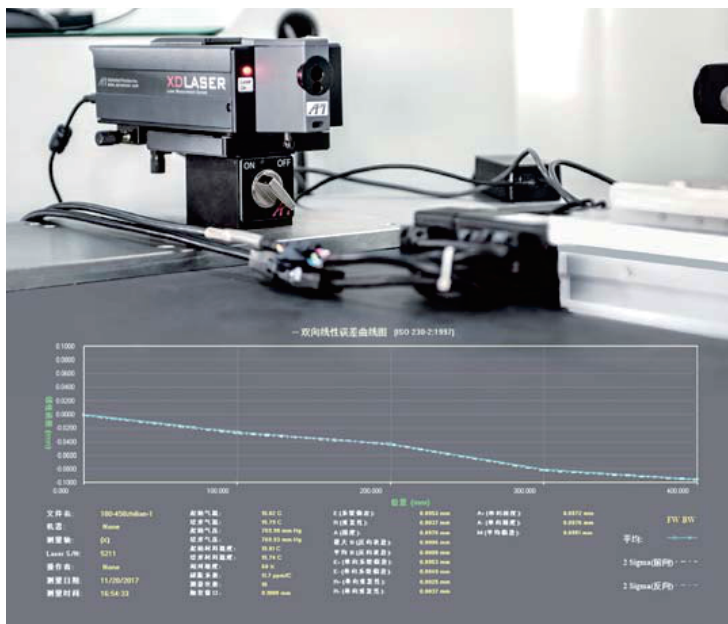
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Six Key Performance Tests

More Stringent - Ensuring Product Quality



Precision test

Tool

- Laser interferometer

Measurement method

- Mount the product on the granite.
- Secure the measuring lens onto the slide rest.
- Use a laser interferometer to measure the absolute positioning accuracy, repeatability, and traveling flatness.
- Follow the ASME B5.54-2005 standard.

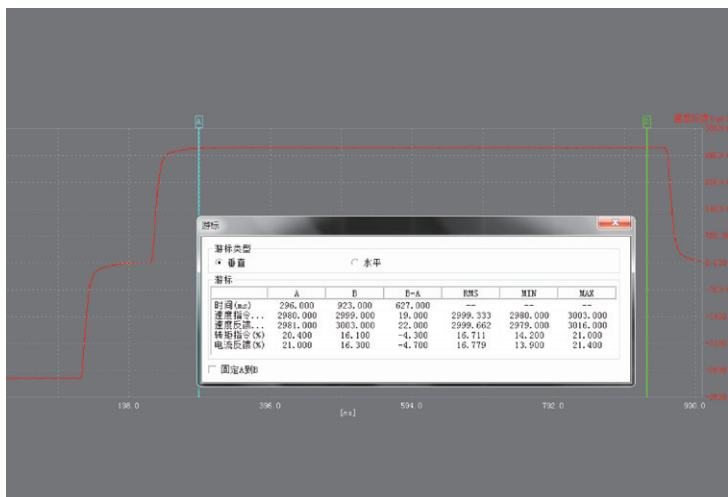
Noise test

Tool

- Noise box

Measurement method

- Mount the product in the noise box.
- Drive the product with a motor to measure the noise at the rated speed.



Torque fluctuation test

Tool

- Torque sensor

Measurement method

- Install a torque sensor between the motor output shaft and the screw input shaft.
- Secure the electric cylinder, including the torque sensor, on a granite platform.
- Measure the torque change of the screw input shaft with full load and no load at the rated speed.

Endurance test

Tool

- Laser interferometer

Measurement method

- Install different electric cylinders in vertical, horizontal, suspended, or side-mounted mode on the lifetime test stand.
- Operate the cylinders at rated speeds and loads (including eccentric loads) with the maximum effective travel for running-in.
- Test the positioning accuracy, repeatability, and traveling parallelism on the electric cylinders once every two weeks till precision failure.
- Continuously monitor for any abnormal vibration noise from the electric cylinders during the running-in process.



Vibration test

Tool

- Vibration test

Measurement method

- Secure the sliding table on the vibration table for operation.
- Subject the worktable to sinusoidal vibrations in both the Y and Z directions for 1 hour each, within a range of 10 Hz to 200 Hz.
- After vibration test is completed, use a laser interferometer to verify the precision retention.



Environment test

Tool

- Walk-in high and low temperature alternating humidity and heat test chamber

Measurement method

- Secure the product inside the chamber for operation.
- Ensure that the temperature range in the chamber is -40°C to $+70^{\circ}\text{C}$, with 95% RH.
- Set the test duration to 216 hours.
- After the test is completed, use a laser interferometer to verify the precision retention.

Easy to Use

Pursuit of Easy-to-Use Electric Cylinder

Linear drive system

- Motor control is integrated across all series to deliver linear drive system solutions.
- The system is applicable to a variety of industrial scenarios such as transfer, handling, measurement, and grasping.
- Motors can be installed in direct or indirect mode for different models.



Linear drive system

Dedicated servo system for electric cylinder

Dedicated software for electric cylinder



Mechatronics design for easy installation
One-key tuning for convenient electrical commissioning
Multi-position function for quick point-to-point motion

✓ Easy installation and commissioning



Lead screw cylinder: Up to 2 m/s speed
Up to 10 m/s² acceleration
Speed improved by 25% for a long travel

✓ Improved motion efficiency



Absolute encoder resolution up to 23 bits, equivalent to 0.15 arc seconds
Repeatability up to $\pm 8 \mu\text{m}$

✓ Precise positioning

Dedicated servo system for electric cylinder

- Standard absolute encoders for motors of all series
- Mechanical homing without need of external sensors
- Enhances safety and efficiency
- Support for EtherCAT bus



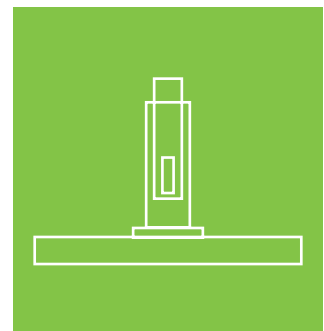
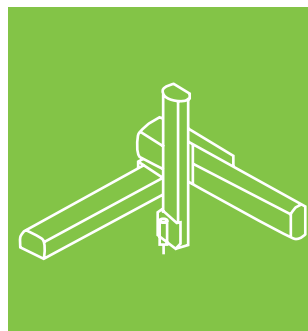
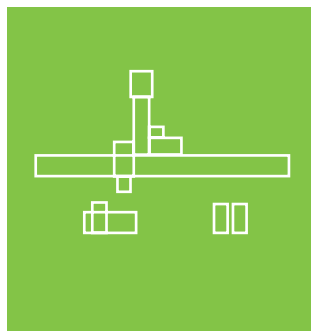
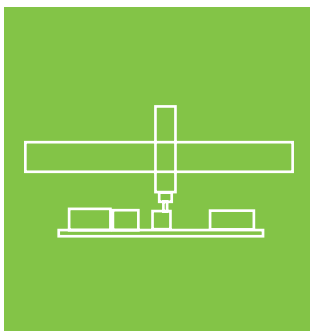
Dedicated software for electric cylinder

- Direct setting of point-to-point operation
- Support for parameter setting, query, and status monitoring



Application Fields

Electric cylinders can be widely used in various processes, such as handling, assembly, gluing, and inspection in industries like mobile phones, touch panels, lithium batteries, and photovoltaics.



Easy to Use



① Allowing execution according to settings without gain adjustment

② Integrated motor supply, saving assembly hours for customers

✓ Breaking the traditional separate procurement model of servo and module and providing customers with a more convenient and efficient mechatronic solution



Multi-position function for quick point-to-point motion

Easy installation and commissioning, supporting 16 positions

Position 1

Position 2

.....▶

Position 20

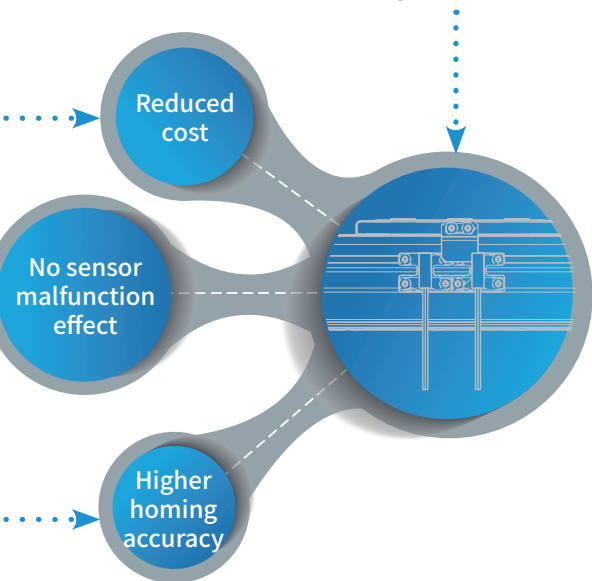
3 Requiring no external sensors

The cost of sensor usage and wiring is effectively reduced.

There is no need to worry about the detection deviation of the origin sensor and the influence of the external application environment.

The homing accuracy can reach $\pm 5 \mu\text{m}$, which is far superior to the differential distance of general sensors, typically $25 \mu\text{m}$ to $50 \mu\text{m}$.

The absolute system uses torque for homing, eliminating the need for external sensors such as the origin or limit sensors.

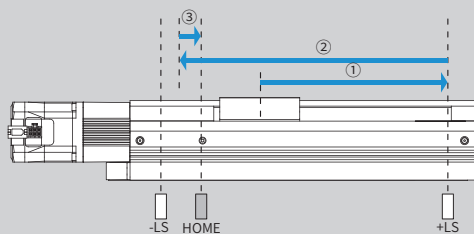


4 High-speed homing

No external sensors are required for homing, shortening the operating period of the machine.

Homing detected based on the origin sensor

Detecting the home at a low speed when checking the limit sensor ($\pm\text{LS}$) and origin sensor (HOME)



Start point

① Limit end ($\pm\text{LS}$)

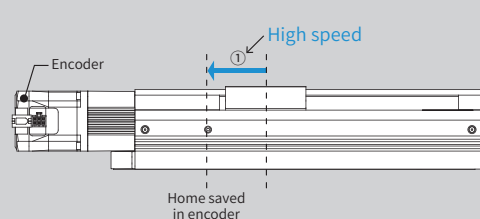
② Passing home

③ Re-entering home

Homing
More time-
consuming

✓ Collision homing

Directly moving to the home at high speed without checking the limit sensor



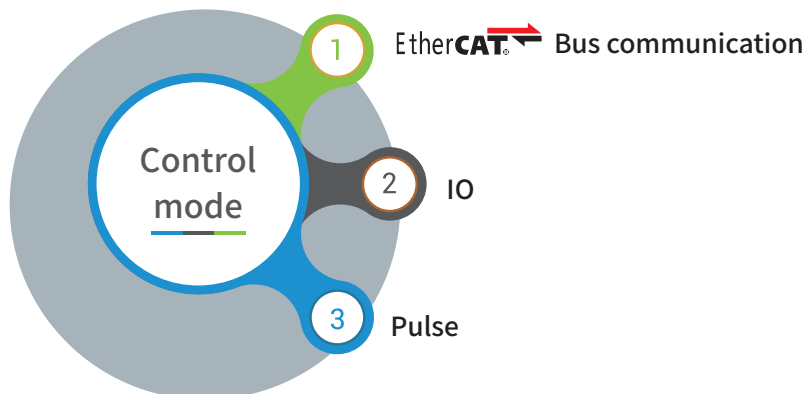
Start point

③ Re-entering home

High-speed homing,
shortening the operating period
of the machine

5 Multiple control modes

I/O, pulse, and EtherCAT bus communication is supported.

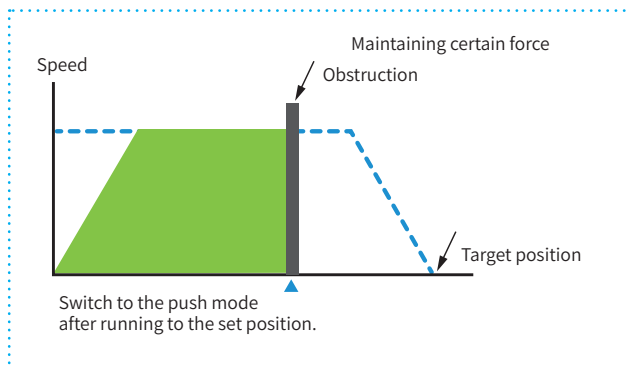


6 Multiple operating modes

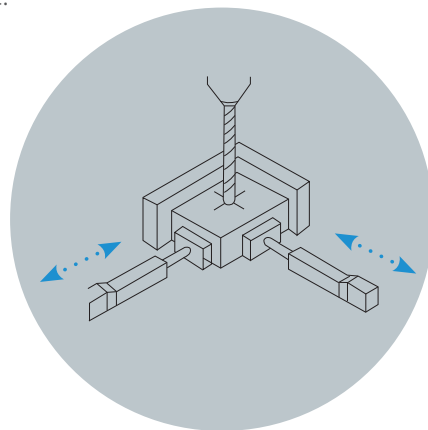
✓ Support for both absolute motion mode and relevant motion mode

✓ Flexible switching between the position mode and push mode

1. The push action is applied to workpieces for tasks such as pressing in and clamping. This simulates the state of continuous pushing on workpieces like an cylinder.
2. The push force can be adjusted by changing the setpoint in the data table.



Push action



7 Simple setting by using cylinder software

Use the dedicated cylinder software to easily complete data setting, saving, and actual drive operations, and verify results using various monitoring functions.



✓ Position editing page

The sensor and wiring costs can be reduced to lower the system cost.

Toolbar

Manual operating mode
Perform the electric operation.

Current position and servo state

Servo/Origin setting
Control the servo, reset the home, and clear alarms.

Position setting
Set the position, speed, and acceleration rate for the operation.

No.	位置[mm]	速度[mm/s]	加速度[G]	减速度[G]
0	23	50	0.01	0.01
1	90	100	0.01	0.01
2				
3				
4				
5				
6				
7	12	60	0.2	0.2
8	78	50	0.01	0.01
9				

✓ Alarm list

数据类别	报警代码	提示
最近检测到	0	正常
前1次	952	告警:反句超程警告
前2次	950	告警:正句超程警告
前3次	952	告警:反句超程警告
前4次	950	告警:正句超程警告
前5次	952	告警:反句超程警告
前6次	952	告警:反句超程警告
前7次	950	告警:正句超程警告
前8次	800	故障:位置随动误差过大
前9次	952	告警:反句超程警告

✓ Status monitoring

No.	名称	状态
1	PS1	OFF
2	PS2	OFF
3	PS4	OFF
4	PS8	OFF
5	HOME	OFF
6	*STP	OFF
7	PSTR	OFF
8	RES	OFF
9	SON	OFF
10	(保留)	OFF
11	(保留)	OFF
12	(保留)	OFF
13	(保留)	OFF
14	(保留)	OFF
15	(保留)	OFF
16	(保留)	OFF

No.	名称	状态
1	SV	ON
2	INP	OFF
3	HEND	OFF
4	BK	ON
5	ALM	OFF
6	(保留)	OFF
7	(保留)	OFF
8	(保留)	OFF
9	(保留)	OFF
10	(保留)	OFF
11	(保留)	OFF
12	(保留)	OFF
13	(保留)	OFF
14	(保留)	OFF
15	(保留)	OFF
16	(保留)	OFF

✓ Parameter editing

No.	参数名称	设定值	取值范围
H0E37	运行模式选择	0	0~2
H0980	位置模式选择	1	0~1
H0981	刚性参数选择	16	0~31
H0E36	行程[mm]	5	0.1mm~50mm
H0A41	软限位+ [mm]	200	-9999.99mm~9999.99mm
H0A43	软限位- [mm]	0	-9999.99mm~9999.99mm
H0282	运行方式选择	1	0~1
H0E40	限位到达延迟时间[ms]	255	10ms~9999ms
H0532	原点复位速度[mm/s]	20	1mm/s~200mm/s
H0535	回原点延迟时间[s]	60	10s~300s
H0536	原点机械限位偏移量[mm]	3	0mm~9999.99mm
H0558	原点复位加速度[%]	35	0%~150%
H0C02	串口波特率设置	5	0~5
H0C03	Modbus数据格式	0	0~3
H0C08	Can通信速率选择	5	0~6
H0E38	限位速度[mm/s]	20	0mm/s~20mm/s
H0591	脉冲指令输入端子选择	0	0~1
H0592	电机旋转一周位置指令数[P/Rev]	0	0P/Rev~1048576P/Rev
H0D15	脉冲指令形态	0	0~3
H0D17	编码器分辨率[4096P/Rev]	2530	33P/Rev~32767P/Rev
H0A10	位置偏差最大报警限[P (编码器单位)]	2435688	1P (编码器单位) ~1.073742E+09P (编码器...)
H0E41	脉冲指令分辨率[%]	20	1%~300%
H0E25	脉冲指令分辨率[mm/s]	100	0mm/s~200mm/s

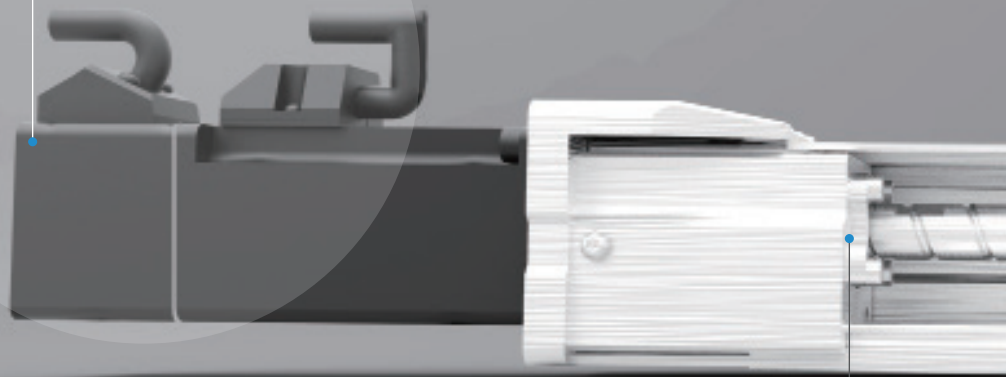
Precise

Resolution up to 23 bits

- Configure a 23-bit absolute encoder with a resolution of 0.15 arc seconds.

Repeatability up to $\pm 8 \mu\text{m}$

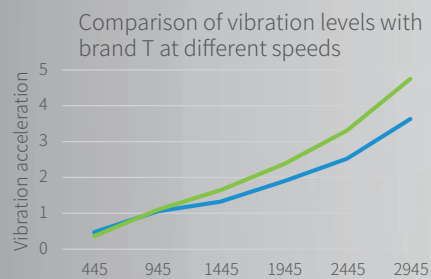
- Use high-precision ball screws and linear guideways.
- Use high-precision paired angular contact bearings for support ends.



- The ball screw is assembled in three-point concentric mode to reduce the impact of movement orientation changes on the precision.

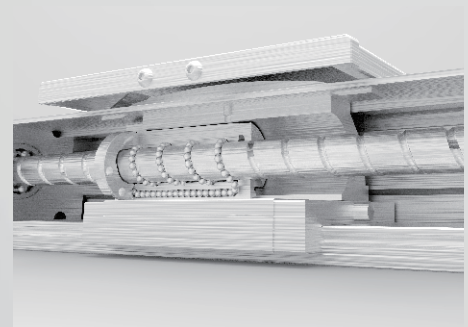


Efficient

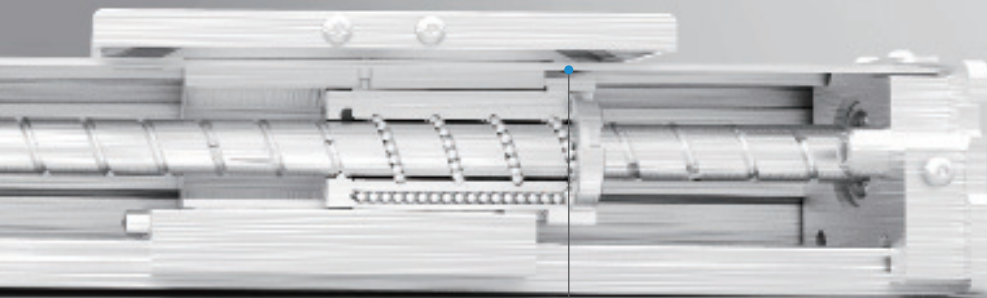


Speed up to 2 m/s

- A high-performance servo motor is equipped, offering a rated speed of 3,000 r/min and a peak speed of 6,000 r/min.
- The support structure is improved to enhance the transmission shaft stiffness, significantly increasing the critical speed threshold by up to 25% for long travels.
- The ball screw lead can reach up to 40 mm and the DN value can reach up to 140,000.



- The high-stiffness structural design effectively prevents installation errors.



Steel balls are strictly selected, effectively controlling clearance for ball screws.

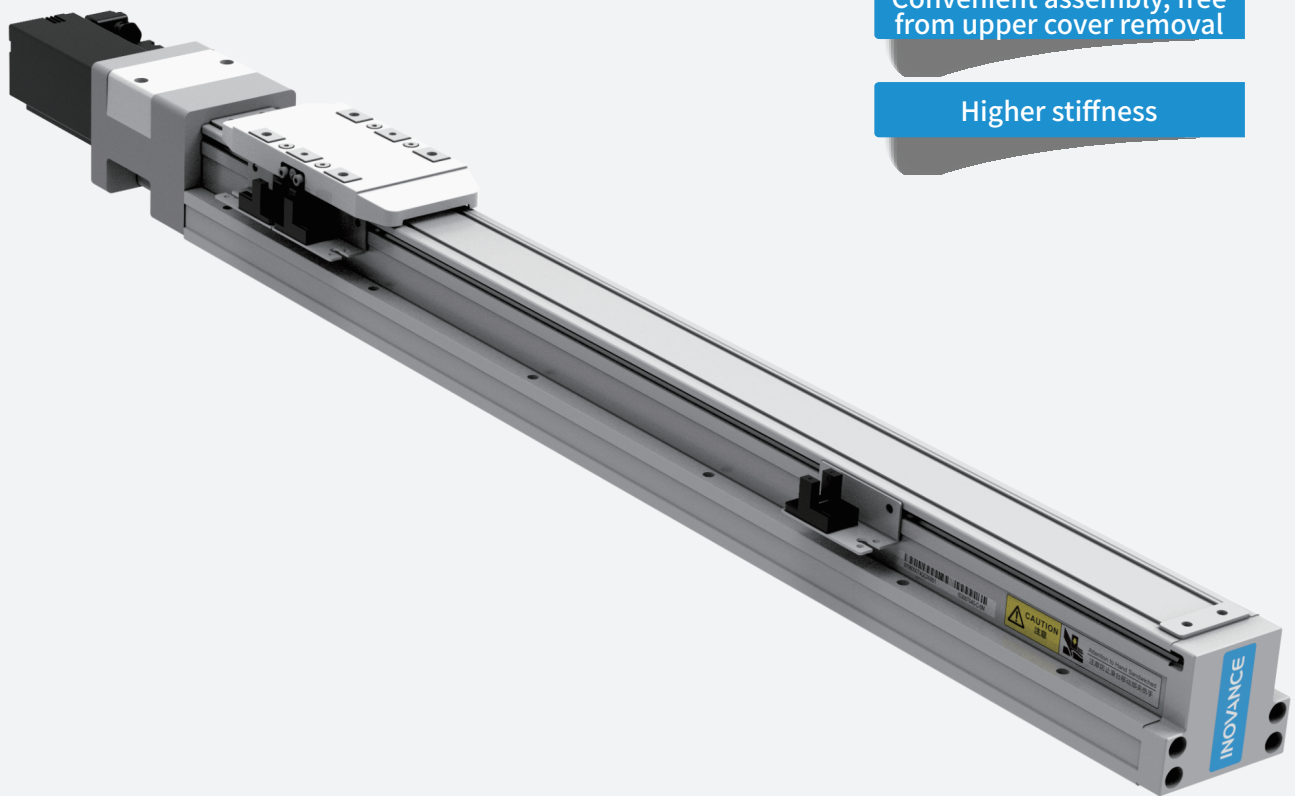


Speed up to 2 m/s

- A high-performance servo motor is equipped, with the rated torque up to 2.39 N·m. This shortens the motion duration and enhances the motion efficiency.

Track-Embedded Lead Screw-Driven Electric Cylinder

Track-Embedded, Large Improvement of Straightness at Equal Height



Travel up to 1,250 mm

Repeatability of ± 0.01 mm

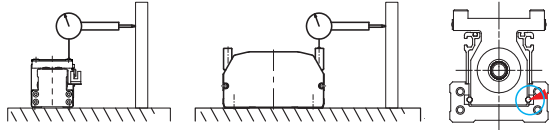
Convenient assembly, free from upper cover removal

Higher stiffness

Track-Embedded Lead Screw-Driven GS Series

Straightness at equal height

After the track is embedded into the body and ground, the traveling straightness at equal height can reach ± 0.02 mm.

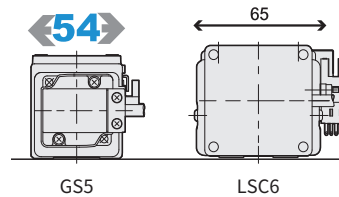


GS5 straightness ± 0.02 mm
* With the travel of 800 mm

LS10 straightness ± 0.05 mm
* With the travel of 1,000 mm

Smaller size

The reduced width allows for a smaller installation space for the equipment.



* Comparison with the LS series with a 30 kg load under same conditions

Enhanced stiffness

Steel for the integrated structure of the body and slide rest addresses the issue of poor stiffness in the original aluminum slide rest.

Special steel belt design, resistant to dust generation

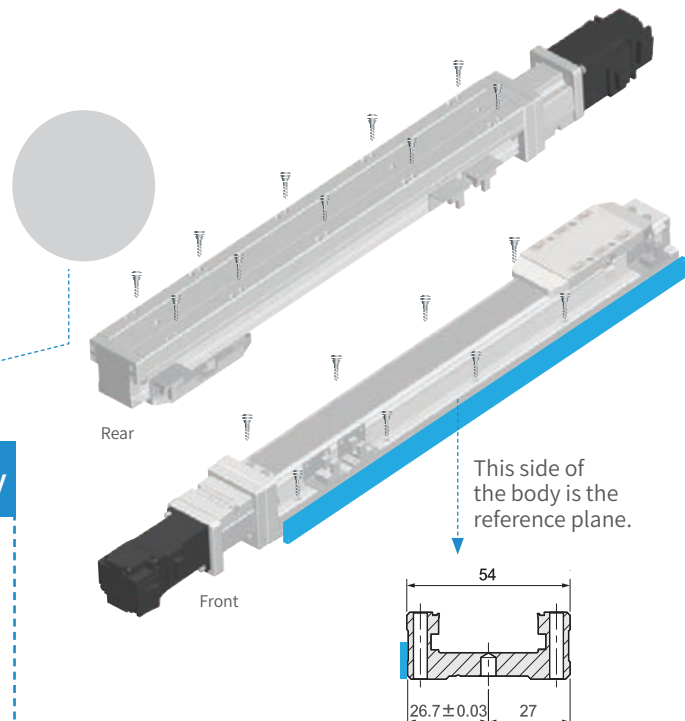
The special steel belt structure design reduces dust generation. It is available in clean rooms.

Easy maintenance

All series allow for external oiling, without the need to remove the cover.

Time-saving and convenient assembly

- ① The cylinder can be fixed from top to bottom or bottom to top, without the need to remove the steel belts.
- ② An additional mounting reference plane is available on the side of the body.
- ③ Positioning pin holes are provided at the bottom of the body.



Lead Screw Electric Cylinder with Steel Base

U-Shape Steel Base Track, High Stiffness Without Deformation

Travel up to 940 mm

Repeatability of ± 0.003 mm

Convenient assembly

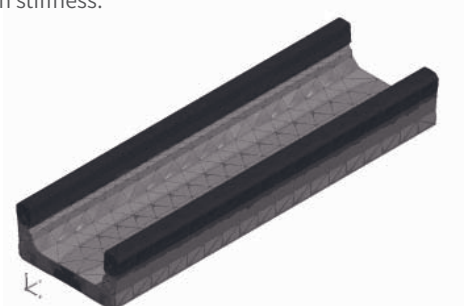
High stiffness without deformation



Lead Screw Electric Cylinder with Steel Base of KS Series

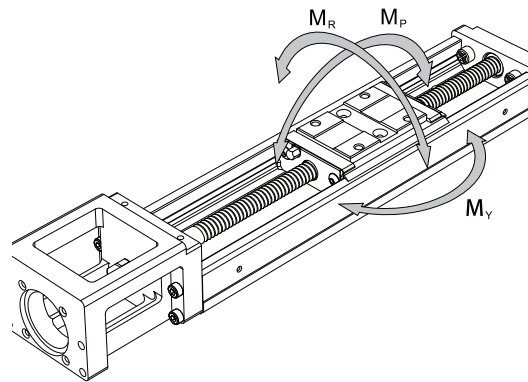
High stiffness

The FEM-based U-shaped track cross-section design achieves the best balance between lightweight and high stiffness.



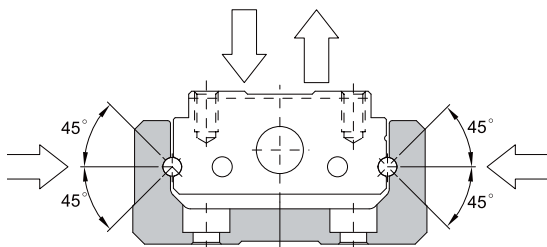
High precision

The U-shape steel ball rolling surface is designed with two rows of Gothic arches and a 45° contact angle, which minimizes deformation caused by varying loads. This provides stable and smooth operation, meeting the high precision requirements.



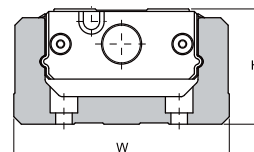
Four-directional equal load distribution

The U-shape steel ball rolling surface is designed with two rows of Gothic arches and a 45° contact angle, which offers four-directional load capability suitable for any installation orientation.



Space efficiency

Integrating the linear guideway slider with the ball screw nut into a slider nut optimizes space utilization in the steel-based sliding tables.



Model	H	W
KS60	30	60
KS86	46	86

Model Selection for Electric Cylinder Series

LS Series (Standard Ball Screw Sliding Table Electric Cylinder)



Model		LS Series (Standard Ball Screw Sliding Table Electric Cylinder)									
		LS12	LS13	LS14	LS17		LS17M		LS22	LS22M	LS27
Repeatability (mm)		±0.01									
Motor (W)		100	400	400	400	750	400	750	750	750	1,500
Lead (mm)		5/10/20/32	5/10/20/32	5/10/20/32	5/10/20/40		5/10/20/40		5/10/25/50	5/10/25/50	10/20/32
Max. Speed (mm/s)		250/500/ 1,000/1,600	250/500/ 1,000/1,600	250/500/ 1,000/1,600	250/500/ 1,000/2,000		200/400/ 800/1,600		250/500/ 1,250/2,500	200/400/ 1,000/2,000	333/666/1,066
Load	Horizontal (kg)	50/30/ 18/5	70/47/ 24/13	110/88/ 40/30	120/110/ 75/22	120/110/ 83/43	110/90/ 40/16	120/95/ 50/35	150/150/ 70/18	130/130/ 52/14	320/180/75
	Vertical (kg)	12/8/3/-	17/12/6/-	33/22/10/8	40/30/14/7	50/40/25/12	33/22/10/7	40/25/15/12	55/45/20/8	50/40/17/6	150/75/35
Effective Travel (mm)		50 to 1,050	50 to 1,050	50 to 1,050	50 to 1,250		800 to 2,200		50 to 1,500	850 to 2,400	50 to 1,950

LSC Series (Dust Free Ball Screw Sliding Table Electric Cylinder)



Model		LSC Series (Dust Free Ball Screw Sliding Table Electric Cylinder)			
		LSC12	LSC14	LSC17	
Repeatability (mm)		±0.01			
Motor (W)		100	400	400	750
Lead (mm)		5/10/20/32	5/10/20/32	5/10/20/40	5/10/20/40
Max. Speed (mm/s)		250/500/1,000/1,600	250/500/1,000/1,600	250/500/1,000/2,000	250/500/1,000/2,000
Load	Horizontal (kg)	50/30/18/5	110/88/40/30	120/110/75/22	120/120/83/43
	Vertical (kg)	12/8/3	33/22/10/8	40/30/14/7	50/40/25/12
Effective Travel (mm)		50 to 1,050	50 to 1,050	50 to 1,250	50 to 1,250

LB Series (Standard Belt-Driven Sliding Table Electric Cylinder)



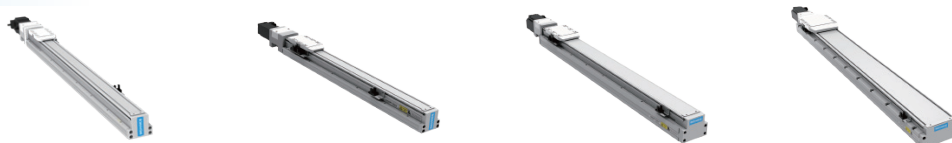
Model	LB Series (Standard Belt-Driven Sliding Table Electric Cylinder)			
	LB11	LB14H	LB17H	LB22H
Repeatability (mm)	±0.04			
Motor (W)	200	200	400	750
Lead (mm)	40	40	40	40
Max. Speed (mm/s)	2,000	2,000	2,000	2,000
Load	Horizontal (kg)	20	25	45
	Vertical (kg)	-	-	-
Effective Travel (mm)	50 to 2,600	50 to 3,050	50 to 3,050	50 to 3,050

LBC Series (Dust Free Belt-Driven Sliding Table Electric Cylinder)



Model	LBC Series (Dust Free Belt-Driven Sliding Table Electric Cylinder)	
	LBC14	LBC17
Repeatability (mm)	±0.04	
Motor (W)	200	400
Lead (mm)	40	40
Max. Speed (mm/s)	2,000	2,000
Load	Horizontal (kg)	25
	Vertical (kg)	45
Effective Travel (mm)	50 to 2,800	50 to 2,800

GS Series (Track-Embedded Ball Screw Sliding Table Electric Cylinder)



Model	GS Series (Track-Embedded Ball Screw Sliding Table Electric Cylinder)			
	GS4	GS5	GS8	GS12
Repeatability (mm)	±0.01			
Motor (W)	50	100	400	400
Lead (mm)	2/6/10	5/10/20	5/10/20	5/10/20/32
Max. Speed (mm/s)	100/250/300	250/500/1,000	250/500/1,000	250/500/1,000/1,600
Load	Horizontal (kg)	25/20/12	30/15/10	110/88/40/30
	Vertical (kg)	8/8/3.5	10/5/2.5	33/22/10/8
Effective Travel (mm)	50 to 800	50 to 800	50 to 1,050	50 to 1,250

GY Series (Track-Embedded Rod-Type Ball Screw Sliding Table Electric Cylinder)



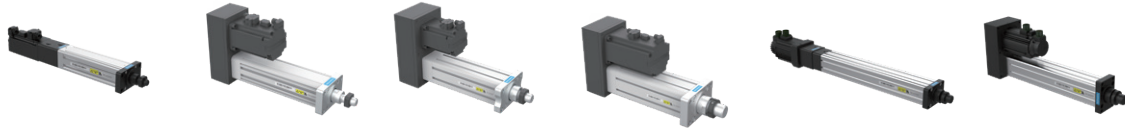
Model	GY Series (Track-Embedded Rod-Type Ball Screw Sliding Table Electric Cylinder)	
	GY5	GY8
Repeatability (mm)	±0.01	
Motor (W)	100	200
Lead (mm)	2/5/10/20	5/10/20
Max. Speed (mm/s)	100/250/500/1,000	250/500/1,000
Load	Horizontal (kg)	30/30/15/10
	Vertical (kg)	10/10/5/2.5
Effective Travel (mm)	50 to 600	50 to 800

LEB Series (European Standard Belt-Driven Sliding Table Electric Cylinder)



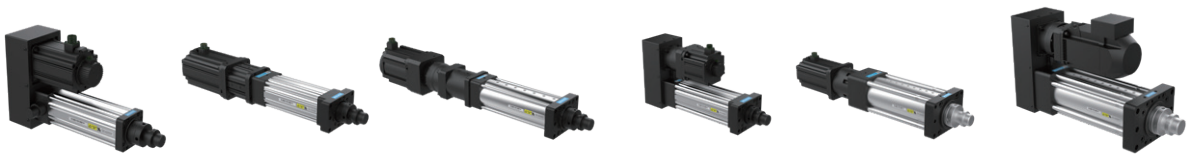
Model	LEB Series (European Standard Belt-Driven Sliding Table Electric Cylinder)		
	LEB65	LEB85	LEB110
Repeatability (mm)	±0.01		
Motor (W)	400	750	750
Lead (mm)	110	200	250
Max. Speed (mm/s)	1,833/1,100/785/550	2,000/1,428/1,000	1,250/833/625
Load	Horizontal (kg)	30/45/55/60	40/60/100
	Vertical (kg)	9/15/16/17	14/21/24
Reduction Ratio	3:1/5:1/7:1/10:1	5:1/7:1/10:1	10:1/15:1/20:1
Effective Travel (mm)	100 to 3,000	100 to 5,000	100 to 4,800

LY (Linear Cylinder)



Model	LY (Linear Cylinder)											
	LY40		LY50		LY65		LY75		LY80		LY94	
Repeatability (mm)	±0.02											
Motor (W)	50	100	200	400	400	750	400	750	750	1,500	1,000	1,500
Lead (mm)	4/5	4/5	5/10	5/10	5/10	5/10	5/10/20	5/10/20	5/10/25	5/10/25	5/10/20/32	5/10/20/32
Max. Speed (mm/s)	200/250	200/250	250/500	250/500	250/500	250/500	250/500/1,000	250/500/1,000	250/500/1,250	250/500/1,250	250/500/1,000/1,600	250/500/1,000/1,600
Load (kg)	21/17	42/34	68/34	136/68	135/68	255/128	135/67/33	255/128/64	255/128/51	530/261/104	340/170/84	523/261/130/82
Reduction Ratio	1:1/1.5:1/2:1 (timing pulley)		1:1/1.5:1/2:1 (timing pulley)		1:1/1.5:1/2:1 (timing pulley)		1:1/1.5:1/2:1 (timing pulley)		Frame size 60/90/115 (Reducer)		Frame size 90/115/142 (Reducer)	
Effective Travel (mm)	50 to 300		50 to 350		50 to 450		50 to 600		50 to 750		50 to 950	

LY (Linear Cylinder)



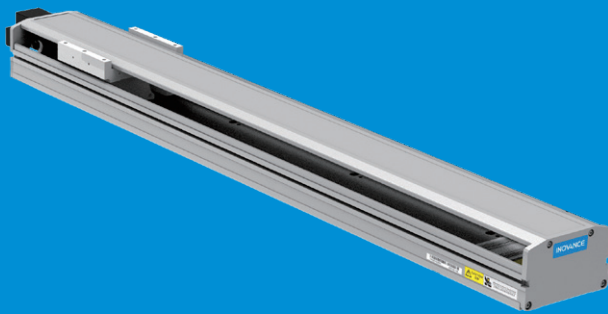
Model	LY (Linear Cylinder)											
	LY110		LY135		LY140		LY160		LY180		LY245	
Repeatability (mm)	±0.02											
Motor (W)	1,800	7,500	1,800	7,500	7,500	11,800	7,500	14,500	7,500	18,100	7,500	27,000
Lead (mm)	5/10/20/40	5/10/20/40	10/20	10/20	10/20	10/20	20	20	20	20	20	20
Max. Speed (mm/s)	125/250/500/1,000	125/250/500/1,000	250/500	250/500	250/500	250/500	500	500	500	500	500	500
Load (kg)	1,227/613/307/153	5,120/2,562/1,281/640	610/306	2,562/1,300	2,526/1,281	4,003/2,002	1,281	2,460	1,281	3,070	1,281	4,800
Reduction Ratio	Frame size 90/115/142 (Reducer)		Frame size 115/142 (Reducer)		Frame size 115/142/180 (Reducer)		Frame size 142/180 (Reducer)		Frame size 142/180/220 (Reducer)		Frame size 180/220 (Reducer)	
Effective Travel (mm)	50 to 1,200		50 to 1,500		50 to 1,500		50 to 1,800		50 to 1,800		50 to 2,400	

Electric Cylinder Series

LS Series

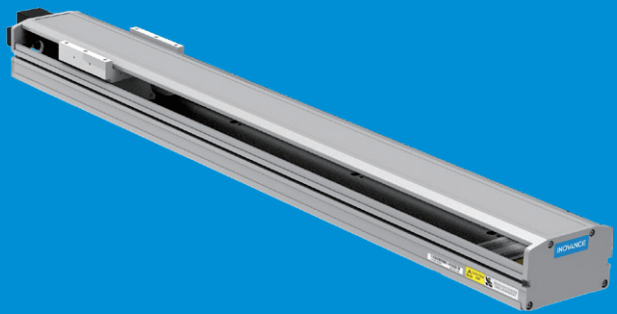
General Environment/Standard Ball
Screw and Lead Screw Electric Cylinder

Medium LS12



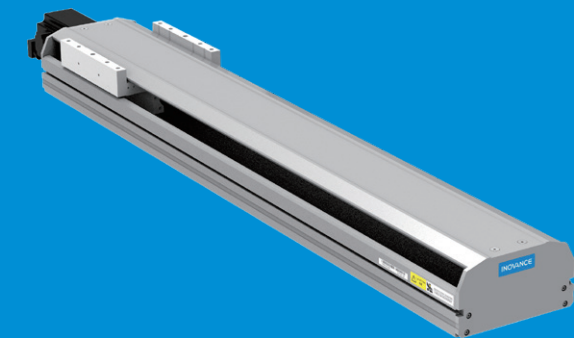
Body width: 102 mm
Maximum travel: 1,050 mm
Repeatability: ± 0.01

Medium LS13



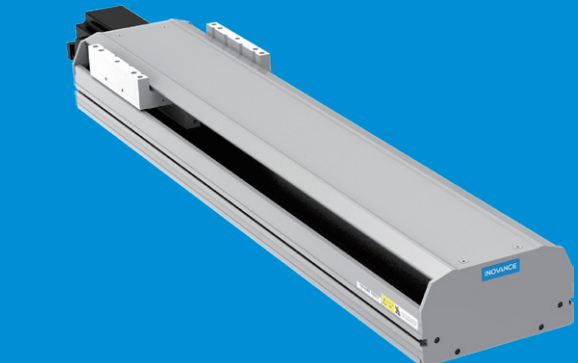
Body width: 135 mm
Maximum travel: 1,050 mm
Repeatability: ± 0.01

Medium LS14



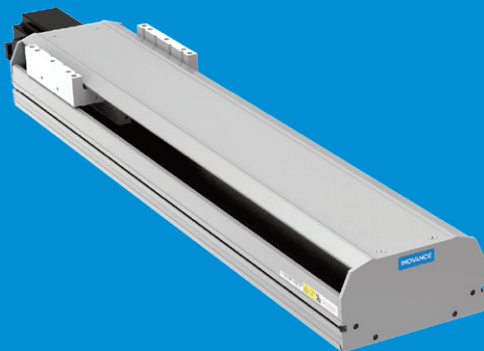
Body width: 135 mm
Maximum travel: 1,050 mm
Repeatability: ± 0.01

Large LS17



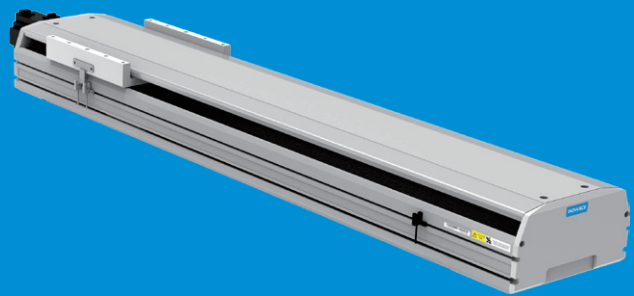
Body width: 170 mm
Maximum travel: 1,250 mm
Repeatability: ± 0.01

Large LS17M



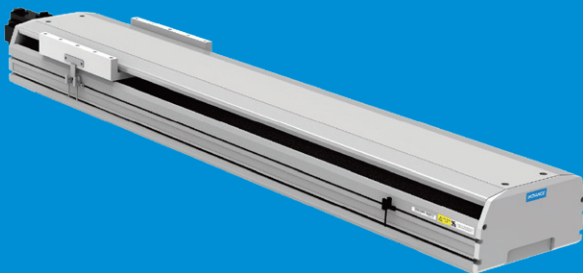
Body width: 170 mm
Maximum travel: 2,200 mm
Repeatability: ± 0.01

Large LS22



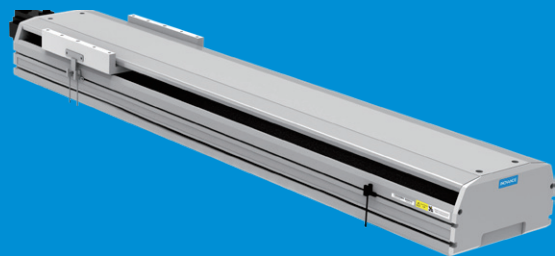
Body width: 220 mm
Maximum travel: 1,500 mm
Repeatability: ± 0.01

Large LS22M



Body width: 220 mm
Maximum travel: 2,400 mm
Repeatability: ± 0.01

Large LS27



Body width: 270 mm
Maximum travel: 1,950 mm
Repeatability: ± 0.01

Specifications Index - Standard Ball Screw Sliding Table Electric Cylinder

Working Environment	Transmission Mode	Specification	Motor Power	Body Width	Repeatability	Lead Screw Specification		Max. Load Capacity	
						Outer Diameter	Lead	Horizontal Axis	Vertical Axis
General environment	Ball screw	LS12	100 W	102	± 0.01	16	5	50	12
							10	30	8
							20	18	3
							32	5	-
		LS13	400 W	135	± 0.01	16	5	70	17
							10	47	12
							20	24	6
							32	13	-
		LS14	400 W	135	± 0.01	16	5	110	33
							10	88	22
							20	40	10
							32	30	8
		LS17	400 W	170	± 0.01	20	5	120	40
							10	110	30
							20	75	14
							40	22	7
			750 W	170	± 0.01	20	5	120	50
							10	110	40
							20	83	25
							40	43	12
		LS22	750 W	220	± 0.01	25	5	150	55
							10	150	45
							25	70	20
							50	18	8
						32	5	130	40
							10	100	15
							20	25	7
							32	10	/
						40	5	200	100
							10	200	80
							20	170	50
							40	130	30

Working Environment	Transmission Mode	Specification	Motor Power	Body Width	Repeatability	Lead Screw Specification		Max. Load Capacity	
						Outer Diameter	Lead	Horizontal Axis	Vertical Axis
General environment	Ball screw	LS27	1,500 W	270	± 0.01	32	10	320	150
							20	180	75
							32	75	35

Working Environment	Transmission Mode	Specification	Motor Power	Body Width	Repeatability	Lead Screw Specification		Max. Load Capacity	
						Outer Diameter	Lead	Horizontal Axis	Vertical Axis
General environment	Ball screw	LS17M	400 W	170	± 0.01	20	5	110	33
							10	90	22
							20	40	10
							40	16	7
			750 W	170	± 0.01	20	5	120	40
							10	95	25
							20	50	15
							40	35	12
		LS22M	750 W	220	± 0.01	25	5	130	50
							10	130	40
							25	52	17
							50	14	6
						32	5	130	50
							10	130	40
							20	60	20
							32	35	12

Specification	Max. Speed ^{*1}	Standard Travel and Max. Operating Speed ^{*2}																												
		50	200	300	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500			
LS12	250	250												225	200	175	150	125	100											
	500	500												450	400	350	300	250	200											
	1,000	1,000												900	800	700	600	500	400											
	1,600	1,600												1,440	1,280	1,120	960	800	640											
LS13	250	250												225	200	175	150	125	100											
	500	500												450	400	350	300	250	200											
	1,000	1,000												900	800	700	600	500	400											
	1,600	1,600												1,440	1,280	1,120	960	800	640											
LS14	250	250												225	200	175	150	125	100											
	500	500												450	400	350	300	250	200											
	1,000	1,000												900	800	700	600	500	400											
	1,600	1,600												1,440	1,280	1,120	960	800	640											
LS17	250	250												225				200		175		150								
	500	500												450				400		350		300								
	1,000	1,000												900				800		700		600								
	2,000	2,000												1,800				1,600		1,400		1,200								
	250	250												225				200		175		150								
	500	500												450				400		350		300								
	1,000	1,000												900				800		700		600								
	2,000	2,000												1,800				1,600		1,400		1,200								
LS22	250	250												225				200		175		150				125		100		
	500	500												450				400		350		300				250		200		
	1,250	1,250												1,125				800		700		600				500		400		
	2,500	2,500												2,500				2,250		2,000		1,750				1,500		1,250		
	180	180												180				170		140		125				110		110		
	360	360												360				320		280		245				220		200		
	720	720												720				640		560		495				430		390		
	1,160	1,160												1,160				1,020		900		800				710		630		
	250	250												225				200		175		150				125		100		
	500	500												450				400		350		300				250		200		
	1,000	1,000												900				800		700		600				500		400		
	2,000	2,000												1,800				1,600		1,400		1,200		1,000		800		600		
Specification	Max. Speed ^{*1}	Standard Travel and Max. Operating Speed ^{*2}																												
		500	600	700	800	900	1,000	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950							
LS27	333	333												300		266		233		200		167		133		100				
	666	666												599		533		466		400		333		266		200				
	1,066	1,066												959		853		746		640		533		426		320				

Note 1: The maximum speed (mm/s) is set based on the rated speed of 3,000 rpm of the servo motor.

Note 2: Black numbers in the standard travel columns indicate the maximum safe speeds for corresponding travels. Exceeding the maximum speeds may cause severe resonance in the sliding table.

Speed

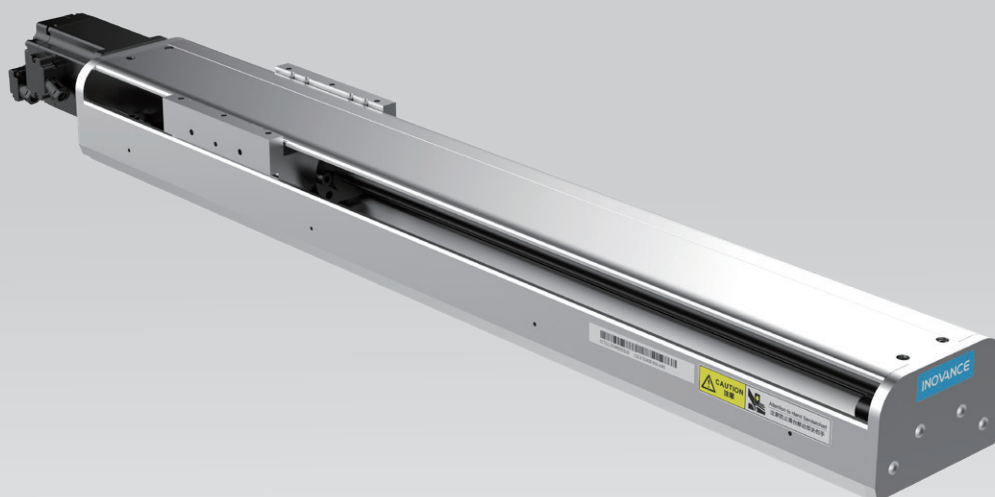
Specification	Max. Speed* ¹	Standard Travel and Max. Operating Speed* ²																											
		800	850	1,100	1,200	1,300	1,400	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400					
LS17M	200	200						175						150						125									
	400	400						350						300						250									
	800	800						700						600						500									
	1600	1,600						1,400						1,200						1,000									
	200	200						175						150						125									
	400	400						350						300						250									
	800	800						700						600						500									
	1600	1,600						1,400						1,200						1,000									
LS22M	200	200										175										150							
	400	400										350										300							
	1000	1,000										900										800							
	2000	2,000										1,800										1,600							
	200	200										175										150							
	400	400										350										300							
	800	800										700										600							
	1280	1,280										1,120										960							

Note 1: The maximum speed (mm/s) is based on the rated speed of 2,400 rpm of the servo motor.

Note 2: Black numbers in the standard travel columns indicate the maximum safe speeds for corresponding travels. Exceeding the maximum speeds may cause severe resonance in the sliding table.

Speed

LS 12

Standard Ball Screw Sliding
Table Electric Cylinder

Max. travel 1,050 mm

Max. speed 1,600 mm/s

Motor power 100 W

Ball screw ø16 mm

Linear slide rail 12 x 7.5 - 2

Model Description

L S 12 - 10 R 600 - N 3 - 10 B - VP - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

① Series number L	⑤ Motor position S: Direct connected D: Connected down L: Connected on the left R: Connected on the right	⑧ Sensor quantity N: No sensor 1: 1 2: 2 3: 3
② Cylinder type S: Lead screw semi-closed		⑨ Motor power 10: 100 W
③ Width 12: 102 mm	⑥ Travel 50 mm to 1,050 mm Interval of 50 mm	⑩ Brake None: No brake B: Brake
④ Lead 5: 5 mm 10: 10 mm 20: 20 mm 32: 32 mm		⑪ Drive type VP: Standard SV660P drive VN: Standard SV660N drive
	⑦ Sensor type N: NPN sensor P: PNP sensor	⑫ Customization

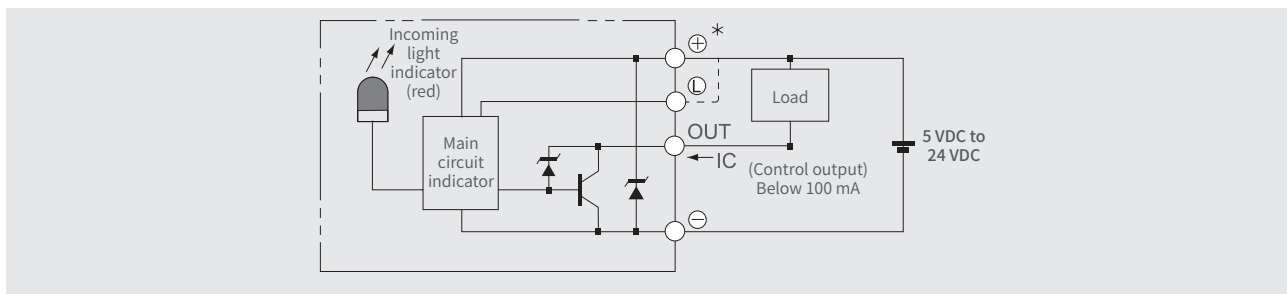
Basic Parameters

Item		Specification			
Repeatability (mm)		± 0.01			
Screw Lead (mm)		5	10	20	32
Max. Speed (mm/s)		250	500	1,000	1,600
Max. Load Capacity	Horizontal Axis (kg) ^(Note 2)	50	30	18	5
	Vertical Axis (kg)	12	8	3	-
Rated Force (N)		341	170	85	53
Standard Travel (mm)		50 mm to 1,050 mm, with an interval of 50 mm			
Power of AC Servo Motor (W)		100			
Ball Screw Outer Diameter		C7 Φ 16			
High-Stiffness Linear Slide Rail (mm)		W12 x H7.5			
Coupling		10 x 8			
Origin Sensor	External	SGT-NH(NPN)/SGT-PH(PNP)			

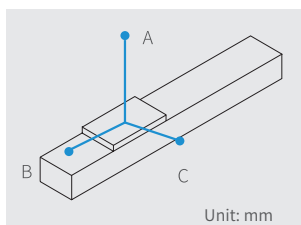
Note: When the travel exceeds 750, the lead screw may deflect. In this case, reduce the speed.

Note: The motor acceleration/deceleration is set to 0.2s.

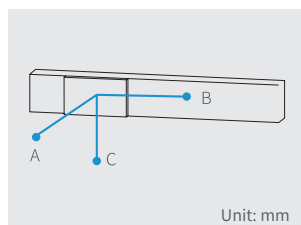
Sensor Connection Diagram



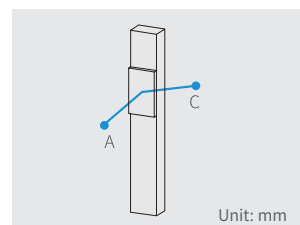
Permissible Load Torque



Horizontal Mounting		A	B	C
Lead 5	30 kg	882	65	78
	40 kg	606	43	51
	50 kg	437	29	35
Lead 10	15 kg	875	138	157
	25 kg	485	73	83
	30 kg	386	56	64
Lead 20	5 kg	1,160	384	396
	10 kg	561	180	181
	18 kg	288	88	89
Lead 32	3 kg	822	444	385
	5 kg	492	255	224
		-	-	-

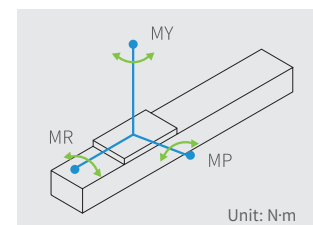


Backplate Mounting		A	B	C
Lead 5	25 kg	100	84	1,102
	35 kg	63	52	725
	50 kg	35	29	433
	10 kg	250	211	1,311
Lead 10	20 kg	110	97	633
	30 kg	64	56	384
	8 kg	347	316	955
	12 kg	147	144	455
Lead 20	18 kg	89	88	288
	2 kg	591	682	1,256
Lead 32	5 kg	224	225	488
		-	-	-



Vertical Mounting		A	C
Lead 5	5 kg	544	544
	8 kg	341	341
	12 kg	227	227
	4 g	606	606
Lead 10	8 kg	303	303
	-	-	-
	-	-	-
Lead 20	2 kg	961	961
	3 kg	639	639
	-	-	-

Static Allowable Load Inertia



MY	150
MP	150
MR	130

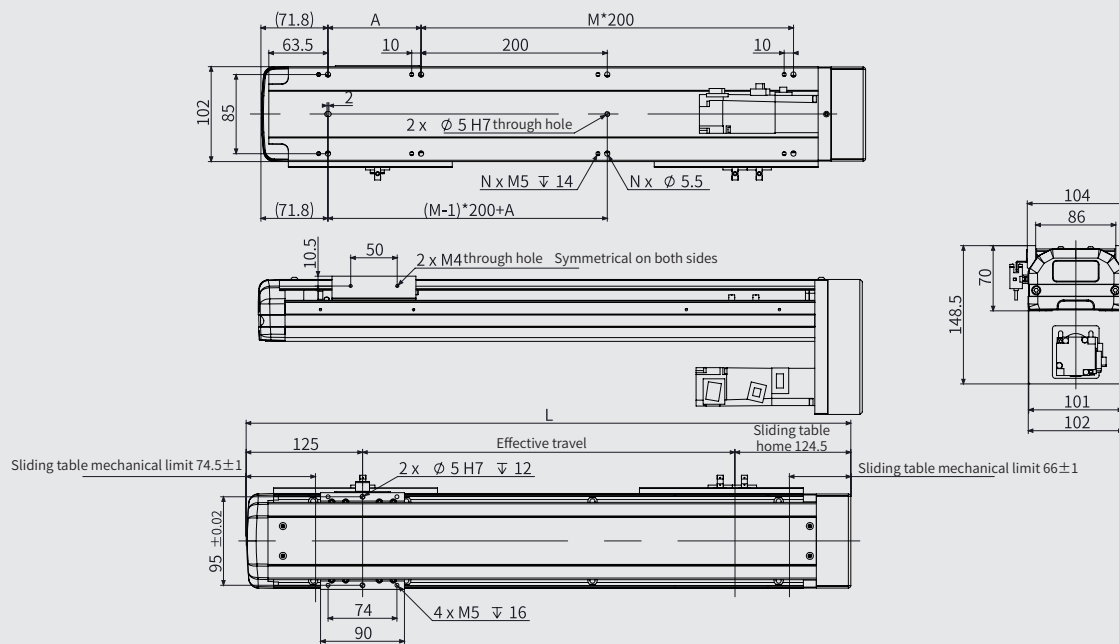
Data in the torque table specifies the maximum allowable offset distance of the gravity.

Under normal use in compliance with the specifications in the product catalogs, ensure that the lifetime is 10,000 km.

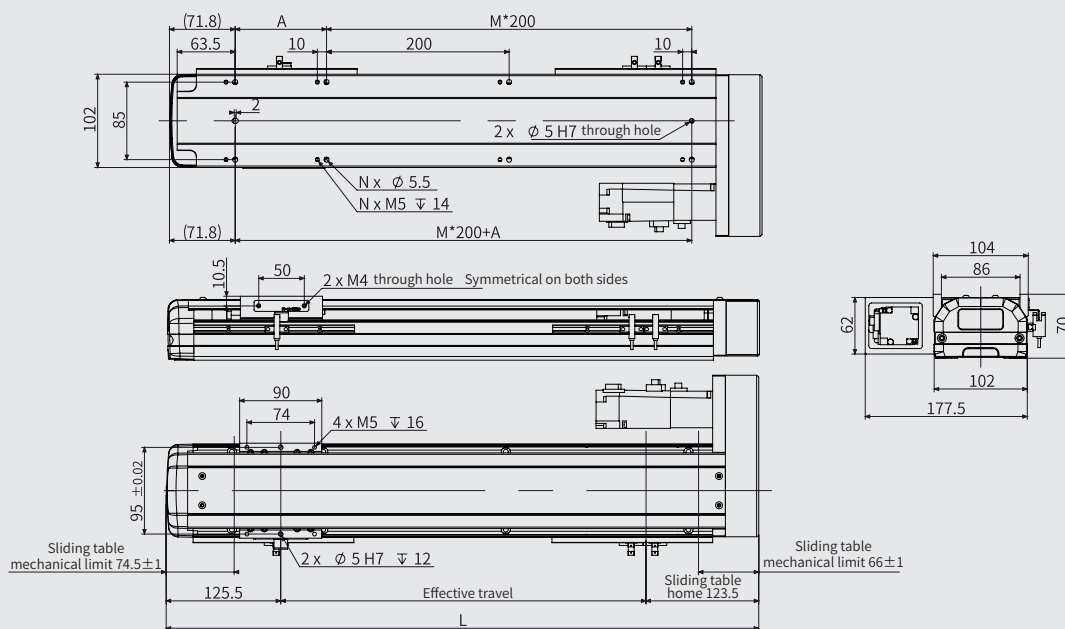
Inverted mounting fails to comply with the standard specifications. If required, contact our business personnel.

Travel

D	Motor Connected Down																				
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050
L	299.5	349.5	399.5	449.5	499.5	549.5	599.5	649.5	699.5	749.5	799.5	849.5	899.5	949.5	999.5	1,049.5	1,099.5	1,149.5	1,199.5	1,249.5	1,299.5
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
KG	5.66	6.05	6.44	6.83	7.22	7.61	8	8.39	8.78	9.17	9.56	9.95	10.34	10.73	11.12	11.51	11.9	12.29	12.68	13.07	13.46

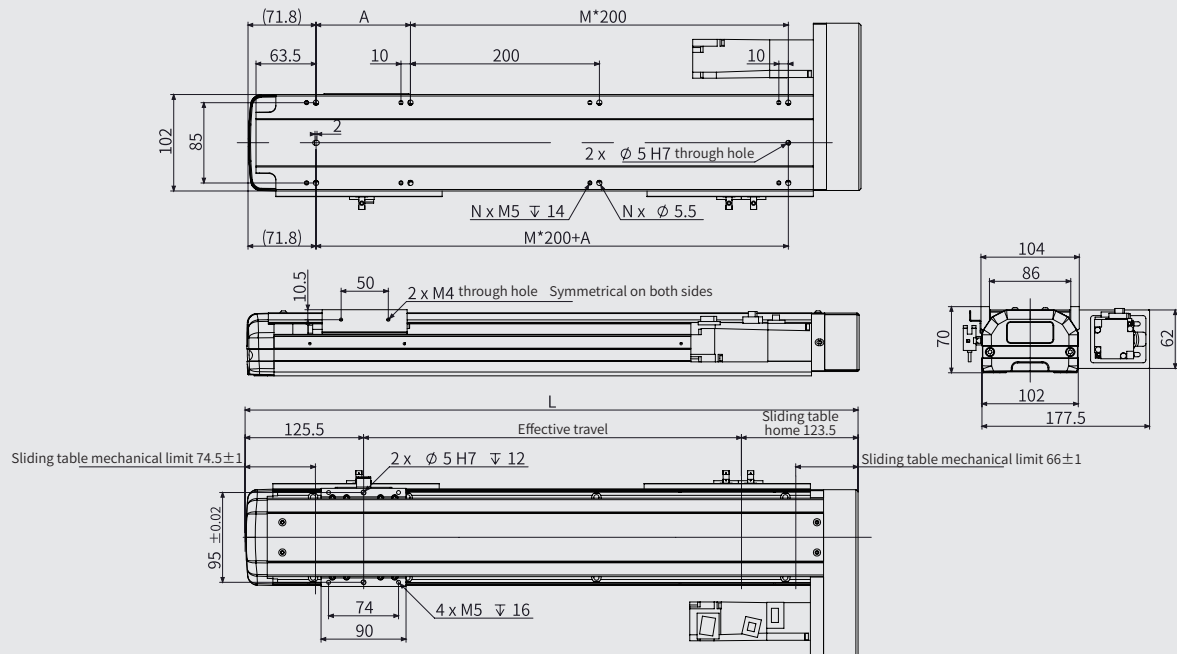


L	Motor Connected on the Left																					
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	
L	299	349	399	449	499	549	599	649	699	749	799	849	899	949	999	1,049	1,099	1,149	1,199	1,249	1,299	
A	150	200	50	100	150	200	50	100	150	200	50	100	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	
KG	5.66	6.05	6.44	6.83	7.22	7.61	8	8.39	8.78	9.17	9.56	9.95	10.34	10.73	11.12	11.51	11.9	12.29	12.68	13.07	13.46	

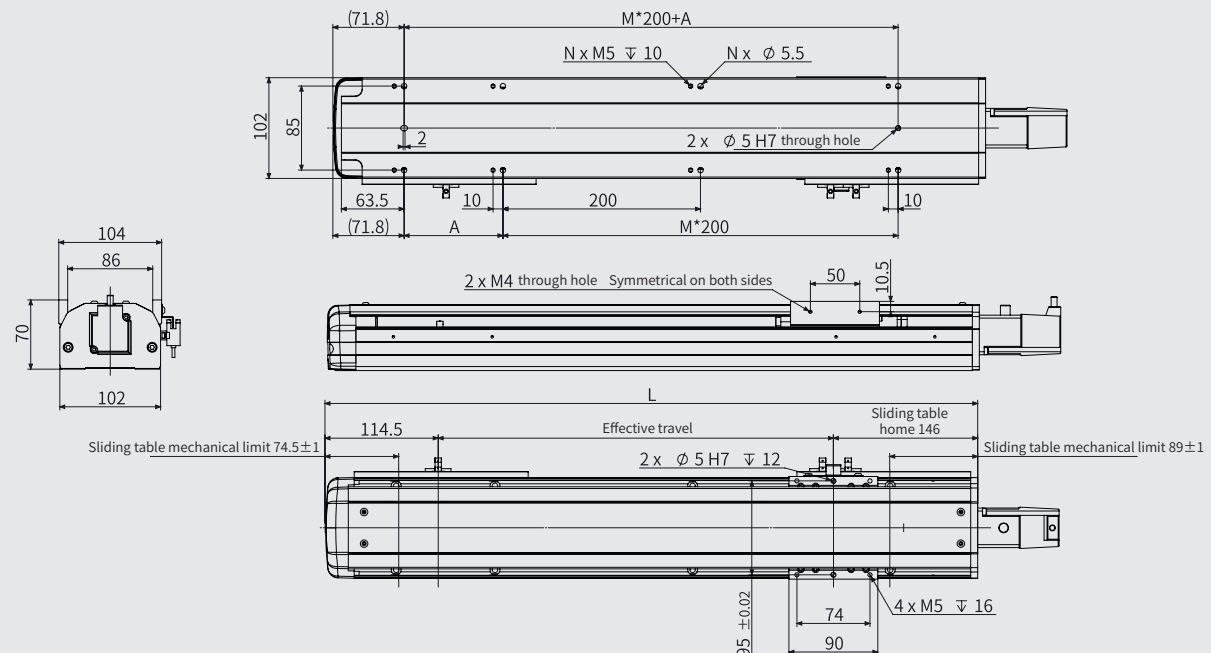


Travel

R	Motor Connected on the Right																				
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050
L	299	349	399	449	499	549	599	649	699	749	799	849	899	949	999	1,049	1,099	1,149	1,199	1,249	1,299
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
KG	5.66	6.05	6.44	6.83	7.22	7.61	8	8.39	8.78	9.17	9.56	9.95	10.34	10.73	11.12	11.51	11.9	12.29	12.68	13.07	13.46

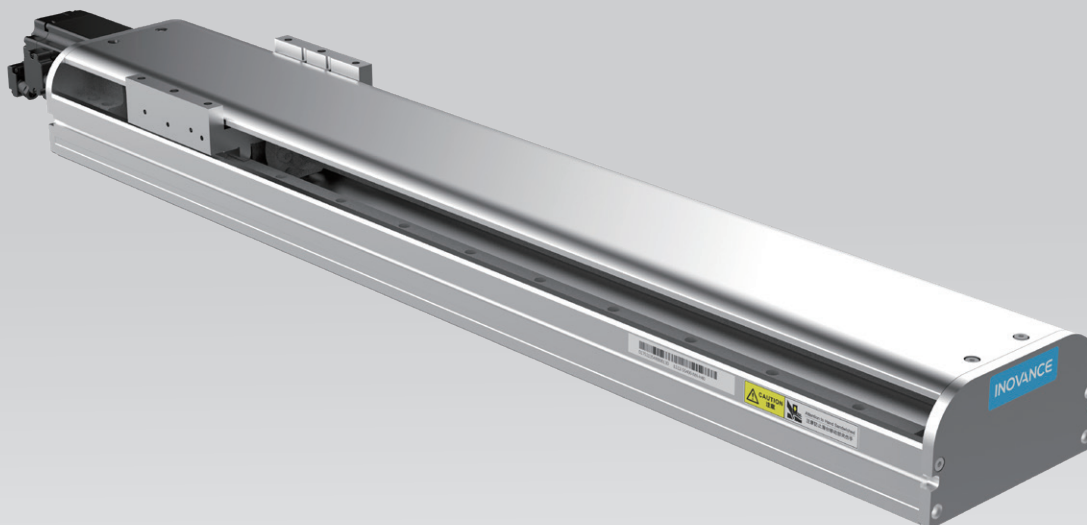


S	Motor Direct Connected																				
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050
L	310.5	360.5	410.5	460.5	510.5	560.5	610.5	660.5	710.5	760.5	810.5	860.5	910.5	960.5	1,010.5	1,060.5	1,110.5	1,160.5	1,210.5	1,260.5	1,310.5
A	150	200	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
KG	4.68	5.07	5.46	5.84	6.23	6.62	7.01	7.4	7.78	8.17	8.56	8.95	9.34	9.72	10.11	10.5	10.89	11.28	11.66	12.05	12.44



LS 13

Standard Ball Screw Sliding Table Electric Cylinder



Max. travel	1,050 mm	Max. speed	1,600 mm/s
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Motor power	400 W	Ball screw	ø16 mm	Linear slide rail	15 x 12.5 - 2
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Model Description

L S 13 - 10 R 600 - N 3 - 40 B - VP - XX
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

① Series number L	⑤ Motor position S: Direct connected D: Connected down L: Connected on the left R: Connected on the right	⑧ Sensor quantity N: No sensor 1: 1 2: 2 3: 3
② Cylinder type S: Lead screw semi-closed		⑨ Motor power 40: 400 W
③ Width 13: 135 mm	⑥ Travel 50 mm to 1,050 mm Interval of 50 mm	⑩ Brake None: No brake B: Brake
④ Lead 5: 5 mm 10: 10 mm 20: 20 mm 32: 32 mm		⑪ Drive type VP: Standard SV660P drive VN: Standard SV660N drive
	⑦ Sensor type N: NPN sensor P: PNP sensor	⑫ Customization

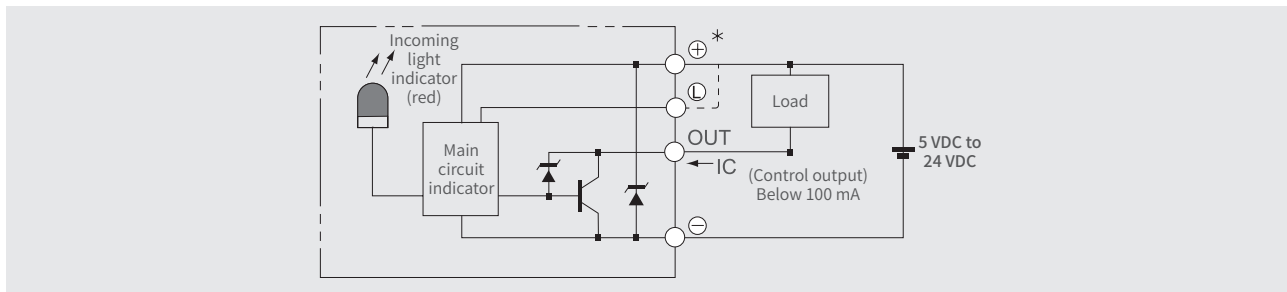
Basic Parameters

Item		Specification			
Repeatability (mm)		± 0.01			
Screw Lead (mm)		5	10	20	32
Max. Speed (mm/s)		250	500	1,000	1,600
Max. Load Capacity	Horizontal Axis (kg) ^(Note 2)	70	47	24	13
	Vertical Axis (kg)	17	12	6	-
Rated Force (N)		1,388	694	433	347
Standard Travel (mm)		50 mm to 1,050 mm, with an interval of 50 mm			
Power of AC Servo Motor (W)		400			
Ball Screw Outer Diameter		C7 Φ 16			
High-Stiffness Linear Slide Rail (mm)		W15 x H12.5			
Coupling		10 x 14			
Origin Sensor	External	SGT-NH(NPN)/SGT-PH(PNP)			

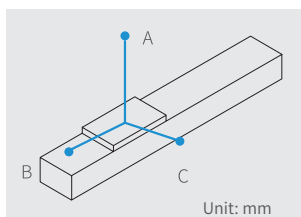
Note: When the travel exceeds 750, the lead screw may deflect. In this case, reduce the speed.

Note: The motor acceleration/deceleration is set to 0.2s.

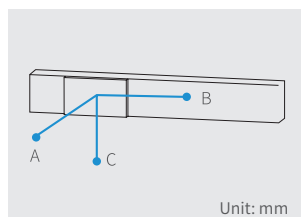
Sensor Connection Diagram



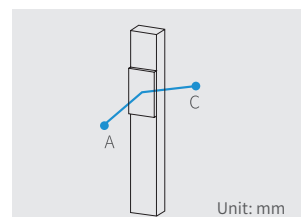
Permissible Load Torque



Horizontal Mounting		A	B	C
Lead 5	40 kg	795	63	225
	55 kg	558	43	155
	70 kg	422	32	115
Lead 10	25 kg	588	95	276
	35 kg	410	65	190
	47 kg	295	46	135
Lead 20	6 kg	1,068	355	710
	15 kg	416	136	275
	24 kg	252	81	166
Lead 32	7 kg	385	205	298
	13 kg	204	106	156
		-	-	-

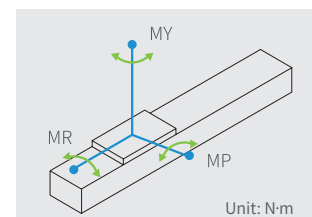


Backplate Mounting		A	B	C
Lead 5	30 kg	310	88	1,066
	50 kg	172	49	620
	70 kg	115	32	422
Lead 10	20 kg	351	122	743
	30 kg	225	78	484
	47 kg	135	46	294
Lead 20	5 kg	852	428	1,227
	12 kg	345	173	522
	24 kg	166	81	253
Lead 32	6 kg	350	240	453
	13 kg	155	106	204
		-	-	-



Vertical Mounting		A	C
Lead 5	5 kg	580	580
	11 kg	264	264
	17 kg	170	170
Lead 10	4 kg	644	644
	8 kg	322	322
	12 kg	215	215
Lead 20	3 kg	667	667
	6 kg	335	335
	-	-	-

Static Allowable Load Inertia



MY	174
MP	175
MR	153

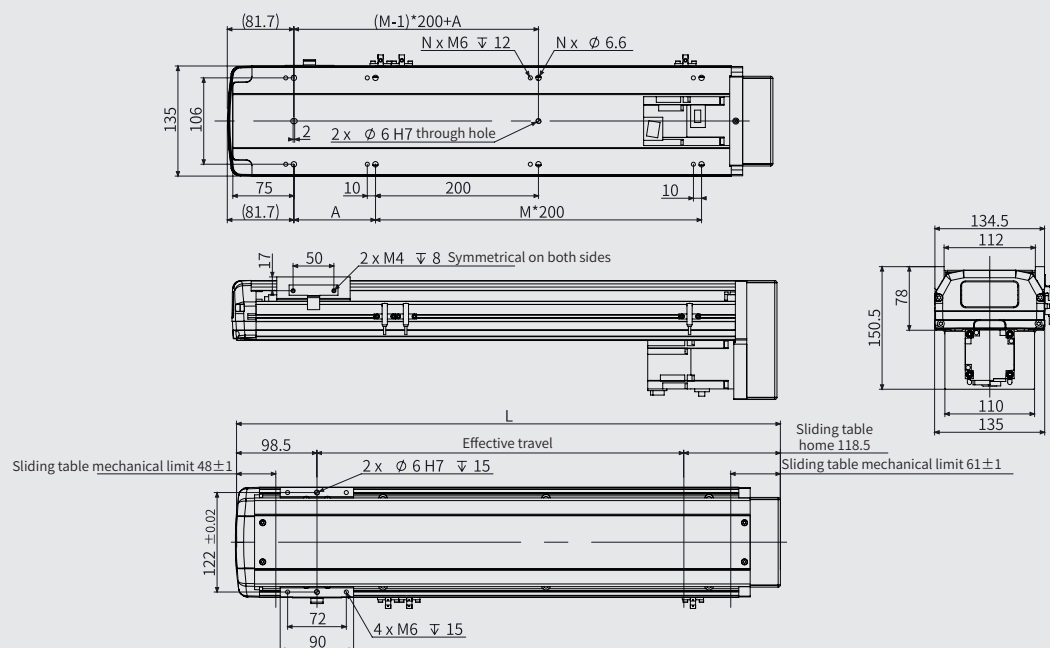
Data in the torque table specifies the maximum allowable offset distance of the gravity.

Under normal use in compliance with the specifications in the product catalogs, ensure that the lifetime is 10,000 km.

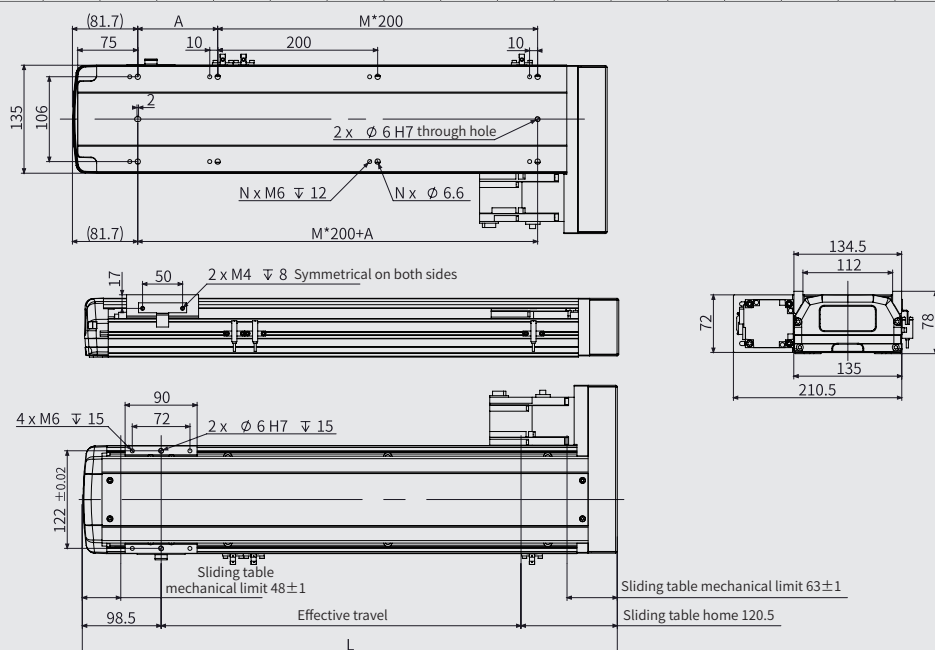
Inverted mounting fails to comply with the standard specifications. If required, contact our business personnel.

Travel

D	Motor Connected Down																				
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050
L	267	317	367	417	467	517	567	617	667	717	767	817	867	917	967	1,017	1,067	1,117	1,167	1,217	1,267
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
KG	7.94	8.5	9.06	9.62	10.18	10.74	11.3	11.86	12.42	12.98	13.54	14.1	14.66	15.22	15.78	16.34	16.9	17.46	18.02	18.58	19.14

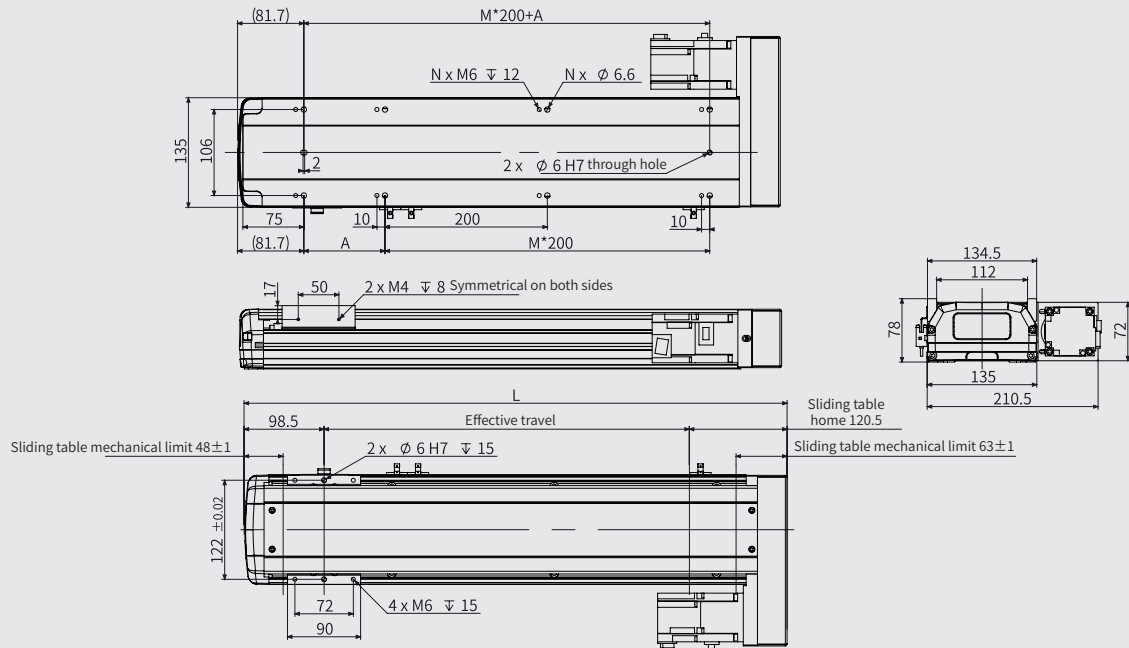


L	Motor Connected on the Left																					
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	
L	269	319	369	419	469	519	569	619	669	719	769	819	869	919	969	1,019	1,069	1,119	1,169	1,219	1,269	
A	100	150	200	50	100	150	200	50	100	150	200	50	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	
KG	7.94	8.5	9.06	9.62	10.18	10.74	11.3	11.86	12.42	12.98	13.54	14.1	14.66	15.22	15.78	16.34	16.9	17.46	18.02	18.58	19.14	

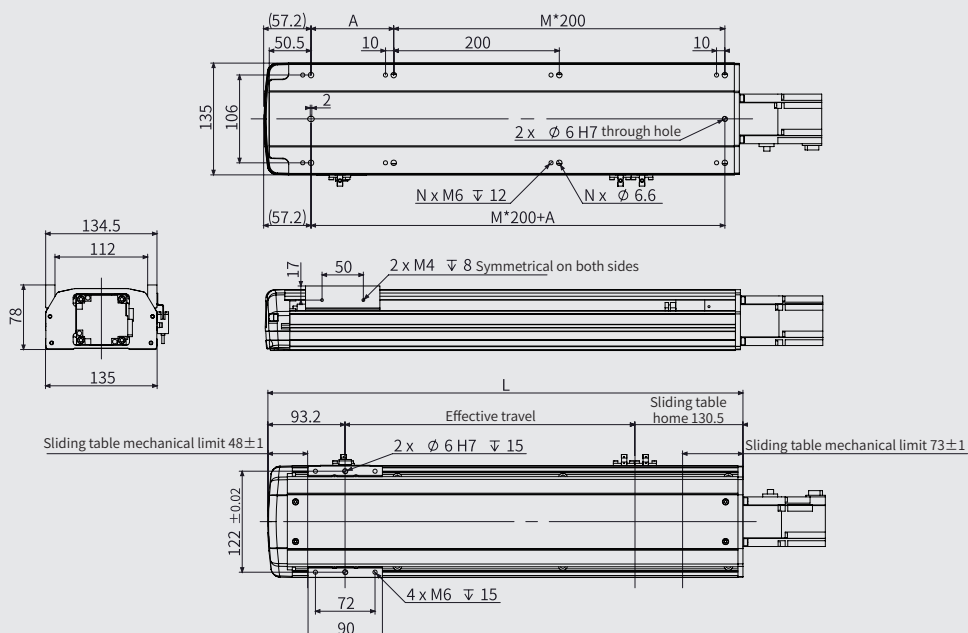


Travel

R	Motor Connected on the Right																				
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050
L	269	319	369	419	469	519	569	619	669	719	769	819	869	919	969	1,019	1,069	1,119	1,169	1,219	1,269
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
KG	7.94	8.5	9.06	9.62	10.18	10.74	11.3	11.86	12.42	12.98	13.54	14.1	14.66	15.22	15.78	16.34	16.9	17.46	18.02	18.58	19.14



S	Motor Direct Connected																				
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050
L	274	324	374	424	474	524	574	624	674	724	774	824	874	924	974	1,024	1,074	1,124	1,174	1,224	1,274
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
KG	7.4	7.96	8.52	9.08	9.64	10.2	10.76	11.32	11.88	12.44	13	13.56	14.12	14.68	15.24	15.8	16.36	16.92	17.48	18.04	18.6



LS 14

Standard Ball Screw Sliding Table Electric Cylinder



Max. travel 1,050 mm

Max. speed 1,600 mm/s

Motor power 400 W

Ball screw ø16 mm

Linear slide rail 15 x 12.5 - 2

Model Description

L S 14 - 10 R 600 - N 3 - 40 B - VP - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

① Series number L	⑤ Motor position S: Direct connected D: Connected down L: Connected on the left R: Connected on the right	⑧ Sensor quantity N: No sensor 1: 1 2: 2 3: 3
② Cylinder type S: Screw semi-closed		⑨ Motor power 40: 400 W
③ Width 14: 135 mm	⑥ Travel 50 mm to 1,050 mm Interval of 50 mm	⑩ Brake None: No brake B: Brake
④ Lead 5: 5 mm 10: 10 mm 20: 20 mm 32: 32 mm		⑪ Drive type VP: Standard SV660P drive VN: Standard SV660N drive
	⑦ Sensor type N: NPN sensor P: PNP sensor	⑫ Customization

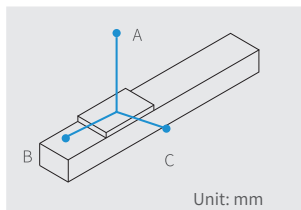
Basic Parameters

Item		Specification			
Repeatability (mm)		± 0.01			
Screw Lead (mm)		5	10	20	32
Max. Speed (mm/s)		250	500	1,000	1,600
Max. Load Capacity	Horizontal axis (kg)	110	88	40	30
	Vertical Axis (kg)	33	22	10	8
Rated Force (N)		1,388	694	347	218
Standard Travel (mm)		50 mm to 1,050 mm, with an interval of 50 mm			
Capacity of AC Servo Motor (W)		400			
Ball Screw Outer Diameter (mm)		C7 Φ 16			
High-Stiffness Linear Guideway (mm)		W15 x H12.5			
Coupling (mm)		10 x 14			
Origin Sensor	External	SGT-NH(NPN)/SGT-PH(PNP)			

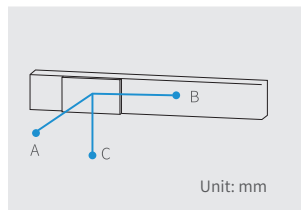
Note: When the travel exceeds 750, the lead screw may deflect. In this case, reduce the speed.

Note: The motor acceleration/deceleration is set to 0.2s.

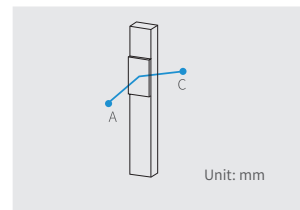
Permissible Load Torque



Horizontal Mounting		A	B	C
Lead 5	60 kg	2,512	242	232
	80 kg	1,811	172	164
	110 kg	1,284	114	108
Lead 10	30 kg	2,727	470	430
	50 kg	1,577	266	242
	88 kg	854	134	122
Lead 20	10 kg	2,304	1,222	1,028
	20 kg	1,443	540	451
	40 kg	860	277	233
Lead 32	15 kg	1,033	545	405
	25 kg	604	311	233
	30 kg	495	251	188

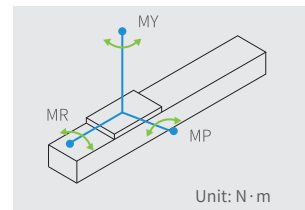


Backplate Mounting		A	B	C
Lead 5	55 kg	257	269	2,883
	75 kg	178	186	2,000
	110 kg	108	114	1,284
Lead 10	35 kg	363	395	2,368
	55 kg	218	238	1,445
	88 kg	123	134	845
Lead 20	12 kg	854	1,019	2,552
	20 kg	500	596	1,588
	40 kg	233	277	860
Lead 32	15 kg	405	545	1,033
	30 kg	188	251	495
	-	-	-	-



Vertical Mounting		A	C
Lead 5	15 kg	1,118	1,118
	22 kg	770	770
	33 kg	513	513
Lead 10	10 kg	1,500	1,500
	14 kg	1,072	1,072
	22 kg	682	682
Lead 20	7 kg	1,700	1,700
	10 kg	1,188	1,188
	-	-	-
Lead 32	5 kg	1,503	1,503
	8 kg	944	944
	-	-	-

Static Allowable Load Inertia



MY	551
MP	552
MR	485

■ Data in the torque table specifies the maximum allowable offset distance of the gravity.

■ Under normal use in compliance with the specifications in the product catalogs, ensure that the lifetime is 10,000 km.

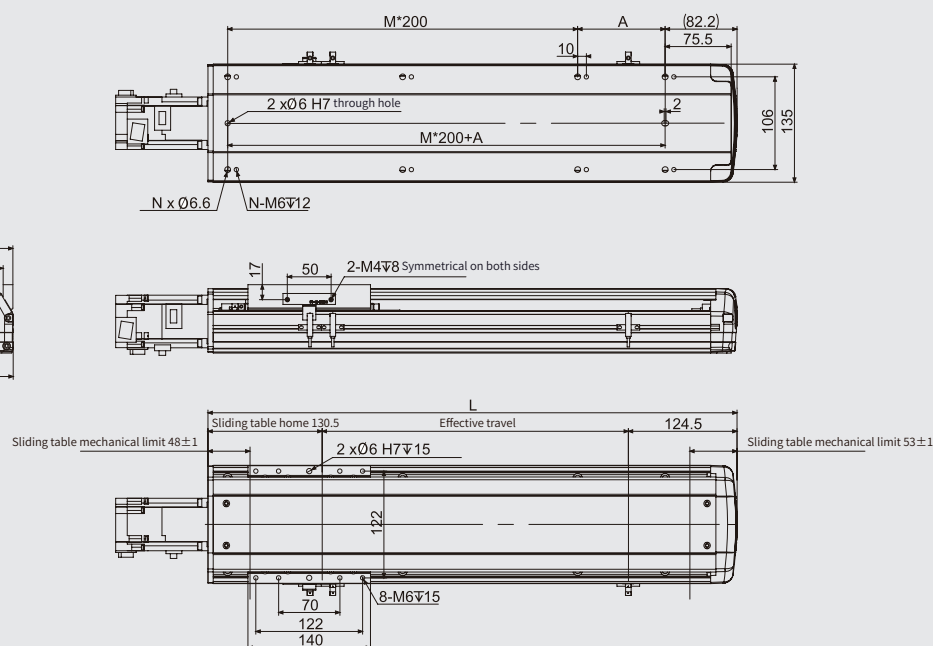
■ Inverted mounting fails to comply with the standard specifications. If required, contact our business personnel.

Servo Motor System Configuration

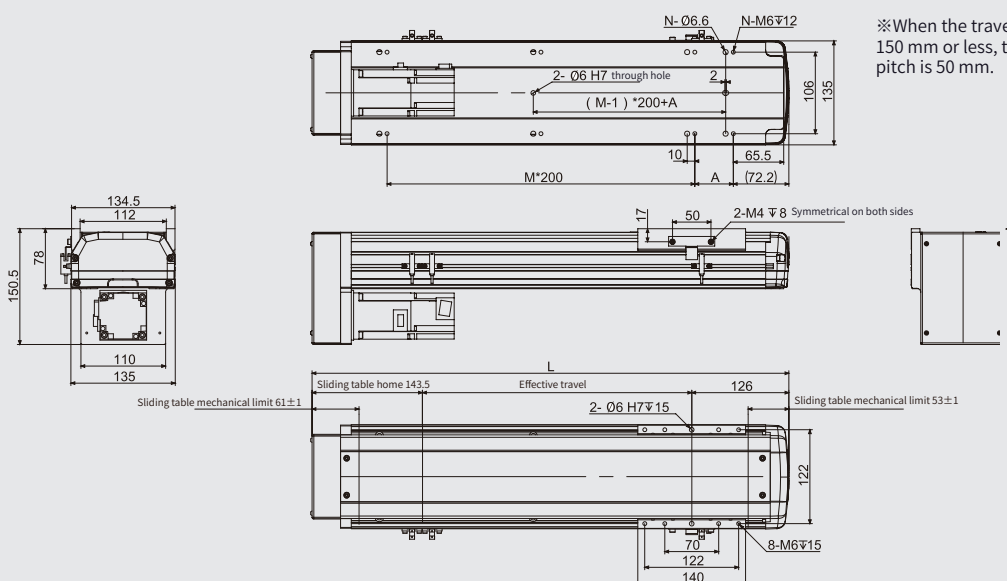
Manufacturer	Motor Marking	Braking	Motor Capacity (W)	Power Voltage (V)	Servo Motor Model
INOVANCE	No	No	400	220	MS1H4-40B30CB-A331R
INOVANCE	B	Yes	400	220	MS1H4-40B30CB-A334R

Travel

S	Motor Direct Connected																				
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050
L	305	355	405	455	505	555	605	655	705	755	805	855	905	955	1,005	1,055	1,105	1,155	1,205	1,255	1,305
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
KG	8.75	9.3	9.85	10.4	10.95	11.5	12.05	12.6	13.15	13.7	14.25	14.8	15.35	15.9	16.45	17	17.55	18.1	18.65	19.2	19.75



D	Motor Connected Down																				
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050
L	319	369	419	469	519	569	619	669	719	769	819	869	919	969	1,019	1,069	1,119	1,169	1,219	1,269	1,319
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
KG	9.4	9.94	10.48	11.02	11.56	12.1	12.64	13.18	13.72	14.26	14.8	15.34	15.88	16.42	16.96	17.5	18.04	18.58	19.12	19.66	20.2



Travel

LS Series

LSC Series

GS Series

LEB Series

LB Series

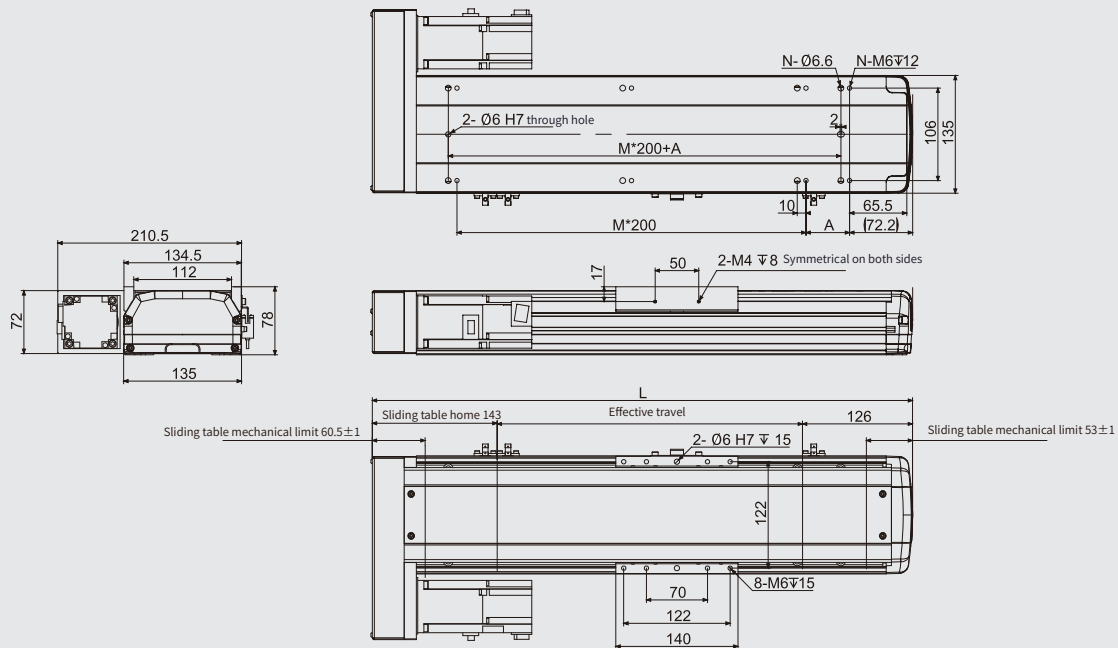
LBC Series

KS Series

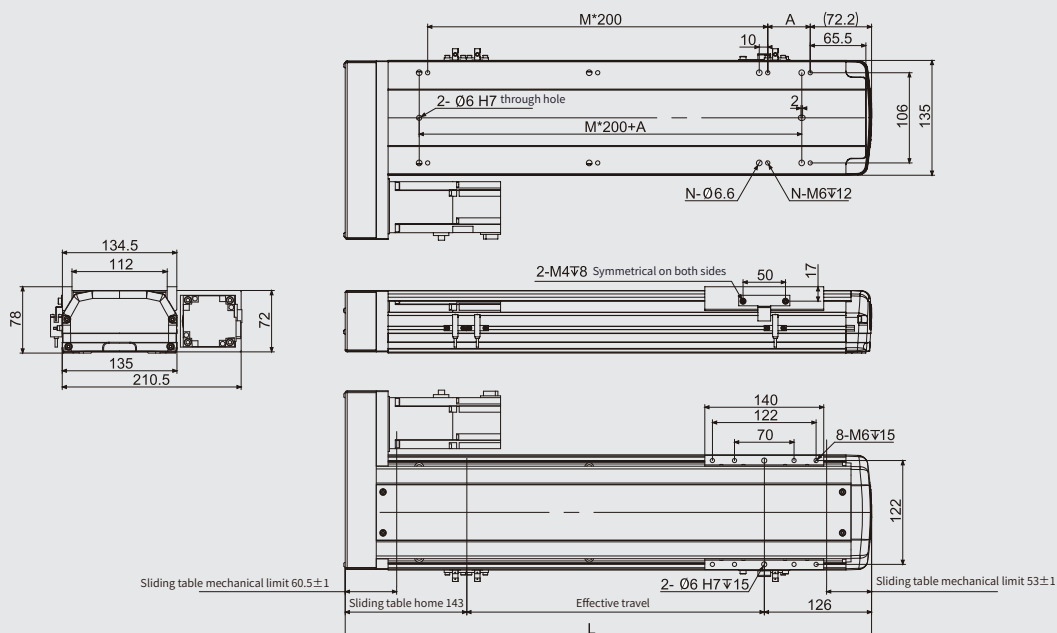
LY Series

GV Series

L	Motor Connected on the Left																					
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	
L	319	369	419	469	519	569	619	669	719	769	819	869	919	969	1,019	1,069	1,119	1,169	1,219	1,269	1,319	
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	
KG	9.4	9.94	10.48	11.02	11.56	12.1	12.64	13.18	13.72	14.26	14.8	15.34	15.88	16.42	16.96	17.5	18.04	18.58	19.12	19.66	20.2	



R	Motor Connected on the Right																				
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050
L	319	369	419	469	519	569	619	669	719	769	819	869	919	969	1,019	1,069	1,119	1,169	1,219	1,269	1,319
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
KG	9.4	9.94	10.48	11.02	11.56	12.1	12.64	13.18	13.72	14.26	14.8	15.34	15.88	16.42	16.96	17.5	18.04	18.58	19.12	19.66	20.2



LS 17

Standard Ball Screw Sliding
Table Electric Cylinder

Max. travel 1,250 mm

Max. speed 2,000 mm/s

Motor power 400 W

Ball screw ø20 mm

Linear slide rail 20 x 15 - 2

Model Description

L S 17 - 10 R 600 - N 3 - 40 B - VP - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

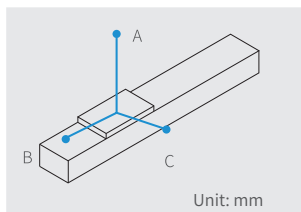
① Series number L	⑤ Motor position S: Direct connected D: Connected down L: Connected on the left R: Connected on the right	⑧ Sensor quantity N: No sensor 1: 1 2: 2 3: 3
② Cylinder type S: Screw semi-closed		⑨ Motor power 40: 400 W
③ Width 17: 170 mm	⑥ Travel 50 mm to 1,250 mm Interval of 50 mm	⑩ Brake None: No brake B: Brake
④ Lead 5: 5 mm 10: 10 mm 20: 20 mm 40: 40 mm		⑪ Drive type VP: Standard SV660P drive VN: Standard SV660N drive
	⑦ Sensor type N: NPN sensor P: PNP sensor	⑫ Customization

Basic Parameters

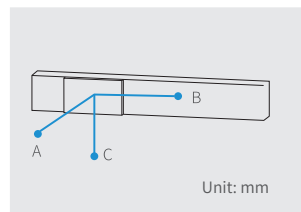
Item		Specification			
Repeatability (mm)		± 0.01			
Screw Lead (mm)		5	10	20	40
Max. Speed (mm/s)		250	500	1,000	2,000
Max. Load Capacity	Horizontal Axis (kg)	120	110	75	22
	Vertical Axis (kg)	40	30	14	7
Rated Force (N)		1,388	694	347	174
Standard Travel (mm)		50 mm to 1,250 mm, with an interval of 50 mm			
Capacity of AC Servo Motor (W)		400			
Ball Screw Outer Diameter (mm)		C7 Φ 20			
High-Stiffness Linear Guideway (mm)		W20 x H15			
Coupling (mm)		12 x 14			
Origin Sensor	External	SGT-NH(NPN)/SGT-PH(PNP)			

Note: When the travel exceeds 850, the lead screw may deflect. In this case, reduce the speed.
The motor acceleration/deceleration is set to 0.2s.

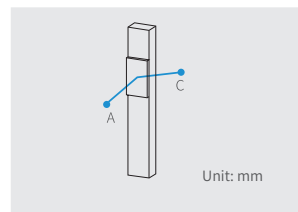
Permissible Load Torque



Horizontal Mounting		A	B	C
Lead 5	70 kg	3,235	349	408
	90 kg	2,482	263	306
	120 kg	1,850	187	217
Lead 10	65 kg	1,911	338	373
	85 kg	1,445	248	276
	110 kg	1,102	182	202
Lead 20	35 kg	1,666	547	538
	55 kg	1,030	331	328
	75 kg	733	231	230
Lead 40	15 kg	1,126	740	577
	22 kg	755	491	384
	-	-	-	-

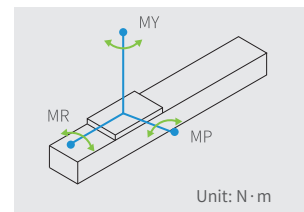


Backplate Mounting		A	B	C
Lead 5	75 kg	377	322	2,988
	95 kg	288	246	2,333
	120 kg	218	187	1,850
Lead 10	60 kg	408	368	2,092
	80 kg	296	266	1,554
	110 kg	202	182	1,102
Lead 20	30 kg	633	644	1,961
	50 kg	365	369	1,143
	75 kg	230	231	733
Lead 40	12 kg	729	936	1,417
	22 kg	384	491	755
	-	-	-	-



Vertical Mounting		A	C
Lead 5	20 kg	1,368	1,368
	30 kg	911	911
	40 kg	683	683
Lead 10	15 kg	1,618	1,618
	25 kg	970	970
	30 kg	808	808
Lead 20	10 kg	1,922	1,922
	14 kg	1,377	1,377
	-	-	-
Lead 40	4 kg	2,377	2,377
	7 kg	1,356	1,356
	-	-	-

Static Allowable Load Inertia



MY	1,032
MP	1,034
MR	908

Data in the torque table specifies the maximum allowable offset distance of the gravity.

Under normal use in compliance with the specifications in the product catalogs, ensure that the lifetime is 10,000 km.

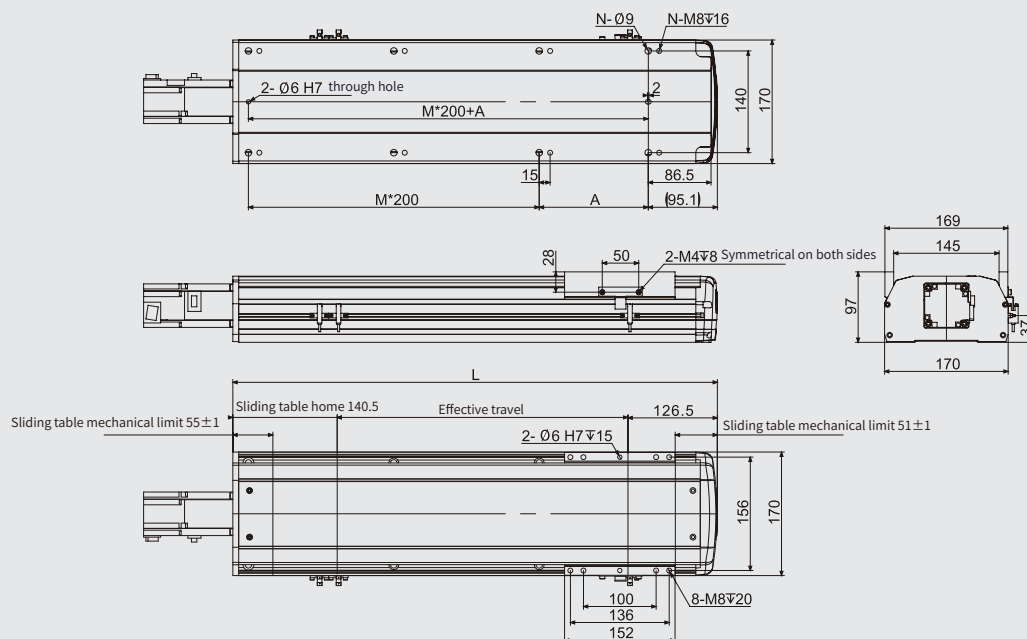
Inverted mounting fails to comply with the standard specifications. If required, contact our business personnel.

Servo Motor System Configuration

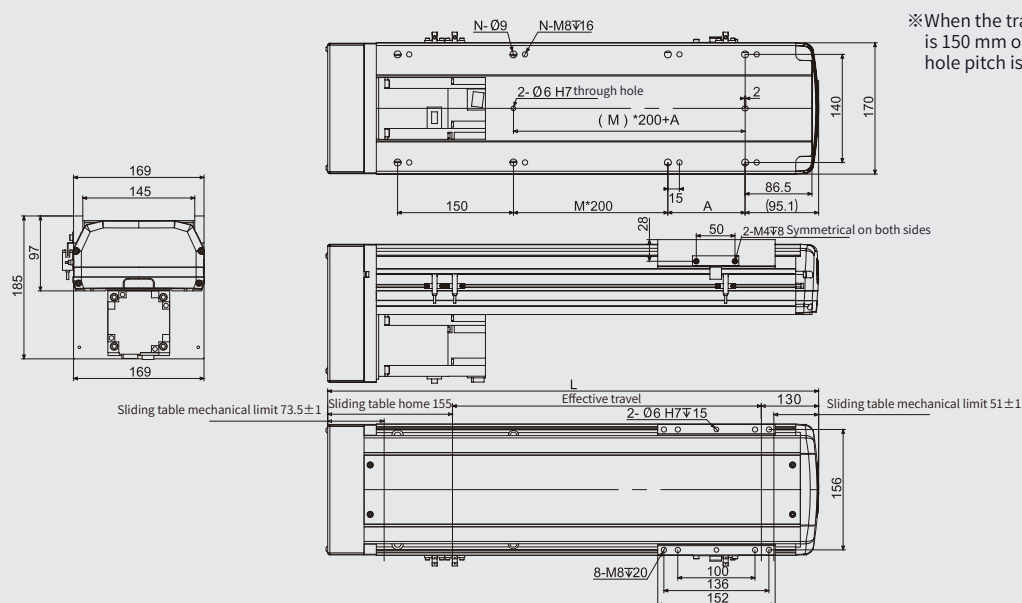
Manufacturer	Motor Marking	Braking	Motor Capacity (W)	Power Voltage (V)	Servo Motor Model
INOVANCE	No	No	400	220	MS1H4-40B30CB-A331R
INOVANCE	B	Yes	400	220	MS1H4-40B30CB-A334R

Travel

S	Motor Direct Connected																									
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	
L	317	367	417	467	517	567	617	667	717	767	817	867	917	967	1,017	1,067	1,117	1,167	1,217	1,267	1,317	1,367	1,417	1,467	1,517	
A	200	50	100	150	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	6	6	6	6	
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	
KG	10.11	10.89	11.67	12.45	13.22	14	14.78	15.55	16.33	17.11	17.88	18.66	19.44	20.22	20.99	21.77	22.55	23.33	24.1	24.88	25.66	26.44	27.21	27.99	28.77	

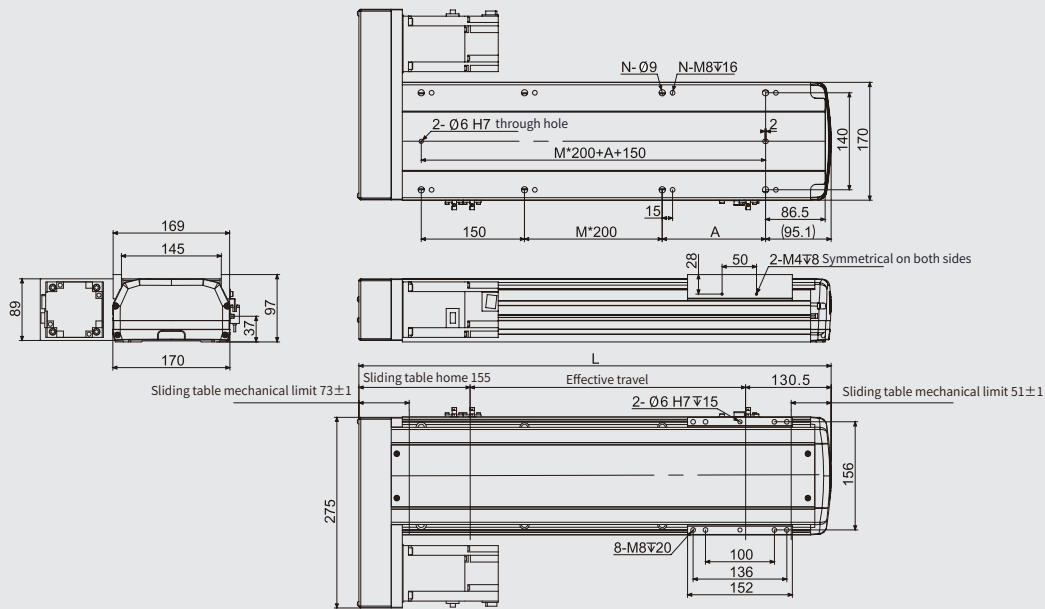


D	Motor Connected Down																									
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	
L	336	386	436	486	536	586	636	686	736	786	836	886	936	986	1,036	1,086	1,136	1,186	1,236	1,286	1,336	1,386	1,436	1,486	1,536	
A	0	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	
M	0	0	0	0	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	16	16	16	16	
KG	9.53	10.3	11.07	11.84	12.61	13.38	14.15	14.92	15.69	16.47	17.24	18.01	18.78	19.55	20.32	21.09	21.86	22.63	23.4	24.18	24.95	25.72	26.49	27.26	28.03	

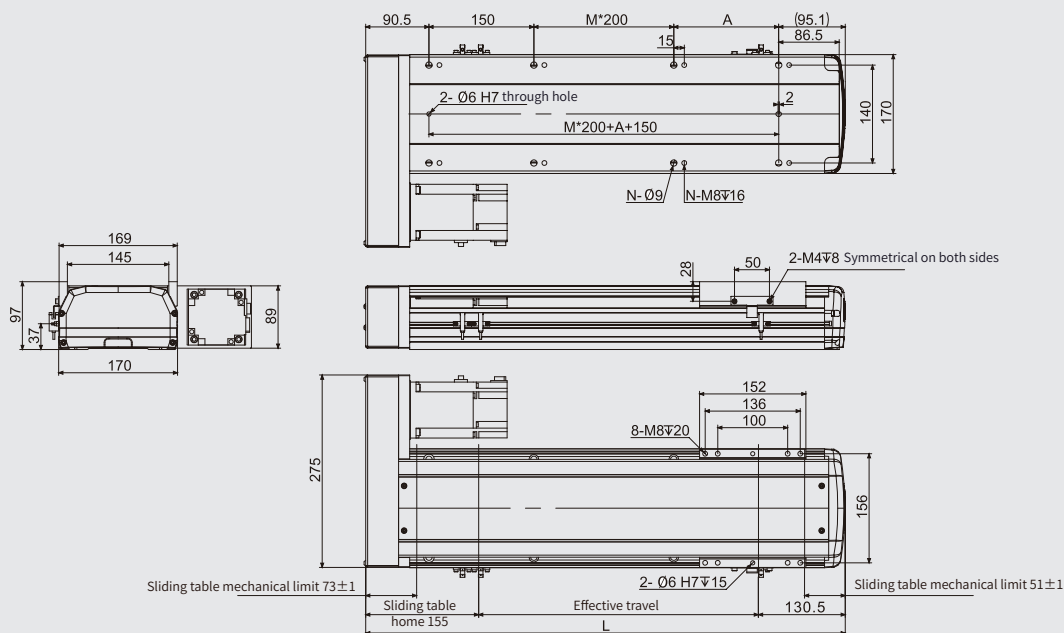


Travel

L	Motor Connected on the Left																									
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	
L	335.5	385.5	435.5	485.5	535.5	585.5	635.5	685.5	735.5	785.5	835.5	885.5	935.5	985.5	1,035.5	1,085.5	1,135.5	1,185.5	1,235.5	1,285.5	1,335.5	1,385.5	1,435.5	1,485.5	1,535.5	
A	0	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	
M	0	0	0	0	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	16	16	16	16	
kg	9.53	10.3	11.07	11.84	12.61	13.38	14.15	14.92	15.69	16.47	17.24	18.01	18.78	19.55	20.32	21.09	21.86	22.63	23.4	24.18	24.95	25.72	26.49	27.26	28.03	



R	Motor Connected on the Right																									
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	
L	335.5	385.5	435.5	485.5	535.5	585.5	635.5	685.5	735.5	785.5	835.5	885.5	935.5	985.5	1,035.5	1,085.5	1,135.5	1,185.5	1,235.5	1,285.5	1,335.5	1,385.5	1,435.5	1,485.5	1,535.5	
A	0	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	
M	0	0	0	0	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	16	16	16	16	
kg	9.53	10.3	11.07	11.84	12.61	13.38	14.15	14.92	15.69	16.47	17.24	18.01	18.78	19.55	20.32	21.09	21.86	22.63	23.4	24.18	24.95	25.72	26.49	27.26	28.03	



LS 17

Standard Ball Screw Sliding Table Electric Cylinder



Max. travel 1,250 mm

Max. speed 2,000 mm/s

Motor power 750 W

Ball screw ø20 mm

Linear slide rail 20 x 15 - 2

Model Description

L S 17 - 10 R 600 - N 3 - 75 B - VP - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

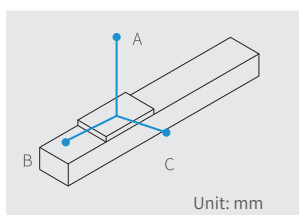
① Series number L	⑤ Motor position S: Direct connected D: Connected down L: Connected on the left R: Connected on the right	⑧ Sensor quantity N: No sensor 1: 1 2: 2 3: 3
② Cylinder type S: Screw semi-closed		⑨ Motor power 75: 750 W
③ Width 17: 170 mm	⑥ Travel 50 mm to 1,250 mm Interval of 50 mm	⑩ Brake None: No brake B: Brake
④ Lead 5: 5 mm 10: 10 mm 20: 20 mm 40: 40 mm		⑪ Drive type VP: Standard SV660P drive VN: Standard SV660N drive
	⑦ Sensor type N: NPN sensor P: PNP sensor	⑫ Customization

Basic Parameters

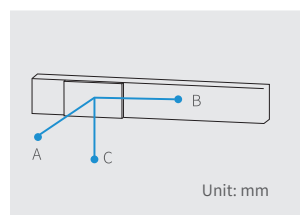
Item		Specification			
Repeatability (mm)		± 0.01			
Screw Lead (mm)		5	10	20	40
Max. Speed (mm/s)		250	500	1,000	2,000
Max. Load Capacity	Horizontal Axis (kg)	120	110	83	43
	Vertical Axis (kg)	50	40	25	12
Rated Force (N)		2,563	1,281	640	320
Standard Travel (mm)		50 mm to 1,250 mm, with an interval of 50 mm			
Capacity of AC Servo Motor (W)		750			
Ball Screw Outer Diameter (mm)		C7 Φ 20			
High-Stiffness Linear Guideway (mm)		W20 x H15			
Coupling (mm)		12 x 19			
Origin Sensor	External	SGT-NH(NPN)/SGT-PH(PNP)			

Note: When the travel exceeds 850, the lead screw may deflect. In this case, reduce the speed.
The motor acceleration/deceleration is set to 0.2s.

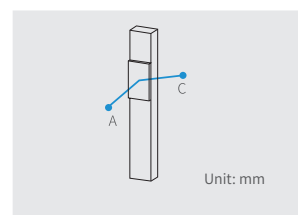
Permissible Load Torque



Horizontal Mounting		A	B	C
Lead 5	70 kg	3,235	349	408
	90 kg	2,482	263	306
	120 kg	1,861	187	218
Lead 10	65 kg	1,911	338	373
	85 kg	1,445	248	276
	120 kg	1,000	164	182
Lead 20	35 kg	1,666	547	538
	55 kg	1,030	331	328
	83 kg	654	206	204
Lead 40	15 kg	1,126	740	577
	22 kg	755	491	384
	43 kg	366	231	183

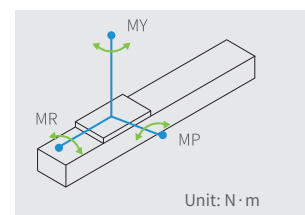


Backplate Mounting		A	B	C
Lead 5	75 kg	377	322	2,988
	95 kg	288	246	2,333
	120 kg	218	187	1,850
Lead 10	60 kg	408	368	2,092
	80 kg	296	266	1,554
	120 kg	182	164	1,002
Lead 20	30 kg	633	644	1,961
	50 kg	365	369	1,143
	83 kg	204	206	656
Lead 40	12 kg	729	936	1,417
	22 kg	384	491	755
	43 kg	183	231	366



Vertical Mounting		A	C
Lead 5	20 kg	1,368	1,368
	30 kg	911	911
	50 kg	546	546
Lead 10	15 kg	1,618	1,618
	25 kg	970	970
	40 kg	607	607
Lead 20	10 kg	1,922	1,922
	14 kg	1,377	1,377
	25 kg	769	769
Lead 40	7 kg	1,356	1,356
	12 kg	790	790
	-	-	-

Static Allowable Load Inertia



MY	1,032
MP	1,034
MR	908

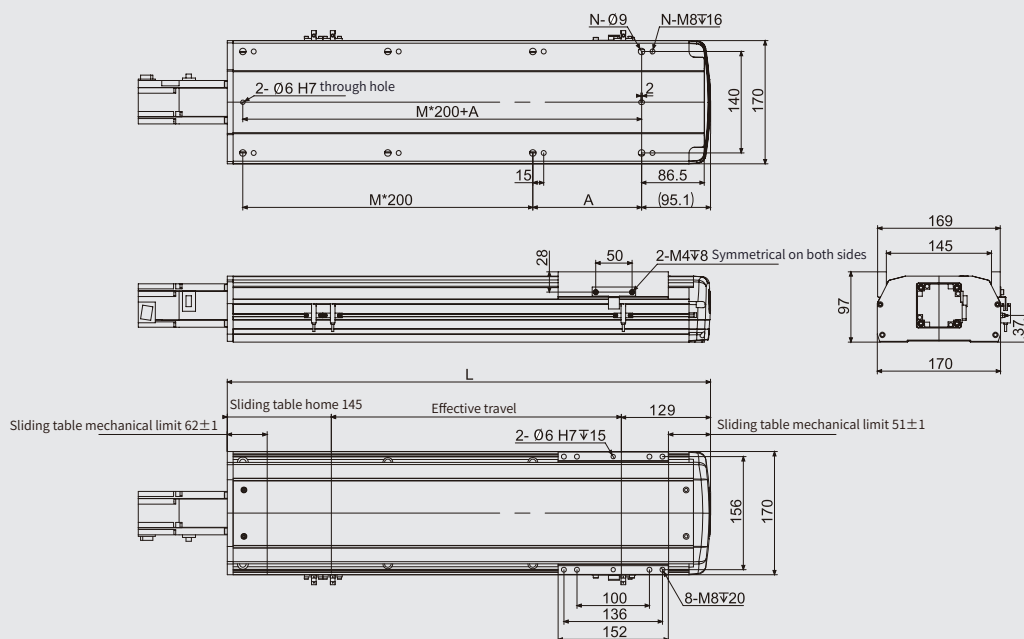
- Data in the torque table specifies the maximum allowable offset distance of the gravity.
- Under normal use in compliance with the specifications in the product catalogs, ensure that the lifetime is 10,000 km.
- Inverted mounting fails to comply with the standard specifications. If required, contact our business personnel.

Servo Motor System Configuration

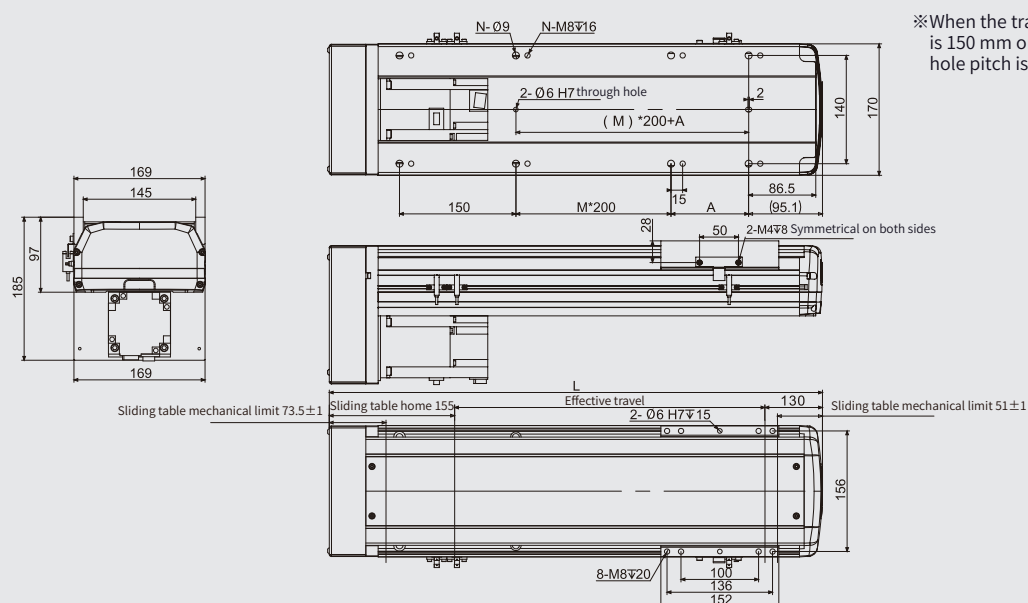
Manufacturer	Motor Marking	Braking	Motor Capacity (W)	Power Voltage (V)	Servo Motor Model
INOVANCE	No	No	400	220	MS1H4-75B30CB-A331R
INOVANCE	B	Yes	400	220	MS1H4-75B30CB-A334R

Travel

S	Motor Direct Connected																									
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	
L	324	374	424	474	524	574	624	674	724	774	824	874	924	974	1,024	1,074	1,124	1,174	1,224	1,274	1,324	1,374	1,424	1,474	1,524	
A	200	50	100	150	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	6	6	6	6	
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	
KG	10.11	10.89	11.67	12.45	13.22	14	14.78	15.55	16.33	17.11	17.88	18.66	19.44	20.22	20.99	21.77	22.55	23.33	24.1	24.88	25.66	26.44	27.21	27.99	28.77	

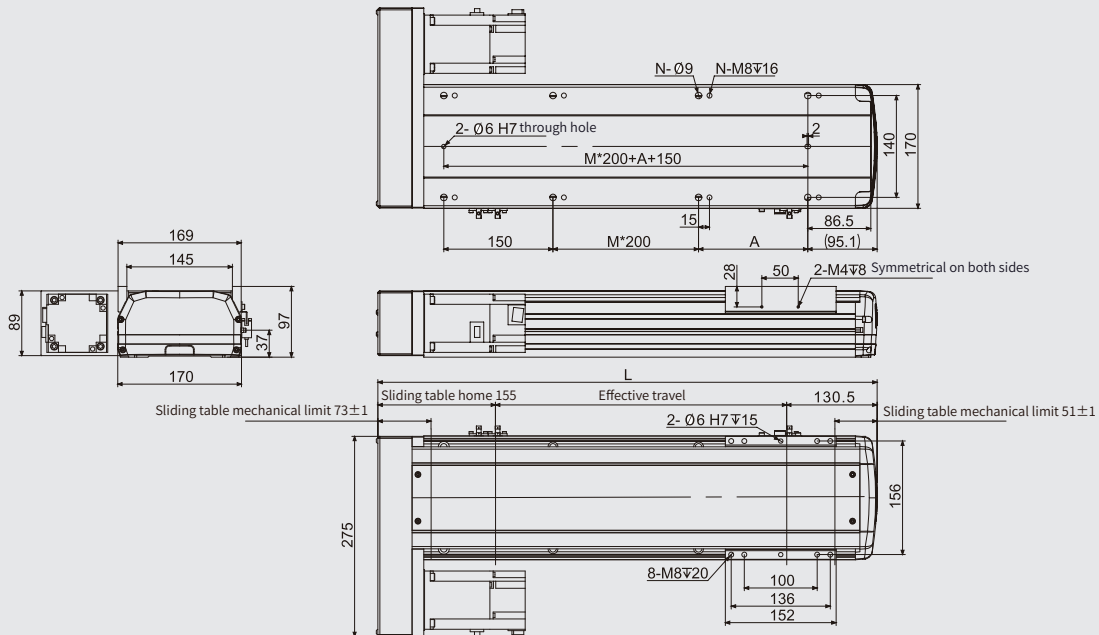


D	Motor Connected Down																									
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	
L	336	386	436	486	536	586	636	686	736	786	836	886	936	986	1,036	1,086	1,136	1,186	1,236	1,286	1,336	1,386	1,436	1,486	1,536	
A	0	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	
M	0	0	0	0	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	16	16	16	16	
KG	9.53	10.3	11.07	11.84	12.61	13.38	14.15	14.92	15.69	16.47	17.24	18.01	18.78	19.55	20.32	21.09	21.86	22.63	23.4	24.18	24.95	25.72	26.49	27.26	28.03	

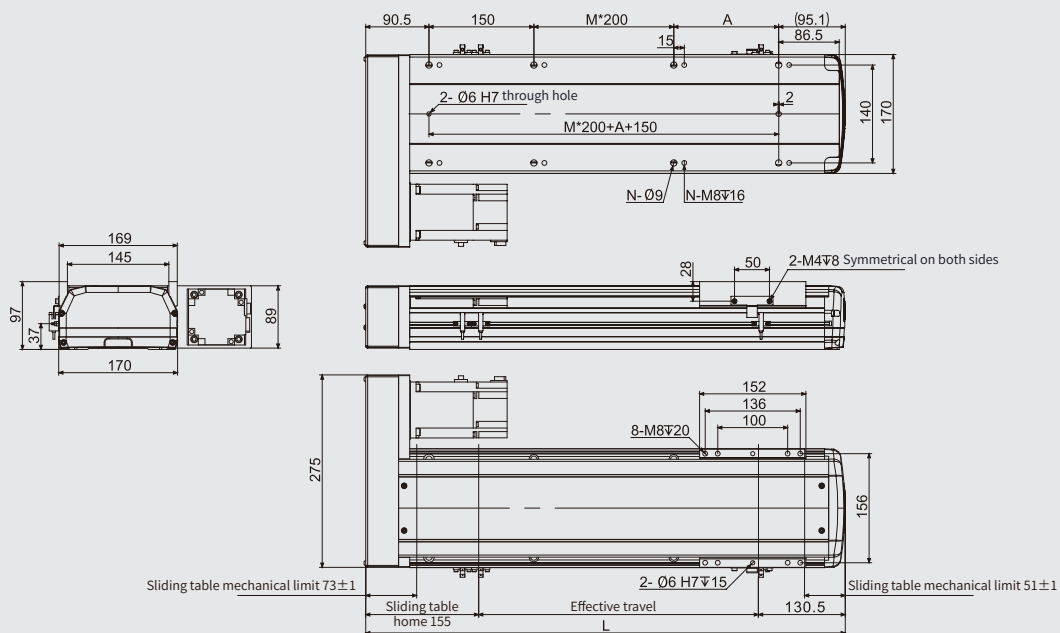


Travel

L	Motor Connected on the Left																								
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250
L	335.5	385.5	435.5	485.5	535.5	585.5	635.5	685.5	735.5	785.5	835.5	885.5	935.5	985.5	1,035.5	1,085.5	1,135.5	1,185.5	1,235.5	1,285.5	1,335.5	1,385.5	1,435.5	1,485.5	1,535.5
A	0	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	0	0	0	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	16	16	16	16
kg	9.53	10.3	11.07	11.84	12.61	13.38	14.15	14.92	15.69	16.47	17.24	18.01	18.78	19.55	20.32	21.09	21.86	22.63	23.4	24.18	24.95	25.72	26.49	27.26	28.03



R	Motor Connected on the Right																									
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	
L	335.5	385.5	435.5	485.5	535.5	585.5	635.5	685.5	735.5	785.5	835.5	885.5	935.5	985.5	1,035.5	1,085.5	1,135.5	1,185.5	1,235.5	1,285.5	1,335.5	1,385.5	1,435.5	1,485.5	1,535.5	
A	0	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	
M	0	0	0	0	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	16	16	16	16	
kg	9.53	10.3	11.07	11.84	12.61	13.38	14.15	14.92	15.69	16.47	17.24	18.01	18.78	19.55	20.32	21.09	21.86	22.63	23.4	24.18	24.95	25.72	26.49	27.26	28.03	



LS 17M

Standard Ball Screw Sliding Table Electric Cylinder



Max. travel 2,200 mm

Max. speed 1,600 mm/s

Motor power 400 W

Ball screw ø20 mm

Linear slide rail 20 x 15 - 2

Model Description

L S 17M - 10 R 600 - N 3 - 40 B - VP - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

① Series number L	⑤ Motor position S: Direct connected D: Connected down L: Connected on the left R: Connected on the right	⑧ Sensor quantity N: No sensor 1: 1 2: 2 3: 3
② Cylinder type S: Lead screw semi-closed		⑨ Motor power 40: 400 W
③ Width 17: 170 mm	⑥ Travel 800 mm to 2,200 mm Interval of 50 mm	⑩ Brake None: No brake B: Brake
④ Lead 5: 5 mm 10: 10 mm 20: 20 mm 40: 40 mm		⑪ Drive type VP: Standard SV660P drive VN: Standard SV660N drive
	⑦ Sensor type N: NPN sensor P: PNP sensor	⑫ Customization

Basic Parameters

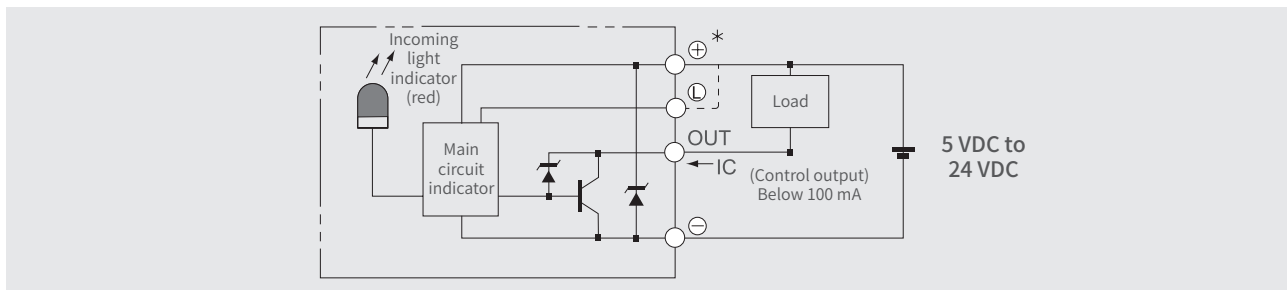
Item		Specification			
Repeatability (mm)		± 0.01			
Screw Lead (mm)		5	10	20	40
Max. Speed (mm/s)		200	400	800	1,600
Max. Load Capacity	Horizontal Axis (kg) ^(Note 2)	110	90	40	16
	Vertical Axis (kg)	33	22	10	7
Rated Force (N)		1,388	694	347	174
Standard Travel (mm)		800 mm to 2,200 mm, with an interval of 50 mm			
Power of AC Servo Motor (W)		400			
Ball Screw Outer Diameter		C7 Φ 20			
High-Stiffness Linear Slide Rail (mm)		W20 x H15			
Coupling		12 x 14			
Origin Sensor	External	SGT-NH(NPN)/SGT-PH(PNP)			

Note: When the travel exceeds 1,600, the lead screw may deflect. In this case, reduce the speed.

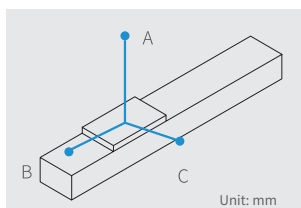
Note: The motor acceleration/deceleration is set to 0.2s.

Note: The maximum speed of the motor is 2,400 rpm.

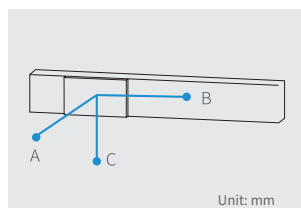
Sensor Connection Diagram



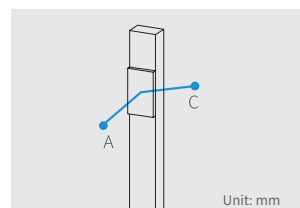
Permissible Load Torque



Horizontal Mounting		A	B	C
Lead 5	70 kg	2,092	162	208
	90 kg	1,555	117	149
	110 kg	1,210	88	113
Lead 10	60 kg	1,107	172	208
	75 kg	848	130	156
	90 kg	680	101	122
Lead 20	20 kg	1,498	491	520
	30 kg	973	313	334
	40 kg	712	225	238
Lead 40	10 kg	1,311	692	625
	20 kg	633	326	295
	30 kg	405	203	187

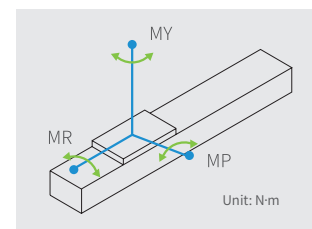


Backplate Mounting		A	B	C
Lead 5	75 kg	190	148	1,911
	95 kg	140	108	1,450
	110 kg	113	88	1,210
Lead 10	65 kg	188	156	1,008
	80 kg	144	119	788
	90 kg	122	101	680
Lead 20	25 kg	408	382	1,180
	35 kg	280	262	825
	40 kg	238	225	712
Lead 40	15 kg	408	449	860
	25 kg	230	252	495
	30 kg	187	203	405



Vertical Mounting		A	C
Lead 5	15 kg	940	940
	22 kg	640	640
	33 kg	427	427
Lead 10	10 kg	1,248	1,248
	14 kg	894	894
	22 kg	569	569
Lead 20	7 kg	1,417	1,417
	10 kg	993	993
	-	-	-
Lead 40	5 kg	1,255	1,255
	8 kg	785	785
	-	-	-

Static Allowable Load Inertia



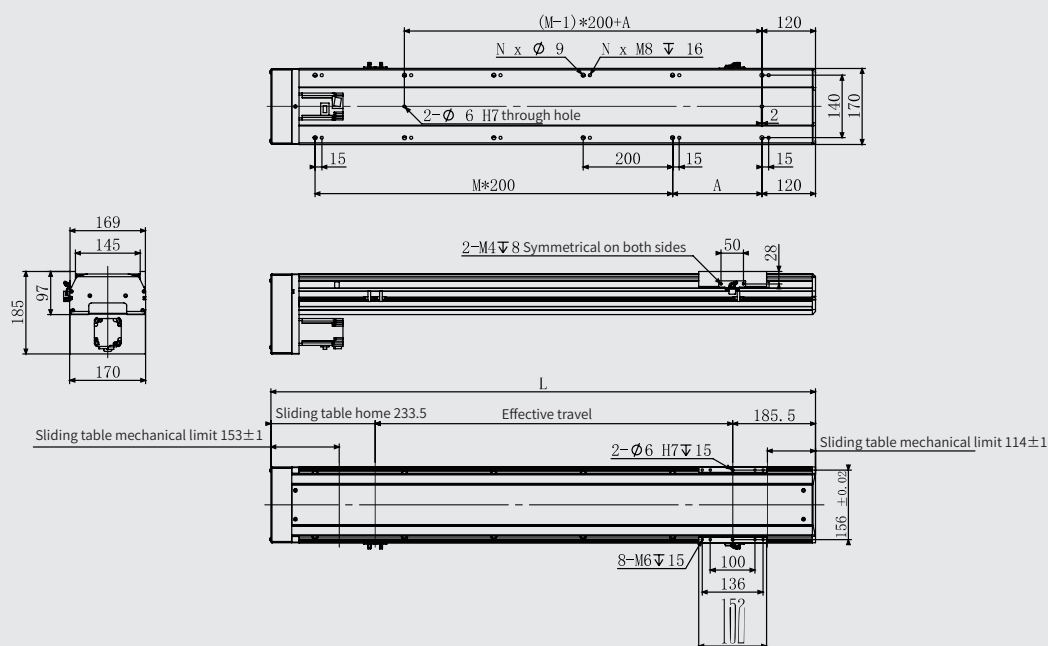
MY	552
MP	552
MR	638

Data in the torque table specifies the maximum allowable offset distance of the gravity.

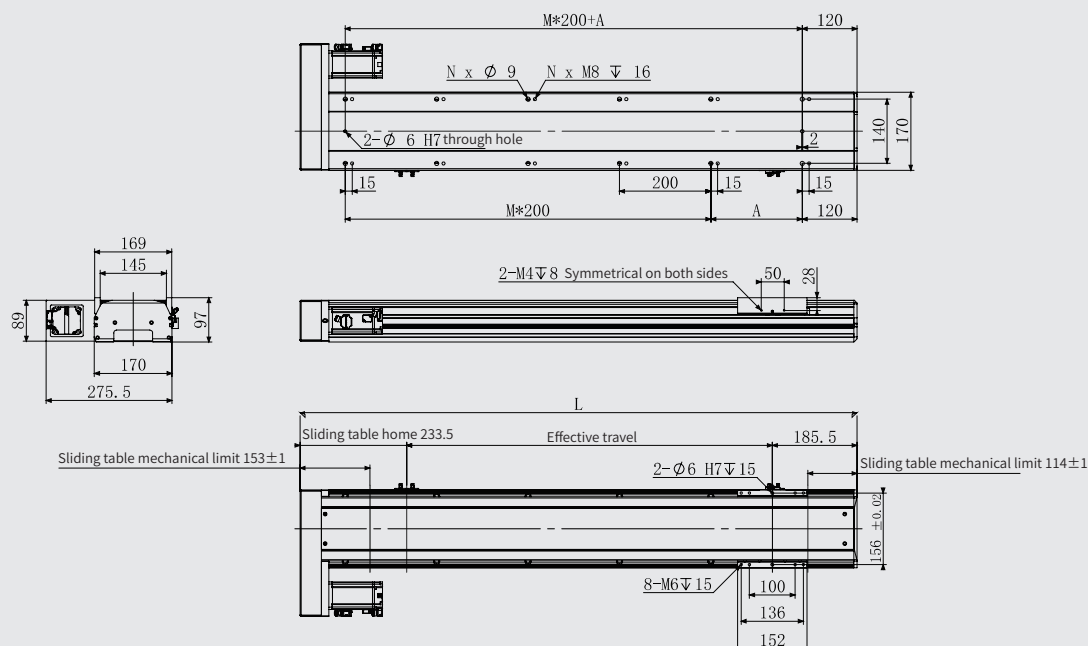
Under normal use in compliance with the specifications in the product catalogs, ensure that the lifetime is 10,000 km.

Travel

D	Motor Connected Down																												
Effective Travel	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550	1,600	1,650	1,750	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200
L	1,219	1,269	1,319	1,369	1,419	1,469	1,519	1,569	1,619	1,669	1,719	1,769	1,819	1,869	1,919	1,969	2,019	2,069	2,119	2,169	2,219	2,269	2,319	2,369	2,419	2,469	2,519	2,569	2,619
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11
N	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26
KG	29.86	30.54	31.22	31.9	32.58	33.26	33.94	34.62	35.3	35.98	36.66	37.34	38.02	38.7	39.38	40.06	40.74	41.42	42.1	42.78	43.46	44.14	44.82	45.5	46.18	46.86	47.54	48.22	48.9



L	Motor Connected on the Left																												
Effective Travel	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550	1,600	1,650	1,750	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200
L	1,219	1,269	1,319	1,369	1,419	1,469	1,519	1,569	1,619	1,669	1,719	1,769	1,819	1,869	1,919	1,969	2,019	2,069	2,119	2,169	2,219	2,269	2,319	2,369	2,419	2,469	2,519	2,569	2,619
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11
N	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26
KG	29.86	30.54	31.22	31.9	32.58	33.26	33.94	34.62	35.3	35.98	36.66	37.34	38.02	38.7	39.38	40.06	40.74	41.42	42.1	42.78	43.46	44.14	44.82	45.5	46.18	46.86	47.54	48.22	48.9



Travel

LS Series

LSC Series

GS Series

LEB Series

LB Series

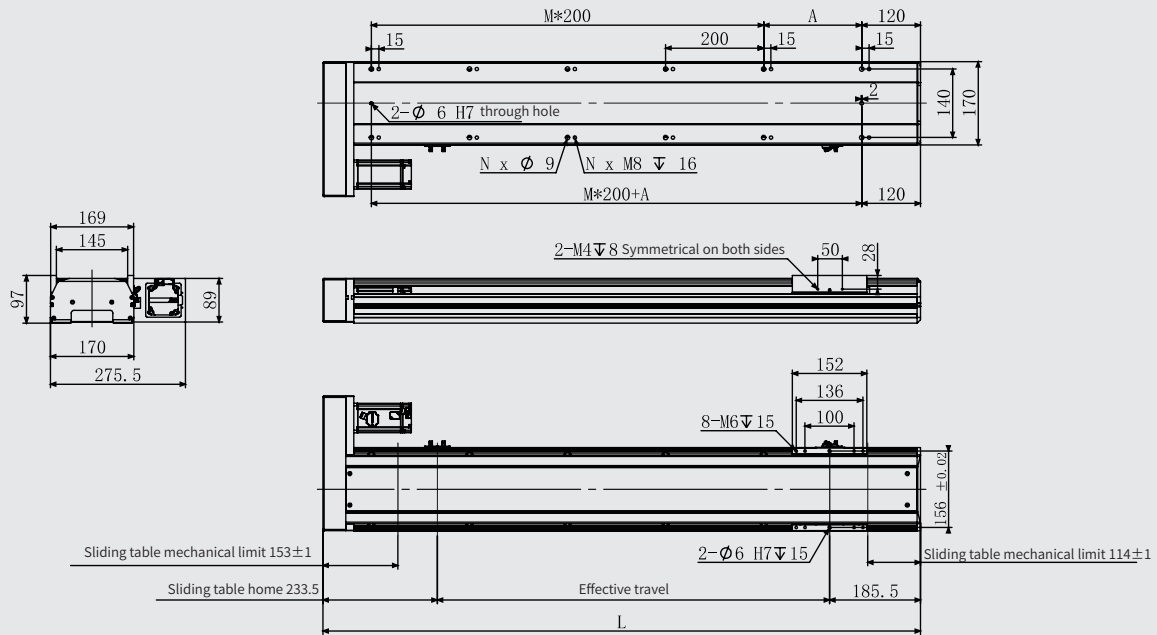
LBC Series

KS Series

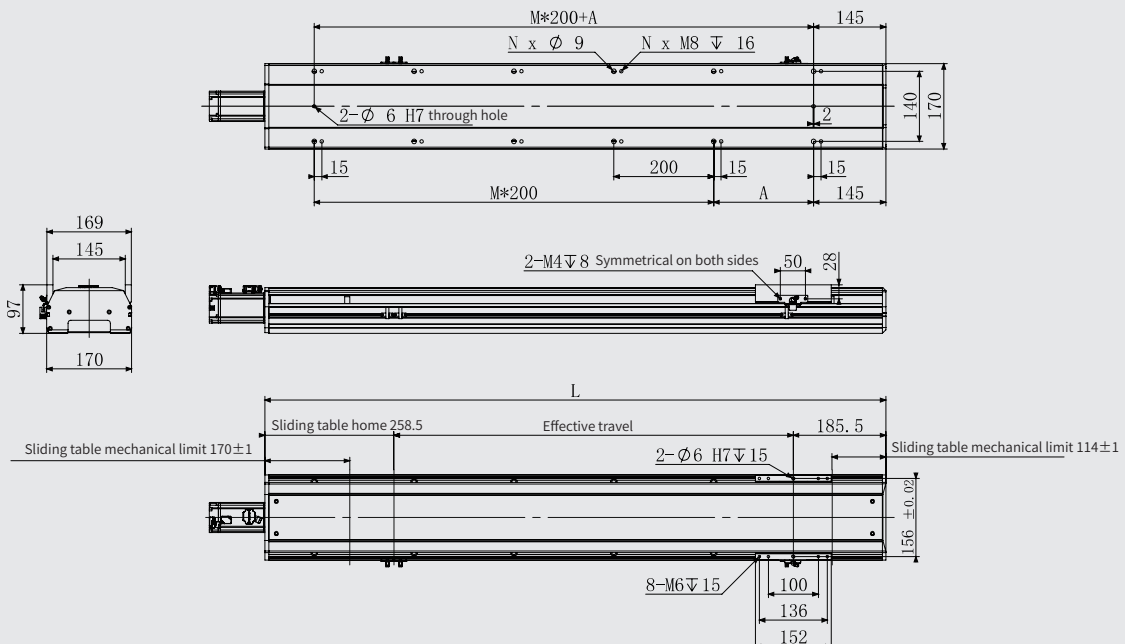
LY Series

GV Series

R	Motor Connected on the Right																												
Effective Travel	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550	1,600	1,650	1,750	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200
L	1,219	1,269	1,319	1,369	1,419	1,469	1,519	1,569	1,619	1,669	1,719	1,769	1,819	1,869	1,919	1,969	2,019	2,069	2,119	2,169	2,219	2,269	2,319	2,369	2,419	2,469	2,519	2,569	2,619
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11
N	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26
KG	29.86	30.54	31.22	31.9	32.58	33.26	33.94	34.62	35.3	35.98	36.66	37.34	38.02	38.7	39.38	40.06	40.74	41.42	42.1	42.78	43.46	44.14	44.82	45.5	46.18	46.86	47.54	48.22	48.9

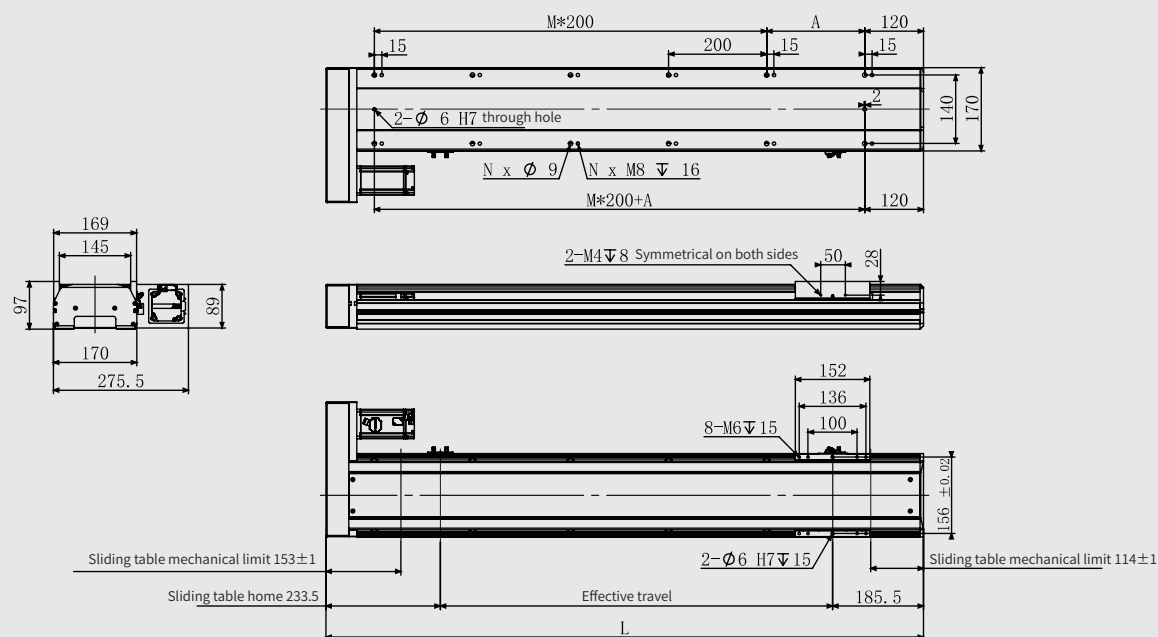


S	Motor Direct Connected																												
Effective Travel	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550	1,600	1,650	1,750	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200
L	1,244	1,294	1,344	1,369	1,444	1,494	1,544	1,594	1,644	1,694	1,744	1,794	1,844	1,894	1,944	1,994	2,044	2,094	2,144	2,194	2,244	2,294	2,344	2,394	2,444	2,494	2,544	2,594	2,644
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11
N	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26
KG	28.99	29.67	30.35	31.03	31.71	32.39	33.07	33.75	34.43	35.11	35.79	36.47	37.15	37.83	38.51	39.19	39.87	40.55	41.23	41.91	42.59	43.27	43.95	44.63	45.31	45.99	46.67	47.35	48.03

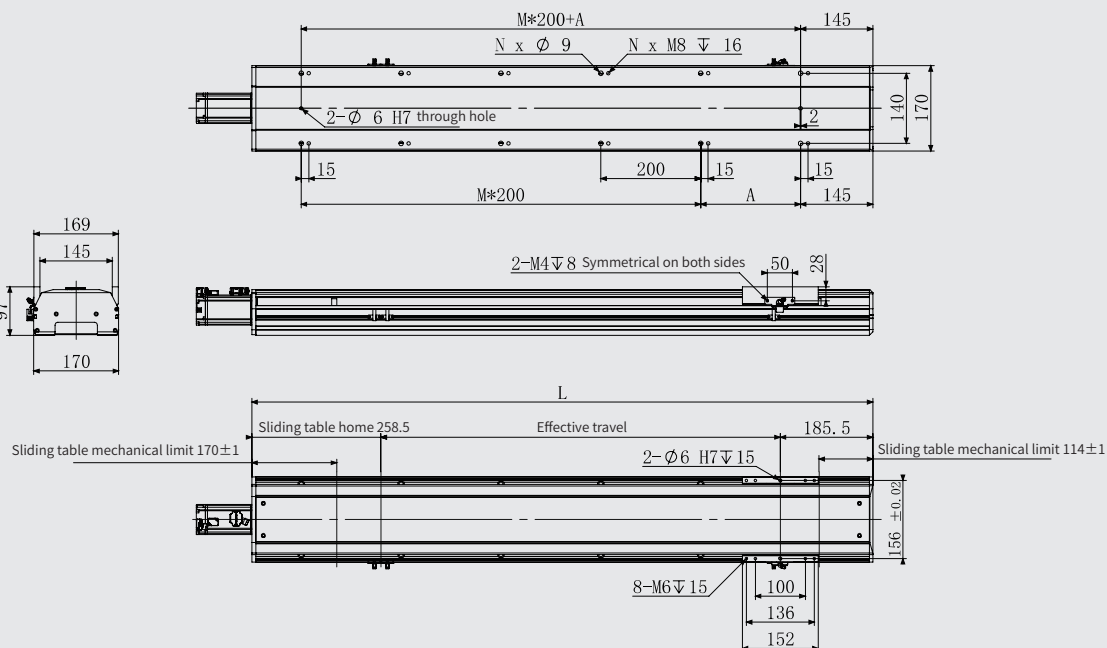


Travel

R	Motor Connected on the Right																												
Effective Travel	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550	1,600	1,650	1,750	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200
L	1,219	1,269	1,319	1,369	1,419	1,469	1,519	1,569	1,619	1,669	1,719	1,769	1,819	1,869	1,919	1,969	2,019	2,069	2,119	2,169	2,219	2,269	2,319	2,369	2,419	2,469	2,519	2,569	2,619
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11
N	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26
KG	29.86	30.54	31.22	31.9	32.58	33.26	33.94	34.62	35.3	35.98	36.66	37.34	38.02	38.7	39.38	40.06	40.74	41.42	42.1	42.78	43.46	44.14	44.82	45.5	46.18	46.86	47.54	48.22	48.9



S	Motor Direct Connected																												
Effective Travel	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550	1,600	1,650	1,750	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200
L	1,244	1,294	1,344	1,369	1,444	1,494	1,544	1,594	1,644	1,694	1,744	1,794	1,844	1,894	1,944	1,994	2,044	2,094	2,144	2,194	2,244	2,294	2,344	2,394	2,444	2,494	2,544	2,594	2,644
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11
N	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26
KG	28.99	29.67	30.35	31.03	31.71	32.39	33.07	33.75	34.43	35.11	35.79	36.47	37.15	37.83	38.51	39.19	39.87	40.55	41.23	41.91	42.59	43.27	43.95	44.63	45.31	45.99	46.67	47.35	48.03



LS 17M

Standard Ball Screw Sliding Table Electric Cylinder



Max. travel

2,200 mm

Max. speed

1,600 mm/s

Motor power

750 W

Ball screw

ø20 mm

Linear slide rail

20 x 15 - 2

Model Description

L S 17M - 10 R 600 - N 3 - 75 B - VP - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

① Series number L	⑤ Motor position S: Direct connected D: Connected down L: Connected on the left R: Connected on the right	⑧ Sensor quantity N: No sensor 1: 1 2: 2 3: 3
② Cylinder type S: Lead screw semi-closed		⑨ Motor power 75: 750 W
③ Width 17: 170 mm	⑥ Travel 800 mm to 2,200 mm Interval of 50 mm	⑩ Brake None: No brake B: Brake
④ Lead 5: 5 mm 10: 10 mm 20: 20 mm 40: 40 mm		⑪ Drive type VP: Standard SV660P drive VN: Standard SV660N drive
	⑦ Sensor type N: NPN sensor P: PNP sensor	⑫ Customization

Basic Parameters

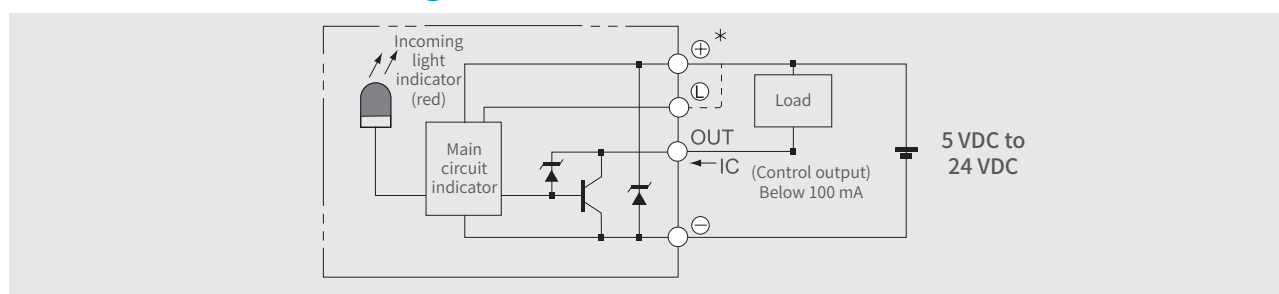
Item		Specification			
Repeatability (mm)		± 0.01			
Screw Lead (mm)		5	10	20	40
Max. Speed (mm/s)		200	400	800	1,600
Max. Load Capacity	Horizontal Axis (kg) ^(Note 2)	120	95	50	35
	Vertical Axis (kg)	40	25	15	12
Rated Force (N)		2,563	1,281	640	320
Standard Travel (mm)		800 mm to 2,200 mm, with an interval of 50 mm			
Power of AC Servo Motor (W)		750			
Ball Screw Outer Diameter		C7 Φ 20			
High-Stiffness Linear Slide Rail (mm)		W20 x H15			
Coupling		12 x 19			
Origin Sensor	External	SGT-NH(NPN)/SGT-PH(PNP)			

Note: When the travel exceeds 1,600, the lead screw may deflect. In this case, reduce the speed.

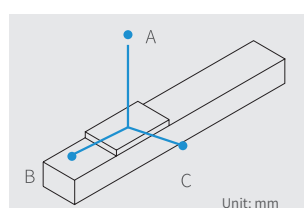
Note: The motor acceleration/deceleration is set to 0.2s.

Note: The maximum speed of the motor is 2,400 rpm.

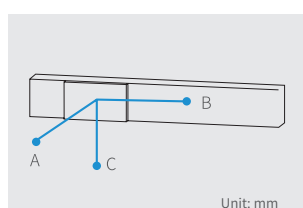
Sensor Connection Diagram



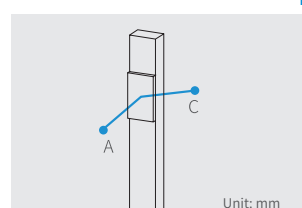
Permissible Load Torque



Horizontal Mounting		A	B	C
Lead 5	70 kg	2,092	162	208
	90 kg	1,555	117	149
	120 kg	1,080	78	100
Lead 10	60 kg	1,107	172	208
	75 kg	848	130	156
	90 kg	637	94	114
Lead 20	20 kg	1,498	491	520
	30 kg	973	313	334
	50 kg	550	172	182
Lead 40	10 kg	1,311	692	625
	20 kg	633	326	295
	35 kg	339	169	156

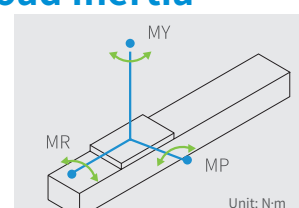


Backplate Mounting		A	B	C
Lead 5	75 kg	190	148	1,911
	95 kg	140	108	1,450
	120 kg	100	78	1,080
Lead 10	65 kg	188	156	1,008
	80 kg	144	119	788
	95 kg	114	94	637
Lead 20	25 kg	408	382	1,180
	35 kg	280	262	825
	50 kg	182	172	550
Lead 40	15 kg	408	449	860
	25 kg	230	252	495
	35 kg	156	169	339



Vertical Mounting		A	C
Lead 5	15 kg	940	940
	22 kg	640	640
	40 kg	350	350
Lead 10	10 kg	1,248	1,248
	14 kg	894	894
	25 kg	499	499
Lead 20	7 kg	1,417	1,417
	10 kg	993	993
	15 kg	660	660
Lead 40	5 kg	1,255	1,255
	8 kg	785	785
	12 kg	525	525

Static Allowable Load Inertia



MY	552
MP	552
MR	638

Data in the torque table specifies the maximum allowable offset distance of the gravity.

Under normal use in compliance with the specifications in the product catalogs, ensure that the lifetime is 10,000 km.

Inverted mounting fails to comply with the standard specifications. If required, contact our business personnel.

Travel

LS Series

LSC Series

GS Series

LEB Series

LB Series

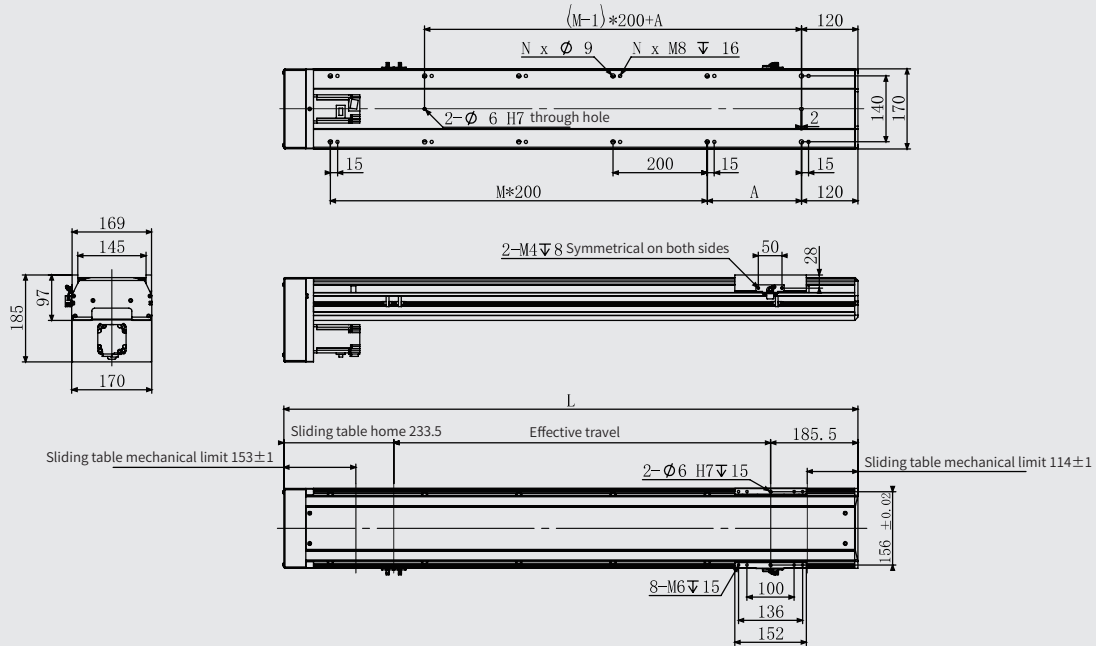
LBC Series

KS Series

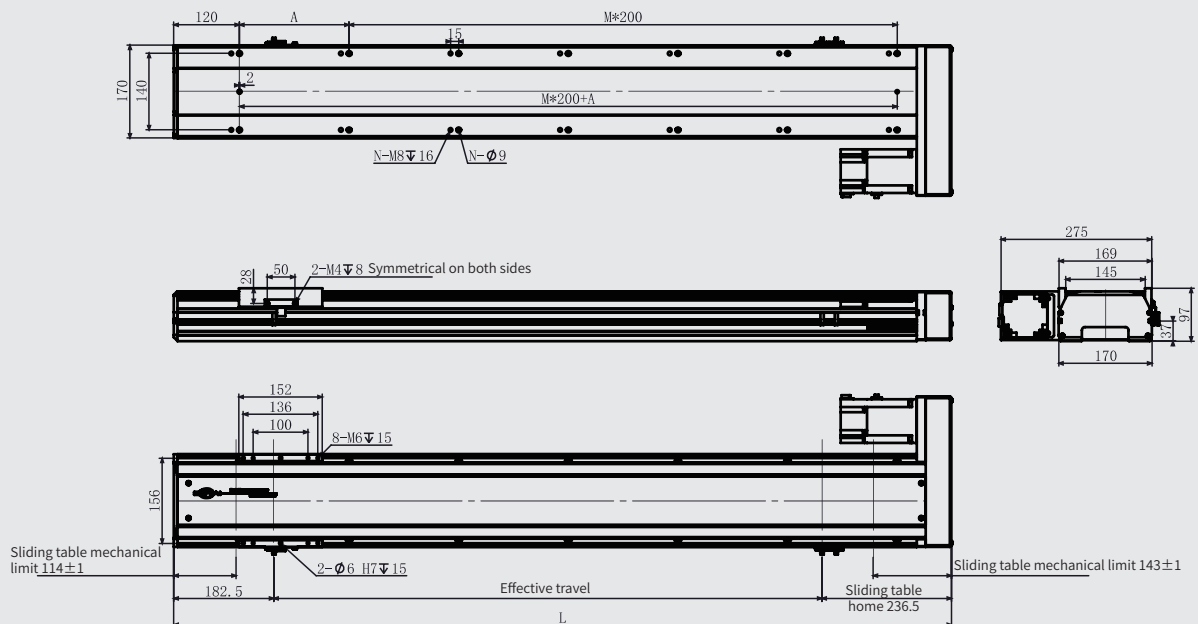
LY Series

GV Series

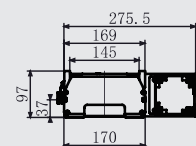
D	Motor Connected Down																												
Effective Travel	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200
L	1,219	1,269	1,319	1,369	1,419	1,469	1,519	1,569	1,619	1,669	1,719	1,769	1,819	1,869	1,919	1,969	2,019	2,069	2,119	2,169	2,219	2,269	2,319	2,369	2,419	2,469	2,519	2,569	2,619
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11
N	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26
KG	29.86	30.54	31.22	31.9	32.58	33.26	33.94	34.62	35.3	35.98	36.66	37.34	38.02	38.7	39.38	40.06	40.74	41.42	42.1	42.78	43.46	44.14	44.82	45.5	46.18	46.86	47.54	48.22	48.9



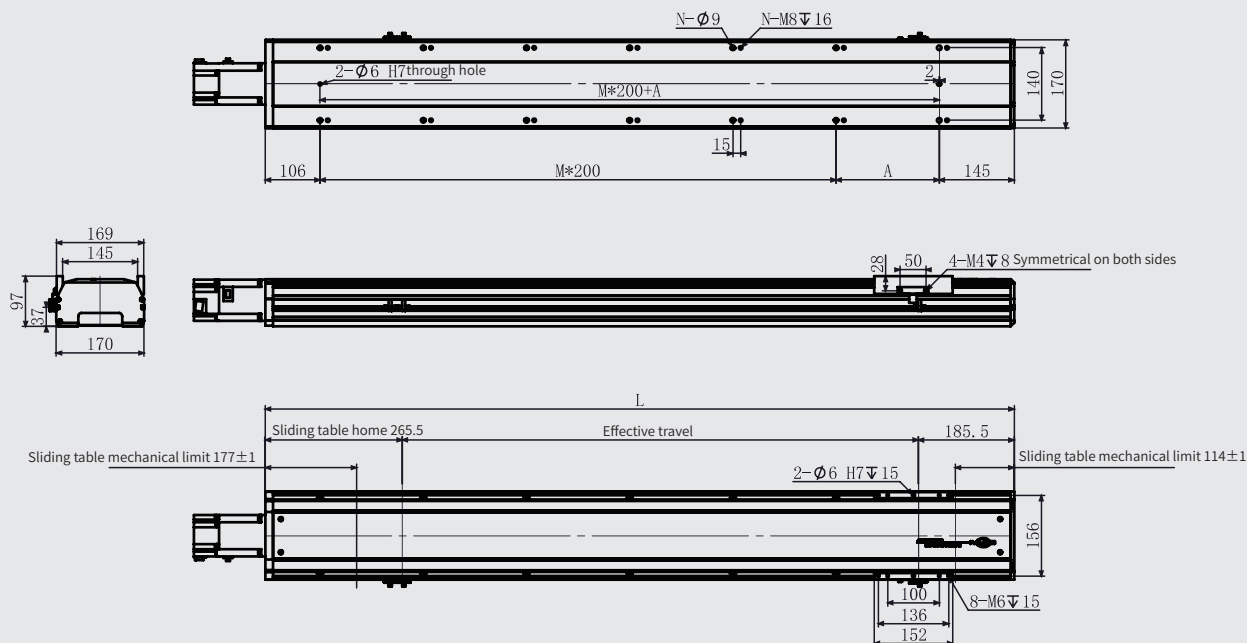
L	Motor Connected on the Left																												
Effective Travel	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550	1,600	1,650	1,750	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200
L	1,219	1,269	1,319	1,369	1,419	1,469	1,519	1,569	1,619	1,669	1,719	1,769	1,819	1,869	1,919	1,969	2,019	2,069	2,119	2,169	2,219	2,269	2,319	2,369	2,419	2,469	2,519	2,569	2,619
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11
N	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26
KG	29.86	30.54	31.22	31.9	32.58	33.26	33.94	34.62	35.3	35.98	36.66	37.34	38.02	38.7	39.38	40.06	40.74	41.42	42.1	42.78	43.46	44.14	44.82	45.5	46.18	46.86	47.54	48.22	48.9



R	Motor Connected on the Right																												
Effective Travel	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550	1,600	1,650	1,750	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200
L	1,219	1,269	1,319	1,369	1,419	1,469	1,519	1,569	1,619	1,669	1,719	1,769	1,819	1,869	1,919	1,969	2,019	2,069	2,119	2,169	2,219	2,269	2,319	2,369	2,419	2,469	2,519	2,569	2,619
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	4	5	5	5	5	6	6	6	6	7	7	7	8	8	8	8	9	9	9	9	9	10	10	10	10	11	11	11	11
N	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	22	22	22	22	22	24	24	24	24	26	26	26	26
KG	29.88	30.56	31.24	31.2	32.6	33.28	33.96	34.64	35.32	36	36.68	37.36	38.04	38.72	39.4	40.08	40.76	41.44	42.12	42.8	43.48	44.16	44.84	45.52	46.2	46.88	47.56	48.24	48.92

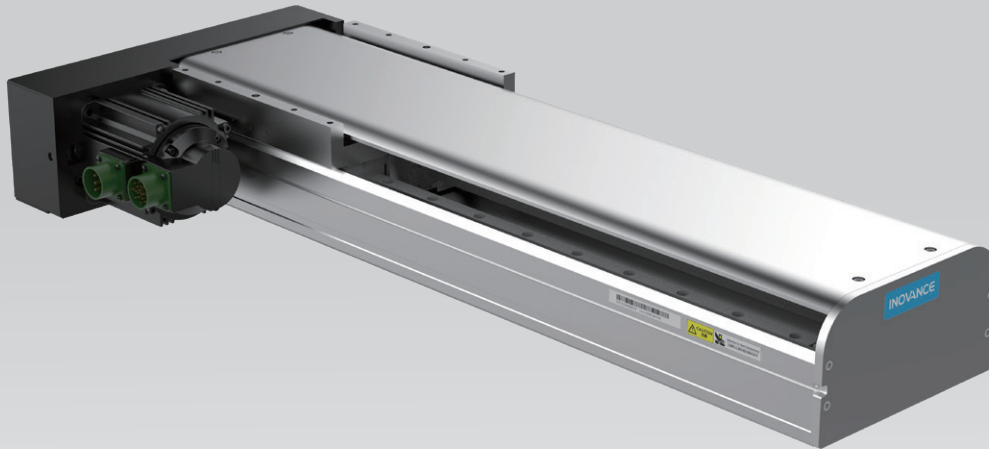


S	Motor Direct Connected																												
Effective Travel	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550	1,600	1,650	1,750	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200
L	1,251	1,301	1,351	1,041	1,451	1,501	1,551	1,601	1,651	1,701	1,750	1,801	1,851	1,901	1,951	2,001	2,051	2,101	2,151	2,201	2,251	2,301	2,351	2,401	2,451	2,501	2,551	2,601	2,651
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	4	5	5	5	5	6	6	6	6	7	7	7	8	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11
N	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26
KG	28.99	29.67	30.35	31.03	31.71	32.39	33.07	33.75	34.43	35.11	35.79	36.47	37.15	37.83	38.51	39.19	39.87	40.55	41.23	41.91	42.59	43.27	43.95	44.63	45.31	45.99	46.67	47.35	48.03



LS 22

Standard Ball Screw Sliding Table Electric Cylinder



Max. travel 1,500 mm

Max. speed 2,000 mm/s

Motor power 750 W/1,000 W

Ball screw $\varnothing 25$ mm

Model Description

L S 22 - 10 R 600 - N 3 - 75 B - VP - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

① Series number L	⑤ Motor position S: Direct connected D: Connected down L: Connected on the left R: Connected on the right	⑧ Sensor quantity N: No sensor 1: 1 2: 2 3: 3
② Cylinder type S: Screw semi-closed		⑨ Motor power 75: 750 W
③ Width 22: 220 mm	⑥ Travel 50 mm to 1,500 mm Interval of 50 mm	⑩ Brake None: No brake B: Brake
④ Lead 5: 5 mm 10: 10 mm 25: 25 mm 50: 50 mm		⑪ Drive type VP: Standard SV660P drive VN: Standard SV660N drive
	⑦ Sensor type N: NPN sensor P: PNP sensor	⑫ Customization

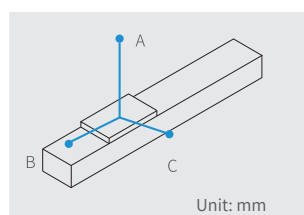
Basic Parameters

Item		Specification			
Repeatability (mm)		± 0.01			
Screw Lead (mm)		5	10	25	50
Max. Speed (mm/s)		250	500	1,250	2,500
Max. Load Capacity	Horizontal Axis (kg)	150	150	70	18
	Vertical Axis (kg)	55	45	20	8
Rated Force (N)		2,563	1,281	513	256
Standard Travel (mm)		50 mm to 1,500 mm, with an interval of 50 mm			
Capacity of AC Servo Motor (W)		750/1,000			
Ball Screw Outer Diameter (mm)		C7 Φ 25			
High-Stiffness Linear Guideway (mm)		W23 x H18			
Coupling (mm)		15 x 19			
Origin Sensor	External	SGT-NH(NPN)/SGT-PH(PNP)			

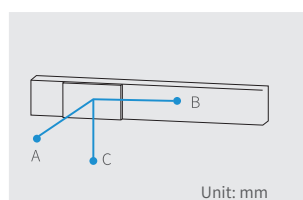
Note: When the travel exceeds 900, the lead screw may deflect. In this case, reduce the speed.

The motor acceleration/deceleration is set to 0.2s.

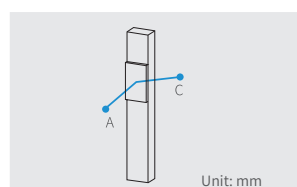
Permissible Load Torque



Horizontal Mounting		A	B	C
Lead 5	100 kg	5,000	633	557
	125 kg	3,880	491	431
	150 kg	3,357	396	347
Lead 10	100 kg	3,220	563	474
	125 kg	2,554	434	367
	150 kg	2,113	349	295
Lead 25	50 kg	1,580	796	475
	60 kg	1,320	663	396
	70 kg	1,120	569	340
Lead 50	13 kg	3,065	1,784	1,163
	18 kg	2,210	1,293	842

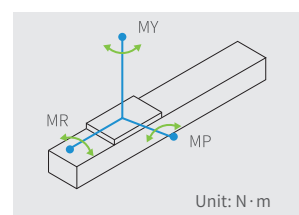


Backplate Mounting		A	B	C
Lead 5	110 kg	500	569	4,500
	130 kg	412	469	3,711
	150 kg	347	396	3,357
Lead 10	110 kg	427	503	2,900
	130 kg	351	414	2,444
	150 kg	295	349	2,113
Lead 25	50 kg	588	790	1,967
	60 kg	490	658	1,640
	70 kg	420	564	1,404
Lead 50	13 kg	1,174	2,256	2,710
	18 kg	848	1,629	1,965



Vertical Mounting		A	C
Lead 5	30 kg	2,355	2,355
	40 kg	1,768	1,768
	55 kg	1,288	1,288
Lead 10	25 kg	2,505	2,505
	35 kg	1,795	1,795
	45 kg	1,396	1,396
Lead 25	15 kg	2,711	2,711
	20 kg	2,033	2,033
	-	-	-
Lead 50	8 kg	3,114	3,114
	-	-	-

Static Allowable Load Inertia



MY	2,052
MP	2,052
MR	1,810

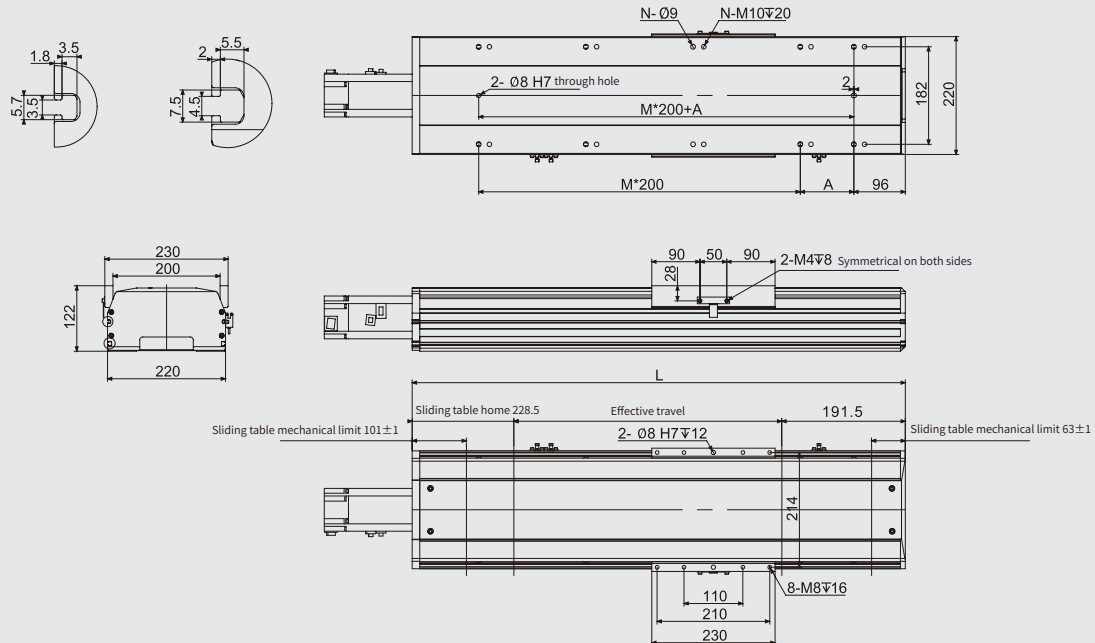
- Data in the torque table specifies the maximum allowable offset distance of the gravity.
- Under normal use in compliance with the specifications in the product catalogs, ensure that the lifetime is 10,000 km.
- Inverted mounting fails to comply with the standard specifications. If required, contact our business personnel.

Servo Motor System Configuration

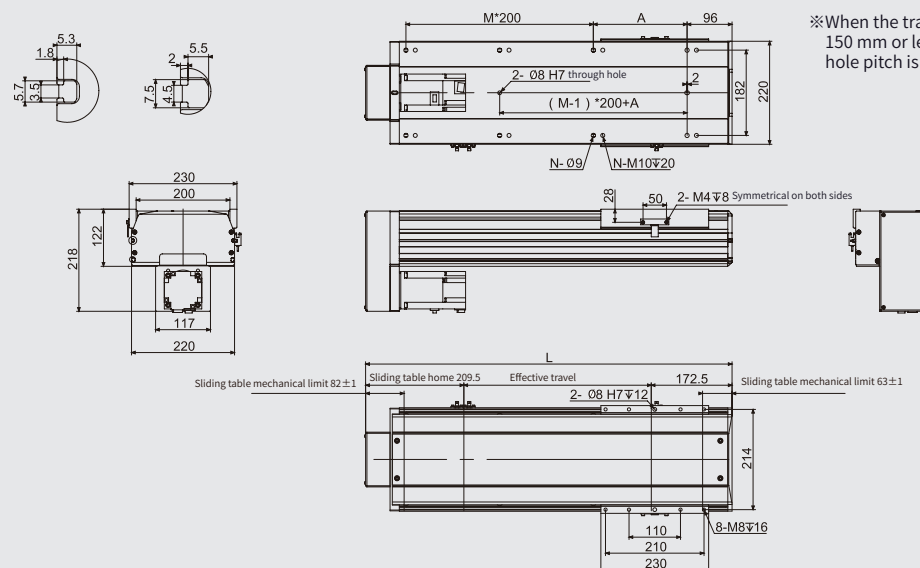
Manufacturer	Motor Marking	Braking	Motor Capacity (W)	Power Voltage (V)	Servo Motor Model
INOVANCE	No	No	750	220	MS1H4-75B30CB-A331R
INOVANCE	B	Yes	750	220	MS1H4-75B30CB-A334R

Travel

S	Motor Direct Connected																													
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500
L	470	520	570	620	670	720	770	820	870	920	970	1,020	1,070	1,120	1,170	1,220	1,270	1,320	1,370	1,420	1,470	1,520	1,570	1,620	1,670	1,720	1,770	1,820	1,870	1,920
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	25.4	26.86	28.32	29.78	31.24	32.7	34.16	35.62	37.08	38.54	40	41.56	42.92	44.38	45.84	47.3	48.76	50.22	51.68	53.14	54.6	56.06	57.52	58.98	60.44	61.9	63.36	64.82	66.28	67.74

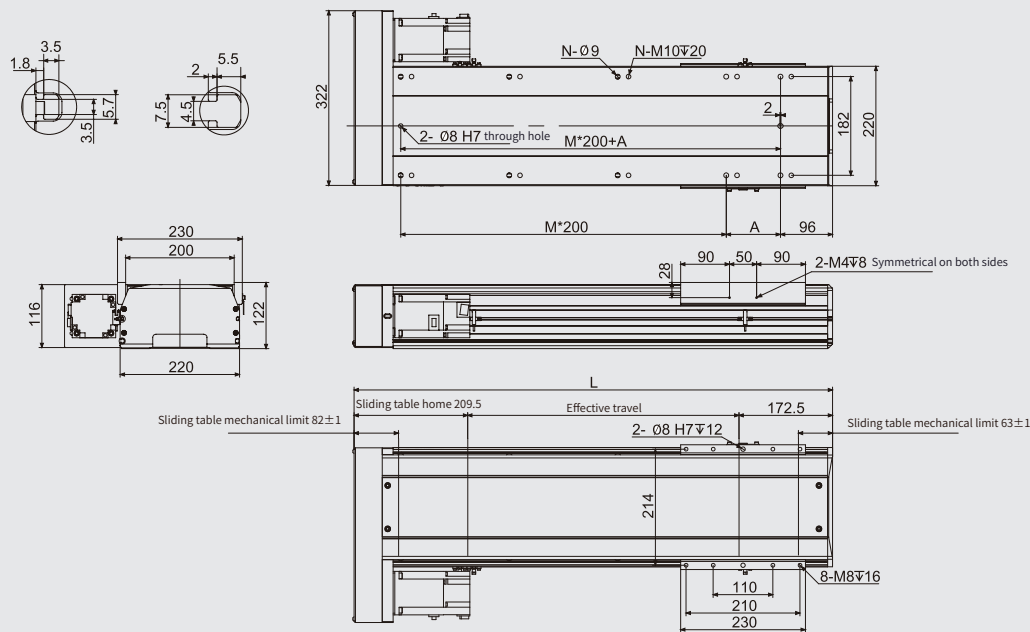


D	Motor Connected Down																													
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500
L	432	482	532	582	632	682	732	782	832	882	932	982	1,032	1,082	1,132	1,182	1,232	1,282	1,332	1,382	1,432	1,482	1,532	1,582	1,632	1,682	1,732	1,782	1,832	1,882
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	24.2	25.66	27.12	28.58	30.04	31.5	32.96	34.42	35.88	37.34	38.8	40.26	41.72	43.18	44.64	46.1	47.56	49.02	50.48	51.94	53.4	54.86	56.32	57.78	59.24	60.7	62.16	63.62	65.08	66.54

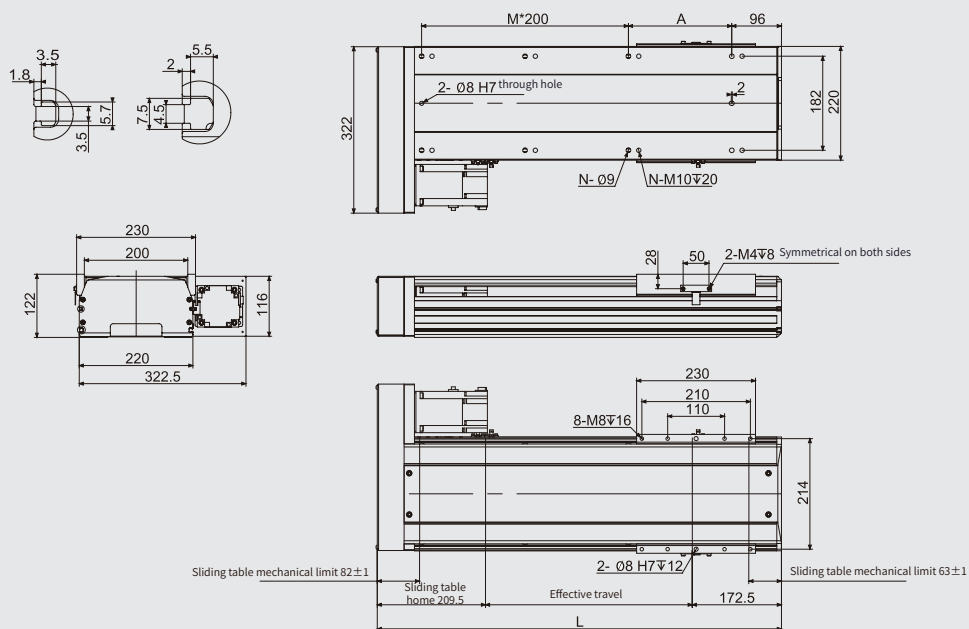


Travel

L	Motor Connected on the Left																			
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000
L	432	482	532	582	632	682	732	782	832	882	932	982	1,032	1,082	1,132	1,182	1,232	1,282	1,332	1,382
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	16
KG	24.2	25.66	27.12	28.58	30.04	31.5	32.96	34.42	35.88	37.34	38.8	40.26	41.72	43.18	44.64	46.1	47.56	49.02	50.48	51.94



R	Motor Connected on the Right																			
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000
L	432	482	532	582	632	682	732	782	832	882	932	982	1,032	1,082	1,132	1,182	1,232	1,282	1,332	1,382
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	16
KG	24.2	25.66	27.12	28.58	30.04	31.5	32.96	34.42	35.88	37.34	38.8	40.26	41.72	43.18	44.64	46.1	47.56	49.02	50.48	51.94



LS 22M**Standard Ball Screw Sliding
Table Electric Cylinder**

Max. travel	2,400 mm	Max. speed	1,600 mm/s		
Motor power	750 W	Ball screw	ø25 mm	Linear slide rail	20 x 15 - 2

Model Description

L S 22M - 10 R 600 - N 3 - 75 B - VP - XX
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

① Series number L	⑤ Motor position S: Direct connected D: Connected down L: Connected on the left R: Connected on the right	⑧ Sensor quantity N: No sensor 1: 1 2: 2 3: 3
② Cylinder type S: Lead screw semi-closed		⑨ Motor power 75: 750 W
③ Width 22: 220 mm	⑥ Travel 850 mm to 2,400 mm Interval of 50 mm	⑩ Brake None: No brake B: Brake
④ Lead 5: 5 mm 10: 10 mm 25: 25 mm 50: 50 mm		⑪ Drive type VP: Standard SV660P drive VN: Standard SV660N drive
	⑦ Sensor type N: NPN sensor P: PNP sensor	⑫ Customization

LS Series

LSC Series

GS Series

LEB Series

LB Series

LBC Series

KS Series

LY Series

GY Series

Basic Parameters

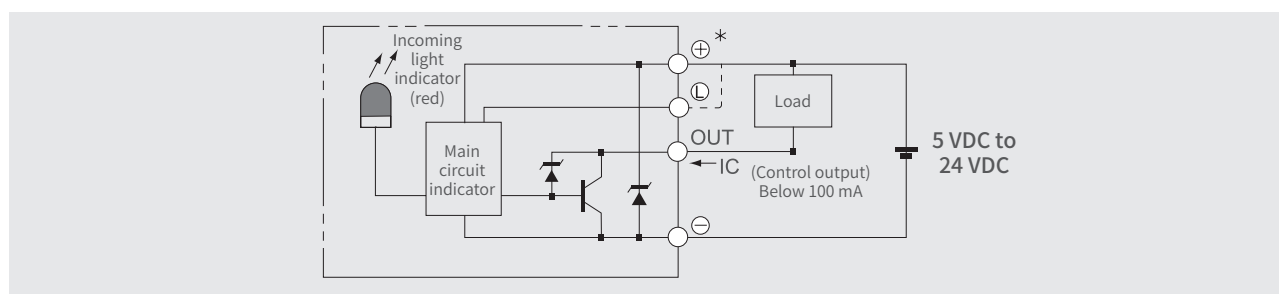
Item		Specification			
Repeatability (mm)		± 0.01			
Screw Lead (mm)		5	10	25	50
Max. Speed (mm/s)		200	400	1,000	2,000
Max. Load Capacity	Horizontal Axis (kg) ^(Note 2)	130	130	52	14
	Vertical Axis (kg)	50	40	17	6
Rated Force (N)		2,563	1,281	511	255
Standard Travel (mm)		850 mm to 2,400 mm, with an interval of 50 mm			
Power of AC Servo Motor (W)		750			
Ball Screw Outer Diameter		C7 Φ 25			
High-Stiffness Linear Slide Rail (mm)		W20 x H15			
Coupling		15 x 19			
Origin Sensor	External	SGT-NH(NPN)/SGT-PH(PNP)			

Note: When the travel exceeds 2,050, the lead screw may deflect. In this case, reduce the speed.

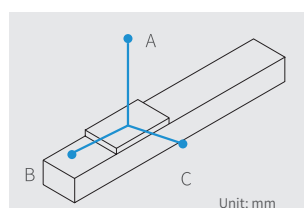
Note: The motor acceleration/deceleration is set to 0.2s.

Note: The maximum speed of the motor is 2,400 rpm.

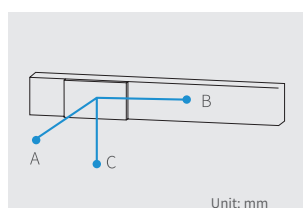
Sensor Connection Diagram



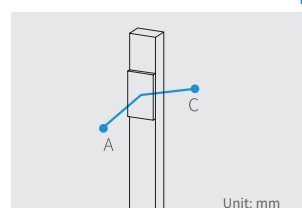
Permissible Load Torque



Horizontal Mounting		A	B	C
Lead 5	80 kg	3,311	411	403
	100 kg	2,534	320	308
	130 kg	2,113	228	221
Lead 10	70 kg	2,700	430	394
	90 kg	2,022	320	294
	130 kg	1,311	198	184
Lead 25	32 kg	2,048	826	560
	42 kg	1,555	630	427
	52 kg	1,260	509	345
Lead 50	14 kg	1,558	875	610

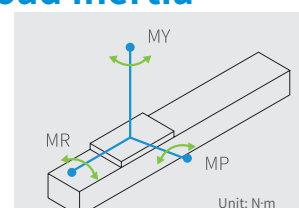


Backplate Mounting		A	B	C
Lead 5	85 kg	370	388	3,066
	105 kg	288	299	2,389
	130 kg	221	228	2,113
Lead 10	75 kg	368	398	2,515
	95 kg	277	300	1,926
	130 kg	184	198	1,328
Lead 25	32 kg	550	936	1,800
	42 kg	419	720	1,358
	52 kg	339	582	1,095
Lead 50	14 kg	597	1,073	1,330



Vertical Mounting		A	C
Lead 5	30 kg	1,301	1,301
	40 kg	977	977
	50 kg	781	781
Lead 10	20 kg	1,735	1,735
	30 kg	1,156	1,156
	40 kg	867	867
Lead 25	12 kg	2,139	2,139
	17 kg	1,510	1,510
	-	-	-
Lead 50	6 kg	2,040	2,040

Static Allowable Load Inertia



MY	1,254
MP	1,254
MR	1,254

Data in the torque table specifies the maximum allowable offset distance of the gravity.

Under normal use in compliance with the specifications in the product catalogs, ensure that the lifetime is 10,000 km.

Inverted mounting fails to comply with the standard specifications. If required, contact our business personnel.

GY Series

[illegible]

Travel

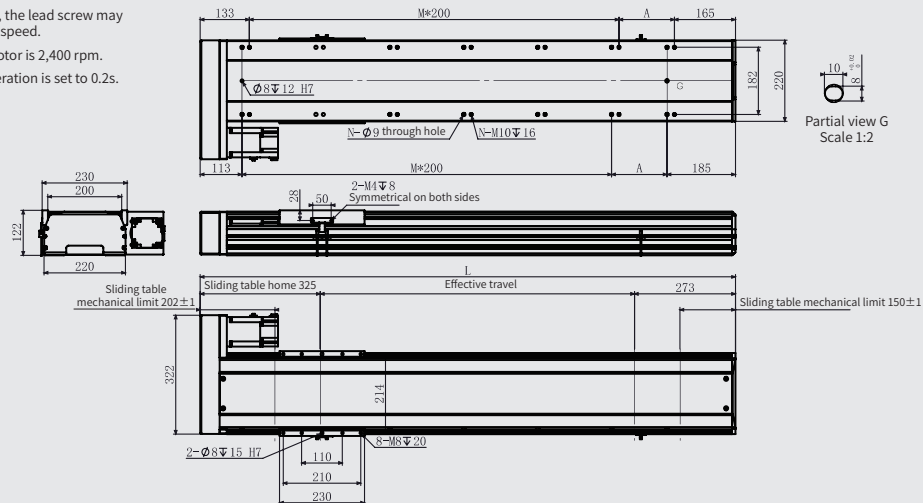
R	Motor Connected on the Right																	
Effective Travel	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550	1,600	1,650	1,700
L	1,448	1,498	1,548	1,598	1,648	1,698	1,748	1,798	1,848	1,898	1,948	1,998	2,048	2,098	2,148	2,198	2,248	2,298
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9
N	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22
KG	55.11	56.4	57.83	59.19	60.55	61.91	63.27	64.63	65.99	67.35	68.71	70.07	71.43	72.79	74.15	75.51	76.87	78.23

R	Motor Connected on the Right																	
Effective Travel	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400	2,450	2,500	2,550	2,600
L	2,348	2,398	2,448	2,498	2,548	2,598	2,648	2,698	2,748	2,798	2,848	2,898	2,948	2,998	3,048	3,098	3,148	3,198
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14
N	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32
KG	79.59	80.95	82.31	83.67	85.03	86.39	87.75	89.11	90.47	91.83	93.19	94.55	95.91	97.27	98.63	99.99	101.35	102.71

*When the travel exceeds 2,050, the lead screw may deflect. In this case, reduce the speed.

*The maximum speed of the motor is 2,400 rpm.

*The motor acceleration/deceleration is set to 0.2s.



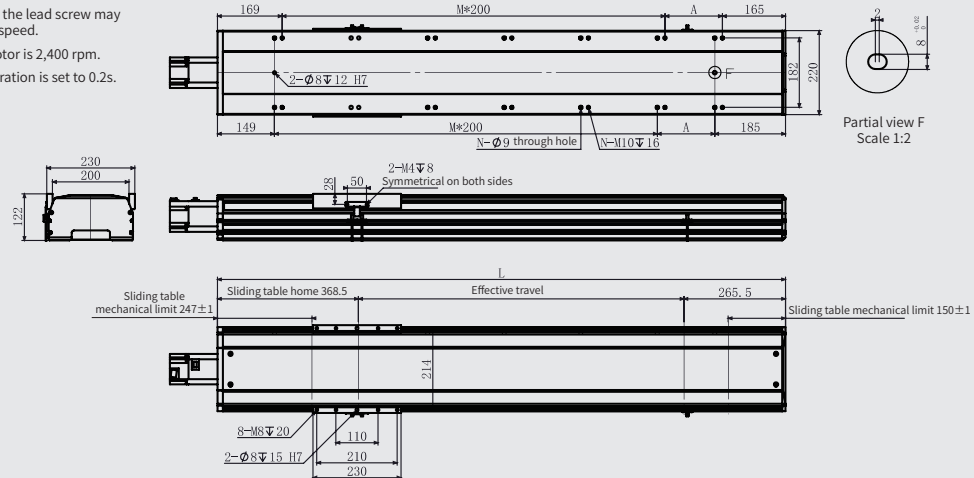
S	Motor Direct Connected																	
Effective Travel	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550	1,600	1,650	1,700
L	1,484	1,534	1,584	1,634	1,684	1,734	1,784	1,834	1,884	1,934	1,984	2,034	2,084	2,134	2,184	2,234	2,284	2,334
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9
N	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22
KG	53.91	55.27	56.63	57.99	59.35	60.71	62.07	63.43	64.79	66.15	67.51	68.87	70.23	71.59	72.95	74.32	75.67	77.03

S	Motor Direct Connected																	
Effective Travel	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400	2,450	2,500	2,550	2,600
L	2,384	2,434	2,484	2,534	2,584	2,634	2,684	2,734	2,784	2,834	2,884	2,934	2,984	3,034	3,084	3,134	3,184	3,234
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14
N	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32
KG	78.39	79.75	81.11	82.41	83.83	85.19	86.55	87.91	89.27	90.63	91.99	93.35	94.71	96.07	97.43	98.79	100.15	101.51

*When the travel exceeds 2,050, the lead screw may deflect. In this case, reduce the speed.

*The maximum speed of the motor is 2,400 rpm.

*The motor acceleration/deceleration is set to 0.2s.



LS 27

Standard Ball Screw Sliding
Table Electric Cylinder

Max. travel	1,950 mm	Max. speed	1,066 mm/s
-------------	----------	------------	------------

Motor power	1,500 W	Ball screw	ø32 mm	Linear slide rail	25 x 20 - 2
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Model Description

L S 27 - 10 R 600 - N 3 - 150 B - VP - XX
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

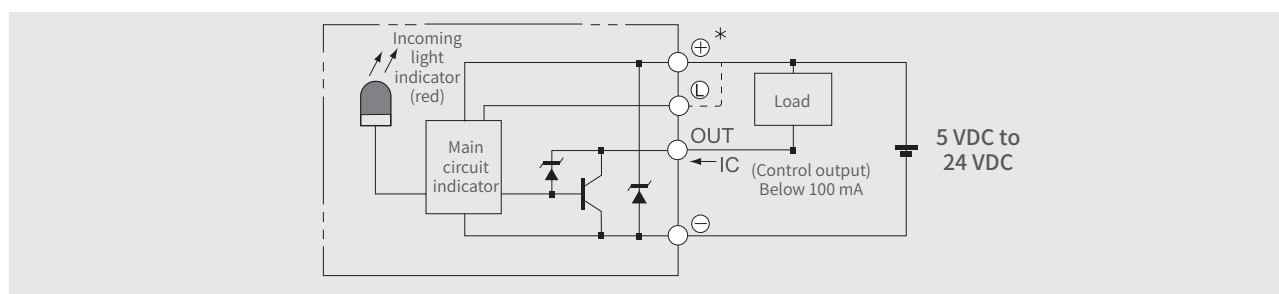
① Series number L	⑤ Motor position S: Direct connected D: Connected down L: Connected on the left R: Connected on the right	⑧ Sensor quantity N: No sensor 1: 1 2: 2 3: 3
② Cylinder type S: Lead screw semi-closed		⑨ Motor power 150: 1,500 W
③ Width 27: 270 mm	⑥ Travel 50 mm to 1,950 mm Interval of 50 mm	⑩ Brake None: No brake B: Brake
④ Lead 10: 10 mm 20: 20 mm 32: 32 mm		⑪ Drive type VP: Standard SV660P drive VN: Standard SV660N drive
	⑦ Sensor type N: NPN sensor P: PNP sensor	⑫ Customization

Basic Parameters

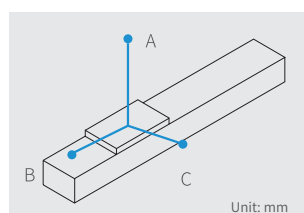
Item		Specification		
Repeatability (mm)		± 0.01		
Screw Lead (mm)		10	20	32
Max. Speed (mm/s)		333	666	1,066
Max. Load Capacity	Horizontal Axis (kg) ^(Note 2)	320	180	75
	Vertical Axis (kg)	150	75	35
Rated Force (N)		3,820	1,910	1,195
Standard Travel (mm)		50 mm to 1,950 mm, with an interval of 50 mm		
Power of AC Servo Motor (W)		1,500		
Ball Screw Outer Diameter		C7 Φ 32		
High-Stiffness Linear Slide Rail (mm)		25		
Coupling		20 x 24/22		
Origin Sensor	External	SGT-NH(NPN)/SGT-PH(PNP)		

Note: The motor acceleration/deceleration is set to 0.4s.

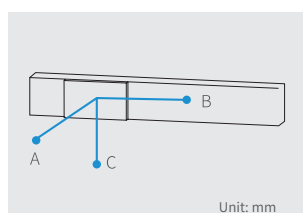
Sensor Connection Diagram



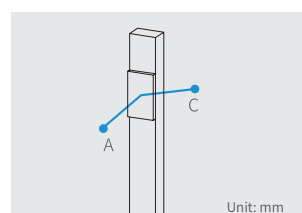
Permissible Load Torque



Horizontal Mounting		A	B	C
Lead 10	120 kg	900	580	630
	160 kg	860	390	415
	320 kg	800	255	260
Lead 20	100 kg	1,100	500	490
	140 kg	1,100	400	395
	180 kg	1,000	250	260
Lead 32	60 kg	650	560	600
	75 kg	550	330	330
	-	-	-	-

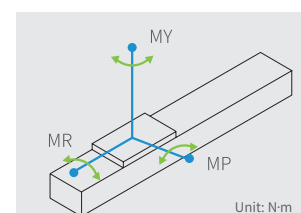


Backplate Mounting		A	B	C
Lead 10	100 kg	610	570	780
	150 kg	390	386	600
	200 kg	365	285	650
Lead 20	80 kg	600	600	600
	120 kg	390	400	450
	160 kg	260	300	600
Lead 32	60 kg	480	500	560
	70 kg	300	320	500
	-	-	-	-



Vertical Mounting		A	C
Lead 10	60 kg	950	950
	90 kg	720	720
	150 kg	430	430
Lead 20	40 kg	1,000	1,000
	60 kg	830	830
	75 kg	610	610
Lead 32	35 kg	650	650
	-	-	-
	-	-	-

Static Allowable Load Inertia



MY	4,408
MP	4,408
MR	3,860

Data in the torque table specifies the maximum allowable offset distance of the gravity.

Under normal use in compliance with the specifications in the product catalogs, ensure that the lifetime is 10,000 km.

Travel

LS Series

LSC Series

GS Series

LEB Series

LB Series

LBC Series

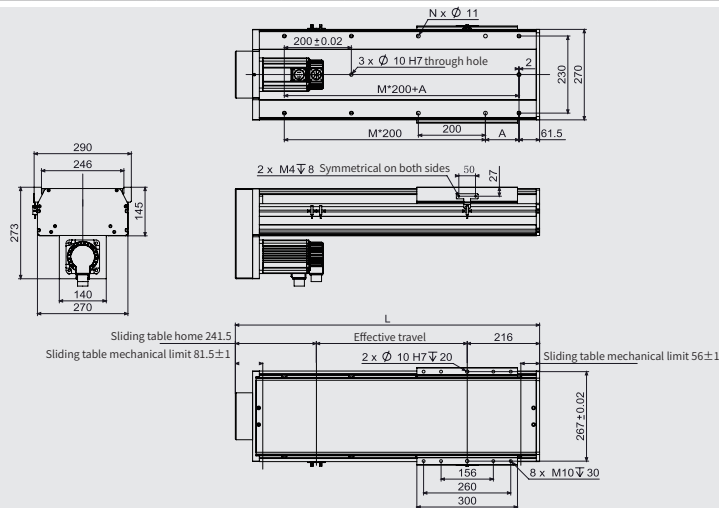
KS Series

LY Series

GY Series

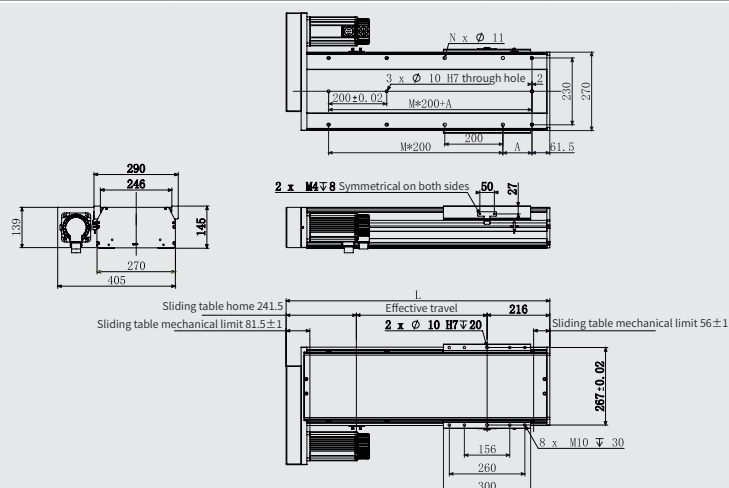
D	Motor Connected Down																		
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
L	507.5	557.5	607.5	657.5	707.5	757.5	807.5	857.5	907.5	957.5	1,007.5	1,057.5	1,107.5	1,157.5	1,207.5	1,257.5	1,307.5	1,357.5	1,407.5
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	39.79	41.74	43.69	45.64	47.59	49.54	51.49	53.44	55.39	57.34	59.29	61.24	63.19	65.14	67.09	69.04	70.99	72.94	74.89

D	Motor Connected Down																		
Effective Travel	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550	1,600	1,650	1,700	1,750	1,800	1,850	1,900
L	1,457.5	1,507.5	1,557.5	1,607.5	1,657.5	1,707.5	1,757.5	1,807.5	1,857.5	1,907.5	1,957.5	2,007.5	2,057.5	2,107.5	2,157.5	2,207.5	2,257.5	2,307.5	2,357.5
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10
N	16	16	16	16	18	18	18	18	20	20	20	20	20	22	22	22	24	24	24
KG	76.84	78.79	80.74	82.69	84.64	86.59	88.54	90.49	92.44	94.39	96.34	98.29	100.24	102.19	104.14	106.09	108.04	109.99	111.94



L	Motor Connected on the Left																		
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
L	507.5	557.5	607.5	657.5	707.5	757.5	807.5	857.5	907.5	957.5	1,007.5	1,057.5	1,107.5	1,157.5	1,207.5	1,257.5	1,307.5	1,357.5	1,407.5
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	39.79	41.74	43.69	45.64	47.59	49.54	51.49	53.44	55.39	57.34	59.29	61.24	63.19	65.14	67.09	69.04	70.99	72.94	74.89

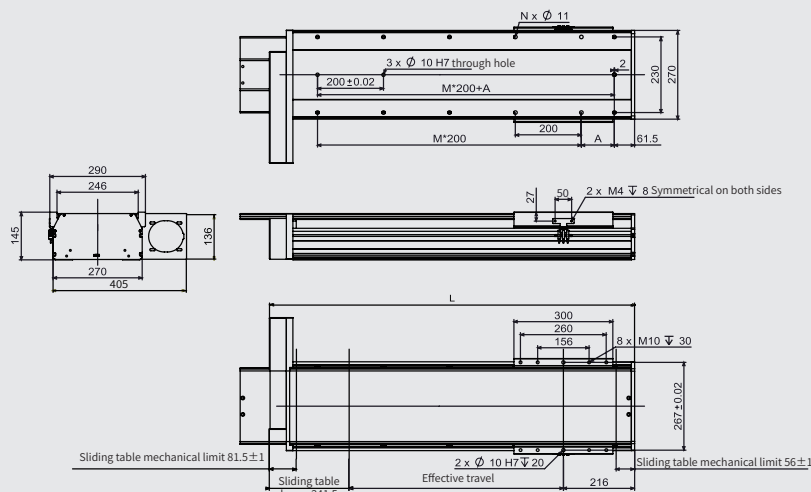
L	Motor Connected on the Left																		
Effective Travel	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550	1,600	1,650	1,700	1,750	1,800	1,850	1,900
L	1,457.5	1,507.5	1,557.5	1,607.5	1,657.5	1,707.5	1,757.5	1,807.5	1,857.5	1,907.5	1,957.5	2,007.5	2,057.5	2,107.5	2,157.5	2,207.5	2,257.5	2,307.5	2,357.5
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10
N	16	16	16	16	18	18	18	18	20	20	20	20	20	22	22	22	24	24	24
KG	76.84	78.79	80.74	82.69	84.64	86.59	88.54	90.49	92.44	94.39	96.34	98.29	100.24	102.19	104.14	106.09	108.04	109.99	111.94



Travel

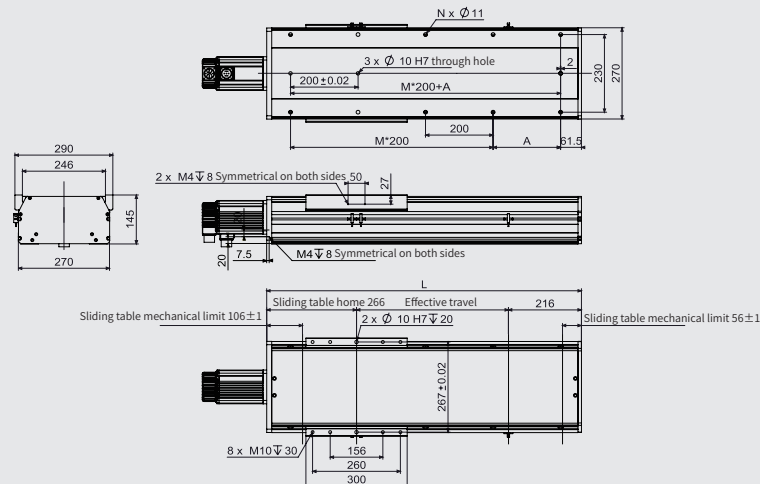
R	Motor Connected on the Right																		
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
L	507.5	557.5	607.5	657.5	707.5	757.5	807.5	857.5	907.5	957.5	1,007.5	1,057.5	1,107.5	1,157.5	1,207.5	1,257.5	1,307.5	1,357.5	1,407.5
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	39.79	41.74	43.69	45.64	47.59	49.54	51.49	53.44	55.39	57.34	59.29	61.24	63.19	65.14	67.09	69.04	70.99	72.94	74.89

R	Motor Connected on the Right																		
Effective Travel	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550	1,600	1,650	1,700	1,750	1,800	1,850	1,900
L	1,457.5	1,507.5	1,557.5	1,607.5	1,657.5	1,707.5	1,757.5	1,807.5	1,857.5	1,907.5	1,957.5	2,007.5	2,057.5	2,107.5	2,157.5	2,207.5	2,257.5	2,307.5	2,357.5
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10
N	16	16	16	16	18	18	18	18	20	20	20	20	20	22	22	22	24	24	24
KG	76.84	78.79	80.74	82.69	84.64	86.59	88.54	90.49	92.44	94.39	96.34	98.29	100.24	102.19	104.14	106.09	108.04	109.99	111.94



S	Motor Direct Connected																		
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
L	532	582	632	682	732	782	832	882	932	982	1,032	1,082	1,132	1,182	1,232	1,282	1,332	1,382	1,432
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6
N	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16
KG	40.5	42.45	44.4	46.35	48.3	50.25	52.2	54.15	56.1	58.05	60	61.95	63.9	65.85	67.8	69.75	71.7	73.65	75.6

S	Motor Direct Connected																		
Effective Travel	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550	1,600	1,650	1,700	1,750	1,800	1,850	1,900
L	1,482	1,532	1,582	1,632	1,682	1,732	1,782	1,832	1,882	1,932	1,982	2,032	2,082	2,132	2,182	2,232	2,282	2,332	2,382
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11
N	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26
KG	77.55	79.5	81.45	83.4	85.35	87.3	89.25	91.2	93.15	95.1	97.05	99	100.95	102.9	104.85	106.8	108.75	110.75	112.65

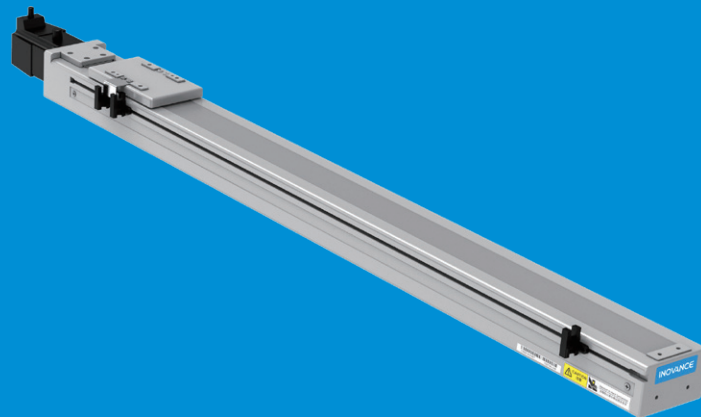


Sliding Table Series

LSC Series

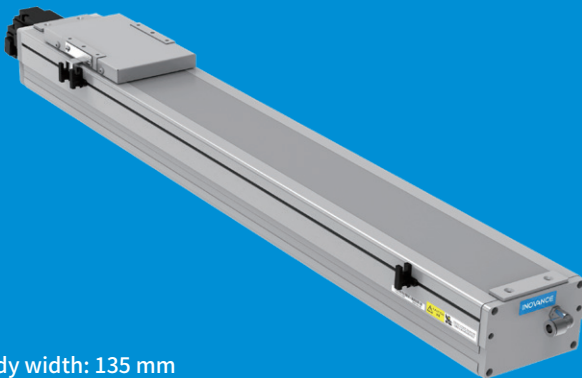
Dust Free Ball Screw Sliding Table
Electric Cylinder

Medium LSC12



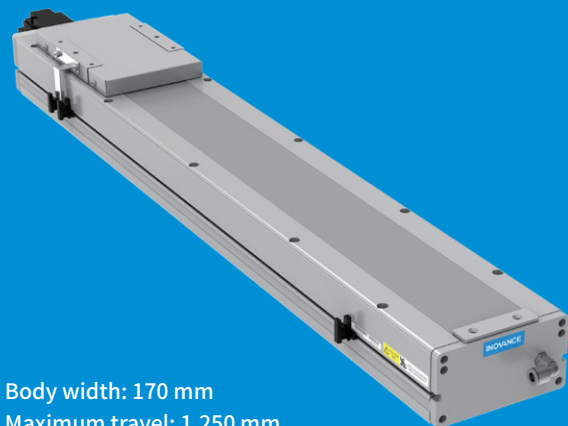
Body width: 102 mm
Maximum travel: 1,050 mm
Repeatability: ± 0.01

Medium LSC14



Body width: 135 mm
Maximum travel: 1,050 mm
Repeatability: ± 0.01

Large LSC17



Body width: 170 mm
Maximum travel: 1,250 mm
Repeatability: ± 0.01

Specifications Index

Dust Free Ball Screw Sliding Table Electric Cylinder

Working Environment	Transmission Mode	Specification	Motor Power	Body Width	Repeatability	Lead Screw Specification		Max. Load Capacity	
						Outer Diameter	Lead	Horizontal Axis	Vertical Axis
Dustfree environment	Ball screw	LSC12	100 W	102	±0.01	16	5	50	12
							10	30	8
							20	18	3
							32	5	-
		LSC12	200 W	102	±0.01	16	5	50	12
							10	30	8
							20	18	3
							32	5	-
		LSC14	200 W	135	±0.01	16	5	95	27
							10	75	18
							20	35	7
							32	15	-
		LSC14	400 W	135	±0.01	16	5	110	33
							10	88	22
							20	40	10
							32	30	8
		LSC17	400 W	170	±0.01	20	5	120	40
							10	110	30
							20	75	14
							40	22	7
		LSC17	750 W	170	±0.01	20	5	120	50
							10	120	40
							20	83	25
							40	43	12

Specification	Max. Speed	Standard Travel and Max. Operating Speed																											
		50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300		
LSC12	250	250																225	200	175	150	125	100						
	500	500																450	400	350	300	250	200						
	1,000	1,000																900	800	700	600	500	400						
	1,600	1,600																1,440	1,280	1,120	960	800	640						
	250	250																225	200	175	150	125	100						
	500	500																450	400	350	300	250	200						
	1,000	1,000																900	800	700	600	500	400						
	1,600	1,600																1,440	1,280	1,120	960	800	640						
LSC14	250	250																225	200	175	150	125	100						
	500	500																450	400	350	300	250	200						
	1,000	1,000																900	800	700	600	500	400						
	1,600	1,600																1,440	1,280	1,120	960	800	640						
	250	250																225	200	175	150	125	100						
	500	500																450	400	350	300	250	200						
	1,000	1,000																900	800	700	600	500	400						
	1,600	1,600																1,440	1,280	1,120	960	800	640						
LSC17	250	250																225		200		175		150					
	500	500																450		400		350		300					
	1,000	1,000																900		800		700		600					
	2,000	2,000																1,800		1,600		1,400		1,200					
	250	250																225		200		175		150					
	500	500																450		400		350		300					
	1,000	1,000																900		800		700		600					
	2,000	2,000																1,800		1,600		1,400		1,200					

Note 1: The maximum speed (mm/s) is set based on the rated speed of 3,000 rpm of the servo motor.

Note 2: Black numbers in the standard travel columns indicate the maximum safe speeds for corresponding travels.

Exceeding the maximum speeds may cause severe resonance in the sliding table.

Speed

LSC 12

Dust Free Ball Screw Sliding Table Electric Cylinder



Max. travel 1,050 mm

Max. speed 1,600 mm/s

Motor power 100 W

Ball screw ø16 mm

Linear slide rail 17 x 7.5 - 2

Model Description

L SC 12 - 10 R 600 - N 3 - 10 B - VP - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

① Series number L	⑤ Motor position S: Direct connected D: Connected down L: Connected on the left R: Connected on the right	⑧ Sensor quantity N: No sensor 1: 1 2: 2 3: 3
② Cylinder type SC: Screw fully-closed		⑨ Motor power 10: 100 W
③ Width 12: 102 mm	⑥ Travel 50 mm to 1,050 mm Interval of 50 mm	⑩ Brake None: No brake B: Brake
④ Lead 5: 5 mm 10: 10 mm 20: 20 mm 32: 32 mm		⑪ Drive type VP: Standard SV660P drive VN: Standard SV660N drive
	⑦ Sensor type N: NPN sensor P: PNP sensor	⑫ Customization

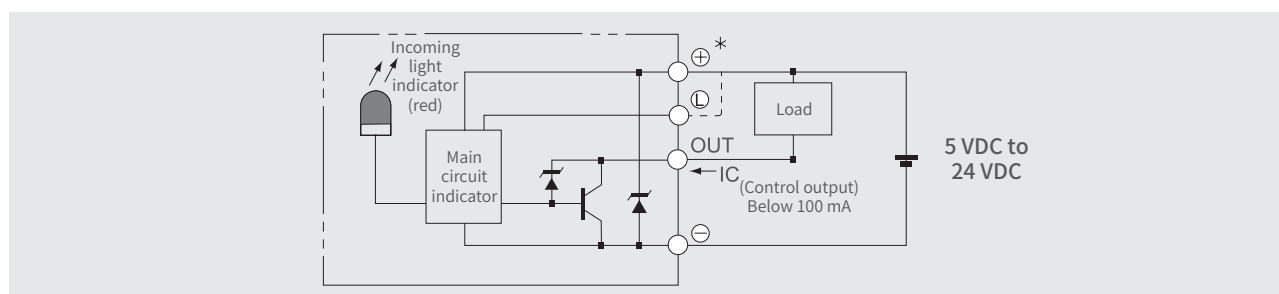
Basic Parameters

Item		Specification			
Repeatability (mm)		± 0.01			
Screw Lead (mm)		5	10	20	32
Max. Speed (mm/s)		250	500	1,000	1,600
Max. Load Capacity	Horizontal Axis (kg) ^(Note 2)	50	30	18	5
	Vertical Axis (kg)	12	8	3	-
Rated Force (N)		341	170	85	53
Standard Travel (mm)		50 mm to 1,050 mm, with an interval of 50 mm			
Power of AC Servo Motor (W)		100			
Ball Screw Outer Diameter		C7 Φ 16			
High-Stiffness Linear Slide Rail (mm)		W12 x H7.5			
Coupling		10 x 8			
Origin Sensor	External	SGT-NH(NPN)/SGT-PH(PNP)			

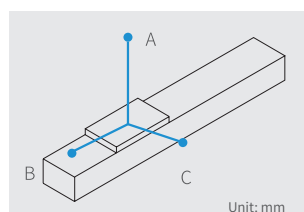
Note: When the travel exceeds 750, the lead screw may deflect. In this case, reduce the speed.

Note: The motor acceleration/deceleration is set to 0.2s.

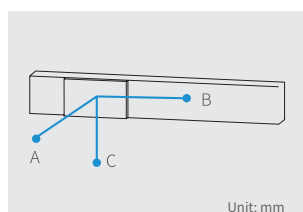
Sensor Connection Diagram



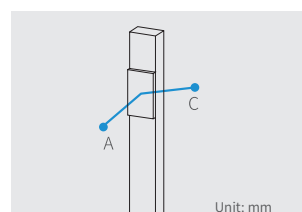
Permissible Load Torque



Horizontal Mounting		A	B	C
Lead 5	30 kg	882	65	78
	40 kg	606	43	51
	50 kg	437	29	35
Lead 10	15 kg	875	138	157
	25 kg	485	73	83
	30 kg	386	56	64
Lead 20	5 kg	1,160	384	386
	10 kg	561	180	181
	18 kg	288	88	89
Lead 32	3 kg	822	444	385
	5 kg	492	255	224
		-	-	-

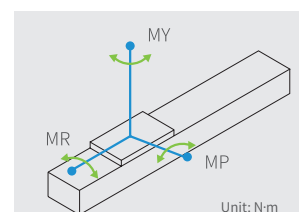


Backplate Mounting		A	B	C
Lead 5	25 kg	100	84	1,102
	35 kg	63	52	725
	50 kg	35	29	433
Lead 10	10 kg	250	221	1,311
	20 kg	110	97	633
	30 kg	64	56	385
Lead 20	6 kg	317	316	955
	12 kg	147	144	455
	18 kg	89	88	288
Lead 32	2 kg	591	682	1,256
	5 kg	224	255	488
		-	-	-



Vertical Mounting		A	C
Lead 5	5 kg	544	544
	11 kg	341	341
	15 kg	227	227
Lead 10	4 kg	606	606
	8 kg	303	303
	-	-	-
Lead 20	3 kg	961	961
	6 kg	639	639
	-	-	-

Static Allowable Load Inertia



MY	150
MP	150
MR	130

Data in the torque table specifies the maximum allowable offset distance of the gravity.

Under normal use in compliance with the specifications in the product catalogs, ensure that the lifetime is 10,000 km.

Inverted mounting fails to comply with the standard specifications. If required, contact our business personnel.

Travel

LS Series

LSC Series

GS Series

LEB Series

LB Series

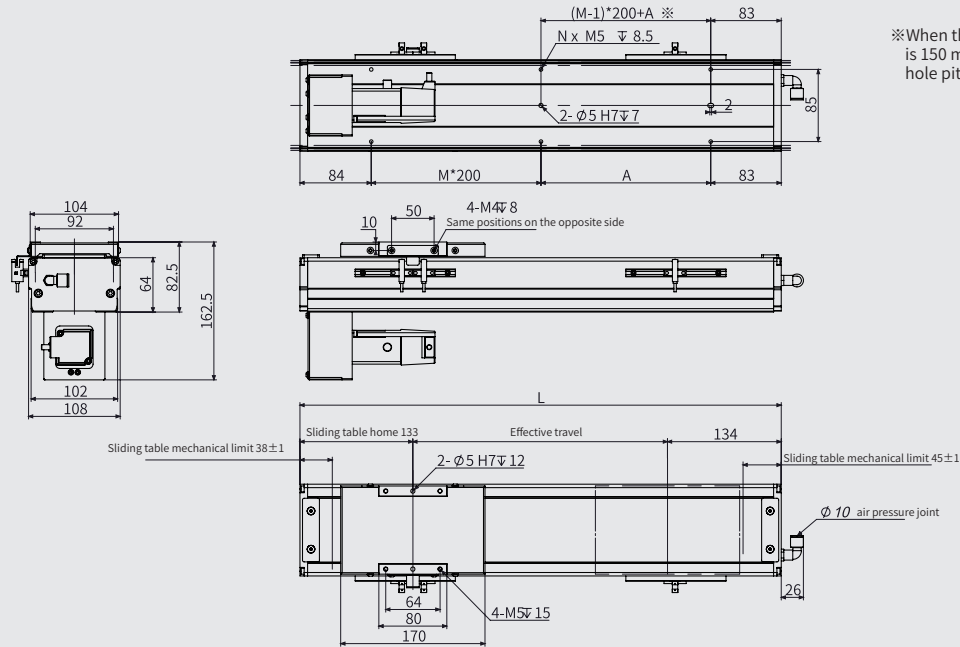
LBC Series

KS Series

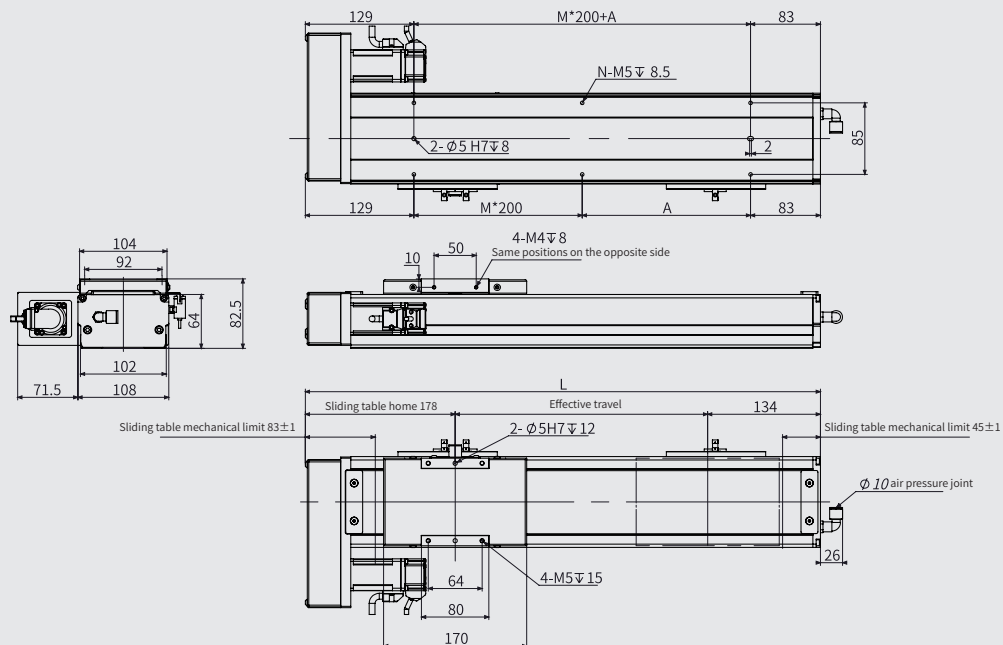
LY Series

GY Series

D	Motor Connected Down																				
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050
L	317	367	417	467	517	567	617	667	717	767	817	867	917	967	1,017	1,067	1,117	1,167	1,217	1,267	1,317
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
KG	5.38	5.83	6.27	6.72	7.17	7.61	8.06	8.51	8.95	9.4	9.85	10.29	10.74	11.19	11.63	12.08	12.53	12.97	13.42	13.87	14.32

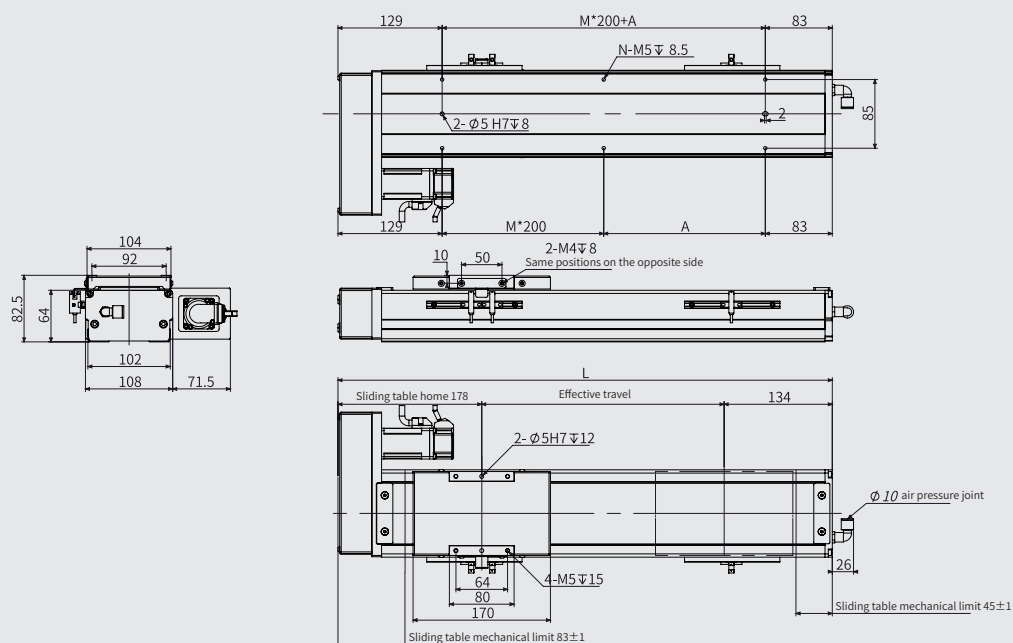


L	Motor Connected on the Left																				
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050
L	362	412	462	512	562	612	662	712	762	812	862	912	962	1,012	1,062	1,112	1,162	1,212	1,262	1,312	1,362
A	150	200	50	100	150	200	50	100	150	200	50	100	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
KG	5.84	6.29	6.74	7.19	7.64	8.09	8.54	8.99	9.44	9.9	10.35	10.80	11.25	11.70	12.15	12.6	13.1	13.5	13.95	14.4	14.86

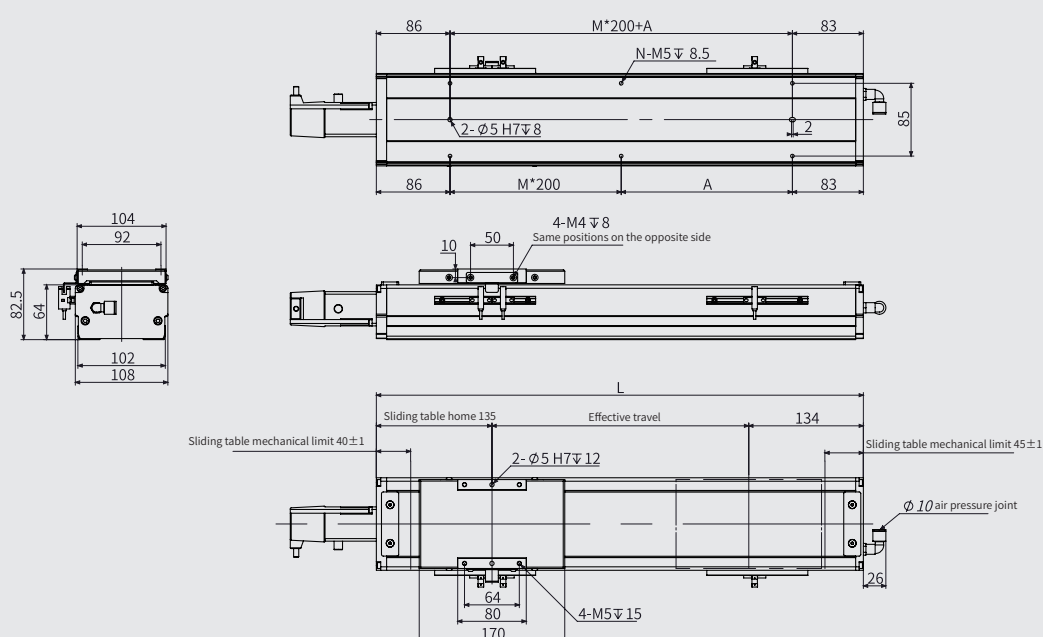


Travel

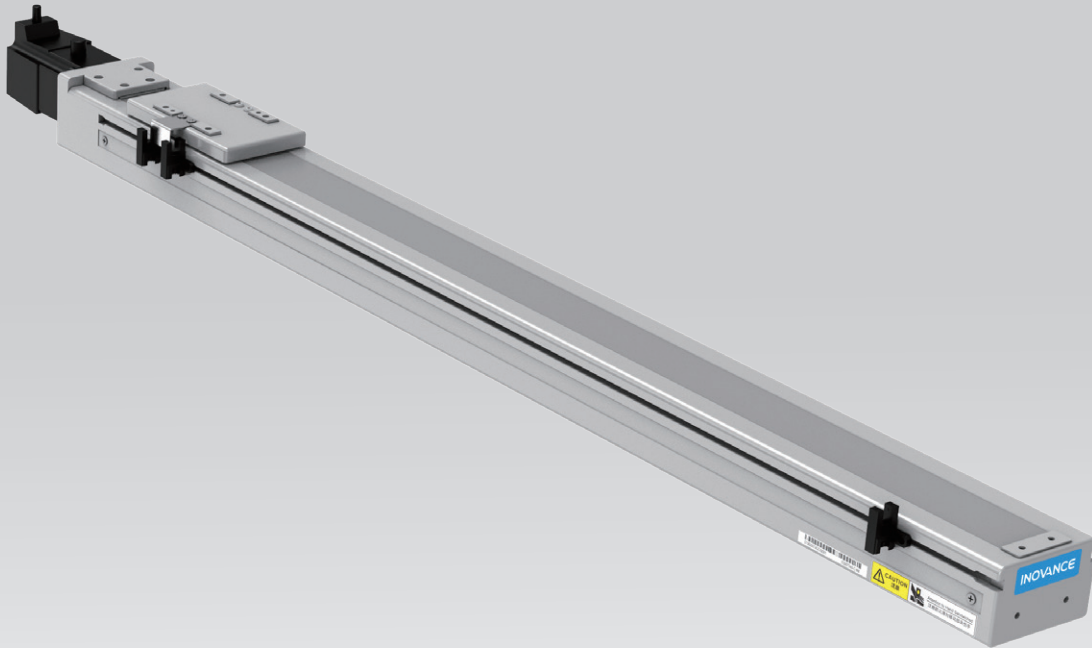
R	Motor Connected on the Right																				
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050
L	362	412	462	512	562	612	662	712	762	812	862	912	962	1,012	1,062	1,112	1,162	1,212	1,262	1,312	1,362
A	150	200	50	100	150	200	50	100	150	200	50	100	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
KG	5.84	6.29	6.74	7.19	7.64	8.09	8.54	8.99	9.44	9.9	10.35	10.80	11.25	11.70	12.15	12.6	13.1	13.5	13.95	14.4	14.86



S	Motor Direct Connected																				
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050
L	319	369	419	469	519	569	619	669	719	769	819	869	919	969	1,019	1,069	1,119	1,169	1,219	1,269	1,319
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	2	2	2	2	3	3	3	3	4	4	4	4	5	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
KG	5.23	5.68	6.13	6.58	7.04	7.49	7.94	8.39	8.84	9.29	9.74	10.19	10.64	11.09	11.55	12	12.45	12.9	13.35	13.8	14.25



LSC 12

Dust Free Ball Screw Sliding
Table Electric Cylinder

Max. travel	1,050 mm	Max. speed	1,600 mm/s
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Motor power	200 W	Ball screw	ø16 mm	Linear slide rail	12 x 7.5 - 2
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Model Description

L SC 12 - 10 R 600 - N 3 - 20 B - VP - XX
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

① Series number L	⑤ Motor position S: Direct connected D: Connected down L: Connected on the left R: Connected on the right	⑧ Sensor quantity N: No sensor 1: 1 2: 2 3: 3
② Cylinder type SC: Screw fully-closed		⑨ Motor power 20: 200 W
③ Width 12: 102 mm	⑥ Travel 50 mm to 1,050 mm Interval of 50 mm	⑩ Brake None: No brake B: Brake
④ Lead 5: 5 mm 10: 10 mm 20: 20 mm 32: 32 mm		⑪ Drive type VP: Standard SV660P drive VN: Standard SV660N drive
	⑦ Sensor type N: NPN sensor P: PNP sensor	⑫ Customization

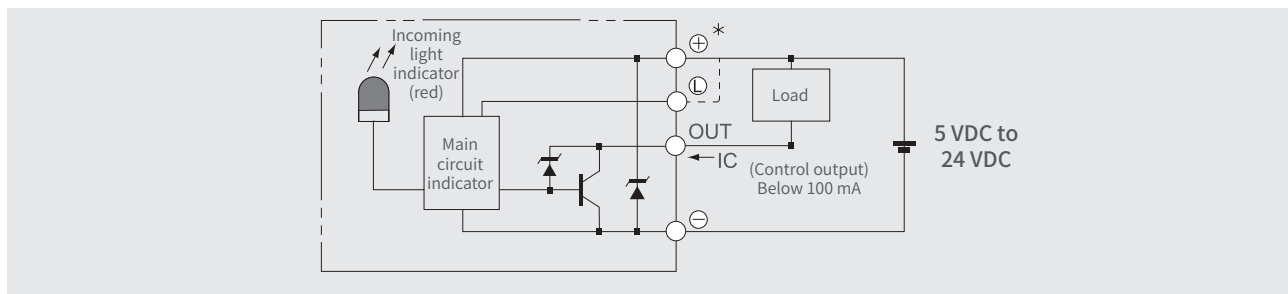
Basic Parameters

Item		Specification			
Repeatability (mm)		± 0.01			
Screw Lead (mm)		5	10	20	32
Max. Speed (mm/s)		250	500	1,000	1,600
Max. Load Capacity	Horizontal Axis (kg) ^(Note 2)	50	30	18	5
	Vertical Axis (kg)	12	8	3	-
Rated Force (N)		683	341	174	107
Standard Travel (mm)		50 mm to 1,050 mm, with an interval of 50 mm			
Power of AC Servo Motor (W)		200			
Ball Screw Outer Diameter		C7 Φ 16			
High-Stiffness Linear Slide Rail (mm)		W12 x H7.5			
Coupling		10 x 14/11			
Origin Sensor	External	SGT-NH(NPN)/SGT-PH(PNP)			

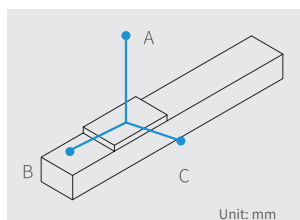
Note: When the travel exceeds 750, the lead screw may deflect. In this case, reduce the speed.

Note: The motor acceleration/deceleration is set to 0.2s.

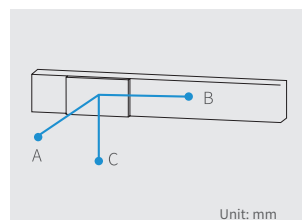
Sensor Connection Diagram



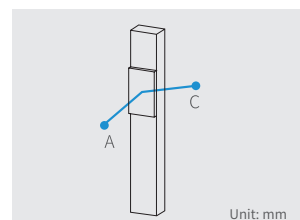
Permissible Load Torque



Horizontal Mounting		A	B	C
Lead 5	30 kg	882	65	78
	40 kg	606	43	51
	50 kg	437	29	35
Lead 10	15 kg	875	138	157
	25 kg	485	73	83
	30 kg	386	56	64
Lead 20	5 kg	1,160	384	386
	10 kg	561	180	181
	18 kg	288	88	89
Lead 32	3 kg	822	444	385
	5 kg	492	255	224
		-	-	-

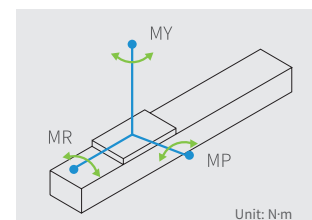


Backplate Mounting		A	B	C
Lead 5	25 kg	100	84	1,102
	35 kg	63	52	725
	50 kg	35	29	433
Lead 10	10 kg	250	221	1,311
	20 kg	110	97	633
	30 kg	64	56	385
Lead 20	6 kg	317	316	955
	12 kg	147	144	455
	18 kg	89	88	288
Lead 32	2 kg	591	682	1,256
	5 kg	224	255	488
		-	-	-



Vertical Mounting		A	C
Lead 5	5 kg	544	544
	11 kg	341	341
	15 kg	227	227
Lead 10	4 kg	606	606
	8 kg	303	303
	-	-	-
Lead 20	3 kg	961	961
	6 kg	639	639
	-	-	-

Static Allowable Load Inertia



MY	150
MP	150
MR	130

Data in the torque table specifies the maximum allowable offset distance of the gravity.

Under normal use in compliance with the specifications in the product catalogs, ensure that the lifetime is 10,000 km.

Inverted mounting fails to comply with the standard specifications. If required, contact our business personnel.

Travel

LS Series

LSC Series

GS Series

LEB Series

LB Series

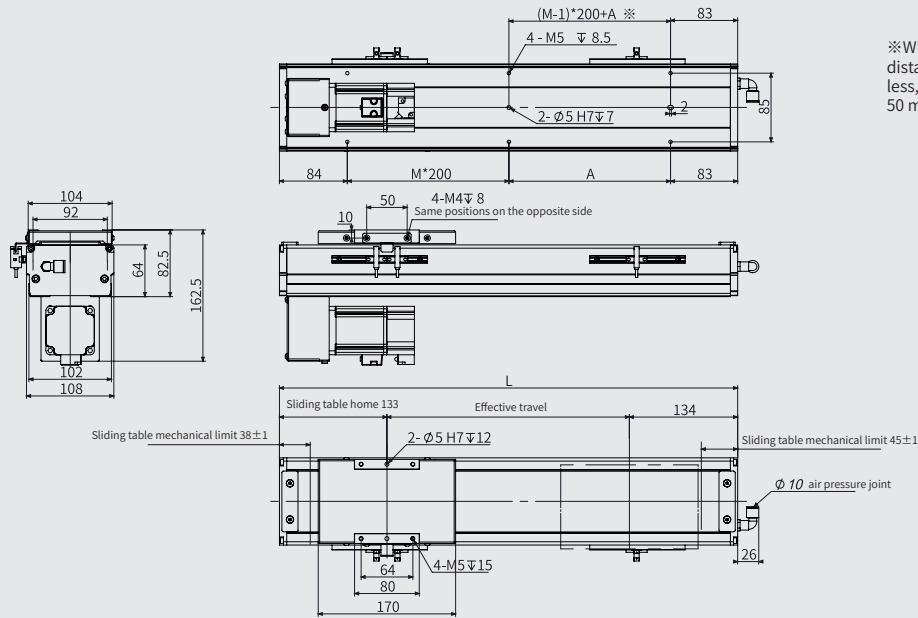
LBC Series

KS Series

LY Series

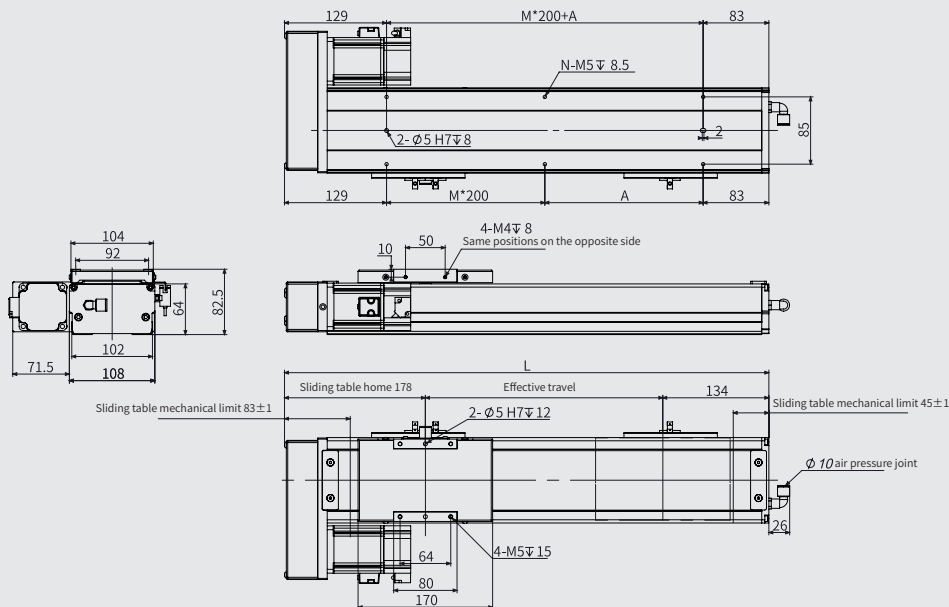
GV Series

D	Motor Connected Down																				
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050
L	317	367	417	467	517	567	617	667	717	767	817	867	917	967	1,017	1,067	1,117	1,167	1,217	1,267	1,317
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
KG	5.95	6.40	6.84	7.29	7.74	8.18	8.63	9.08	9.52	9.97	10.42	10.86	11.31	11.76	12.20	12.65	13.10	13.54	13.99	14.44	14.89

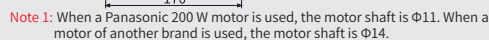


Note 1: When a Panasonic 200 W motor is used, the motor shaft is $\Phi 11$. When a motor of another brand is used, the motor shaft is $\Phi 14$.

L	Motor Connected on the Left																				
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050
L	362	412	462	512	562	612	662	712	762	812	862	912	962	1,012	1,062	1,112	1,162	1,212	1,262	1,312	1,362
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
KG	6.22	6.67	7.12	7.57	8.02	8.47	8.92	9.37	9.82	10.28	10.73	11.18	11.63	12.08	12.53	12.98	13.43	13.88	14.33	14.78	15.24

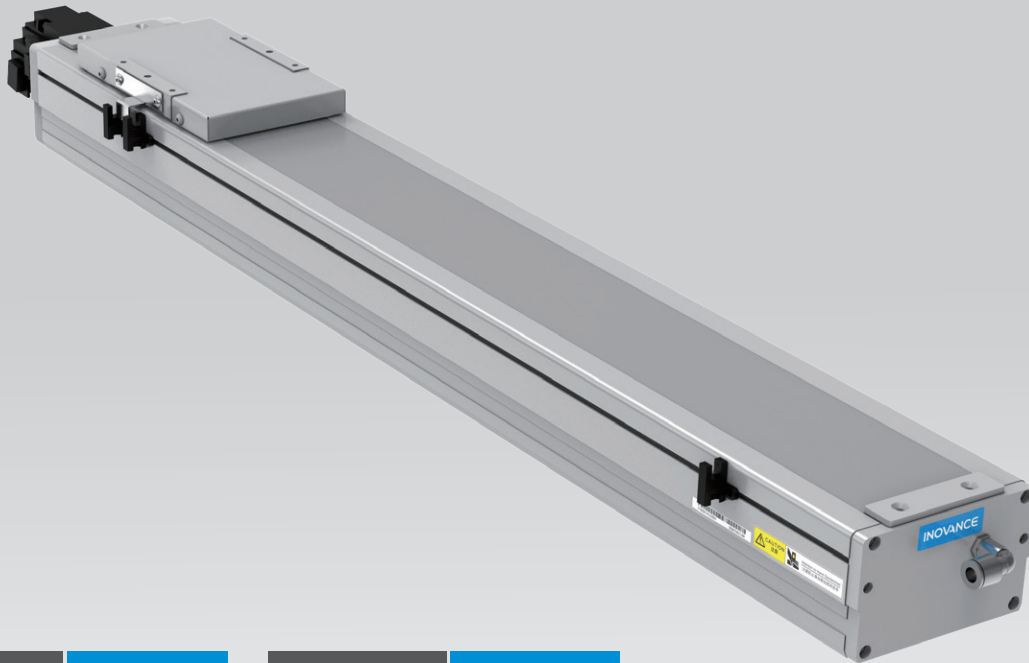


R	Motor Connected on the Right																				
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050
L	362	412	462	512	562	612	662	712	762	812	862	912	962	1,012	1,062	1,112	1,162	1,212	1,262	1,312	1,362
A	150	200	50	100	150	200	50	100	150	200	50	100	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
KG	6.22	6.67	7.12	7.57	8.02	8.47	8.92	9.37	9.82	10.28	10.73	11.18	11.63	12.08	12.53	12.98	13.43	13.88	14.33	14.78	15.24



Note 1: When a Panasonic 200 W motor is used, the motor shaft is $\Phi 11$. When a motor of another brand is used, the motor shaft is $\Phi 14$.

LSC 14

Dust Free Ball Screw Sliding
Table Electric Cylinder

Max. travel	1,050 mm	Max. speed	1,600 mm/s
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Motor power	400 W	Ball screw	ø16 mm	Linear slide rail	15 x 12.5 - 2
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Model Description

L SC 14 - 10 R 600 - N 3 - 40 B - VP - XX
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

① Series number L	⑤ Motor position S: Direct connected D: Connected down L: Connected on the left R: Connected on the right	⑧ Sensor quantity N: No sensor 1: 1 2: 2 3: 3
② Cylinder type SC: Screw fully-closed		⑨ Motor power 40: 400 W
③ Width 14: 135 mm	⑥ Travel 50 mm to 1,050 mm Interval of 50 mm	⑩ Brake None: No brake B: Brake
④ Lead 5: 5 mm 10: 10 mm 20: 20 mm 32: 32 mm	⑦ Sensor type N: NPN sensor P: PNP sensor	⑪ Drive type VP: Standard SV660P drive VN: Standard SV660N drive
		⑫ Customization

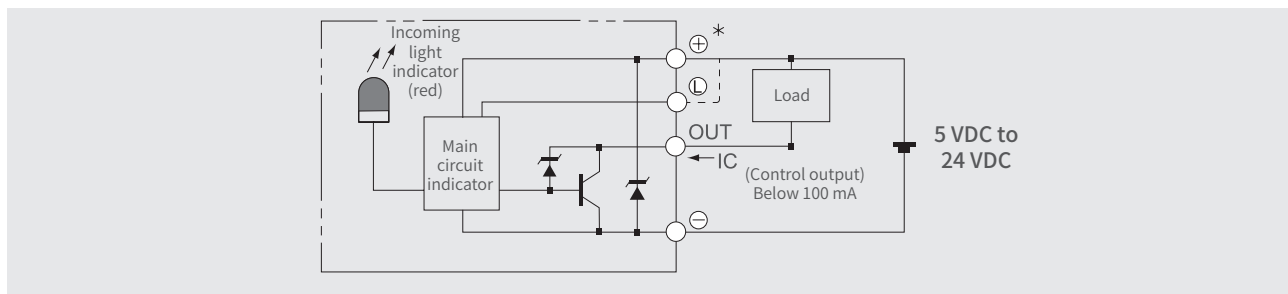
Basic Parameters

Item		Specification			
Repeatability (mm)		± 0.01			
Screw Lead (mm)		5	10	20	32
Max. Speed (mm/s)		250	500	1,000	1,600
Max. Load Capacity	Horizontal Axis (kg) ^(Note 2)	110	88	40	30
	Vertical Axis (kg)	33	22	10	8
Rated Force (N)		1,388	694	347	217
Standard Travel (mm)		50 mm to 1,050 mm, with an interval of 50 mm			
Power of AC Servo Motor (W)		400			
Ball Screw Outer Diameter		C7 Φ 16			
High-Stiffness Linear Slide Rail (mm)		W15 x H12.5			
Coupling		10 x 14			
Origin Sensor	External	SGT-NH(NPN)/SGT-PH(PNP)			

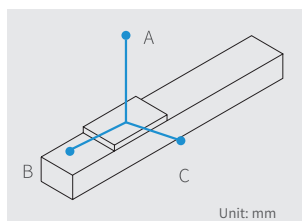
Note: When the travel exceeds 750, the lead screw may deflect. In this case, reduce the speed.

Note: The motor acceleration/deceleration is set to 0.2s.

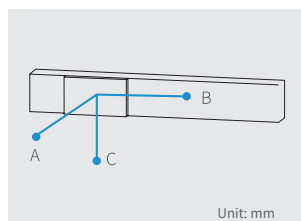
Sensor Connection Diagram



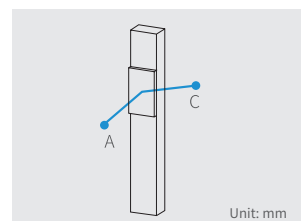
Permissible Load Torque



Horizontal Mounting		A	B	C
Lead 5	60 kg	2,515	242	232
	80 kg	1,811	172	164
	110 kg	1,284	114	108
Lead 10	30 kg	2,727	470	430
	50 kg	1,577	266	242
	88 kg	854	134	122
Lead 20	10 kg	2,304	1,222	1,028
	22 kg	1,443	540	451
	40 kg	860	277	233
Lead 32	15 kg	1,033	545	405
	25 kg	604	311	233
	30 kg	495	251	188

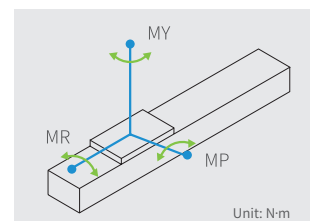


Backplate Mounting		A	B	C
Lead 5	55 kg	257	269	2,883
	75 kg	178	186	2,000
	110 kg	108	114	1,284
Lead 10	35 kg	363	395	2,368
	55 kg	218	238	1,445
	88 kg	123	134	854
Lead 20	12 kg	845	1,019	2,552
	20 kg	500	596	1,588
	40 kg	233	277	860
Lead 32	15 kg	405	545	1,033
	30 kg	188	251	495
	-	-	-	-



Vertical Mounting		A	C
Lead 5	15 kg	1,118	1,118
	22 kg	770	770
	33 kg	513	513
Lead 10	10 kg	1,500	1,500
	14 kg	1,072	1,072
	22 kg	682	682
Lead 20	7 kg	1,700	1,700
	10 kg	1,188	1,188
	-	-	-
Lead 32	5 kg	1,503	1,503
	8 kg	944	944
	-	-	-

Static Allowable Load Inertia



MY	551
MP	552
MR	485

Data in the torque table specifies the maximum allowable offset distance of the gravity.

Under normal use in compliance with the specifications in the product catalogs, ensure that the lifetime is 10,000 km.

Inverted mounting fails to comply with the standard specifications. If required, contact our business personnel.

Travel

LS Series

LSC Series

GS Series

LEB Series

LB Series

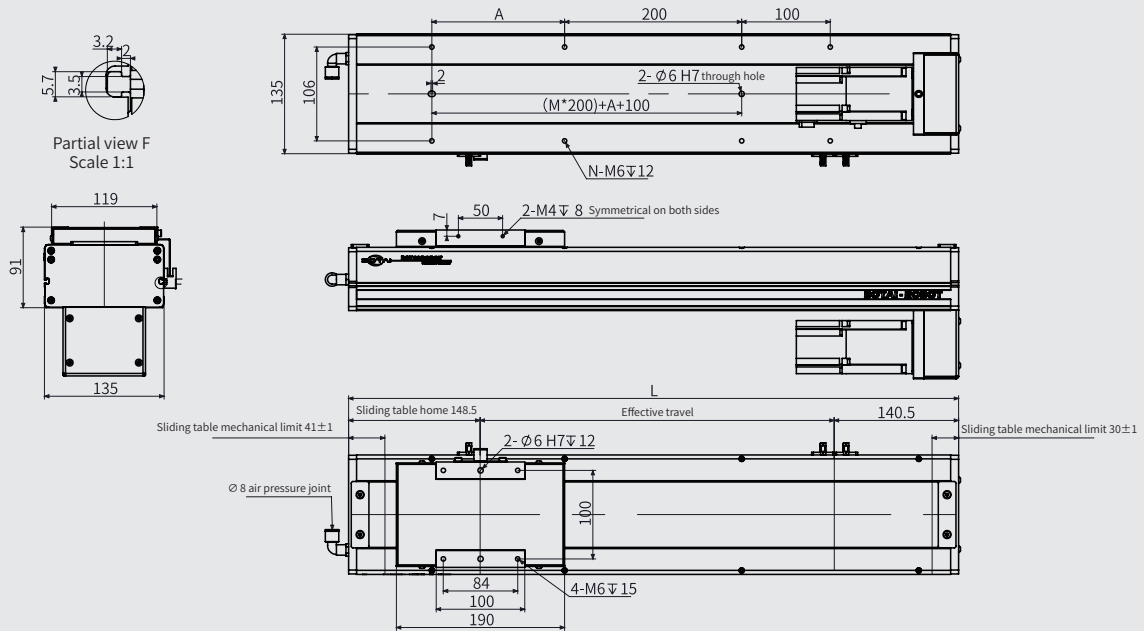
LBC Series

KS Series

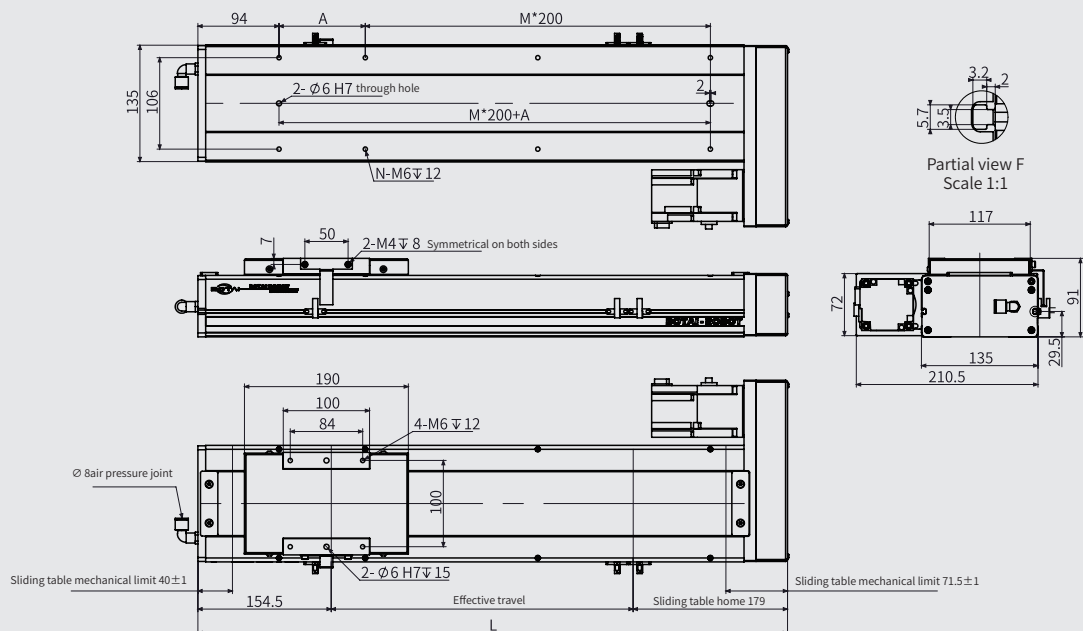
LY Series

GV Series

D	Motor Connected Down																				
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050
L	339	389	439	489	539	589	639	689	739	789	839	889	939	989	1,039	1,089	1,139	1,189	1,239	1,289	1,389
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	10.9	11.52	12.14	12.76	13.38	14	14.62	15.24	15.86	16.48	17.1	17.72	18.34	18.96	19.58	20.2	20.82	21.44	22.06	22.63	23.3



L	Motor Connected on the Left																				
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050
L	383.5	433.5	483.5	533.5	583.5	633.5	683.5	733.5	783.5	833.5	883.5	933.5	983.5	1,033.5	1,083.5	1,133.5	1,183.5	1,233.5	1,283.5	1,333.5	1,383.5
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
KG	10.9	11.52	12.14	12.76	13.38	14	14.62	15.24	15.86	16.48	17.1	17.72	18.34	18.96	19.58	20.2	20.82	21.44	22.06	22.63	23.3



R	Motor Connected on the Right																				
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050
L	383.5	433.5	483.5	533.5	583.5	633.5	683.5	733.5	783.5	833.5	883.5	933.5	983.5	1,033.5	1,083.5	1,133.5	1,183.5	1,233.5	1,283.5	1,333.5	1,383.5
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
KG	10.9	11.52	12.14	12.76	13.38	14	14.62	15.24	15.86	16.48	17.1	17.72	18.34	18.96	19.58	20.2	20.82	21.44	22.06	22.63	23.3

Partial view F
Scale 1:1

Sliding table mechanical limit 71.5 ± 1

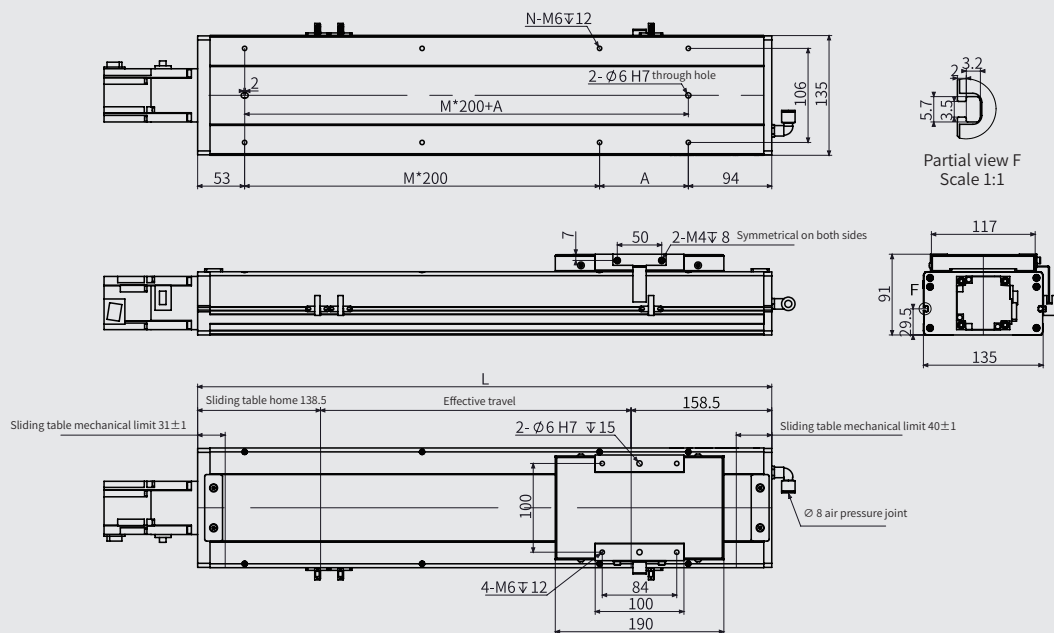
Sliding table home 179

Effective travel

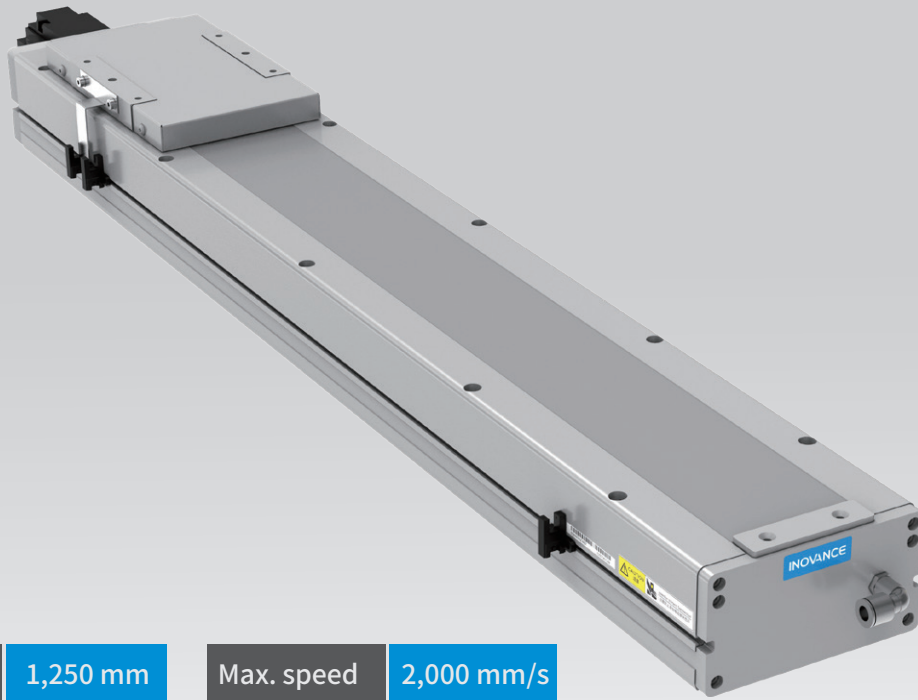
Sliding table mechanical limit 40 ± 1

Ø 8 air pressure joint

S	Motor Direct Connected																					
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	
L	347	397	447	497	547	597	647	697	747	797	847	897	947	997	1,047	1,097	1,147	1,197	1,247	1,297	1,347	
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	
M	0	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	
KG	10.5	11.1	11.7	12.3	12.9	13.5	14.1	14.7	15.3	15.9	16.5	17.1	17.7	18.3	18.9	19.5	20.1	20.7	21.3	21.9	22.5	



LSC 17

Dust Free Ball Screw Sliding
Table Electric Cylinder

Max. travel	1,250 mm	Max. speed	2,000 mm/s	
Motor power	400 W	Ball screw	ø20 mm	Linear slide rail 20 x 15 - 2

Model Description

L SC 17 - 10 R 600 - N 3 - 40 B - VP - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

① Series number L	⑤ Motor position S: Direct connected D: Connected down L: Connected on the left R: Connected on the right	⑨ Motor power 40: 400 W
② Cylinder type SC: Screw fully-closed		
③ Width 17: 170 mm	⑥ Travel 50 mm to 1,250 mm Interval of 50 mm	⑩ Brake None: No brake B: Brake
④ Lead 5: 5 mm 10: 10 mm 20: 20 mm 40: 40 mm	⑦ Sensor type N: NPN sensor P: PNP sensor	⑪ Drive type VP: Standard SV660P drive VN: Standard SV660N drive
	⑧ Sensor quantity N: No sensor 1: 1 2: 2 3: 3	⑫ Customization

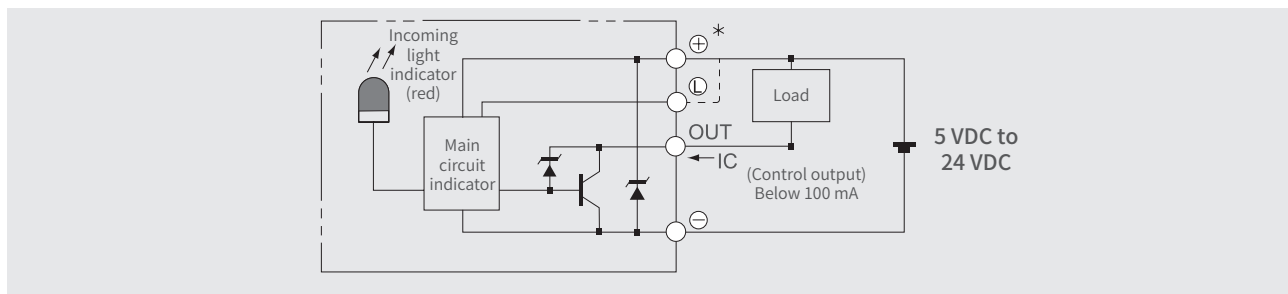
Basic Parameters

Item		Specification			
Repeatability (mm)		± 0.01			
Screw Lead (mm)		5	10	20	40
Max. Speed (mm/s)		250	500	1,000	2,000
Max. Load Capacity	Horizontal Axis (kg) ^(Note 2)	120	110	75	22
	Vertical Axis (kg)	40	30	14	7
Rated Force (N)		1,388	694	347	174
Standard Travel (mm)		50 mm to 1,250 mm, with an interval of 50 mm			
Power of AC Servo Motor (W)		400			
Ball Screw Outer Diameter		C7 Φ 20			
High-Stiffness Linear Slide Rail (mm)		W20 x H15			
Coupling		12 x 14			
Origin Sensor	External	SGT-NH(NPN)/SGT-PH(PNP)			

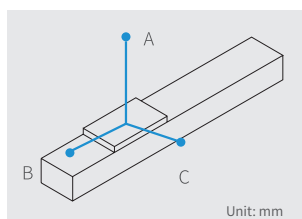
Note: When the travel exceeds 850, the lead screw may deflect. In this case, reduce the speed.

Note: The motor acceleration/deceleration is set to 0.2s.

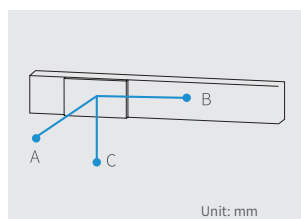
Sensor Connection Diagram



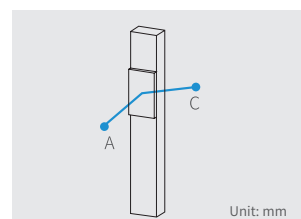
Permissible Load Torque



Horizontal Mounting		A	B	C
Lead 5	70 kg	3,235	349	408
	90 kg	2,482	263	306
	120 kg	1,850	187	217
Lead 10	65 kg	1,911	338	373
	85 kg	1,445	248	276
	110 kg	1,102	182	202
Lead 20	35 kg	1,666	547	538
	55 kg	1,030	331	328
	75 kg	733	231	230
Lead 40	15 kg	1,126	740	577
	22 kg	755	491	384
		-	-	-

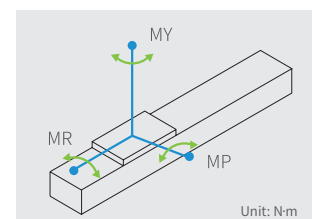


Backplate Mounting		A	B	C
Lead 5	75 kg	377	322	2,988
	95 kg	288	246	2,333
	120 kg	218	187	1,850
	60 kg	408	368	2,092
Lead 10	80 kg	296	266	1,554
	110 kg	202	182	1,102
	30 kg	633	644	1,961
Lead 20	50 kg	365	369	1,143
	75 kg	230	231	733
Lead 40	12 kg	729	936	1,417
	22 kg	384	491	755
		-	-	-



Vertical Mounting		A	C
Lead 5	20 kg	1,368	1,368
	30 kg	911	911
	40 kg	683	683
	#15	1,618	1,618
Lead 10	25 kg	970	970
	30 kg	808	808
	10 kg	1,922	1,922
Lead 20	14 kg	1,377	1,377
	-	-	-
	4 kg	2,377	2,377
Lead 40	7 kg	1,356	1,356
	-	-	-

Static Allowable Load Inertia



MY	1,032
MP	1,034
MR	908

Data in the torque table specifies the maximum allowable offset distance of the gravity.

Under normal use in compliance with the specifications in the product catalogs, ensure that the lifetime is 10,000 km.

Inverted mounting fails to comply with the standard specifications. If required, contact our business personnel.

Travel

LS Series

LSC Series

GS Series

LEB Series

LB Series

LBC Series

KS Series

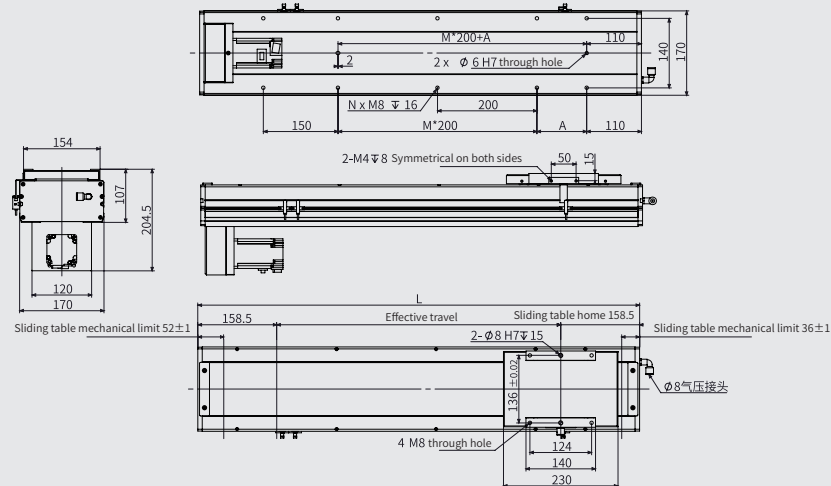
LY Series

GY Series

D	Motor Connected Down												
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650
L	388	438	488	538	588	638	688	738	788	838	888	938	988
A	0	50	100	150	200	50	100	150	200	50	100	150	200
M	0	0	0	0	0	1	1	1	1	2	2	2	2
N	4	6	6	6	6	8	8	8	8	10	10	10	10
KG	12.61	13.39	14.17	14.96	15.74	16.53	17.31	18.1	18.88	19.67	20.45	21.24	22.02

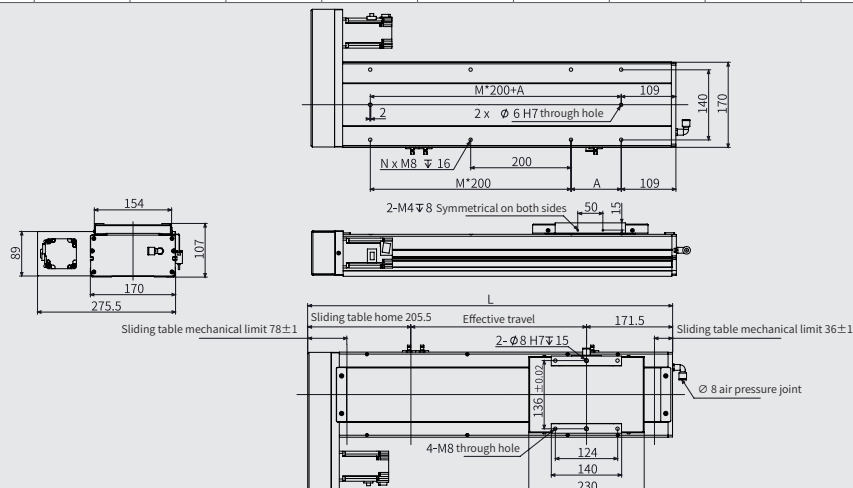
D	Motor Connected Down											
Effective Travel	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250
L	1,038	1,088	1,138	1,188	1,238	1,288	1,338	1,388	1,438	1,488	1,538	1,588
A	50	100	150	200	50	100	150	200	50	100	150	200
M	3	3	3	3	4	4	4	4	5	5	5	5
N	12	12	12	12	14	14	14	14	16	16	16	16
KG	22.81	23.59	24.38	25.17	25.95	26.74	27.52	28.31	29.09	29.88	30.66	31.45

※When the travel distance is 150 mm or less, the pin hole pitch is 50 mm.



L	Motor Connected on the Left												
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650
L	427	477	527	577	627	677	727	777	827	877	927	977	1,027
A	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
N	4	6	6	6	6	8	8	8	8	10	10	10	10
KG	12.61	13.39	14.17	14.96	15.74	16.53	17.31	18.1	18.88	19.67	20.45	21.24	22.02

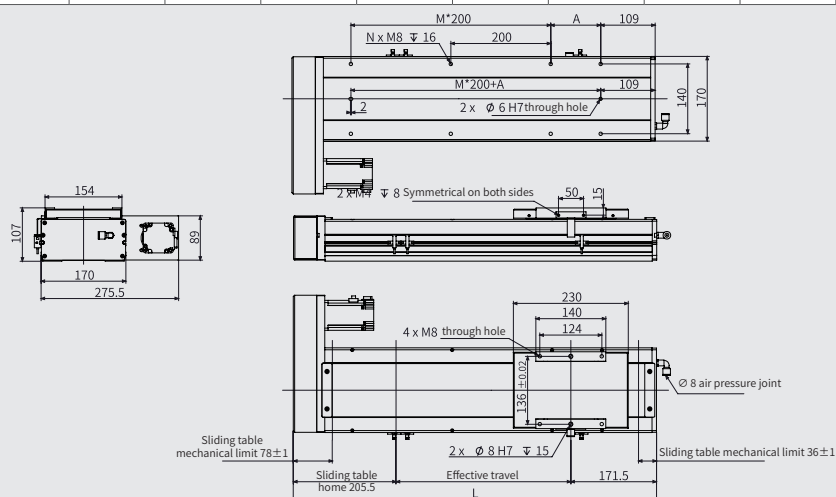
L	Motor Connected on the Left											
Effective Travel	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250
L	1,077	1,127	1,177	1,227	1,277	1,327	1,377	1,427	1,477	1,527	1,577	1,627
A	50	100	150	200	50	100	150	200	50	100	150	200
M	4	4	4	4	5	5	5	5	6	6	6	6
N	12	12	12	12	14	14	14	14	16	16	16	16
KG	22.81	23.59	24.38	25.17	25.95	26.74	27.52	28.31	29.09	29.88	30.66	31.45



Travel

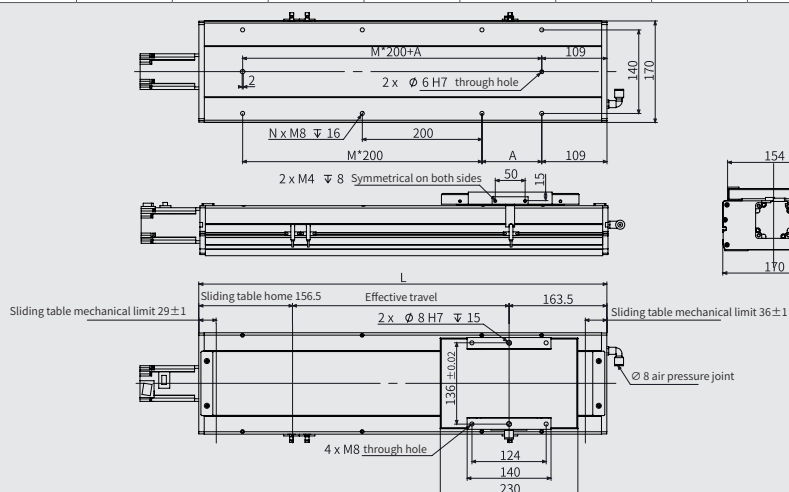
R	Motor Connected on the Right												
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650
L	427	477	527	577	627	677	727	777	827	877	927	977	1,027
A	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	1	1	1	1	2	2	2	2	3	3	3	3
N	4	6	6	6	6	8	8	8	8	10	10	10	10
KG	12.61	13.39	14.17	14.96	15.74	16.53	17.31	18.1	18.88	19.67	20.45	21.24	22.02

R	Motor Connected on the Right											
Effective Travel	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250
L	1,077	1,127	1,177	1,227	1,277	1,327	1,377	1,427	1,477	1,527	1,577	1,627
A	50	100	150	200	50	100	150	200	50	100	150	200
M	4	4	4	4	5	5	5	5	6	6	6	6
N	12	12	12	12	14	14	14	14	16	16	16	16
KG	22.81	23.59	24.38	25.17	25.95	26.74	27.52	28.31	29.09	29.88	30.66	31.45

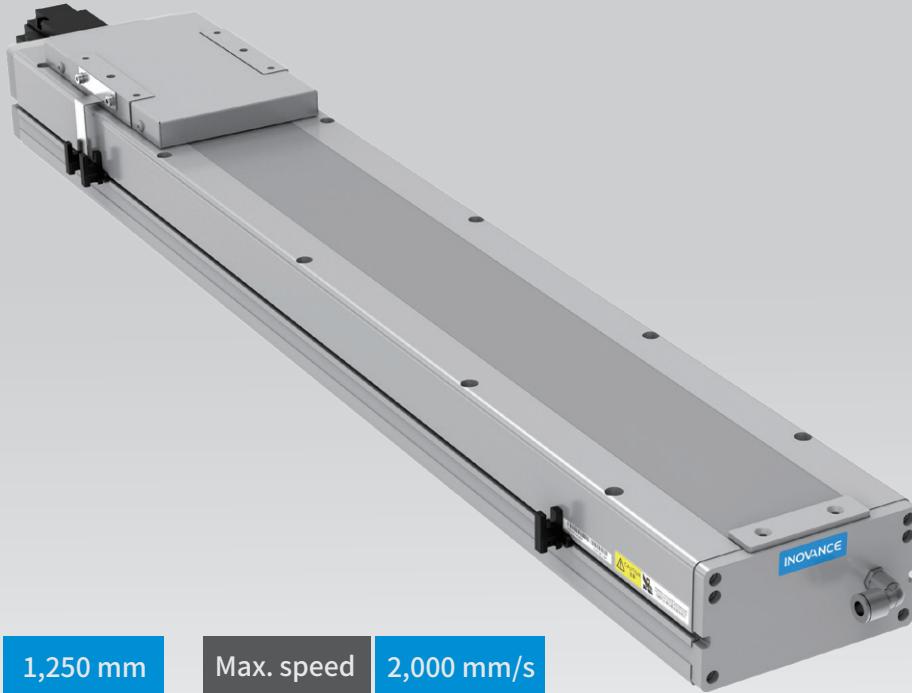


S	Motor Direct Connected												
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650
L	382	432	482	532	582	632	682	732	782	832	882	932	982
A	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	1	1	1	1	2	2	2	2	3	3	3	3
N	4	6	6	6	6	8	8	8	8	10	10	10	10
KG	11.84	12.62	13.4	14.18	14.96	15.74	16.52	17.3	18.08	18.85	19.63	20.41	21.19

S	Motor Direct Connected											
Effective Travel	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250
L	1,032	1,082	1,132	1,182	1,232	1,282	1,332	1,382	1,432	1,482	1,532	1,582
A	50	100	150	200	50	100	150	200	50	100	150	200
M	4	4	4	4	5	5	5	5	6	6	6	6
N	12	12	12	12	14	14	14	14	16	16	16	16
KG	21.97	22.75	23.53	24.31	25.09	25.87	26.65	27.43	28.21	28.99	29.77	30.55



LSC 17

Dust Free Ball Screw Sliding
Table Electric Cylinder

Max. travel	1,250 mm	Max. speed	2,000 mm/s
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Motor power	750 W	Ball screw	ø20 mm	Linear slide rail	20 x 15 - 2
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Model Description

L SC 17 - 10 R 600 - N 3 - 75 B - VP - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

① Series number L	⑤ Motor position S: Direct connected D: Connected down L: Connected on the left R: Connected on the right	⑧ Sensor quantity N: No sensor 1: 1 2: 2 3: 3
② Cylinder type SC: Screw fully-closed		⑨ Motor power 75: 750 W
③ Width 17: 170 mm	⑥ Travel 50 mm to 1,250 mm Interval of 50 mm	⑩ Brake None: No brake B: Brake
④ Lead 5: 5 mm 10: 10 mm 20: 20 mm 40: 40 mm		⑪ Drive type VP: Standard SV660P drive VN: Standard SV660N drive
	⑦ Sensor type N: NPN sensor P: PNP sensor	⑫ Customization

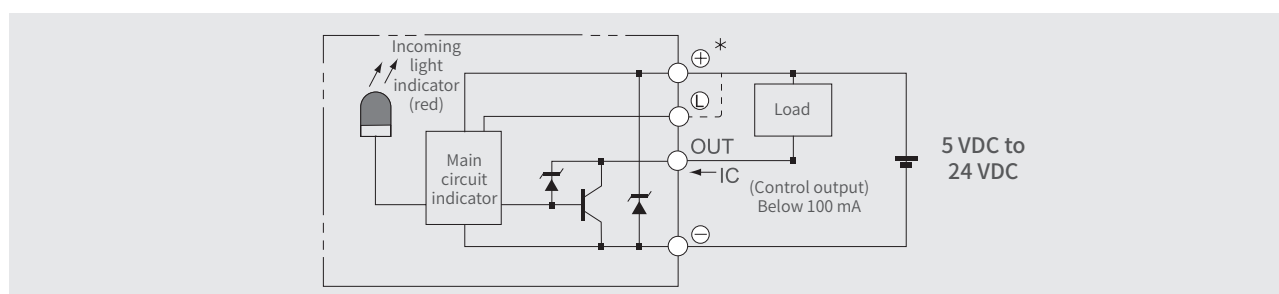
Basic Parameters

Item		Specification			
Repeatability (mm)		± 0.01			
Screw Lead (mm)		5	10	20	40
Max. Speed (mm/s)		250	500	1,000	2,000
Max. Load Capacity	Horizontal Axis (kg) ^(Note 2)	120	120	83	43
	Vertical Axis (kg)	50	40	25	12
Rated Force (N)		2,563	1,281	640	320
Standard Travel (mm)		50 mm to 1,250 mm, with an interval of 50 mm			
Power of AC Servo Motor (W)		750			
Ball Screw Outer Diameter		C7 Φ 20			
High-Stiffness Linear Slide Rail (mm)		W20 x H15			
Coupling		12 x 19			
Origin Sensor	External	SGT-NH(NPN)/SGT-PH(PNP)			

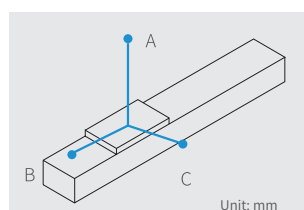
Note: When the travel exceeds 850, the lead screw may deflect. In this case, reduce the speed.

Note: The motor acceleration/deceleration is set to 0.2s.

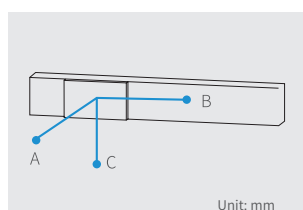
Sensor Connection Diagram



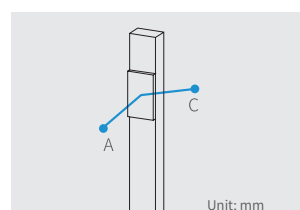
Permissible Load Torque



Horizontal Mounting		A	B	C
Lead 5	70 kg	3,235	349	408
	90 kg	2,482	263	306
	120 kg	1,861	187	218
Lead 10	65 kg	1,911	338	373
	85 kg	1,445	248	276
	120 kg	1,000	164	182
Lead 20	35 kg	1,666	547	538
	55 kg	1,030	331	328
	83 kg	654	206	204
Lead 40	15 kg	1,126	740	577
	22 kg	755	491	384
	43 kg	366	231	183

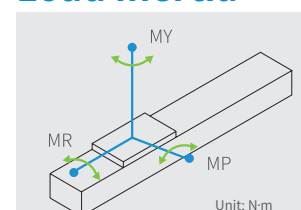


Backplate Mounting		A	B	C
Lead 5	75 kg	377	322	2,988
	95 kg	288	246	2,333
	120 kg	218	187	1,850
Lead 10	60 kg	408	368	2,092
	80 kg	296	266	1,554
	120 kg	182	164	1,002
Lead 20	30 kg	633	644	1,961
	50 kg	365	369	1,143
	83 kg	204	206	656
Lead 40	12 kg	729	936	1,417
	22 kg	384	491	755
	43 kg	183	231	366



Vertical Mounting		A	C
Lead 5	20 kg	1,368	1,368
	30 kg	911	911
	50 kg	546	683
Lead 10	#15	1,618	1,618
	25 kg	970	970
	40 kg	607	808
Lead 20	10 kg	1,922	1,922
	14 kg	1,377	1,377
	25 kg	769	769
Lead 40	7 kg	1,356	1,356
	12 kg	790	790
	-	-	-

Static Allowable Load Inertia



MY	1,032
MP	1,034
MR	908

Data in the torque table specifies the maximum allowable offset distance of the gravity.

Under normal use in compliance with the specifications in the product catalogs, ensure that the lifetime is 10,000 km.

Inverted mounting fails to comply with the standard specifications. If required, contact our business personnel.

Travel

LS Series

LSC Series

GS Series

LEB Series

LB Series

LBC Series

KS Series

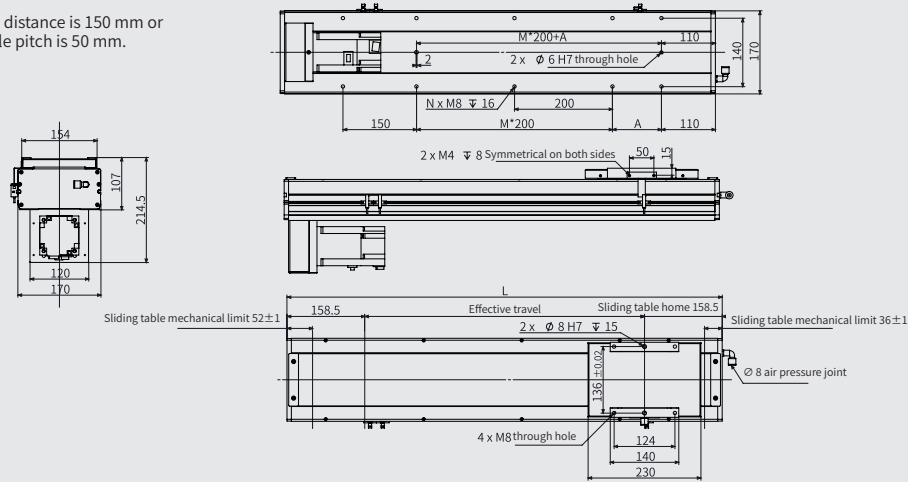
LY Series

GV Series

D	Motor Connected Down												
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650
L	388	438	488	538	588	638	688	738	788	838	888	938	988
A	0	50	100	150	200	50	100	150	200	50	100	150	200
M	0	0	0	0	0	1	1	1	1	2	2	2	2
N	4	6	6	6	6	8	8	8	8	10	10	10	10
KG	12.61	13.39	14.17	14.96	15.74	16.53	17.31	18.1	18.88	19.67	20.45	21.24	22.02

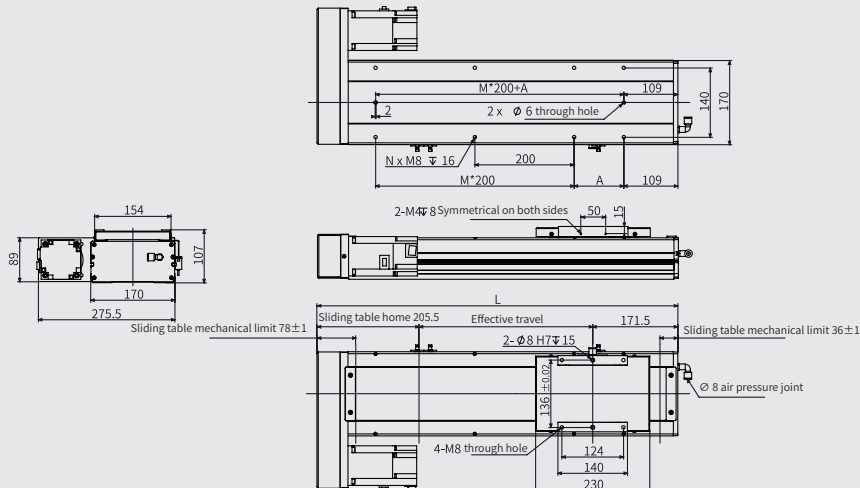
D	Motor Connected Down											
Effective Travel	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250
L	1,038	1,088	1,138	1,188	1,238	1,288	1,338	1,388	1,438	1,488	1,538	1,588
A	50	100	150	200	50	100	150	200	50	100	150	200
M	3	3	3	3	4	4	4	4	5	5	5	5
N	12	12	12	12	14	14	14	14	16	16	16	16
KG	22.81	23.59	24.38	25.17	25.95	26.74	27.52	28.31	29.09	29.88	30.66	31.45

※When the travel distance is 150 mm or less, the pin hole pitch is 50 mm.



L	Motor Connected on the Left												
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650
L	427	477	527	577	627	677	727	777	827	877	927	977	1,027
A	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
N	4	6	6	6	6	8	8	8	8	10	10	10	10
KG	12.61	13.39	14.17	14.96	15.74	16.53	17.31	18.1	18.88	19.67	20.45	21.24	22.02

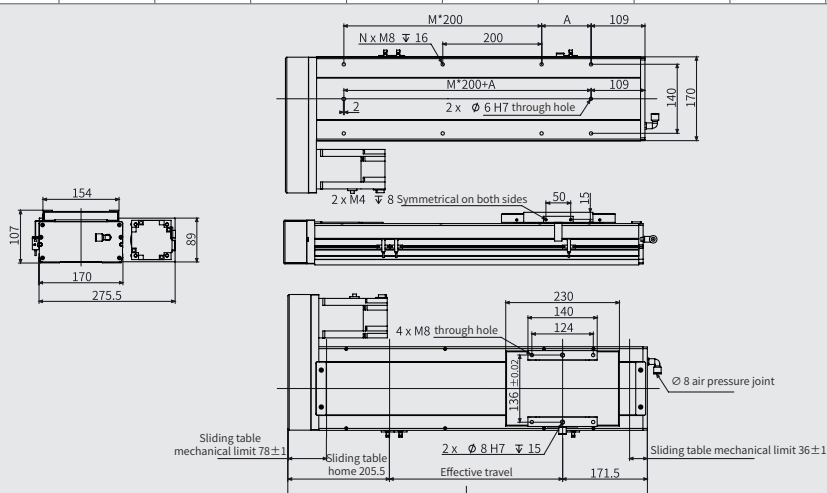
L	Motor Connected on the Left											
Effective Travel	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250
L	1,077	1,127	1,177	1,227	1,277	1,327	1,377	1,427	1,477	1,527	1,577	1,627
A	50	100	150	200	50	100	150	200	50	100	150	200
M	4	4	4	4	5	5	5	5	6	6	6	6
N	12	12	12	12	14	14	14	14	16	16	16	16
KG	22.81	23.59	24.38	25.17	25.95	26.74	27.52	28.31	29.09	29.88	30.66	31.45



Travel

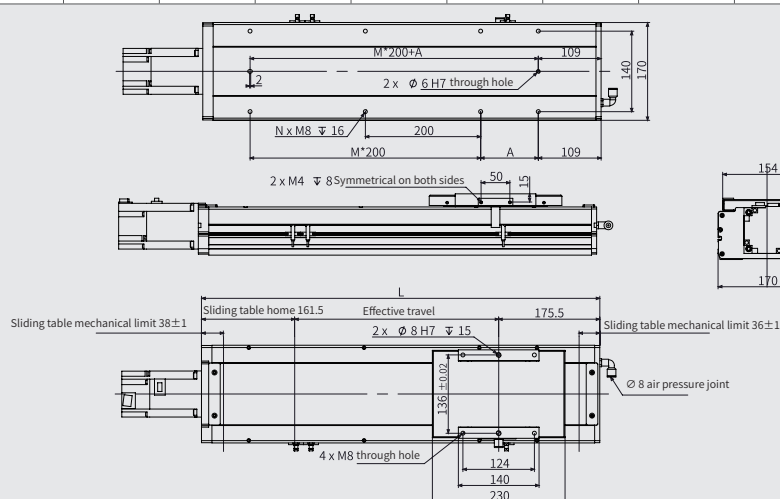
R	Motor Connected on the Right												
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650
L	427	477	527	577	627	677	727	777	827	877	927	977	1,027
A	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	1	1	1	1	2	2	2	2	3	3	3	3
N	4	6	6	6	6	8	8	8	8	10	10	10	10
KG	12.61	13.39	14.17	14.96	15.74	16.53	17.31	18.1	18.88	19.67	20.45	21.24	22.02

R	Motor Connected on the Right											
Effective Travel	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250
L	1,077	1,127	1,177	1,227	1,277	1,327	1,377	1,427	1,477	1,527	1,577	1,627
A	50	100	150	200	50	100	150	200	50	100	150	200
M	4	4	4	4	5	5	5	5	6	6	6	6
N	12	12	12	12	14	14	14	14	16	16	16	16
KG	22.81	23.59	24.38	25.17	25.95	26.74	27.52	28.31	29.09	29.88	30.66	31.45



S	Motor Direct Connected												
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650
L	391	441	491	541	591	641	691	741	791	841	891	941	991
A	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
N	4	6	6	6	6	8	8	8	8	10	10	10	10
KG	11.84	12.62	13.4	14.18	14.96	15.74	16.52	17.3	18.08	18.85	19.63	20.41	21.19

S	Motor Direct Connected											
Effective Travel	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250
L	1,041	1,091	1,141	1,191	1,241	1,291	1,341	1,391	1,441	1,491	1,541	1,591
A	50	100	150	200	50	100	150	200	50	100	150	200
M	4	4	4	4	5	5	5	5	6	6	6	6
N	12	12	12	12	14	14	14	14	16	16	16	16
KG	21.97	22.75	23.53	24.31	25.09	25.87	26.65	27.43	28.21	28.99	29.77	30.55

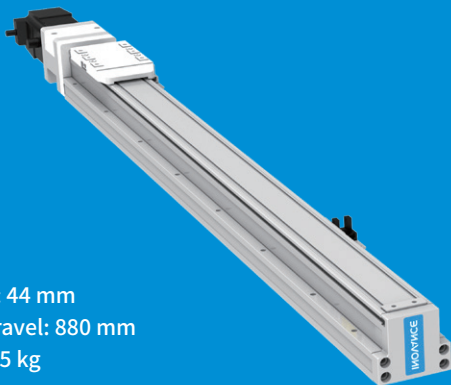


Electric Cylinder Series

GS Series

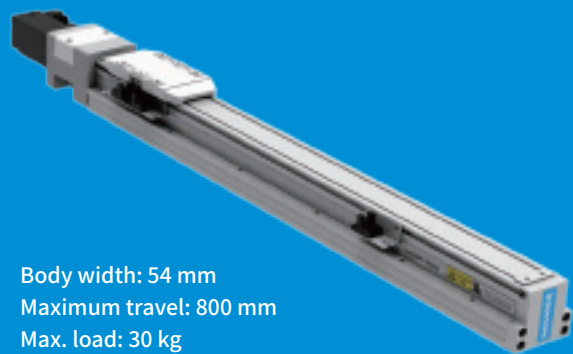
General Environment/Track-Embedded
Lead Screw Electric Cylinder

Small GS4



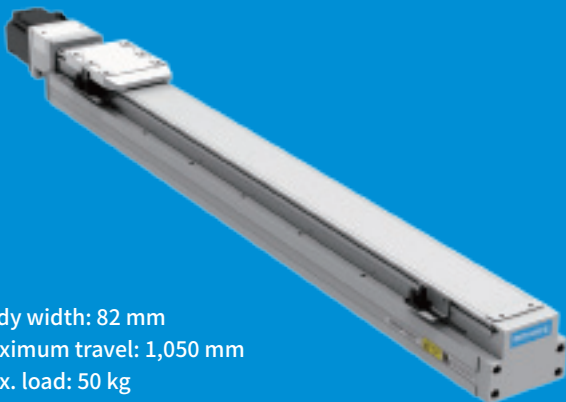
Body width: 44 mm
Maximum travel: 880 mm
Max. load: 25 kg

Small GS5



Body width: 54 mm
Maximum travel: 800 mm
Max. load: 30 kg

Medium GS8



Body width: 82 mm
Maximum travel: 1,050 mm
Max. load: 50 kg

Medium GS12



Body width: 120 mm
Maximum travel: 1,250 mm
Max. load: 110 kg

Specifications Index

Track-Embedded Lead Screw Electric Cylinder

Working Environment	Transmission Mode	Specification	Motor Power	Body Width	Repeatability	Lead Screw Specification		Max. Load Capacity	
						Outer Diameter	Lead	Horizontal Axis	Vertical Axis
General environment	Ball screw	GS4	50 W	44	±0.01	10	2	25	8
							6	20	8
							10	12	3.5
		GS5	100 W	54	±0.01	12	5	30	10
							10	15	5
							20	10	2.5
		GS8	400 W	82	±0.01	16	5	50	15
							10	30	8
							20	12	2.5
		GS12	400 W	120	±0.01	16	5	110	33
							10	88	22
							20	40	10
							32	30	8

Specification	Max. Speed	Standard Travel and Max. Operating Speed																					
		50	150	200	350	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300
GS4	50	100			90	80	70	65															
	250	125			225	200	175	150															
	500	500										450	400	350	300								
GS5	250	250										225	200	175	150								
	500	500										450	400	350	300								
	1,000	1,000										900	800	700	600								
GS8	250	250														225	200	175	150				
	500	500														450	400	350	300				
	1,000	1,000														900	800	700	600				
GS12	250	250												225	200	175	167	158	150	133	125	117	
	500	500												450	400	350	333	317	300	267	250	233	
	1,000	1,000												900	800	700	667	600	633	533	500	467	
	1,600	1,600												1,440	1,280	1,120	1,067	1,013	900	853	800	747	

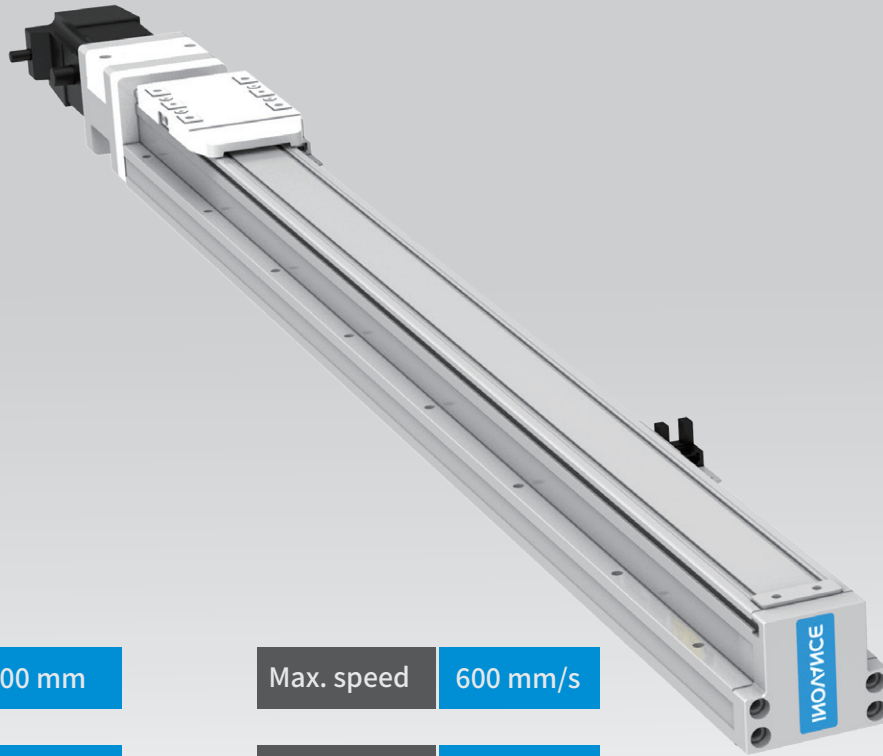
 Speed

Note 1: The maximum speed (mm/s) is set based on the rated speed of 3,000 rpm of the servo motor.

Note 2: Black numbers in the standard travel columns indicate the maximum safe speeds for corresponding travels. Exceeding the maximum speeds may cause severe resonance in the sliding table.

GS 4

Track-Embedded Lead Screw Electric Cylinder



Max. travel

800 mm

Max. speed

600 mm/s

Motor power

50 W

Ball screw

ø10 mm

Model Description

G S 4 - 2 S 100 - N 3 - 05 B - VP - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

① Series number G	⑤ Motor position S: Direct connected D: Connected down L: Connected on the left R: Connected on the right	⑧ Sensor quantity N: No sensor 1: 1 2: 2 3: 3
② Cylinder type S: Screw embedded	⑥ Travel 50 mm to 800 mm Interval of 50 mm ※ Within a travel of 50, only two sets of sensors can be installed.	⑨ Motor power 05: 50 W
③ Width 4: 44 mm	⑦ Sensor type N: NPN sensor P: PNP sensor	⑩ Brake None: No brake B: Brake
④ Lead 2: 2 mm 5: 5 mm 10: 10 mm		⑪ Drive type VP: Standard SV660P drive VN: Standard SV660N drive
		⑫ Customization

LS Series

LSC Series

GS Series

LEB Series

LB Series

LBC Series

KS Series

LY Series

GY Series

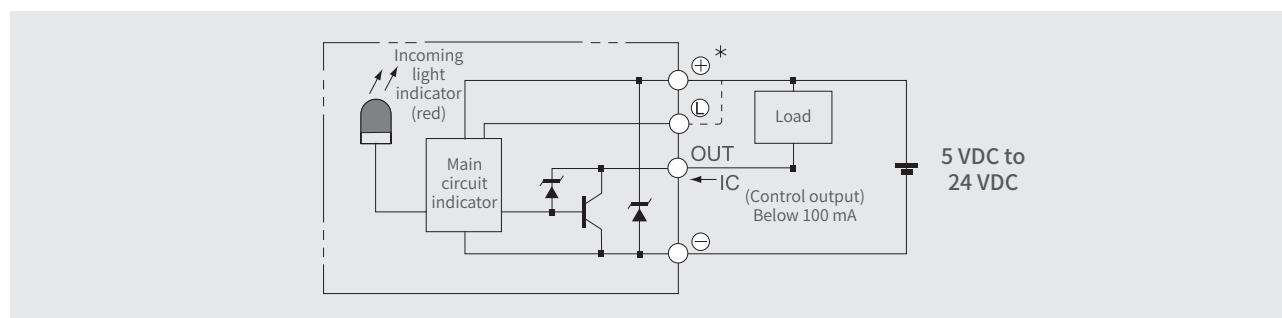
Basic Parameters

Item		Specification		
Repeatability (mm)		± 0.01		
Screw Lead (mm)		2	6	10
Max. Speed (mm/s)		100	250	500
Max. Load Capacity	Horizontal Axis (kg)	25	20	12
	Vertical Axis (kg)	8	5/8	2/3.5
Rated Force (N)		424	141	71
Standard Travel (mm)		50 mm to 800 mm, with an interval of 50 mm		
Power of AC Servo Motor (W)		50 W/100 W		
Ball Screw Outer Diameter (mm)		C7 Φ 10		
Coupling (mm)		7 x 8		
Origin Sensor	External	SGY-NH (NPN)/SGY-PH (PNP)		

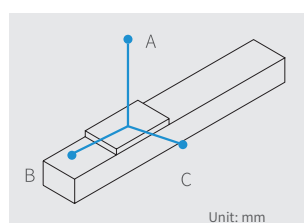
Note: When the travel exceeds 600, the lead screw may deflect. In this case, reduce the speed.

The motor acceleration/deceleration is set to 0.2s.

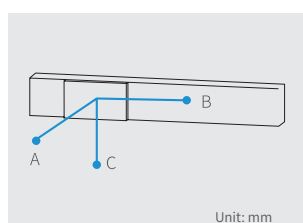
Sensor Connection Diagram



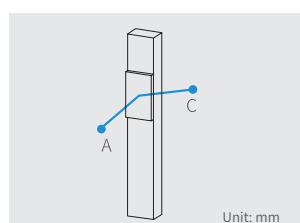
Permissible Load Torque



Horizontal Mounting		A	B	C
Lead 2	12 kg	1,000	55	80
	18 kg	750	35	50
	25 kg	500	23	32
Lead 5	10 kg	550	53	70
	15 kg	350	32	45
	20 kg	250	22	31

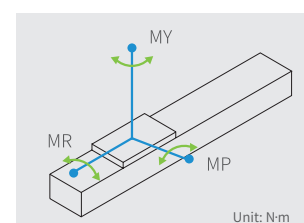


Backplate Mounting		A	B	C
Lead 2	12 kg	80	55	1,000
	18 kg	50	35	750
	25 kg	32	23	500
Lead 5	10 kg	72	52	550
	15 kg	45	32	345
	20 kg	31	22	250



Horizontal Mounting		A	C
Lead 2	4 kg	200	200
	8 kg	100	100
	-	-	-
Lead 5	3 kg	200	200
	5 kg	120	120
	-	-	-

Static Allowable Load Inertia



MY	79
MP	79
MR	116

Data in the torque table specifies the maximum allowable offset distance of the gravity.

Under normal use in compliance with the specifications in the product catalogs, ensure that the lifetime is 10,000 km.

Inverted mounting fails to comply with the standard specifications. If required, contact our business personnel.

Travel

LS Series

LSC Series

GS Series

LEB Series

LB Series

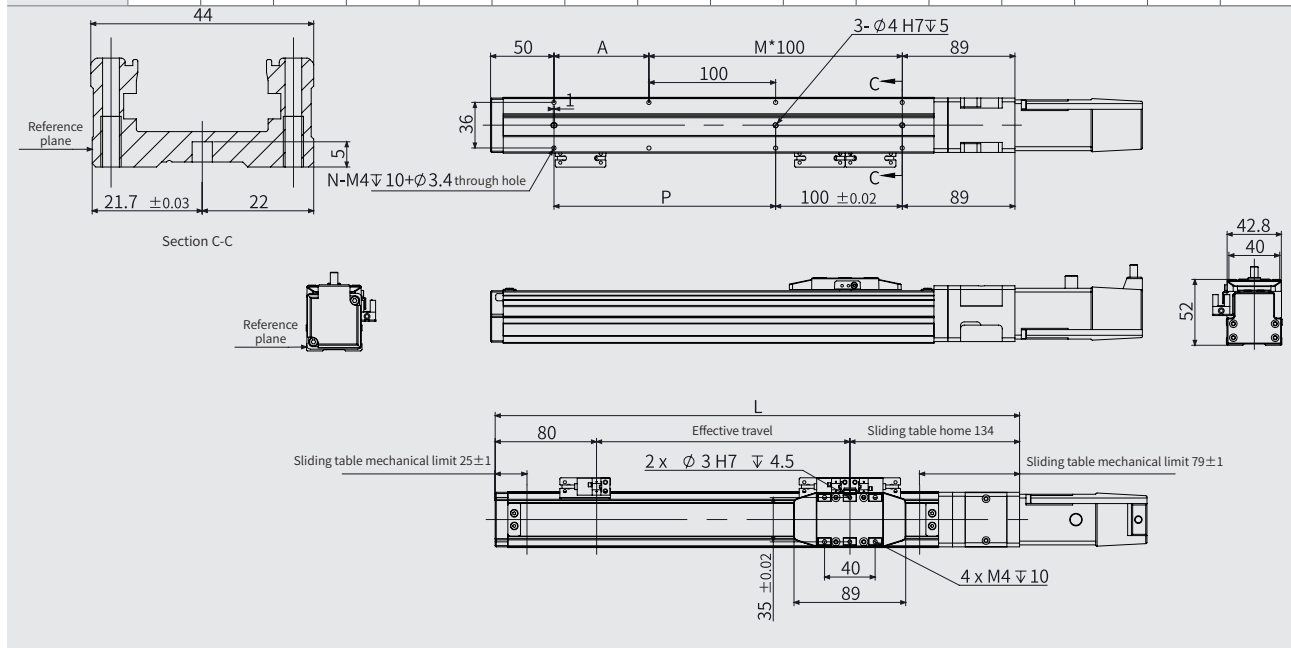
LBC Series

KS Series

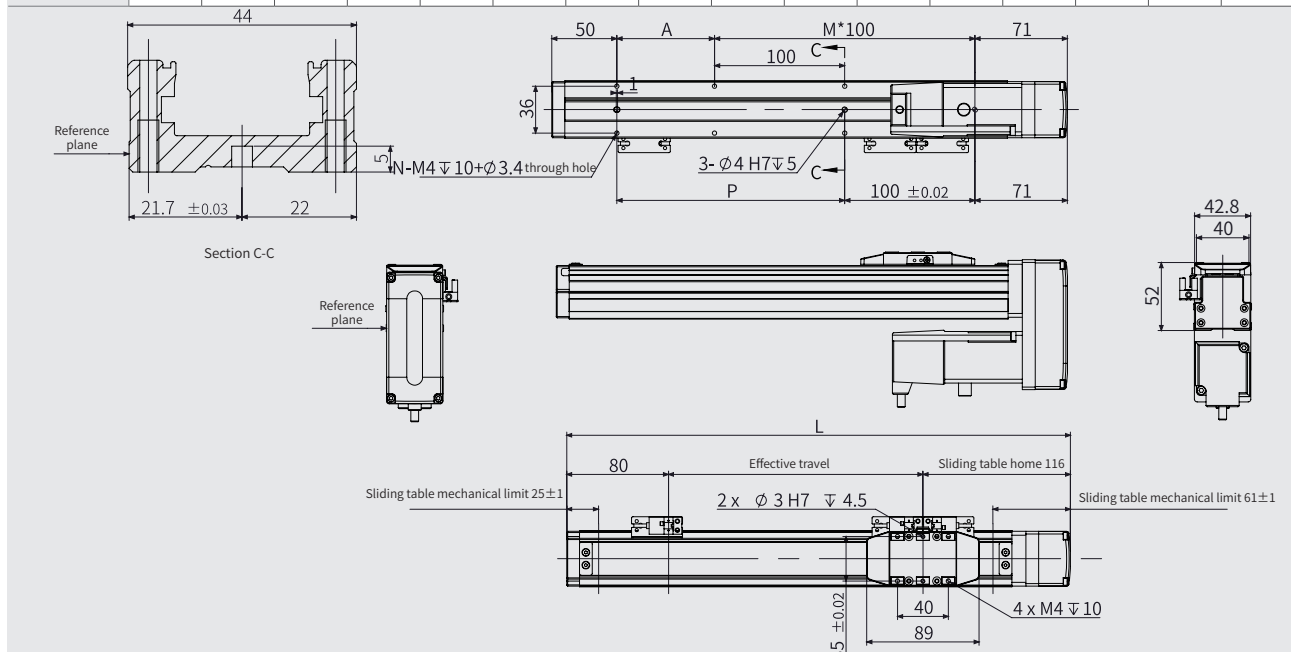
LY Series

GV Series

S	Motor Direct Connected															
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	264	314	364	414	464	514	564	614	664	714	764	814	864	914	964	1,014
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	0.95	1.12	1.29	1.47	1.65	1.83	2.01	2.19	2.37	2.55	2.73	2.91	3.09	3.27	3.45	3.63

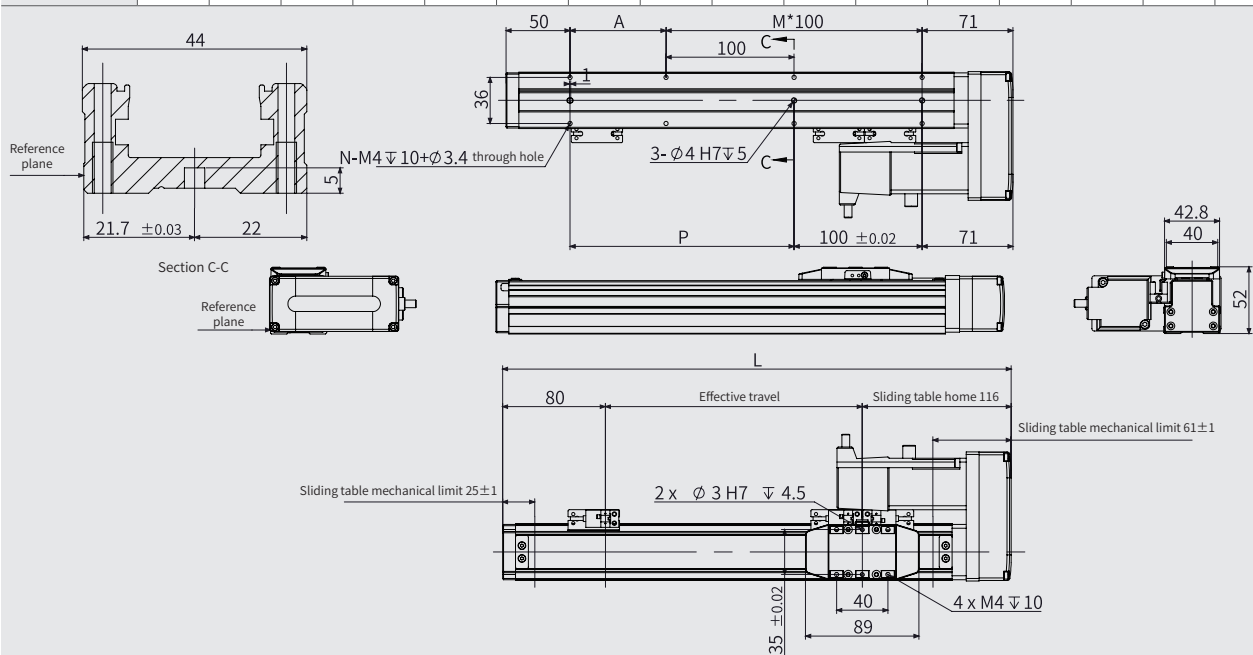


D	Motor Connected Down															
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	246	296	346	396	446	496	546	596	646	696	746	796	846	896	946	996
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.04	1.22	1.4	1.58	1.76	1.94	2.12	2.3	2.48	2.66	2.84	3.02	3.2	3.38	3.56	3.74

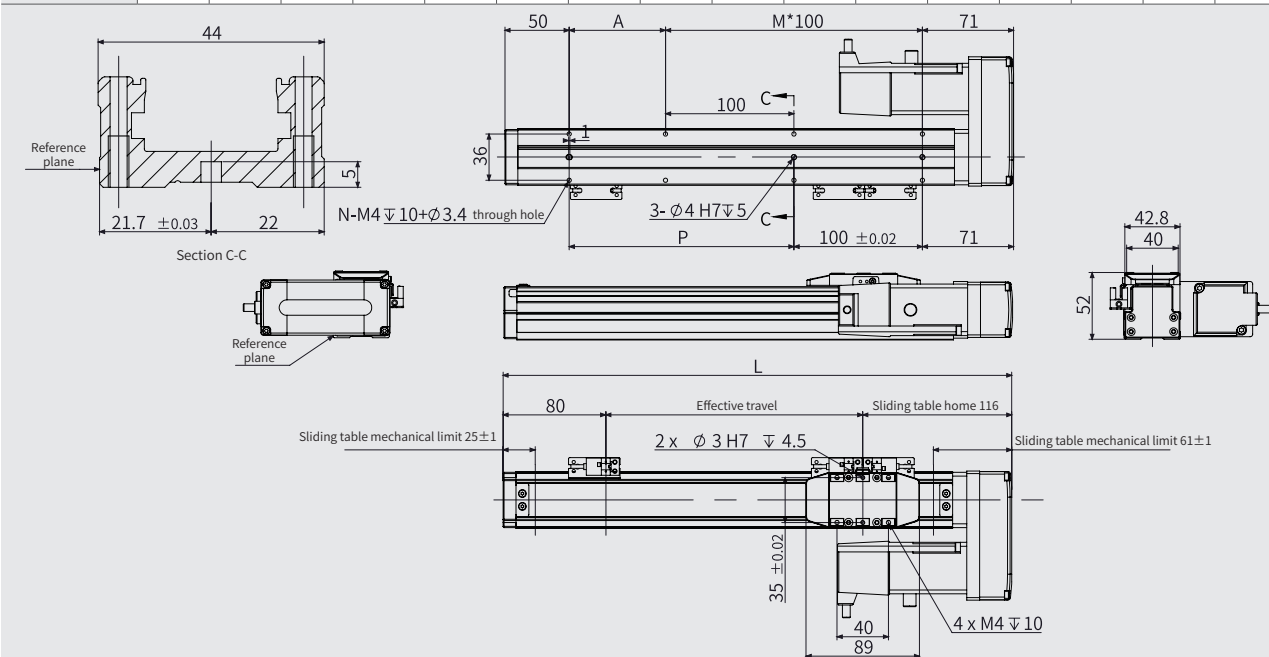


Travel

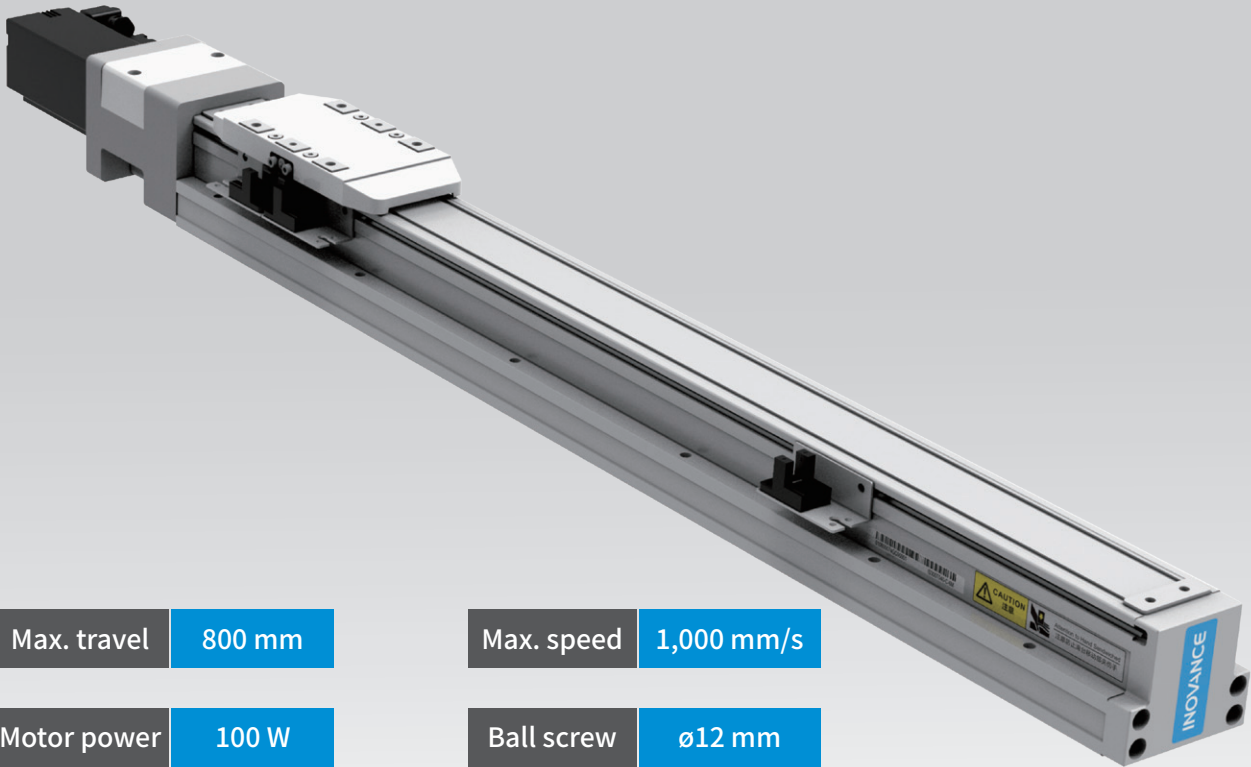
L	Motor Connected on the Left															
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	246	296	346	396	446	496	546	596	646	696	746	796	846	896	946	996
A	25	75	25	75	28	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.04	1.22	1.4	1.58	1.76	1.94	2.12	2.3	2.48	2.66	2.84	3.02	3.2	3.38	3.56	3.74



R	Motor Connected on the Right															
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	246	296	346	396	446	496	546	596	646	696	746	796	846	896	946	996
A	25	75	25	75	28	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.04	1.22	1.4	1.58	1.76	1.94	2.12	2.3	2.48	2.66	2.84	3.02	3.2	3.38	3.56	3.74



GS 5 Track-Embedded Lead Screw Electric Cylinder



Max. travel 800 mm

Max. speed 1,000 mm/s

Motor power 100 W

Ball screw $\varnothing 12$ mm

Model Description

G S 5 - 5 S 100 - N 3 - 10 B - VP - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

① Series number G	⑤ Motor position S: Direct connected D: Connected down L: Connected on the left R: Connected on the right	⑧ Sensor quantity N: No sensor 1: 1 2: 2 3: 3
② Cylinder type S: Screw embedded	⑥ Travel 50 mm to 800 mm Interval of 50 mm ※ Within a travel of 50, only two sets of sensors can be installed.	⑨ Motor power 10: 100 W
③ Width 5: 54 mm	⑦ Sensor type None: No sensor N: NPN sensor P: PNP sensor	⑩ Brake None: No brake B: Brake
④ Lead 5: 5 mm 10: 10 mm 20: 20 mm		⑪ Drive type VP: Standard SV660P drive VN: Standard SV660N drive
		⑫ Customization

Note: When a travel of 50 is selected, the following restrictions apply:

1. The home and limit must be placed on opposite sides.
2. Sensor plates need to be installed on both the left and right sides of the slider.

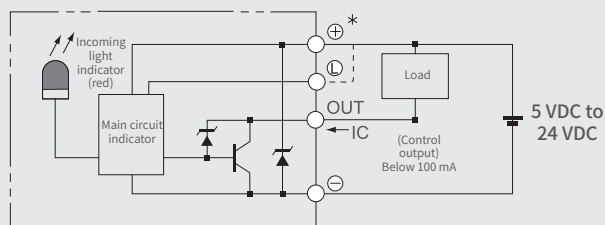
Basic Parameters

Item		Specification		
Repeatability (mm)		± 0.01		
Screw Lead (mm)		5	10	20
Max. Speed (mm/s)		250	500	1,000
Max. Load Capacity	Horizontal Axis (kg)	30	15	10
	Vertical Axis (kg)	10	5	2.5
Rated Force (N)		341	170	85
Standard Travel (mm)		50 mm to 800 mm, with an interval of 50 mm		
Power of AC Servo Motor (W)		100		
Ball Screw Outer Diameter (mm)		C7 Φ 12		
Coupling (mm)		7 x 8		
Origin Sensor	External	SGY-NH (NPN)/SGY-PH (PNP)		

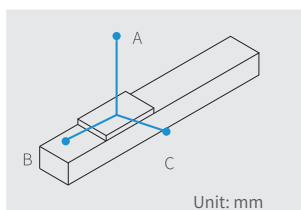
Note: When the travel exceeds 600, the lead screw may deflect. In this case, reduce the speed.

The motor acceleration/deceleration is set to 0.2s.

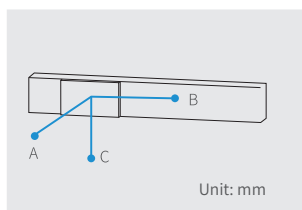
Sensor Connection Diagram



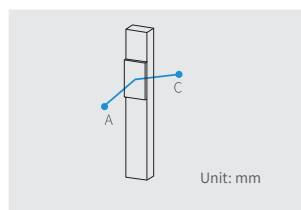
Permissible Load Torque



Horizontal Mounting		A	B	C
Lead 5	10 kg	650	75	100
	20 kg	440	32	45
	30 kg	270	19	25
Lead 10	5 kg	600	145	185
	10 kg	370	70	85
	15 kg	250	42	52
Lead 20	5 kg	320	120	130
	8 kg	220	70	80
	10 kg	175	55	60

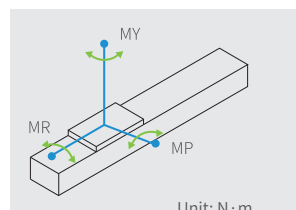


Backplate Mounting		A	B	C
Lead 5	10 kg	100	75	650
	20 kg	45	32	420
	30 kg	25	19	260
Lead 10	5 kg	180	145	600
	10 kg	85	68	370
	15 kg	52	42	250
Lead 20	5 kg	130	120	320
	8 kg	75	70	220
	10 kg	60	55	170



Vertical Mounting		A	C
Lead 5	6 kg	145	145
	8 kg	110	110
	10 kg	90	90
Lead 10	1 kg	800	800
	3 kg	260	260
	5 kg	155	155
Lead 20	1 kg	600	600
	2 kg	300	300
	2.5 kg	250	250

Static Allowable Load Inertia

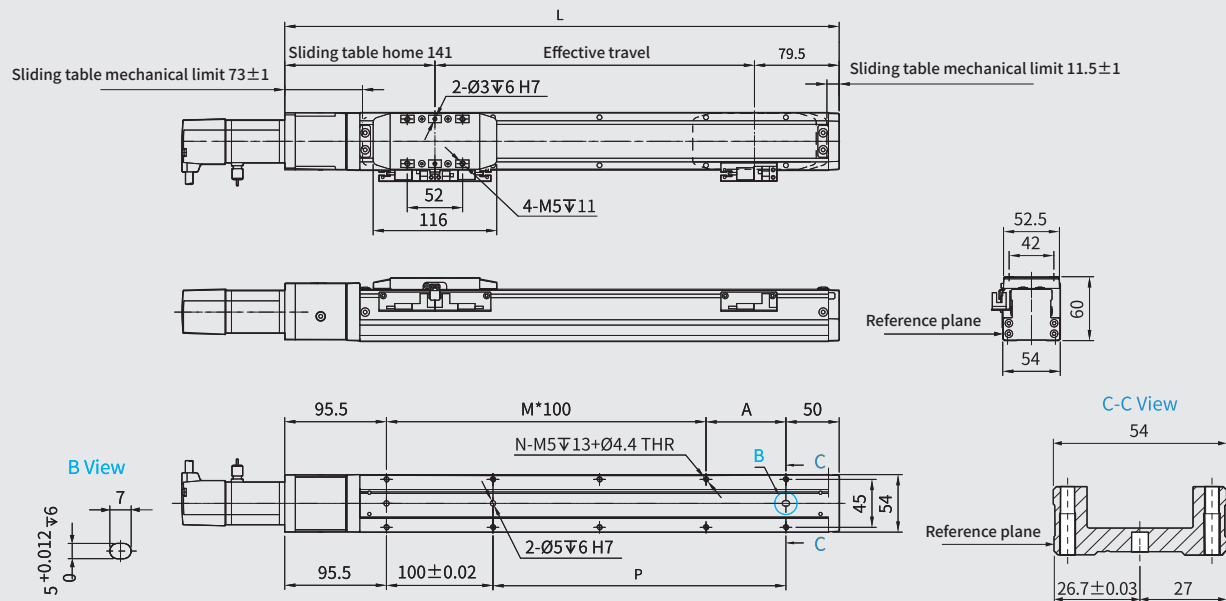


MY	103
MP	103
MR	144

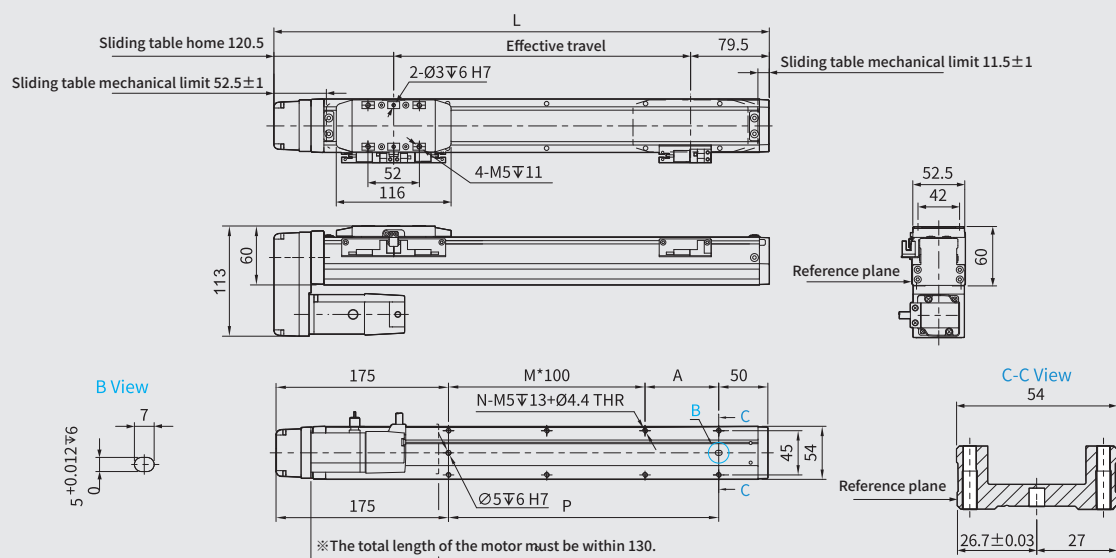
- Data in the torque table specifies the maximum allowable offset distance of the gravity.
- Under normal use in compliance with the specifications in the product catalogs, ensure that the lifetime is 10,000 km.
- Inverted mounting fails to comply with the standard specifications. If required, contact our business personnel.

Travel

S	Motor Direct Connected															
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	270.5	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1,020.5
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.65	1.79	1.92	2.11	2.39	2.50	2.52	2.75	2.85	2.95	3.15	3.28	3.44	3.58	3.71	4.09



D	Motor Connected Down															
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7
N	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.68	1.80	2.03	2.14	2.42	2.53	2.58	2.78	2.89	2.98	3.18	3.31	3.47	3.60	3.74	4.12



※ When the motor is connected downward and a motor with brake is selected or the total length of the motor exceeds the limit, standard PIN holes cannot be used. If needed, contact our business personnel.

LS Series

LSC Series

GS Series

LEB Series

LB Series

LBC Series

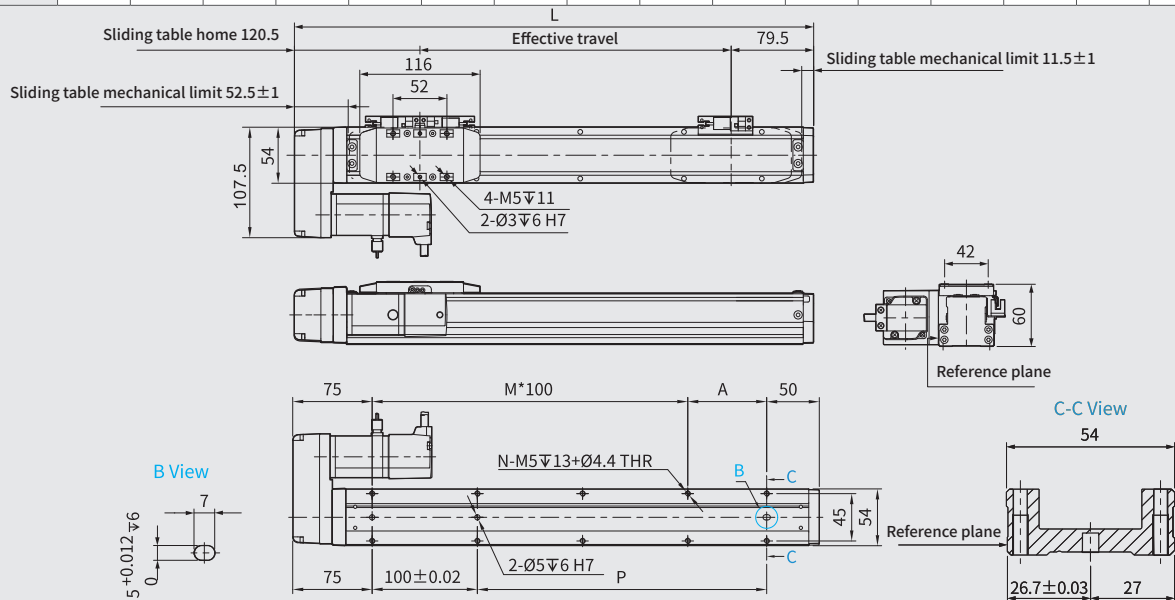
KS Series

LY Series

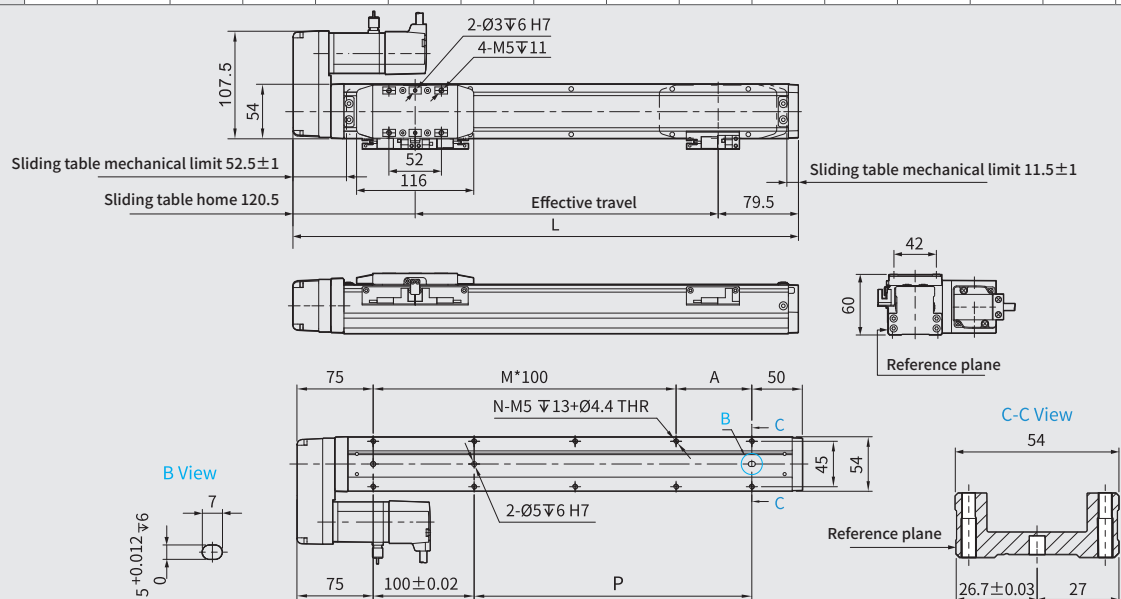
GY Series

Travel

L	Motor Connected on the Left															
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.68	1.80	2.03	2.14	2.42	2.53	2.58	2.78	2.89	2.98	3.18	3.31	3.47	3.60	3.74	4.12

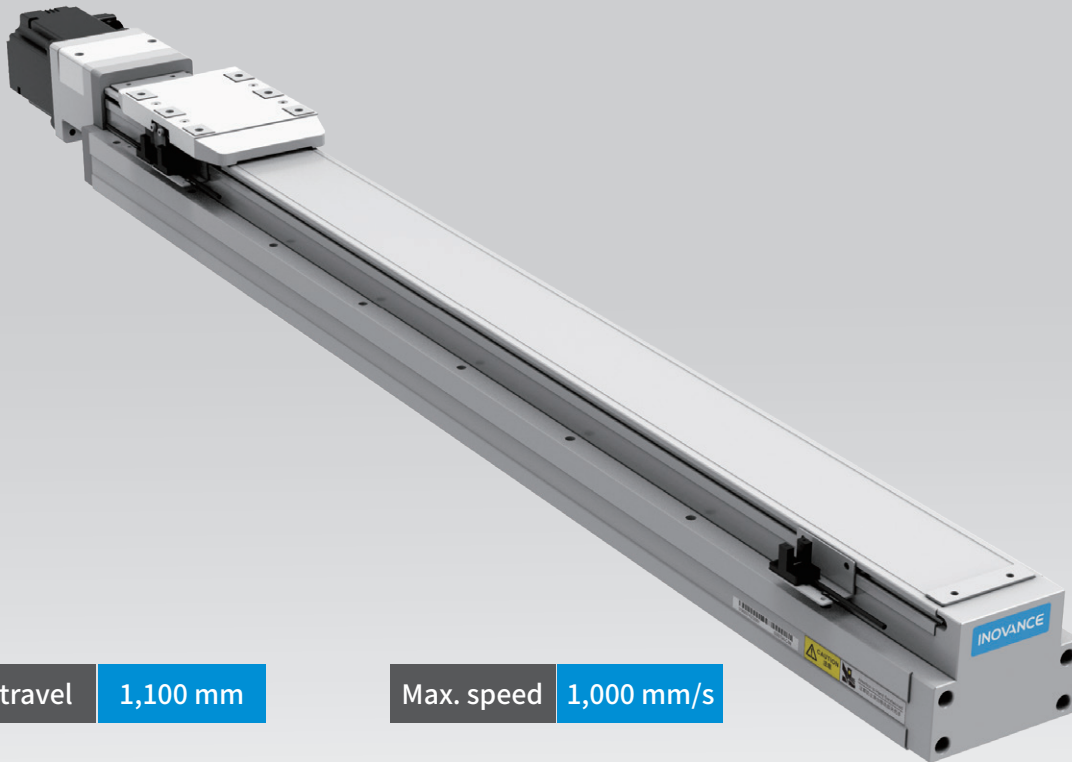


R	Motor Connected on the Right															
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.68	1.80	2.03	2.14	2.42	2.53	2.58	2.78	2.89	2.98	3.18	3.31	3.47	3.60	3.74	4.12



GS 8

Track-Embedded Lead Screw Electric Cylinder



Max. travel 1,100 mm

Max. speed 1,000 mm/s

Motor power 400 W

Ball screw $\varnothing 16$ mm

Model Description

G S 8 - 10 S 100 - N 3 - 40 B - VP - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

① Series number G	⑤ Motor position S: Direct connected D: Connected down L: Connected on the left R: Connected on the right	⑧ Sensor quantity N: No sensor 1: 1 2: 2 3: 3
② Cylinder type S: Screw embedded		
③ Width 8: 82 mm	⑥ Travel 50 mm to 1,100 mm Interval of 50 mm ※ Within a travel of 50, only two sets of sensors can be installed.	⑨ Motor power 40: 400 W
④ Lead 5: 5 mm 10: 10 mm 20: 20 mm	⑦ Sensor type None: No sensor N: NPN sensor P: PNP sensor	⑩ Brake None: No brake B: Brake
		⑪ Drive type VP: Standard SV660P drive VN: Standard SV660N drive
		⑫ Customization

Note: When a travel of 50 is selected, the following restrictions apply:

1. The home and limit must be placed on opposite sides.
2. Sensor plates need to be installed on both the left and right sides of the slider.

LS Series

LSC Series

GS Series

LEB Series

LB Series

LBC Series

KS Series

LY Series

GY Series

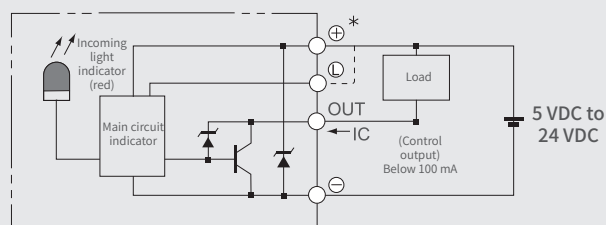
Basic Parameters

Item		Specification		
Repeatability (mm)		± 0.01		
Screw Lead (mm)		5	10	20
Max. Speed (mm/s)		250	500	1,000
Max. Load Capacity	Horizontal Axis (kg)	50	30	12
	Vertical Axis (kg)	15	8	2.5
Rated Force (N)		1,388	694	347
Standard Travel (mm)		50 mm to 1,100 mm, with an interval of 50 mm		
Power of AC Servo Motor (W)		400		
Ball Screw Outer Diameter (mm)		C7 Φ 16		
Coupling (mm)		10 x 14		
Origin Sensor	External	SGY-NH (NPN)/SGY-PH (PNP)		

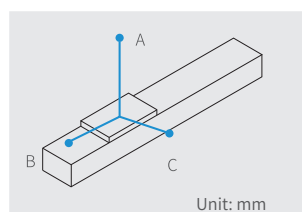
Note: When the travel exceeds 750, the lead screw may deflect. In this case, reduce the speed.

The motor acceleration/deceleration is set to 0.2s.

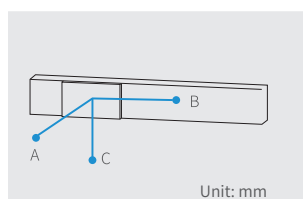
Sensor Connection Diagram



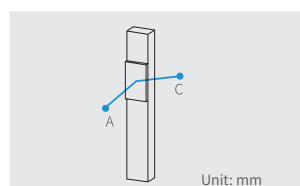
Permissible Load Torque



Horizontal Mounting		A	B	C
Lead 5	20 kg	1,560	153	237
	35 kg	890	81	126
	50 kg	550	53	82
Lead 10	10 kg	1,730	286	412
	20 kg	839	136	196
	30 kg	541	86	124
Lead 20	6 kg	1,213	403	493
	9 kg	800	264	323
	12 kg	592	194	238

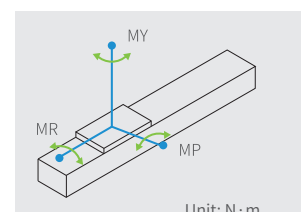


Backplate Mounting		A	B	C
Lead 5	20 kg	214	153	1,435
	35 kg	113	81	845
	50 kg	74	53	506
Lead 10	10 kg	370	286	1,400
	20 kg	176	136	800
	30 kg	112	86	495
Lead 20	6 kg	444	403	760
	9 kg	292	264	544
	12 kg	214	194	277



Vertical Mounting		A	C
Lead 5	10 kg	331	331
	15 kg	220	220
	-	-	-
Lead 10	5 kg	589	589
	8 kg	368	368
	-	-	-
Lead 20	2.5 kg	935	935
	-	-	-
	-	-	-

Static Allowable Load Inertia



MY	318
MP	318
MR	626

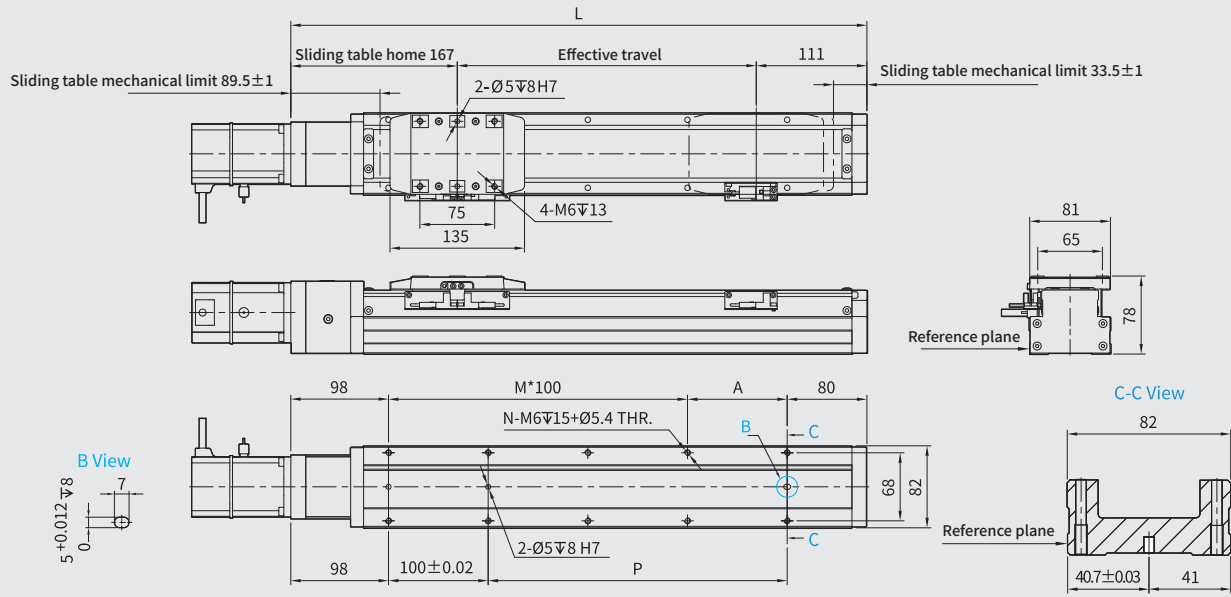
Data in the torque table specifies the maximum allowable offset distance of the gravity.

Under normal use in compliance with the specifications in the product catalogs, ensure that the lifetime is 10,000 km.

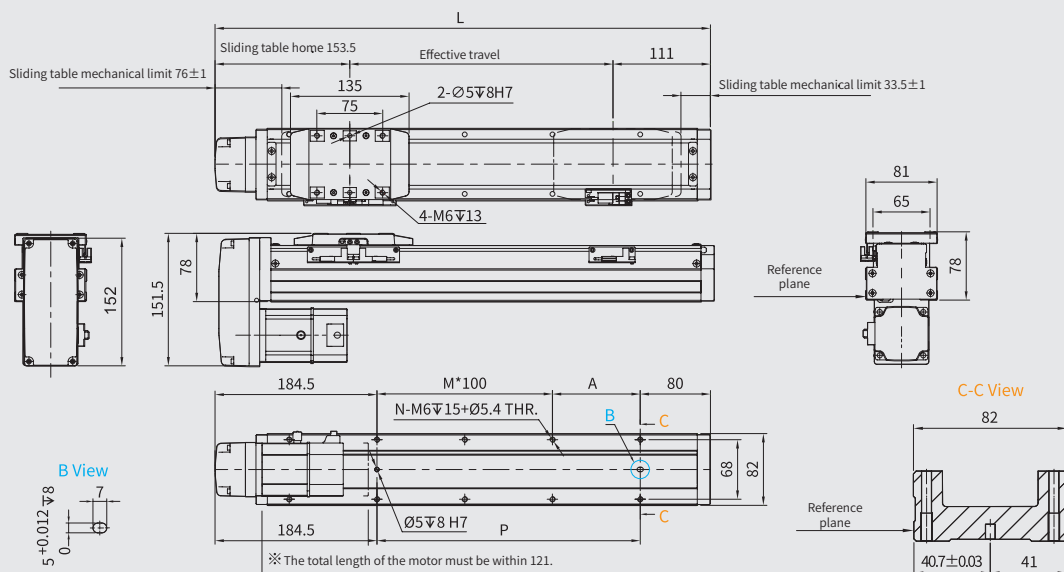
Inverted mounting fails to comply with the standard specifications. If required, contact our business personnel.

Travel

S	Motor Direct Connected																					
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100
L	328	378	428	478	528	578	628	678	728	778	828	878	928	978	1,028	1,078	1,128	1,178	1,228	1,278	1,328	1,378
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100
KG	3.91	4.29	4.70	5.00	5.35	5.68	6.00	6.35	6.64	6.97	7.41	7.71	8.12	8.41	8.65	8.96	9.37	9.62	10.01	10.28	10.70	11.12



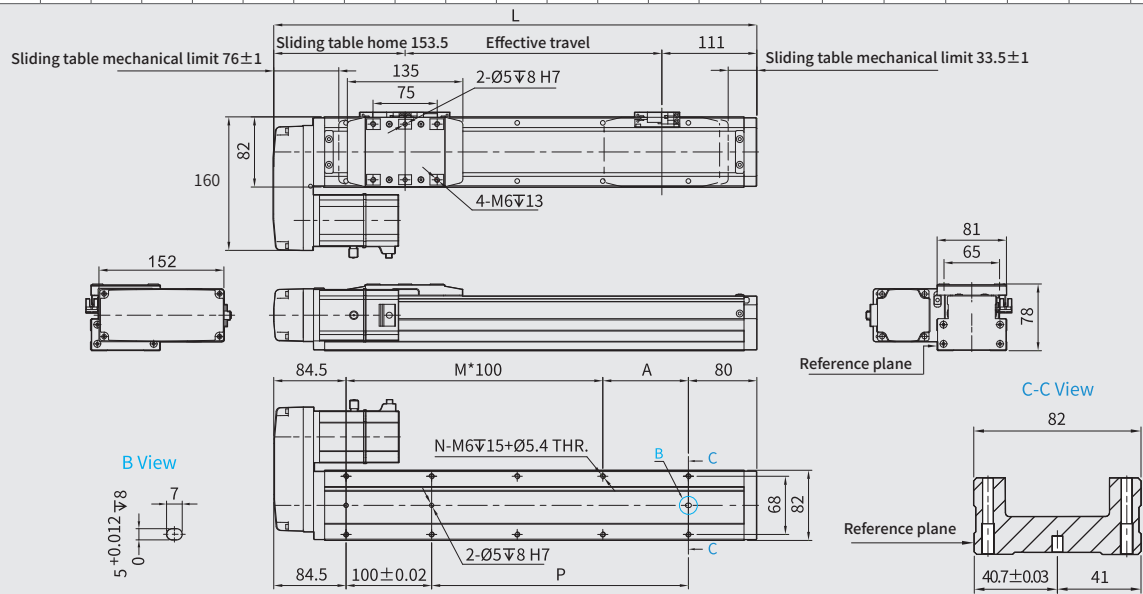
D	Motor Connected Down																					
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1,014.5	1,064.5	1,114.5	1,164.5	1,214.5	1,264.5	1,314.5	1,364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100
KG	3.95	4.33	4.74	5.09	5.39	5.72	6.04	6.39	6.68	7.01	7.45	7.75	8.12	8.45	8.69	9.00	9.41	9.66	10.08	10.32	10.74	11.16



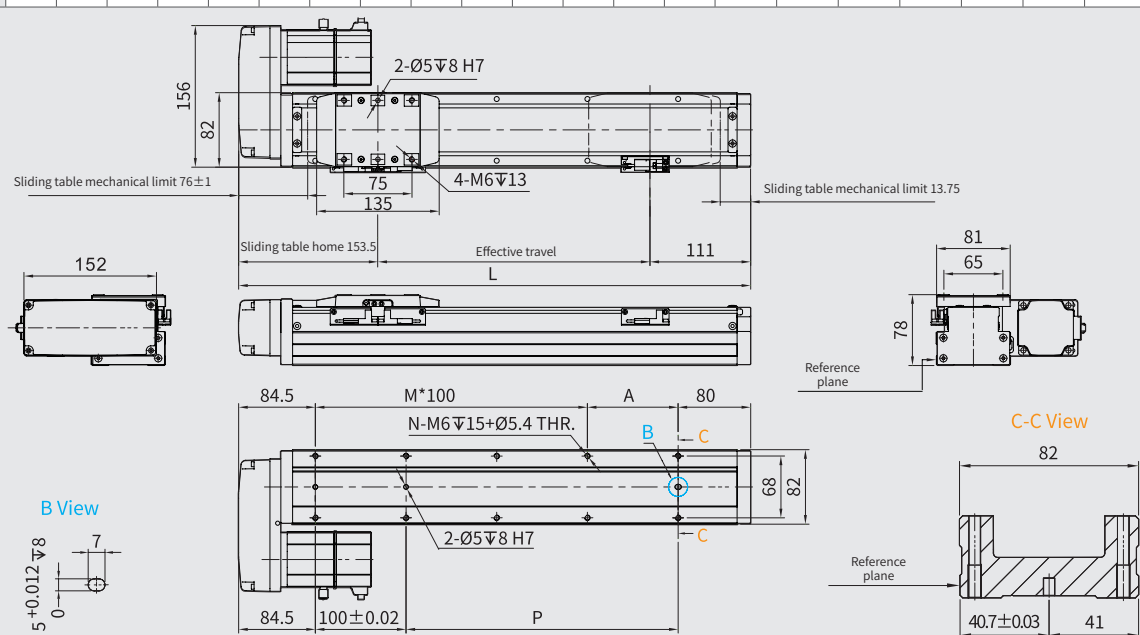
※ When the motor is connected downward and a motor with brake is selected or the total length of the motor exceeds the limit, standard PIN holes cannot be used. If needed, contact our business personnel.

Travel

L	Motor Connected on the Left																					
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1,014.5	1,064.5	1,114.5	1,164.5	1,214.5	1,264.5	1,314.5	1,364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100
KG	3.95	4.33	4.74	5.09	5.39	5.72	6.04	6.39	6.68	7.01	7.45	7.75	8.12	8.45	8.69	9.00	9.41	9.66	10.08	10.32	10.74	11.16

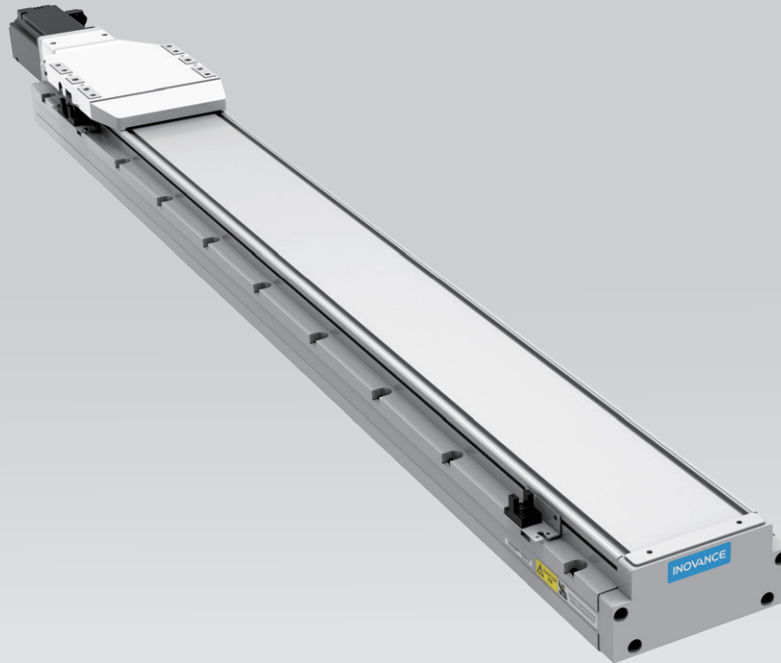


R	Motor Connected on the Right																					
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1,014.5	1,064.5	1,114.5	1,164.5	1,214.5	1,264.5	1,314.5	1,364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100
KG	3.95	4.33	4.74	5.09	5.39	5.72	6.04	6.39	6.68	7.01	7.45	7.75	8.12	8.45	8.69	9.00	9.41	9.66	10.08	10.32	10.74	11.16



GS 12

Track-Embedded Lead Screw Electric Cylinder



Max. travel 1,250 mm

Max. speed 1,600 mm/s

Motor power 400 W

Ball screw $\varnothing 16$ mm

Model Description

G S 12 - 5 S 100 - N 3 - 40 B - VP - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

① Series number G	⑤ Motor position S: Direct connected D: Connected down L: Connected on the left R: Connected on the right	⑧ Sensor quantity N: No sensor 1: 1 2: 2 3: 3
② Cylinder type S: Screw embedded	⑥ Travel 50 mm to 1,250 mm Interval of 50 mm ※ Within a travel of 50, only two sets of sensors can be installed.	⑨ Motor power 40: 400 W
③ Width 12: 120 mm	⑦ Sensor type None: No sensor N: NPN sensor P: PNP sensor	⑩ Brake None: No brake B: Brake
④ Lead 5: 5 mm 10: 10 mm 20: 20 mm 32: 32 mm		⑪ Drive type VP: Standard SV660P drive VN: Standard SV660N drive
		⑫ Customization

Note: When a travel of 50 is selected, the following restrictions apply:

1. The home and limit must be placed on opposite sides.
2. Sensor plates need to be installed on both the left and right sides of the slider.

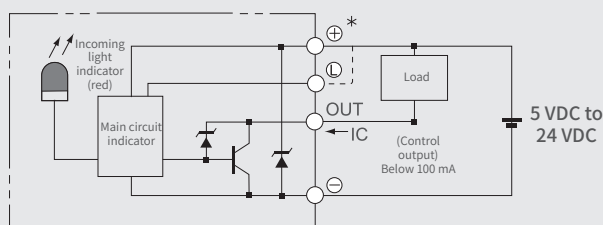
Basic Parameters

Item		Specification			
Repeatability (mm)		± 0.01			
Screw Lead (mm)		5	10	20	32
Max. Speed (mm/s)		250	500	1,000	1,600
Max. Load Capacity	Horizontal Axis (kg)	110	88	40	30
	Vertical Axis (kg)	33	22	10	8
Rated Force (N)		1,388	694	347	218
Standard Travel (mm)		50 mm to 1,250 mm, with an interval of 50 mm			
Power of AC Servo Motor (W)		400			
Ball Screw Outer Diameter (mm)		C7 Φ 16			
Coupling (mm)		10 x 14			
Origin Sensor	External	SGY-NH (NPN)/SGY-PH (PNP)			

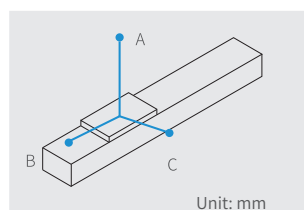
Note: When the travel exceeds 800, the lead screw may deflect. In this case, reduce the speed.

The motor acceleration/deceleration is set to 0.2s.

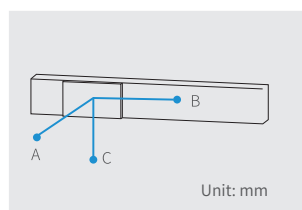
Sensor Connection Diagram



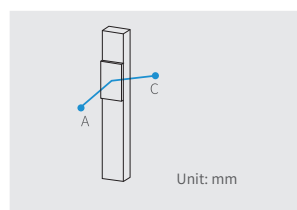
Permissible Load Torque



Horizontal Mounting		A	B	C
Lead 5	60 kg	2,850	250	340
	80 kg	2,100	180	250
	110 kg	1,500	120	170
Lead 10	30 kg	2,850	490	600
	50 kg	1,700	280	350
	88 kg	950	140	190
Lead 20	10 kg	3,400	1,250	1,400
	22 kg	1,650	550	620
	40 kg	900	290	330
Lead 32	15 kg	1,100	570	550
	25 kg	620	330	320
	30 kg	520	270	260

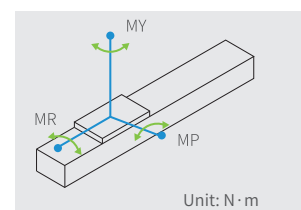


Backplate Mounting		A	B	C
Lead 5	55 kg	280	280	3,300
	75 kg	200	195	2,400
	110 kg	130	125	1,550
Lead 10	35 kg	400	410	2,500
	55 kg	245	250	1,500
	88 kg	150	150	950
Lead 20	12 kg	900	1,070	3,000
	20 kg	550	630	1,800
	40 kg	260	300	900
Lead 32	15 kg	440	570	1,050
	30 kg	210	270	520
	-	-	-	-



Vertical Mounting		A	C
Lead 5	15 kg	1,200	1,200
	22 kg	820	820
	33 kg	550	550
Lead 10	10 kg	1,600	1,600
	14 kg	1,150	1,150
	22 kg	730	730
Lead 20	7 kg	1,800	1,800
	10 kg	1,250	1,250
	-	-	-
Lead 32	5 kg	1,600	1,600
	8 kg	1,000	1,000
	-	-	-

Static Allowable Load Inertia



MY	1,168
MP	606
MR	606

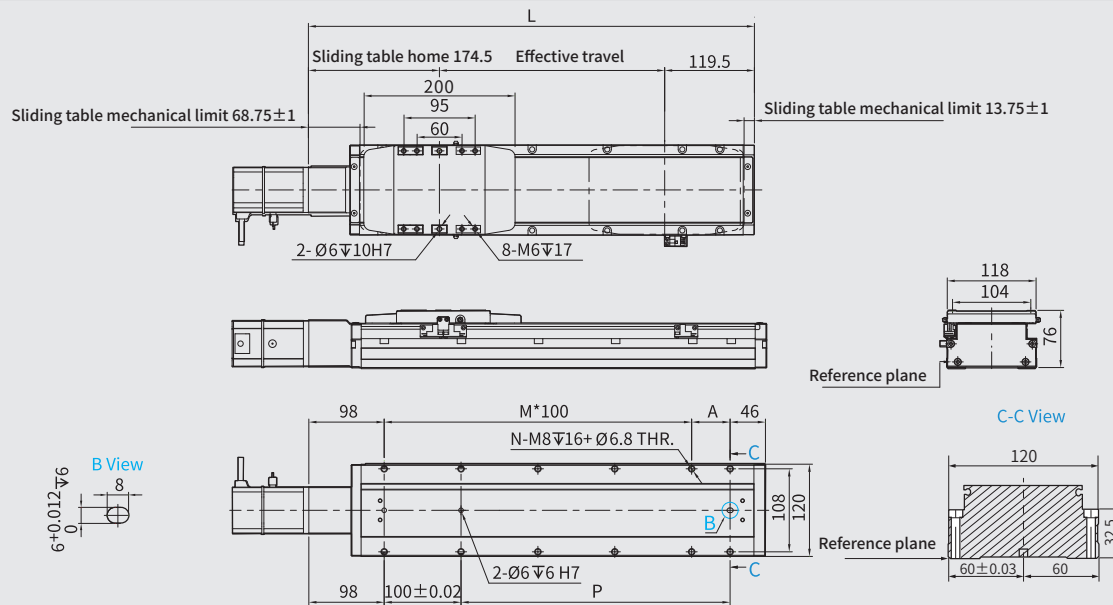
Data in the torque table specifies the maximum allowable offset distance of the gravity.

Under normal use in compliance with the specifications in the product catalogs, ensure that the lifetime is 10,000 km.

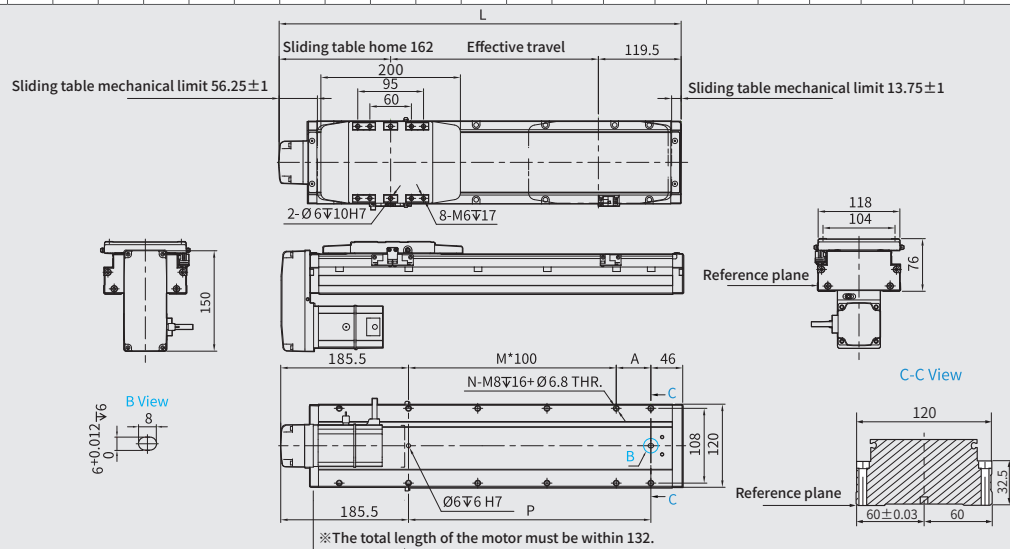
Inverted mounting fails to comply with the standard specifications. If required, contact our business personnel.

Travel

S	Motor Direct Connected																									
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	
L	344	394	444	494	544	594	644	694	744	794	844	894	944	994	1,044	1,094	1,144	1,194	1,244	1,294	1,344	1,394	1,444	1,494	1,544	
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	
KG	5.05	5.4	5.75	6.1	6.45	6.8	7.15	7.5	7.85	8.2	8.55	8.9	9.25	9.6	9.95	10.3	10.65	11	11.35	11.7	12.05	12.4	12.75	13.1	13.45	



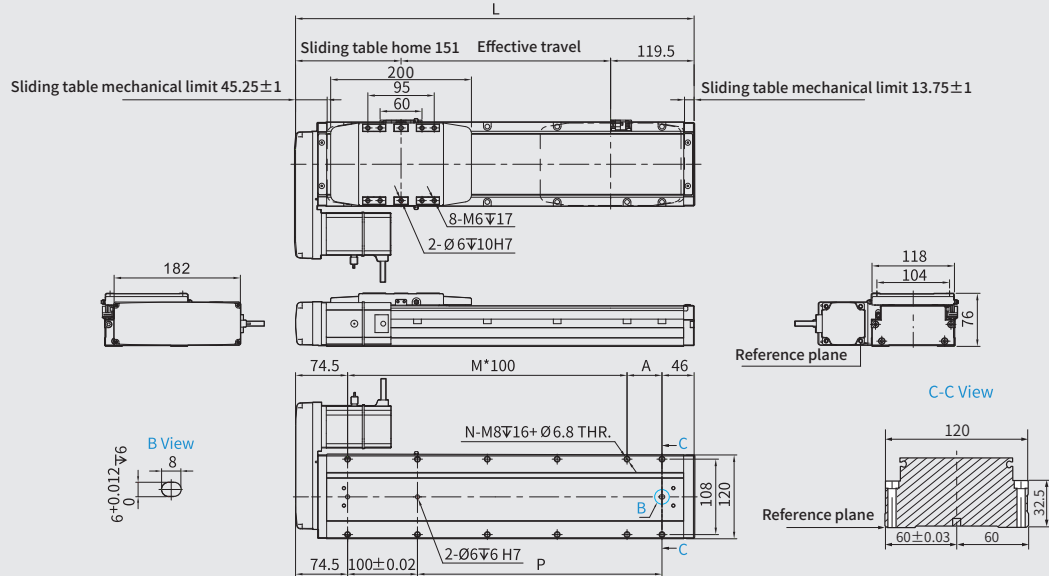
D	Motor Connected Down																									
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	
L	331.5	381.5	431.5	481.5	531.5	581.5	631.5	681.5	731.5	781.5	831.5	881.5	931.5	981.5	1,031.5	1,081.5	1,131.5	1,181.5	1,231.5	1,281.5	1,331.5	1,381.5	1,431.5	1,481.5	1,531.5	
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	
KG	5.21	5.56	5.91	6.26	6.61	6.96	7.31	7.66	8.01	8.36	8.71	9.06	9.41	9.76	10.11	10.46	10.81	11.16	11.51	11.86	12.21	12.56	12.91	13.26	13.61	



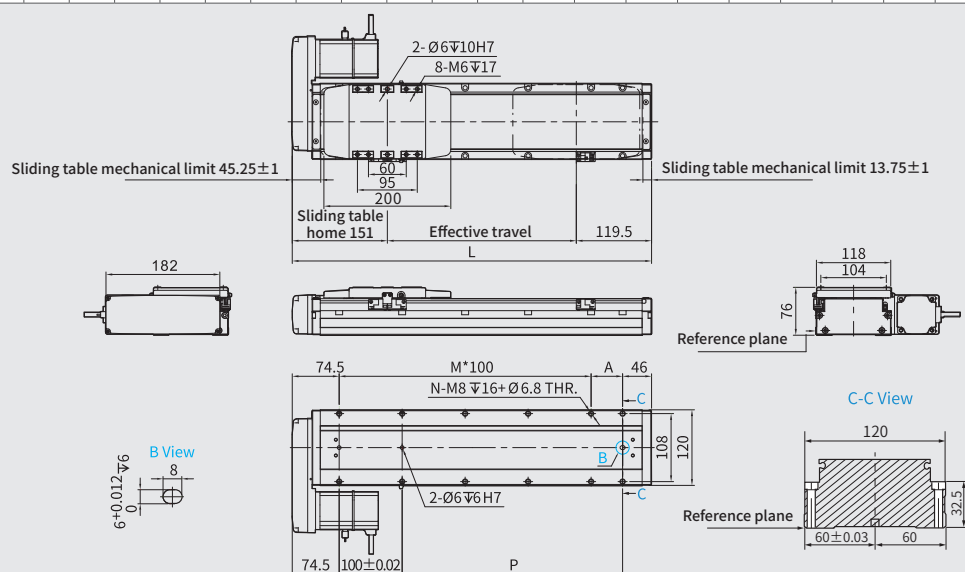
※ When the motor is connected downward and a motor with brake is selected or the total length of the motor exceeds the limit, standard PIN holes cannot be used. If needed, contact our business personnel.

Travel

L	Motor Connected on the Left																								
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250
L	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1,020.5	1,070.5	1,120.5	1,170.5	1,220.5	1,270.5	1,320.5	1,370.5	1,420.5	1,470.5	1,520.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300
KG	5.25	5.6	5.95	6.3	6.65	7	7.35	7.7	8.05	8.4	8.75	9.1	9.45	9.8	10.15	10.85	11.2	11.55	11.9	12.25	12.6	12.56	12.91	13.26	13.61



R	Motor Connected on the Right																								
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250
L	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1,020.5	1,070.5	1,120.5	1,170.5	1,220.5	1,270.5	1,320.5	1,370.5	1,420.5	1,470.5	1,520.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300
KG	5.25	5.6	5.95	6.3	6.65	7	7.35	7.7	8.05	8.4	8.75	9.1	9.45	9.8	10.15	10.85	11.2	11.55	11.9	12.25	12.6	12.56	12.91	13.26	13.61

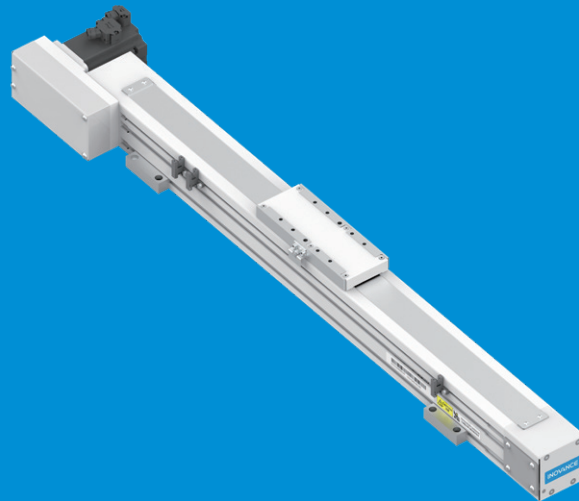


Sliding Table Series

LEB Series

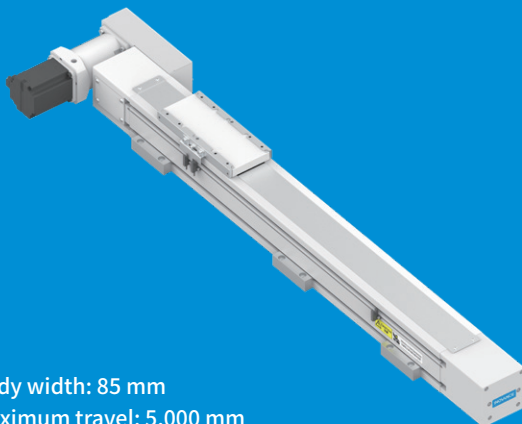
General Environment/European
Standard Belt-Driven Sliding Table
Electric Cylinder

Small LEB65



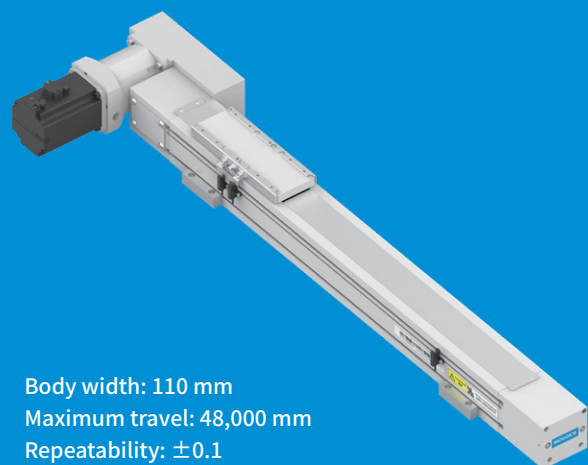
Body width: 65 mm
Maximum travel: 3,000 mm
Repeatability: ± 0.1

Medium LEB85



Body width: 85 mm
Maximum travel: 5,000 mm
Repeatability: ± 0.1

Large LEB110



Body width: 110 mm
Maximum travel: 48,000 mm
Repeatability: ± 0.1

Specifications Index

European Standard Belt-Driven Sliding Table Electric Cylinder

Working Environment	Transmission Mode	Specification	Reducer	Motor Power	Body Width	Repeatability	Belt Specification		Max. Load Capacity	
							Width	Lead	Horizontal Axis	Vertical Axis
General environment	Timing belt	LEB65	Yes	400 W	65	±0.1	30	110 ^{*2}	60	
		LEB85	Yes	750 W	85	±0.1	45	200 ^{*2}	100	24
		LEB110	Yes	750 W	110	±0.1	50	250 ^{*2}	200	50

Specification	Max. Speed ¹	Standard Travel and Max. Operating Speed																
		500	900	1,100	1,300	1,500	1,900	2,300	2,700	3,000	3,100	3,300	3,700	4,100	4,800	5,000	5,100	5,300
LEB65	2,000 ^{*2}	2,000																
LEB85	2,000 ^{*2}																	
LEB110	2,000 ^{*2}																	

Speed

Note 1: The maximum speed (mm/s) is set based on the rated speed of 3,000 rpm of the servo motor.

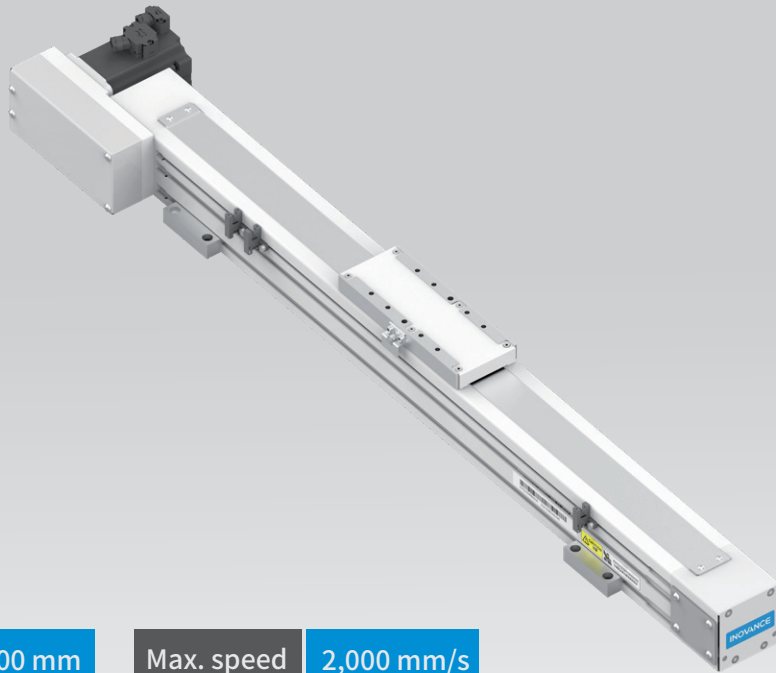
Note 2: The lead and maximum speed vary with the reduction ratio.

Motor Installation Position

Motor mounting positions in multiple directions are available, providing greater flexibility in machine design.

L: Motor connected on the left	LU: Motor connected left up	LD: Motor connected left down	LT: Motor direct connected on the left	LL: Left-side output shaft
R: Motor connected on the right	RU: Motor connected right up	RD: Motor connected right down	RT: Motor direct connected on the right	RR: Right-side output shaft

LEB 65

European Standard Belt-Driven
Sliding Table Electric Cylinder

Max. travel	3,000 mm	Max. speed	2,000 mm/s
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Motor power	400 W	Belt width	30 mm	Linear slide rail	15 x 12.5 - 1
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Model Description

L EB 65 - 110 R 600 - N 3 - 40 B - K 3 - VP - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭

① Series number L	⑥ Travel 100 mm to 3,000 mm Interval of 100 mm	⑨ Motor power 40: 400 W	
② Cylinder type EB: European belt		⑩ Brake None: No brake B: Brake	⑪ Reducer providing None: Configured by Inovance K: Provided by customer
③ Width 65: 65 mm	⑦ Sensor type N: NPN sensor P: PNP sensor	⑫ Reduction ratio 3:3 5:5	
④ Lead 110: 110 mm		⑬ Drive type VP: Standard SV660P drive VN: Standard SV660N drive	
⑤ Motor position L: Motor connected on the left R: Motor connected on the right LU: Motor connected left up RU: Motor connected right up LD: Motor connected left down RD: Motor connected right down LT: Motor direct connected on the left RT: Motor direct connected on the right LL: Left-side output shaft RR: Right-side output shaft	⑧ Sensor quantity N: No sensor 1: 1 2: 2 3: 3	⑭ Customization	

Note: No reducer can be configured when the motor is connected in the RR, LL, RT, or LT direction.

Basic Parameters

Item		Specification			
Reducer Ratio		3:1	5:1	7:1	10:1
Max. Speed (mm/s)		1,833	1,100	785	550
Max. Load Capacity	Horizontal Axis (kg)	30	45	55	60
	Vertical Axis (kg)	9	15	16	17
Repeatability		± 0.1			
Rated Force (N)		220			
Standard Travel (mm)		100 mm to 3,000 mm, with an interval of 100 mm			
Power of AC Servo Motor (W)		400			
Belt Width (mm)		30			
High-Stiffness Linear Slide Rail (mm)		W15 x H12.5			
Origin Sensor	External	SGT-NH(NPN)/SGT-PH(PNP)			

Note: The motor acceleration/deceleration is set to 0.4s.

When no reducer is installed on the sliding table, the lead is 110.

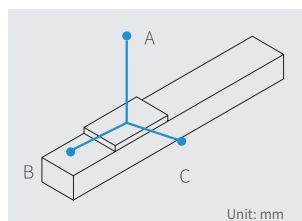
Note that if the belt breaks in the vertical axis, the load may fall.

Number of Slide Table Fixing Nuts

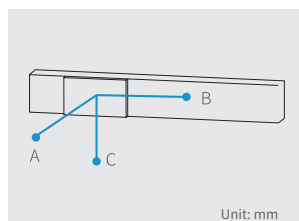
Number of M5 Rear Nuts for Each Travel	
Effective Travel	Quantity
100 to 500	4
600 to 1,000	6
1,100 to 1,500	8
1,600 to 2,000	10
2,100 to 2,500	12
2,600 to 3,000	14

Note: Using M5 rear nuts to fix the sliding table is the standard mode, which is the bottom locking type.

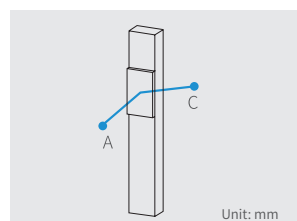
Permissible Load Torque



Horizontal Mounting		A	B	C
3:1	10 kg	950	250	42
	20 kg	420	105	18
	30 kg	250	55	10
5:1	25 kg	950	140	24
	35 kg	625	90	15
	45 kg	450	55	10
7:1	28 kg	1,300	145	25
	40 kg	850	90	15
	55 kg	550	50	10
10:1	30 kg	1,850	145	25
	45 kg	1,250	90	15
	60 kg	800	50	10

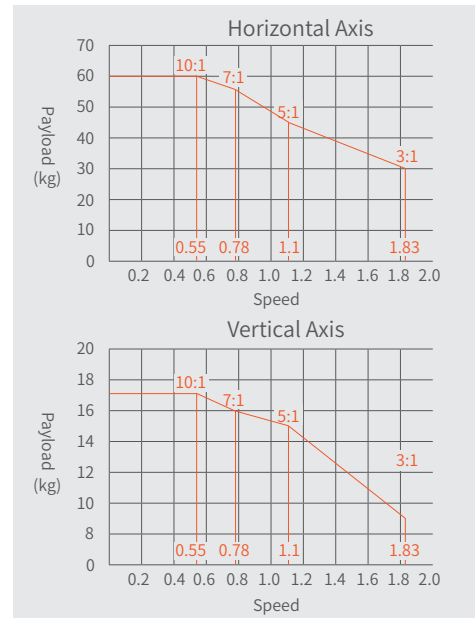


Backplate Mounting		A	B	C
3:1	10 kg	42	250	950
	20 kg	19	110	450
	30 kg	10	60	260
5:1	25 kg	25	140	950
	35 kg	15	90	600
	45 kg	10	60	450
7:1	28 kg	25	145	1,300
	40 kg	15	90	850
	55 kg	10	60	550
10:1	30 kg	25	140	1,950
	45 kg	15	90	1,150
	60 kg	10	60	800

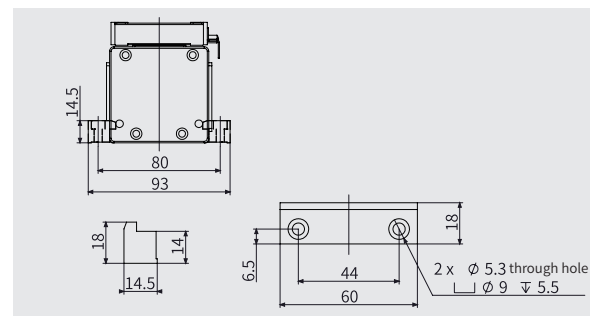


Vertical Mounting		A	C
3:1	3 kg	900	900
	6 kg	450	450
	9 kg	300	300
5:1	5 kg	900	900
	10 kg	450	450
	15 kg	300	300
7:1	6 kg	900	900
	12 kg	450	450
	16 kg	300	300
10:1	6 kg	900	900
	13 kg	450	450
	17 kg	330	330

Speed - Payload Curve

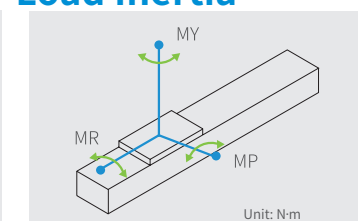


Installation Diagram



Note: The top-locking mounting board is a non-standard item. If required, purchase it separately.

Static Allowable Load Inertia



MY	338
MP	338
MR	59

Data in the torque table specifies the maximum allowable offset distance of the gravity.

Under normal use in compliance with the specifications in the product catalogs, ensure that the lifetime is 10,000 km.

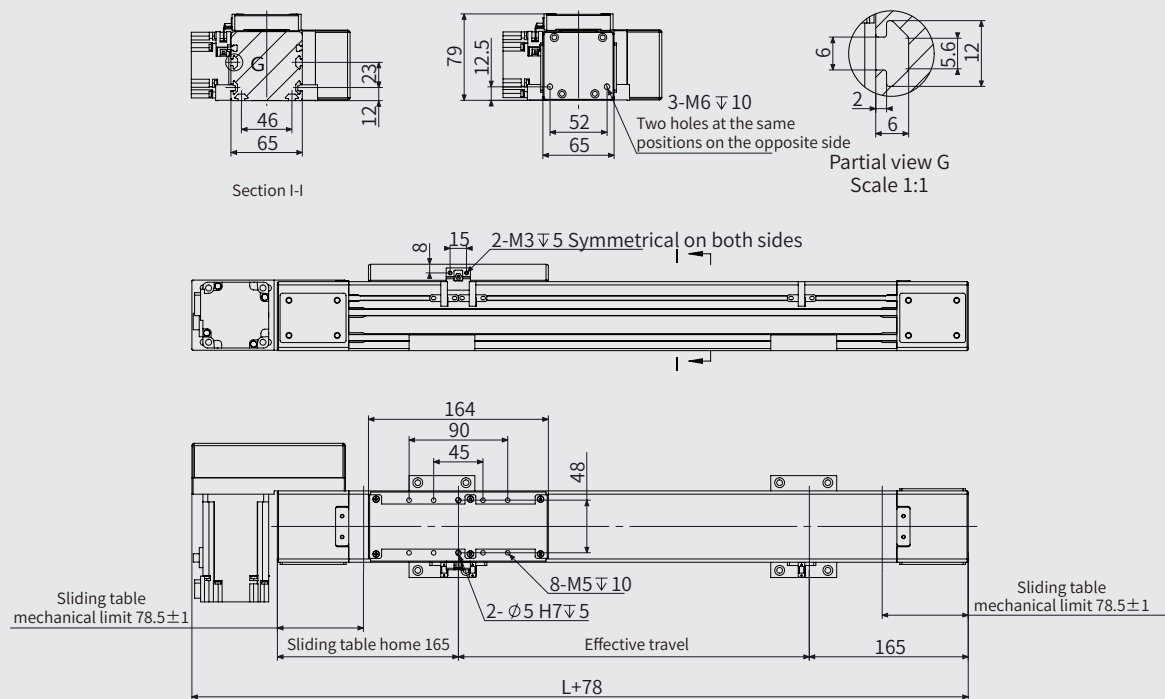
For total length exceeding 1,000 m, the steel strip may deform. Therefore, prevent the wall-mounting mode.

Inverted mounting fails to comply with the standard specifications. If required, contact our business personnel.

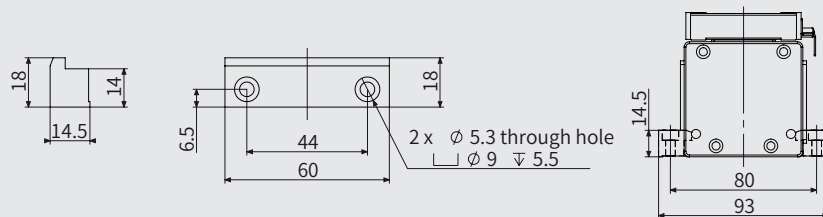
Travel

L	Motor Connected on the Left														
Effective Travel	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500
L	430	530	630	730	830	930	1,030	1,130	1,230	1,330	1,430	1,530	1,630	1,730	1,830
KG	3.13	3.81	4.49	5.17	5.85	6.53	7.21	7.89	8.57	9.25	9.93	10.61	11.29	11.97	12.65

L	Motor Connected on the Left														
Effective Travel	1,600	1,700	1,800	1,900	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000
L	1,930	2,030	2,130	2,230	2,330	2,430	2,530	2,630	2,730	2,830	2,930	3,030	3,130	3,230	3,330
KG	13.13	14.01	14.69	15.37	16.05	16.73	17.41	18.09	18.77	19.45	20.13	20.81	21.49	22.17	22.85



Installation diagram and installation dimensions



LS Series

LSC Series

GS Series

LEB Series

LB Series

LBC Series

KS Series

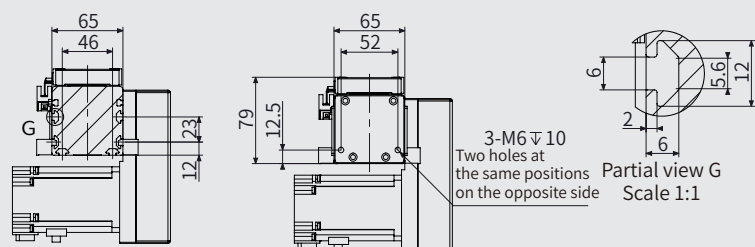
LY Series

GY Series

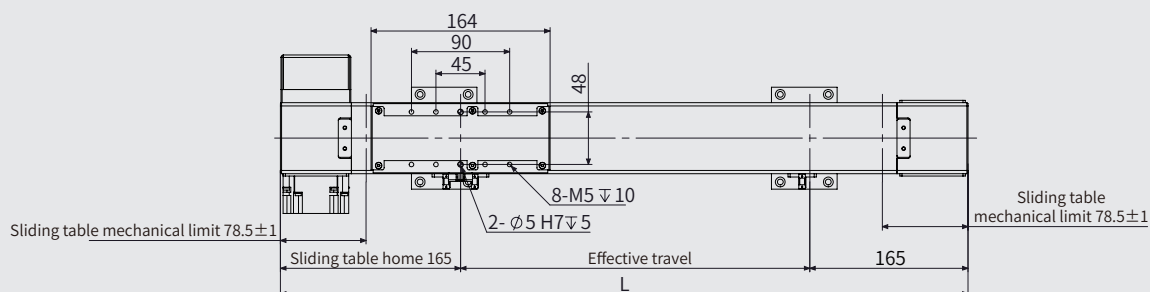
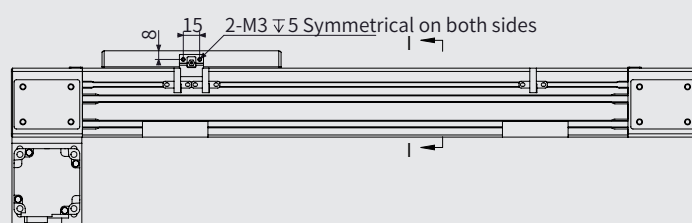
Travel

LD	Motor Connected Left Down														
Effective Travel	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500
L	430	530	630	730	830	930	1,030	1,130	1,230	1,330	1,430	1,530	1,630	1,730	1,830
KG	3.13	3.81	4.49	5.17	5.85	6.53	7.21	7.89	8.57	9.25	9.93	10.61	11.29	11.97	12.65

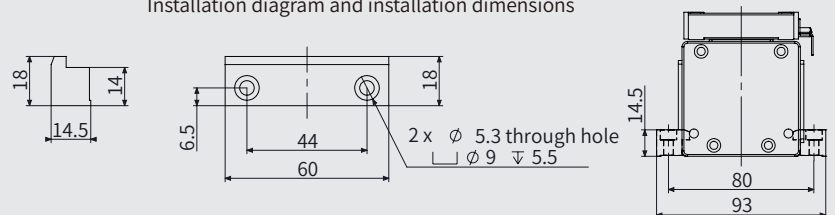
LD	Motor Connected Left Down														
Effective Travel	1,600	1,700	1,800	1,900	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000
L	1,930	2,030	2,130	2,230	2,330	2,430	2,530	2,630	2,730	2,830	2,930	3,030	3,130	3,230	3,330
KG	13.13	14.01	14.69	15.37	16.05	16.73	17.41	18.09	18.77	19.45	20.13	20.81	21.49	22.17	22.85



Section I-I



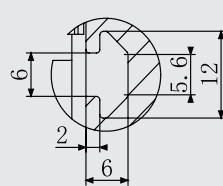
Installation diagram and installation dimensions



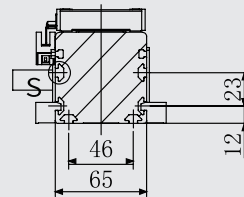
Travel

LL	Left-side Output Shaft														
Effective Travel	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500
L	430	530	630	730	830	930	1,030	1,130	1,230	1,330	1,430	1,530	1,630	1,730	1,830
KG	3.13	3.81	4.49	5.17	5.85	6.53	7.21	7.89	8.57	9.25	9.93	10.61	11.29	11.97	12.65

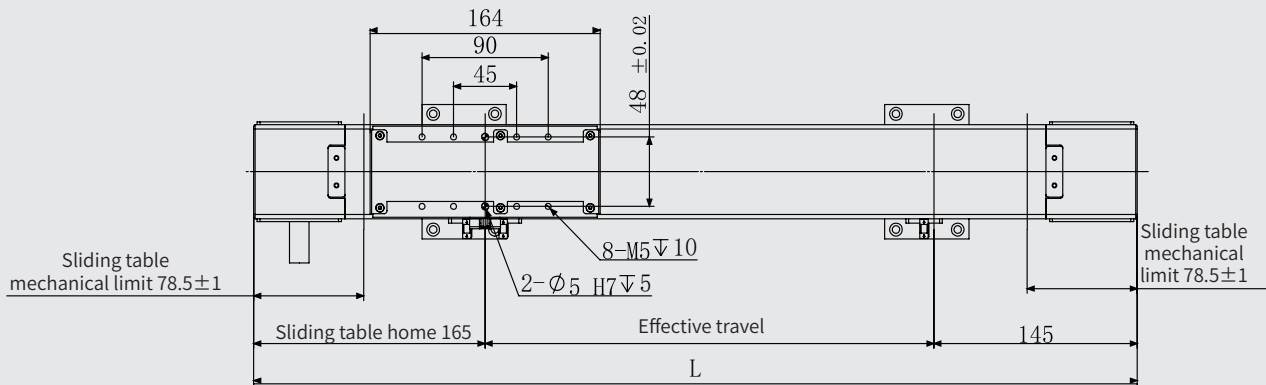
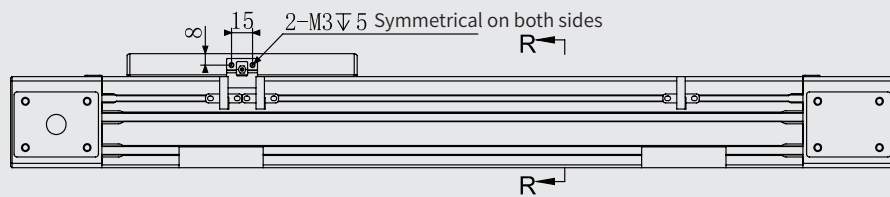
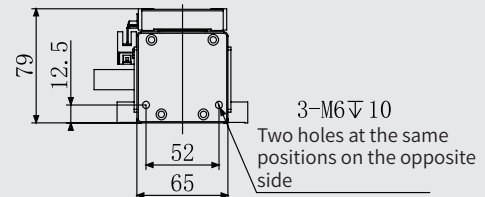
LL	Left-side Output Shaft														
Effective Travel	1,600	1,700	1,800	1,900	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000
L	1,930	2,030	2,130	2,230	2,330	2,430	2,530	2,630	2,730	2,830	2,930	3,030	3,130	3,230	3,330
KG	13.13	14.01	14.69	15.37	16.05	16.73	17.41	18.09	18.77	19.45	20.13	20.81	21.49	22.17	22.85



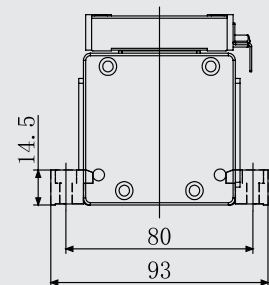
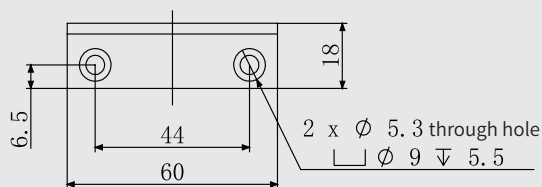
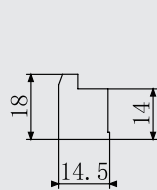
Partial view S



Section R-R



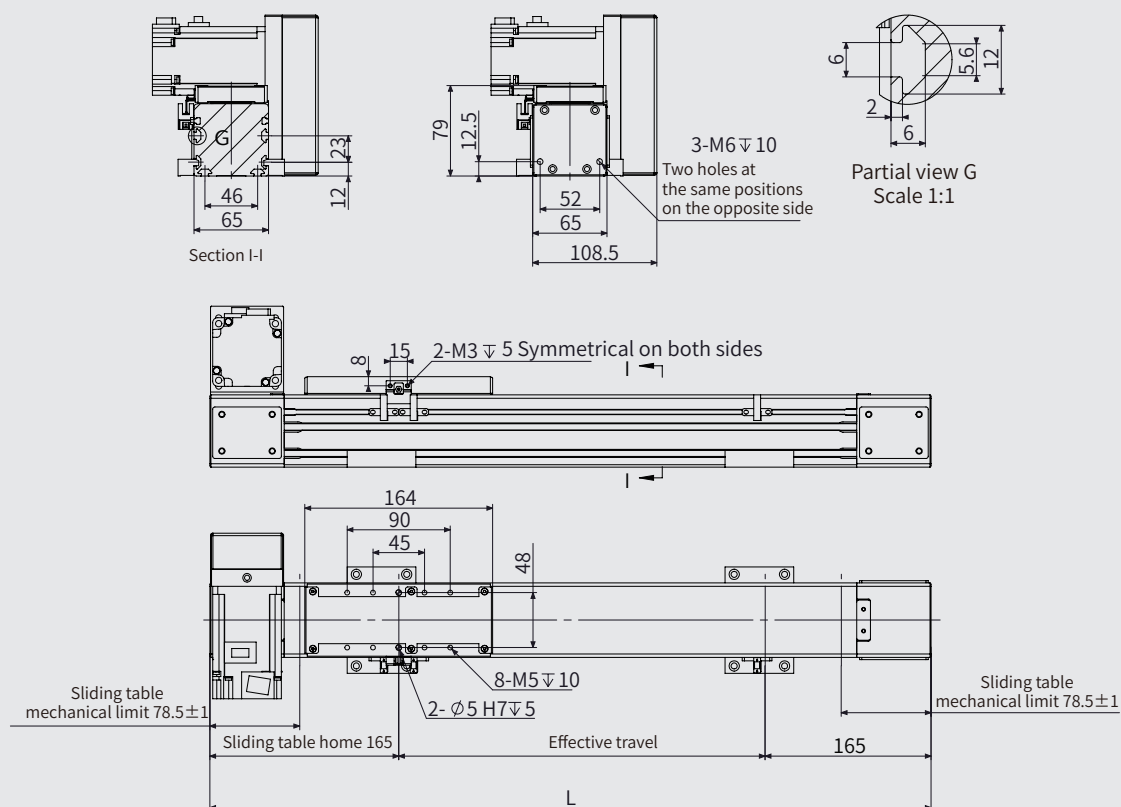
Installation diagram and installation dimensions



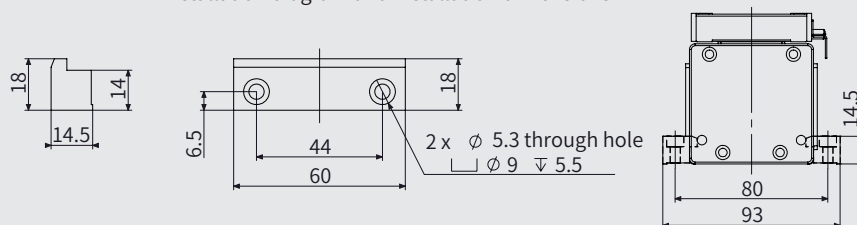
Travel

LU	Motor Connected Left Up														
Effective Travel	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500
L	430	530	630	730	830	930	1,030	1,130	1,230	1,330	1,430	1,530	1,630	1,730	1,830
KG	3.13	3.81	4.49	5.17	5.85	6.53	7.21	7.89	8.57	9.25	9.93	10.61	11.29	11.97	12.65

LU	Motor Connected Left Up														
Effective Travel	1,600	1,700	1,800	1,900	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000
L	1,930	2,030	2,130	2,230	2,330	2,430	2,530	2,630	2,730	2,830	2,930	3,030	3,130	3,230	3,330
KG	13.13	14.01	14.69	15.37	16.05	16.73	17.41	18.09	18.77	19.45	20.13	20.81	21.49	22.17	22.85



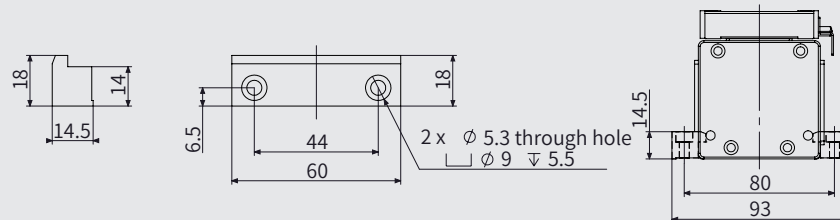
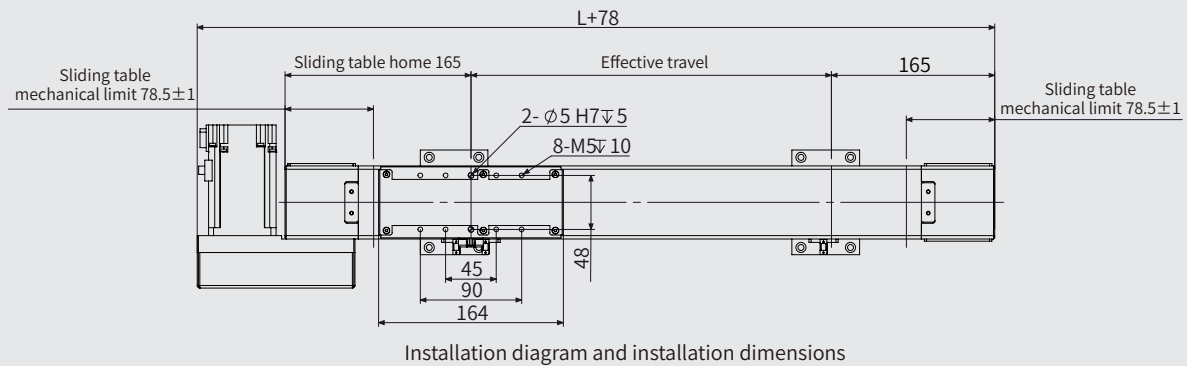
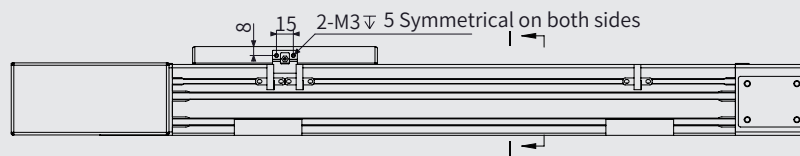
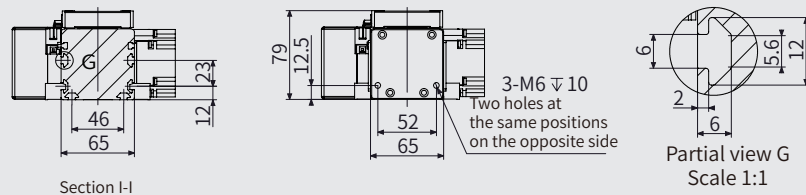
Installation diagram and installation dimensions



Travel

R	Motor Connected on the Right														
Effective Travel	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500
L	430	530	630	730	830	930	1,030	1,130	1,230	1,330	1,430	1,530	1,630	1,730	1,830
KG	3.13	3.81	4.49	5.17	5.85	6.53	7.21	7.89	8.57	9.25	9.93	10.61	11.29	11.97	12.65

R	Motor Connected on the Right														
Effective Travel	1,600	1,700	1,800	1,900	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000
L	1,930	2,030	2,130	2,230	2,330	2,430	2,530	2,630	2,730	2,830	2,930	3,030	3,130	3,230	3,330
KG	13.13	14.01	14.69	15.37	16.05	16.73	17.41	18.09	18.77	19.45	20.13	20.81	21.49	22.17	22.85



LS Series

LSC Series

GS Series

LEB Series

LB Series

LBC Series

KS Series

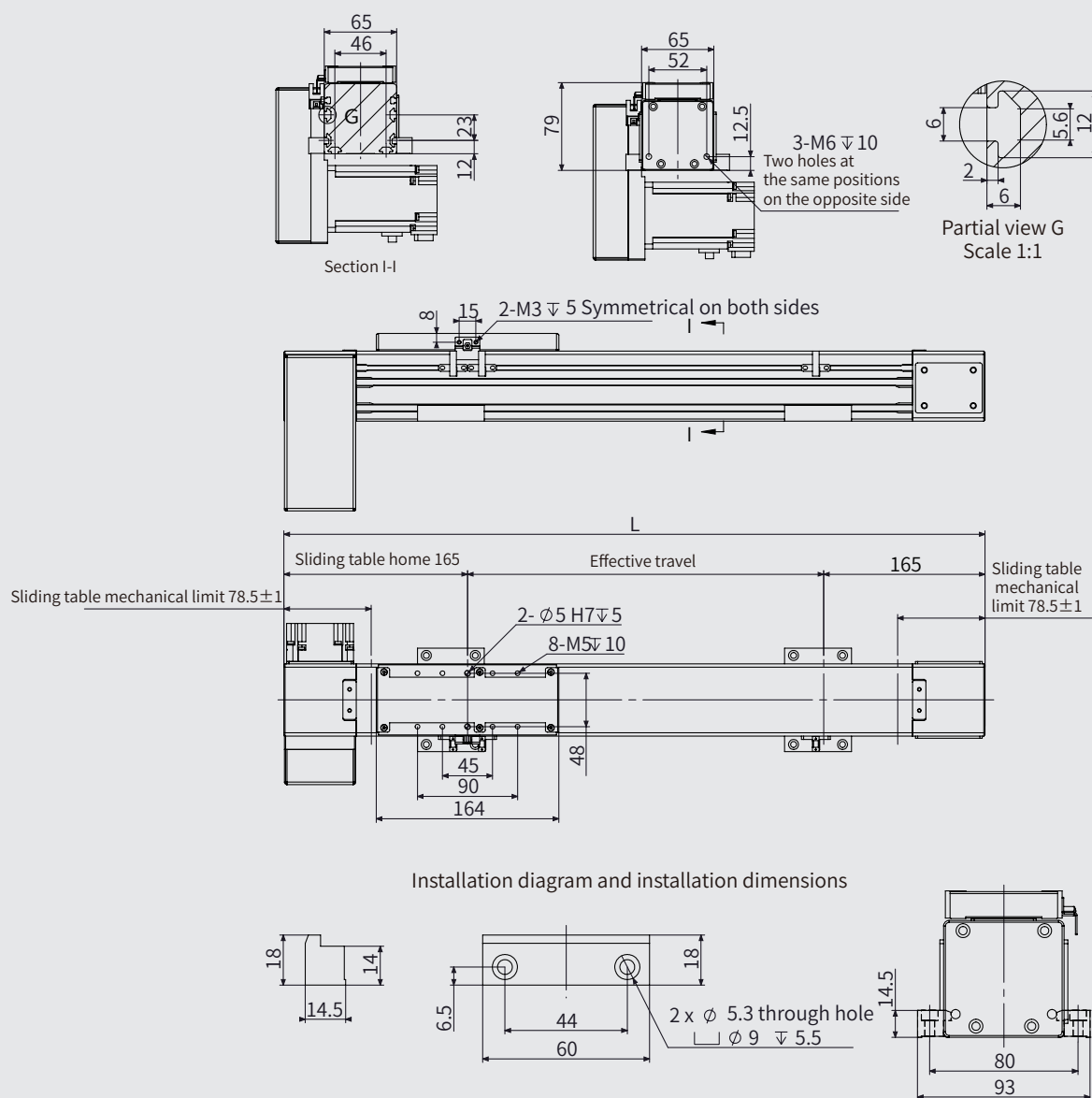
LY Series

GY Series

Travel

RD	Motor Connected Right Down														
Effective Travel	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500
L	430	530	630	730	830	930	1,030	1,130	1,230	1,330	1,430	1,530	1,630	1,730	1,830
KG	3.13	3.81	4.49	5.17	5.85	6.53	7.21	7.89	8.57	9.25	9.93	10.61	11.29	11.97	12.65

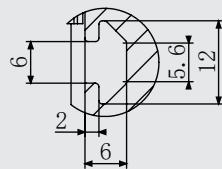
RD	Motor Connected Right Down														
Effective Travel	1,600	1,700	1,800	1,900	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000
L	1,930	2,030	2,130	2,230	2,330	2,430	2,530	2,630	2,730	2,830	2,930	3,030	3,130	3,230	3,330
KG	13.13	14.01	14.69	15.37	16.05	16.73	17.41	18.09	18.77	19.45	20.13	20.81	21.49	22.17	22.85



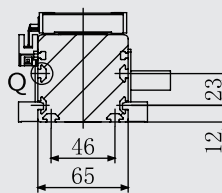
Travel

RR	Right-side Output Shaft														
Effective Travel	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500
L	430	530	630	730	830	930	1,030	1,130	1,230	1,330	1,430	1,530	1,630	1,730	1,830
KG	3.13	3.81	4.49	5.17	5.85	6.53	7.21	7.89	8.57	9.25	9.93	10.61	11.29	11.97	12.65

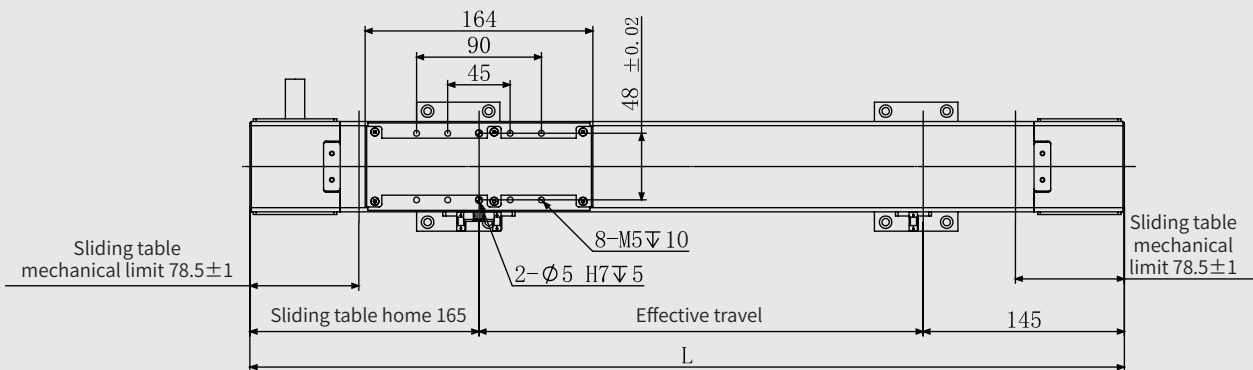
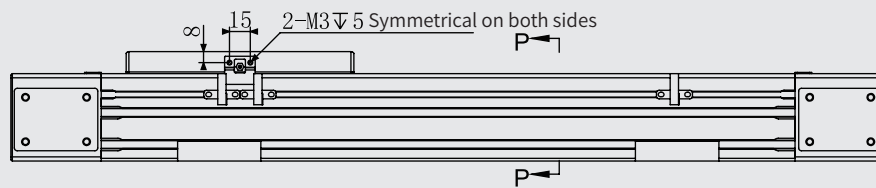
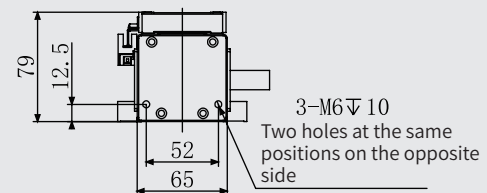
RR	Right-side Output Shaft														
Effective Travel	1,600	1,700	1,800	1,900	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000
L	1,930	2,030	2,130	2,230	2,330	2,430	2,530	2,630	2,730	2,830	2,930	3,030	3,130	3,230	3,330
KG	13.13	14.01	14.69	15.37	16.05	16.73	17.41	18.09	18.77	19.45	20.13	20.81	21.49	22.17	22.85



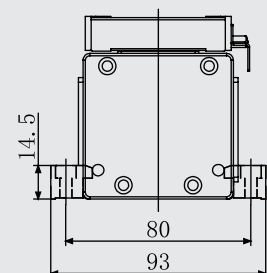
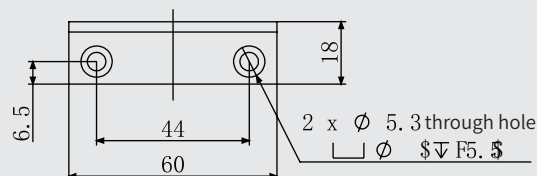
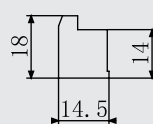
Partial view Q
Scale 1:1



Section P-P



Installation diagram and installation dimensions



LS Series

LSC Series

GS Series

LEB Series

LB Series

LBC Series

KS Series

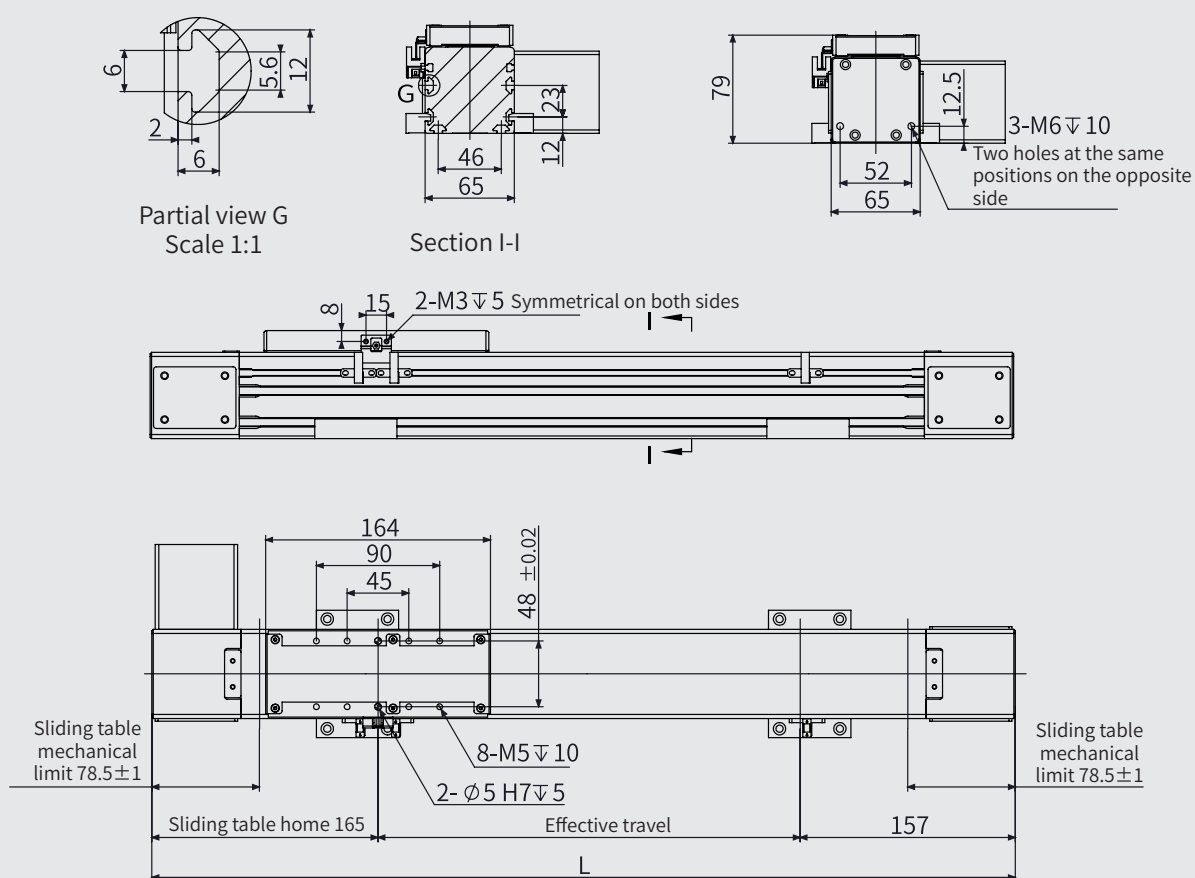
LY Series

GV Series

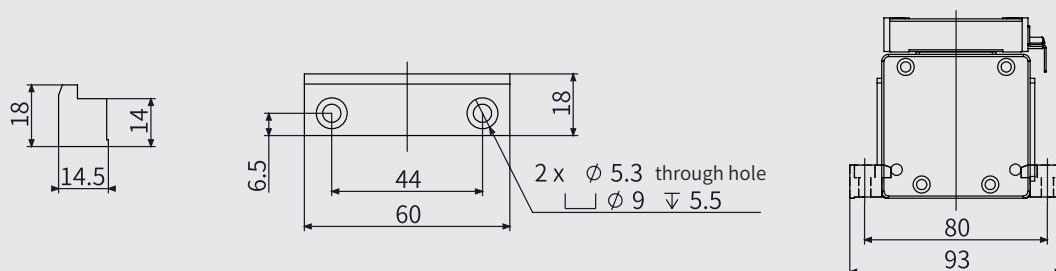
Travel

RT	Motor Direct Connected on the Right														
Effective Travel	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500
L	430	530	630	730	830	930	1,030	1,130	1,230	1,330	1,430	1,530	1,630	1,730	1,830
KG	3.13	3.81	4.49	5.17	5.85	6.53	7.21	7.89	8.57	9.25	9.93	10.61	11.29	11.97	12.65

RT	Motor Direct Connected on the Right														
Effective Travel	1,600	1,700	1,800	1,900	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000
L	1,930	2,030	2,130	2,230	2,330	2,430	2,530	2,630	2,730	2,830	2,930	3,030	3,130	3,230	3,330
KG	13.13	14.01	14.69	15.37	16.05	16.73	17.41	18.09	18.77	19.45	20.13	20.81	21.49	22.17	22.85



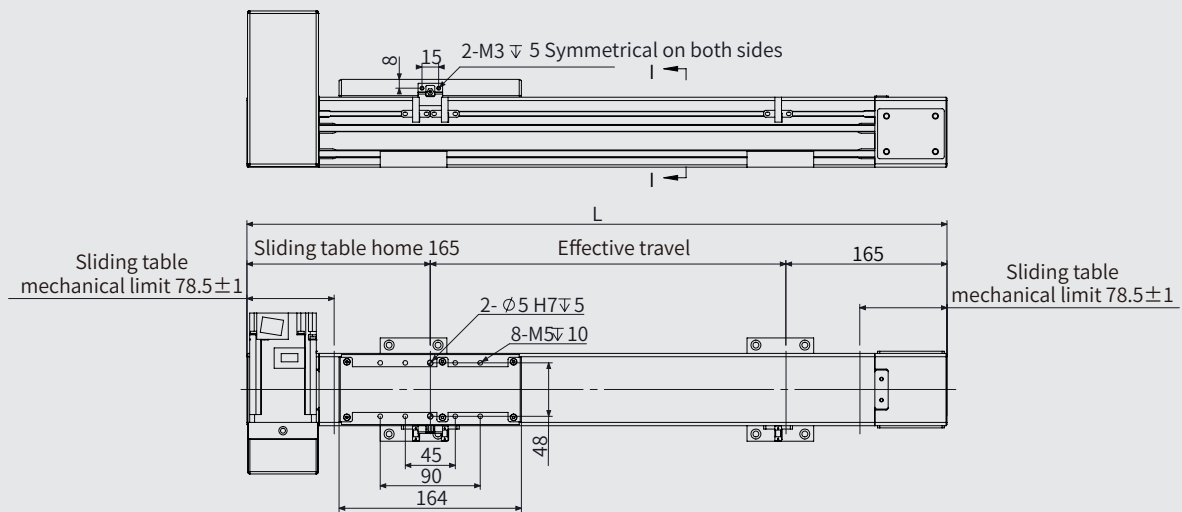
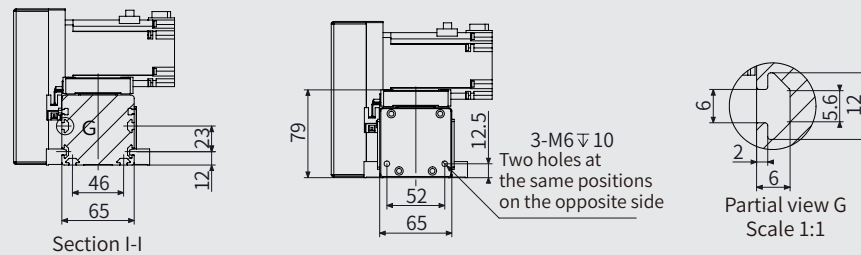
Installation diagram and installation dimensions



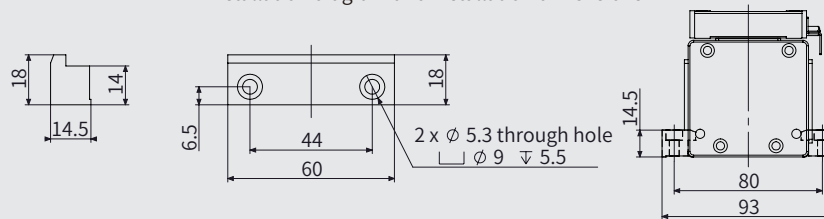
Travel

RU	Motor Connected Right Up														
Effective Travel	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500
L	430	530	630	730	830	930	1,030	1,130	1,230	1,330	1,430	1,530	1,630	1,730	1,830
KG	3.13	3.81	4.49	5.17	5.85	6.53	7.21	7.89	8.57	9.25	9.93	10.61	11.29	11.97	12.65

RU	Motor Connected Right Up														
Effective Travel	1,600	1,700	1,800	1,900	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000
L	1,930	2,030	2,130	2,230	2,330	2,430	2,530	2,630	2,730	2,830	2,930	3,030	3,130	3,230	3,330
KG	13.13	14.01	14.69	15.37	16.05	16.73	17.41	18.09	18.77	19.45	20.13	20.81	21.49	22.17	22.85



Installation diagram and installation dimensions



LS Series

LSC Series

GS Series

LEB Series

LB Series

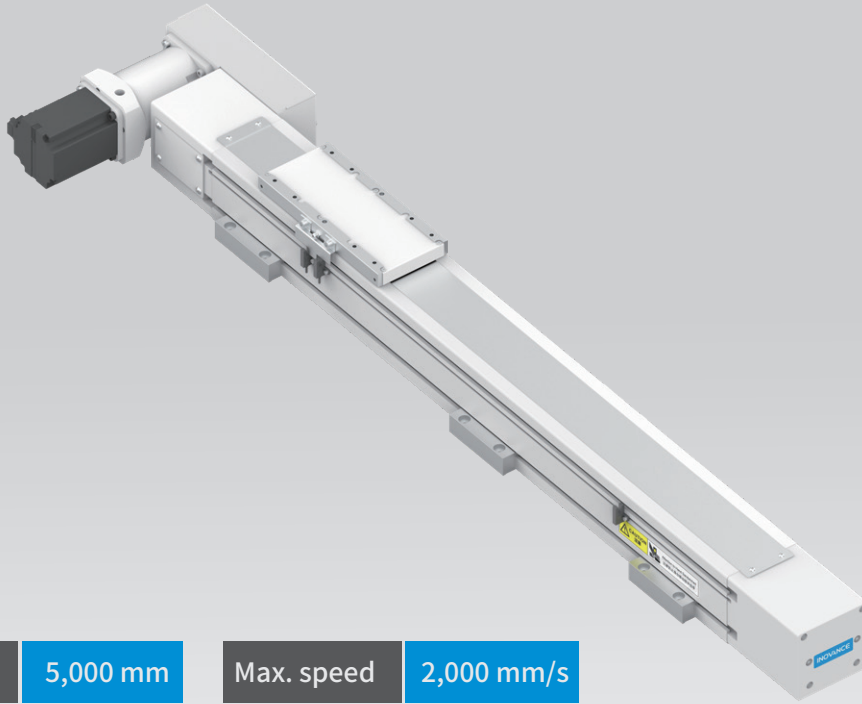
LBC Series

KS Series

LY Series

GY Series

LEB 85

European Standard Belt-Driven
Sliding Table Electric Cylinder

Max. travel 5,000 mm

Max. speed 2,000 mm/s

Motor power 750 W

Belt width 45 mm

Linear slide rail 20 x 15 - 1

Model Description

L EB 85 - 200 R 600 - N 3 - 75 B - K 3 - VP - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭

① Series number L	⑥ Travel 100 mm to 5,000 mm Interval of 100 mm	⑨ Motor power 75: 750 W	
② Cylinder type EB: European belt		⑩ Brake None: No brake B: Brake	⑪ Reducer providing None: Configured by Inovance K: Provided by customer
③ Width 85: 85 mm	⑦ Sensor type N: NPN sensor P: PNP sensor	⑫ Reduction ratio 3:3 5:5	
④ Lead 200: 200 mm		⑬ Drive type VP: Standard SV660P drive VN: Standard SV660N drive	
⑤ Motor position L: Motor connected on the left R: Motor connected on the right LU: Motor connected left up RU: Motor connected right up LD: Motor connected left down RD: Motor connected right down LT: Motor direct connected on the left RT: Motor direct connected on the right LL: Left-side output shaft RR: Right-side output shaft	⑧ Sensor quantity N: No sensor 1: 1 2: 2 3: 3	⑭ Customization	

Note: No reducer can be configured when the motor is connected in the RR, LL, RT, or LT direction.

Basic Parameters

Item		Specification		
Reducer Ratio		5:1	7:1	10:1
Max. Speed (mm/s)		2,000	1,428	1,000
Max. Load Capacity	Horizontal Axis (kg)	40	60	100
	Vertical Axis (kg)	14	21	24
Repeatability		± 0.1		
Rated Force (N)		340		
Standard Travel (mm)		100 mm to 5,000 mm, with an interval of 100 mm		
Power of AC Servo Motor (W)		750		
Belt Width (mm)		45		
High-Stiffness Linear Slide Rail (mm)		W20 x H15		
Origin Sensor	External	SGT-NH(NPN)/SGT-PH(PNP)		

Note: The motor acceleration/deceleration is set to 0.4s.

Note that if the belt breaks in the vertical axis, the load may fall.

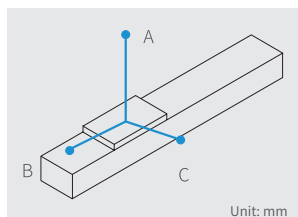
When no reducer is installed on the sliding table, the lead is 200.

Number of Slide Table Fixing Nuts

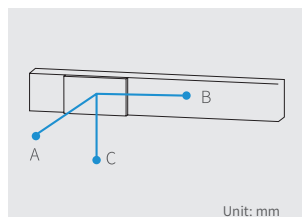
Number of M5 Rear Nuts for Each Travel			
Effective Travel	Quantity	Effective Travel	Quantity
100 to 500	4	2,600 to 3,000	14
600 to 1,000	6	3,100 to 3,500	16
1,100 to 1,500	8	3,600 to 4,000	18
1,600 to 2,000	10	4,100 to 4,500	20
2,100 to 2,500	12	4,600 to 5,000	22

Note: Using M5 rear nuts to fix the sliding table is the standard mode, which is the bottom locking type.

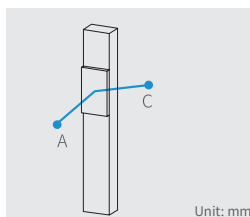
Permissible Load Torque



Horizontal Mounting		A	B	C
5:1	20 kg	900	280	40
	30 kg	550	160	22
	40 kg	400	110	15
7:1	40 kg	750	160	22
	50 kg	575	115	16
	60 kg	420	85	12
10:1	60 kg	900	140	20
	80 kg	700	105	15
	100 kg	550	75	10

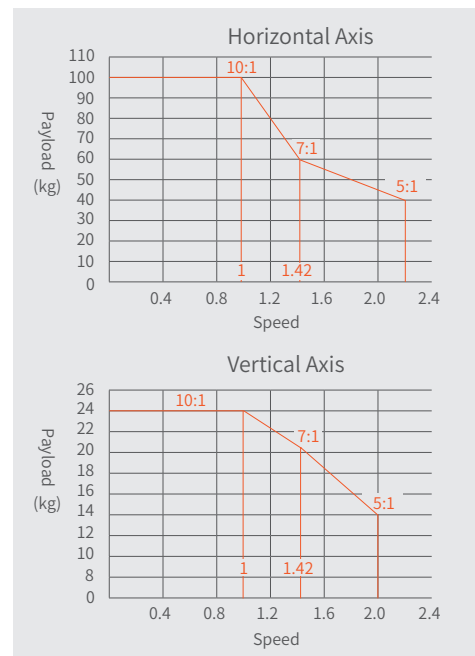


Backplate Mounting		A	B	C
5:1	20 kg	40	280	900
	30 kg	22	160	600
	40 kg	15	110	400
7:1	40 kg	22	160	750
	50 kg	15	110	575
	60 kg	12	80	450
10:1	60 kg	20	140	950
	80 kg	15	105	750
	100 kg	10	75	600

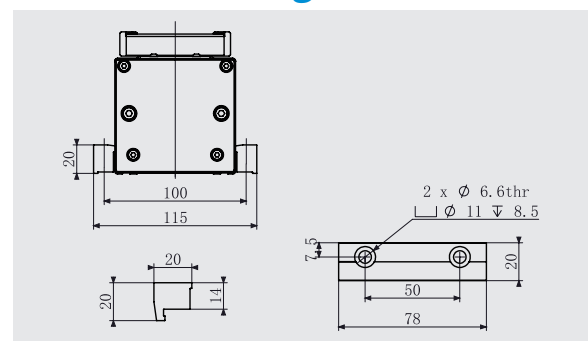


Vertical Mounting		A	C
5:1	5 kg	1,250	1,250
	10 kg	650	650
	14 kg	450	450
7:1	15 kg	600	600
	18 kg	480	480
	21 kg	400	400
10:1	18 kg	550	550
	20 kg	450	450
	24 kg	350	350

Speed - Payload Curve

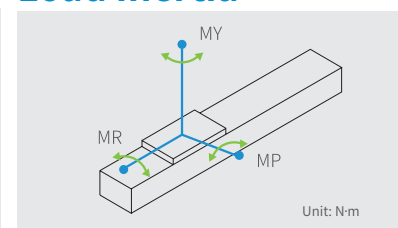


Installation Diagram



Note: The top-locking mounting board is a non-standard item. If required, purchase it separately.

Static Allowable Load Inertia



MY	868
MP	868
MR	123

■ Data in the torque table specifies the maximum allowable offset distance of the gravity.

■ Under normal use in compliance with the specifications in the product catalogs, ensure that the lifetime is 10,000 km.

■ For total length exceeding 1,000 m, the steel strip may deform. Therefore, prevent the wall-mounting mode.

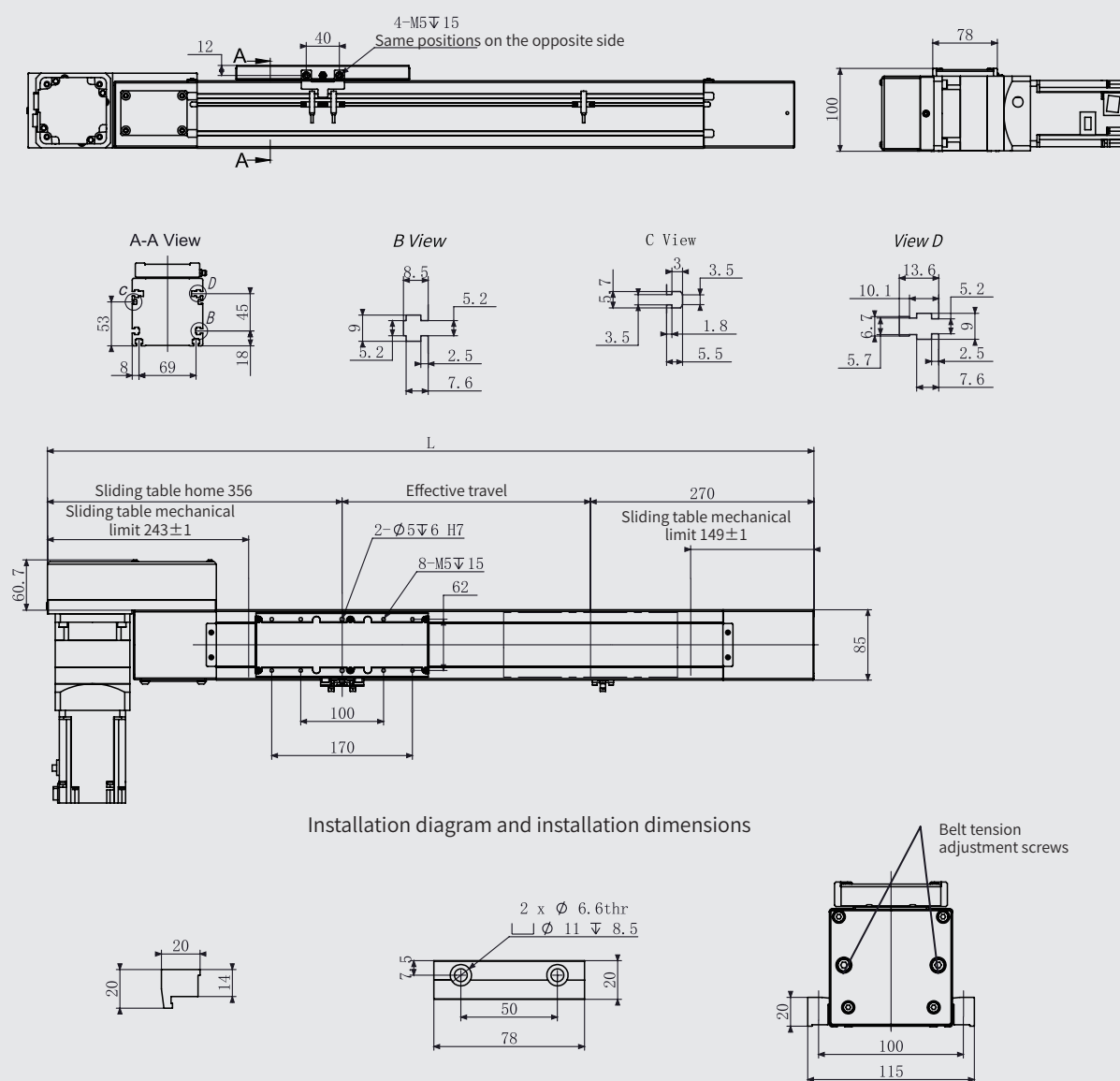
■ Inverted mounting fails to comply with the standard specifications. If required, contact our business personnel.

Travel

L	Motor Connected on the Left																
Effective Travel	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	1,600	1,700
L	726	826	926	1,026	1,126	1,226	1,326	1,426	1,526	1,626	1,726	1,826	1,926	2,026	2,126	2,226	2,326
KG	12.07	12.93	13.8	14.68	15.54	16.41	17.28	18.14	19.02	19.89	20.75	21.62	22.49	23.36	24.23	25.1	25.96

L	Motor Connected on the Left																
Effective Travel	1,800	1,900	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000	3,100	3,200	3,300	3,400
L	2,426	2,526	2,626	2,726	2,826	2,926	3,026	3,126	3,226	3,326	3,426	3,526	3,626	3,726	3,826	3,926	4,026
KG	26.83	27.71	28.57	29.44	30.31	31.17	32.05	32.92	33.78	34.65	35.52	36.39	37.26	38.13	38.99	39.86	40.74

L	Motor Connected on the Left															
Effective Travel	3,500	3,600	3,700	3,800	3,900	4,000	4,100	4,200	4,300	4,400	4,500	4,600	4,700	4,800	4,900	5,000
L	4,126	4,226	4,326	4,426	4,526	4,626	4,726	4,826	4,926	5,026	5,126	5,226	5,326	5,426	5,526	5,626
KG	41.6	42.47	43.34	44.2	45.08	45.95	46.81	47.68	48.55	49.42	50.29	51.16	52.02	52.89	53.77	54.63

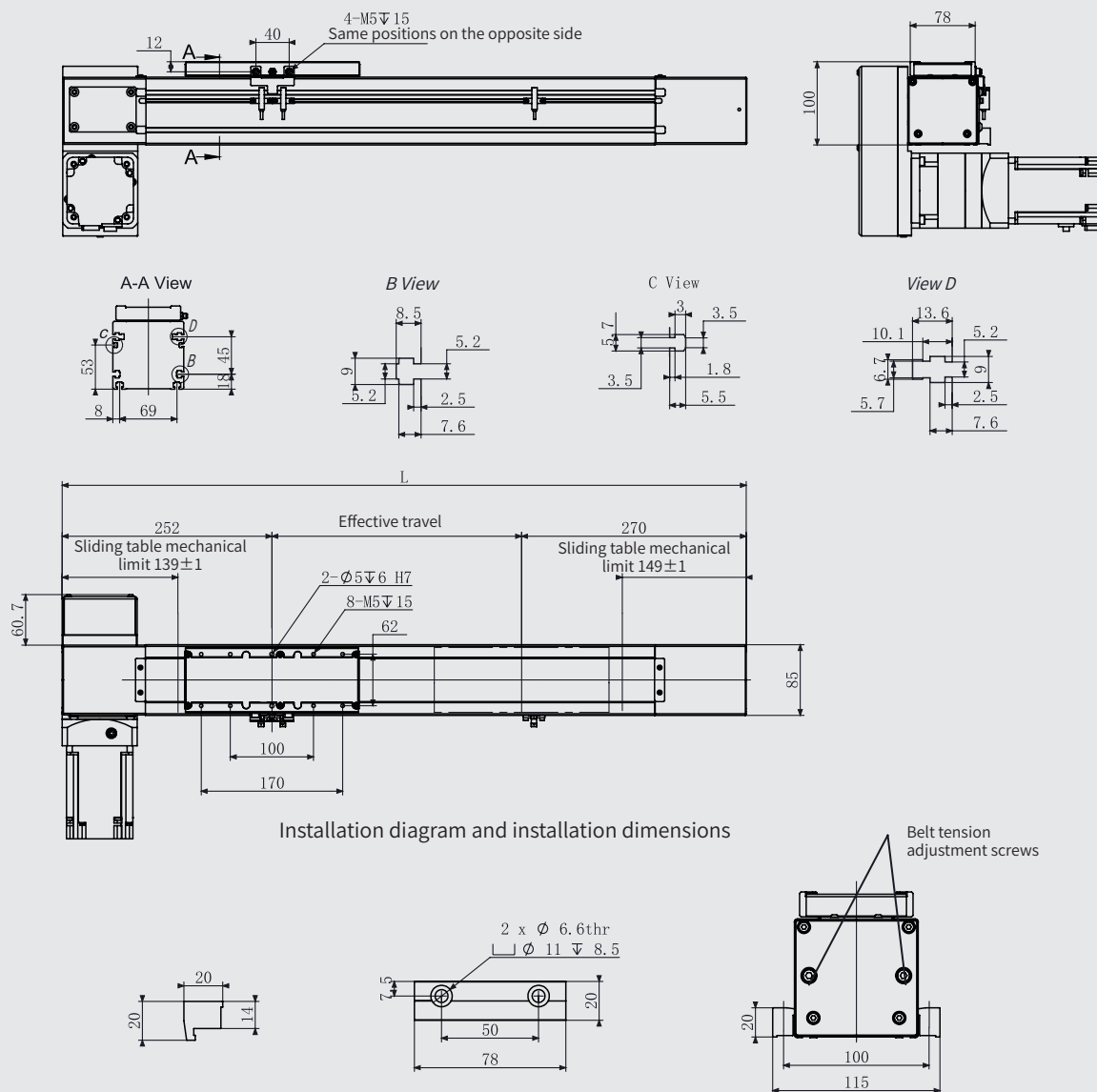


Travel

LD	Motor Connected Left Down																
Effective Travel	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	1,600	1,700
L	622	722	822	922	1,022	1,122	1,222	1,322	1,422	1,522	1,622	1,722	1,822	1,922	2,022	2,122	2,222
KG	12.07	12.93	13.8	14.68	15.54	16.41	17.28	18.14	19.02	19.89	20.75	21.62	22.49	23.36	24.23	25.1	25.96

LD	Motor Connected Left Down																
Effective Travel	1,800	1,900	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000	3,100	3,200	3,300	3,400
L	2,322	2,422	2,522	2,622	2,722	2,822	2,922	3,022	3,122	3,222	3,322	3,422	3,522	3,622	3,722	3,822	3,922
KG	26.83	27.71	28.57	29.44	30.31	31.17	32.05	32.92	33.78	34.65	35.52	36.39	37.26	38.13	38.99	39.86	40.74

LD	Motor Connected Left Down															
Effective Travel	3,500	3,600	3,700	3,800	3,900	4,000	4,100	4,200	4,300	4,400	4,500	4,600	4,700	4,800	4,900	5,000
L	4,022	4,122	4,222	4,322	4,422	4,522	4,622	4,722	4,822	4,922	5,022	5,122	5,222	5,322	5,422	5,522
KG	41.6	42.47	43.34	44.2	45.08	45.95	46.81	47.68	48.55	49.42	50.29	51.16	52.02	52.89	53.77	54.63



LS Series

LSC Series

GS Series

LEB Series

LB Series

LBC Series

KS Series

LY Series

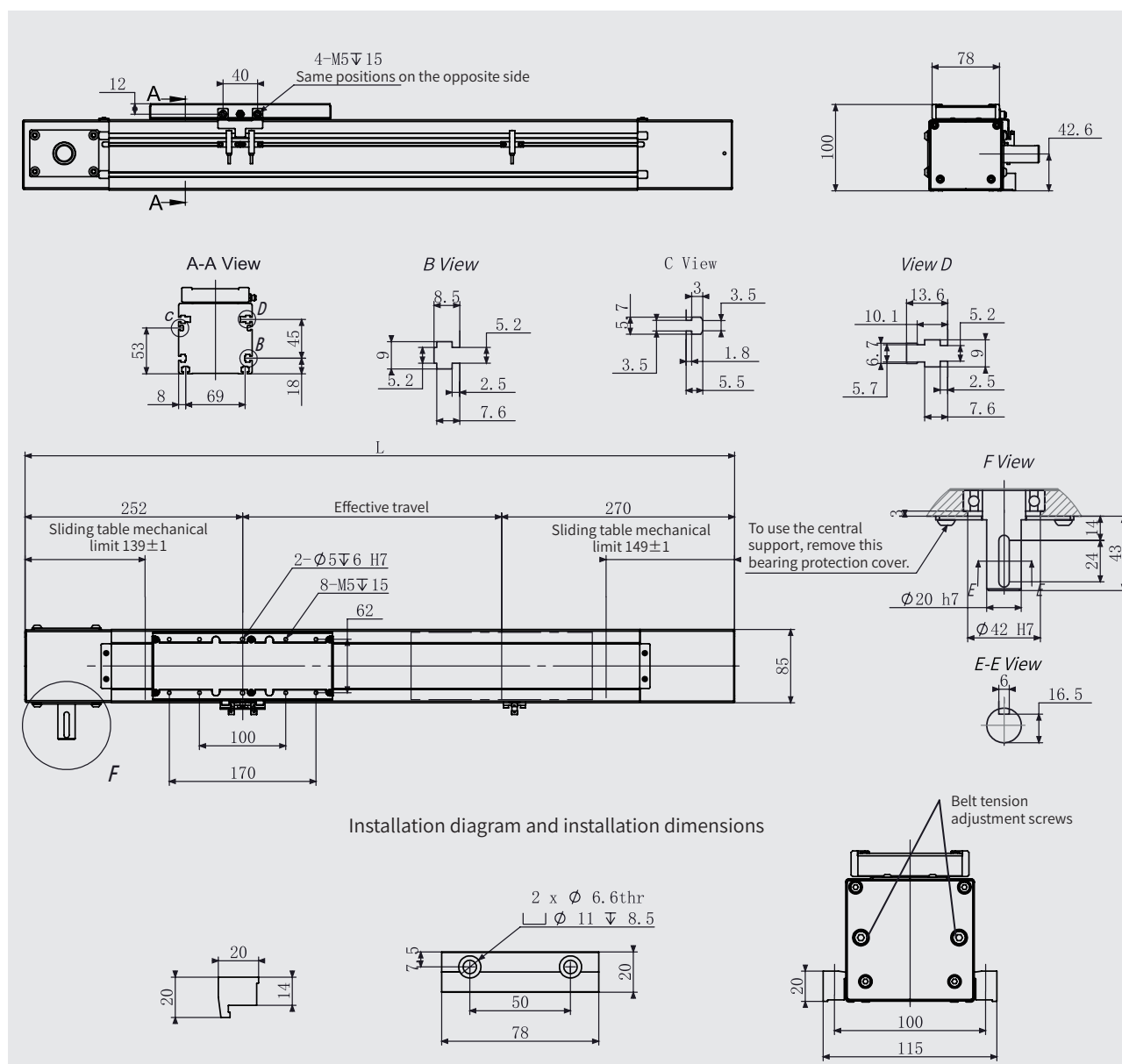
GY Series

Travel

LL	Left-side Output Shaft																
Effective Travel	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	1,600	1,700
L	622	722	822	922	1,022	1,122	1,222	1,322	1,422	1,522	1,622	1,722	1,822	1,922	2,022	2,122	2,222
KG	10.47	11.332	12.204	13.076	13.938	14.81	15.682	16.544	17.416	18.288	19.15	20.022	20.894	21.756	22.628	23.5	24.362

LL	Left-side Output Shaft																
Effective Travel	1,800	1,900	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000	3,100	3,200	3,300	3,400
L	2,322	2,422	2,522	2,622	2,722	2,822	2,922	3,022	3,122	3,222	3,322	3,422	3,522	3,622	3,722	3,822	3,922
KG	25.234	26.106	26.968	27.84	28.712	29.574	30.446	31.318	32.18	33.052	33.924	34.786	35.658	36.53	37.392	38.264	39.136

LL	Left-side Output Shaft															
Effective Travel	3,500	3,600	3,700	3,800	3,900	4,000	4,100	4,200	4,300	4,400	4,500	4,600	4,700	4,800	4,900	5,000
L	4,022	4,122	4,222	4,322	4,422	4,522	4,622	4,722	4,822	4,922	5,022	5,122	5,222	5,322	5,422	5,522
KG	39.998	40.87	41.742	42.604	43.476	44.348	45.21	46.082	46.954	47.816	48.688	49.56	50.422	51.294	52.166	53.028



Travel

LS Series

LSC Series

GS Series

LEB Series

LB Series

LBC Series

KS Series

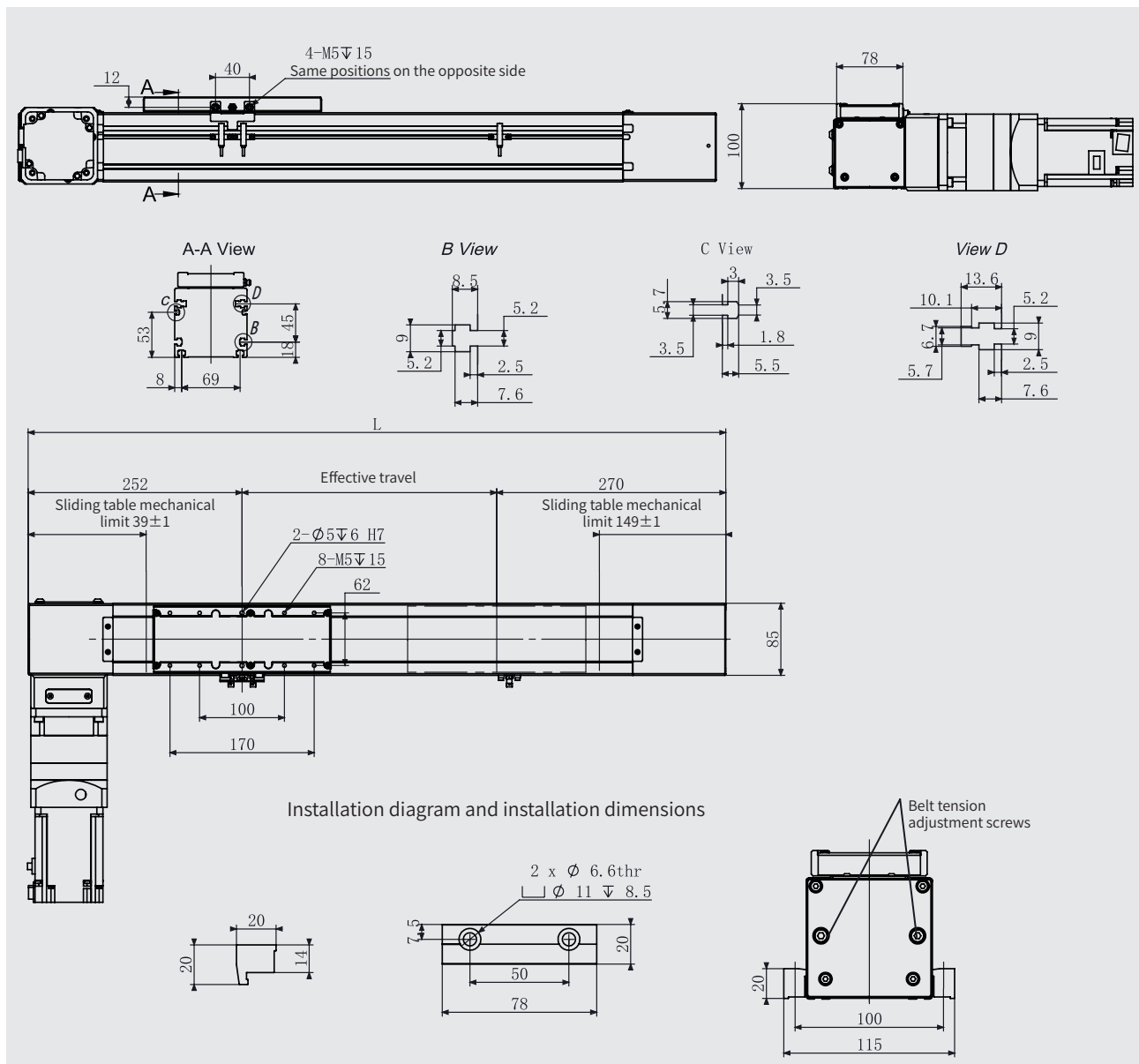
LY Series

GY Series

LT	Motor Direct Connected on the Left																
Effective Travel	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	1,600	1,700
L	622	722	822	922	1,022	1,122	1,222	1,322	1,422	1,522	1,622	1,722	1,822	1,922	2,022	2,122	2,222
KG	11.37	12.23	13.1	13.98	14.84	15.71	16.58	17.44	18.32	19.19	20.05	20.92	21.79	22.66	23.53	24.4	25.26

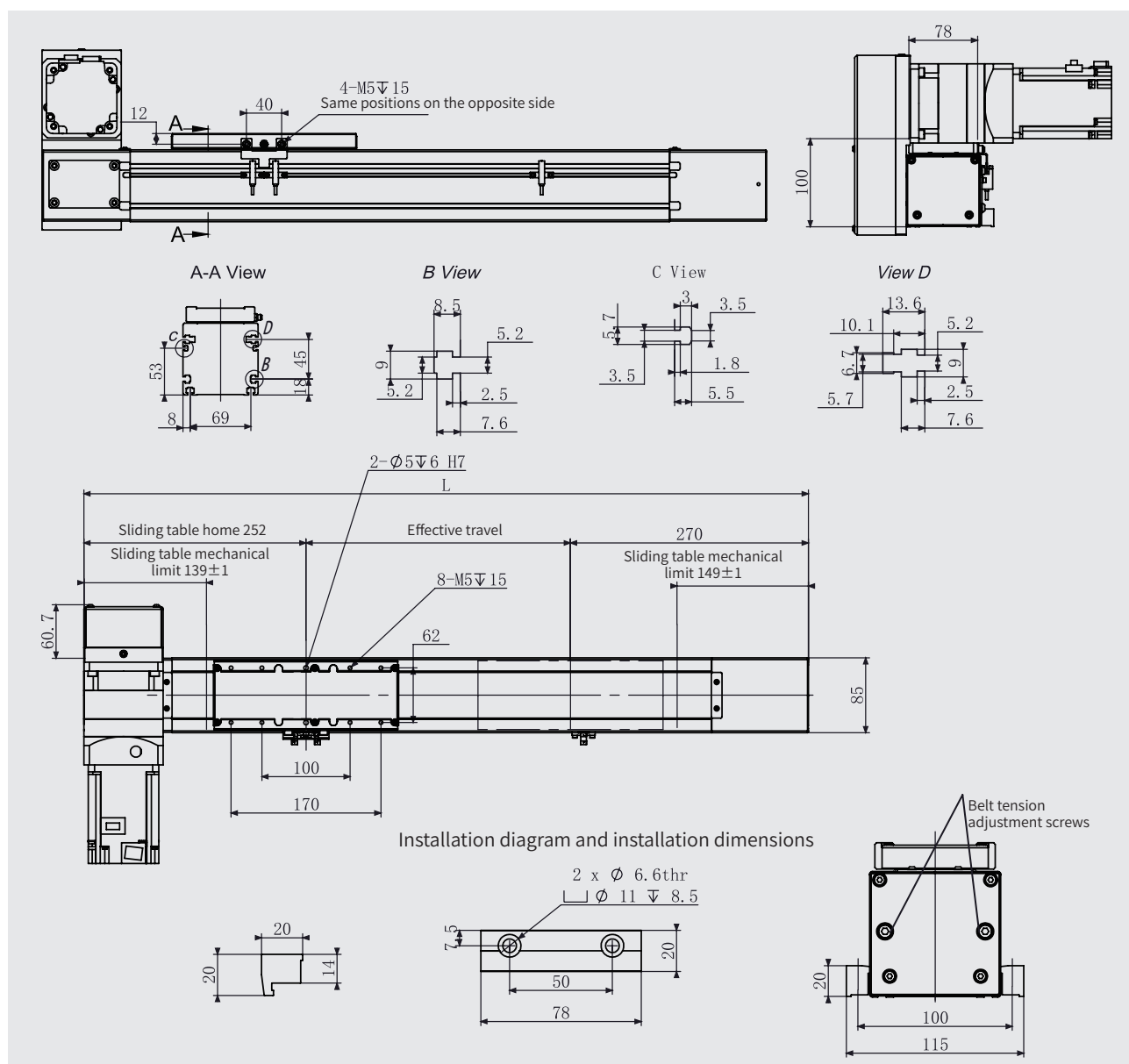
LT	Motor Direct Connected on the Left																
Effective Travel	1,800	1,900	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000	3,100	3,200	3,300	3,400
L	2,322	2,422	2,522	2,622	2,722	2,822	2,922	3,022	3,122	3,222	3,322	3,422	3,522	3,622	3,722	3,822	3,922
KG	26.13	27.01	27.87	28.74	29.61	30.47	31.35	32.22	33.08	33.95	34.82	35.69	36.56	37.43	38.29	39.16	40.04

LT	Motor Direct Connected on the Left															
Effective Travel	3,500	3,600	3,700	3,800	3,900	4,000	4,100	4,200	4,300	4,400	4,500	4,600	4,700	4,800	4,900	5,000
L	4,022	4,122	4,222	4,322	4,422	4,522	4,622	4,722	4,822	4,922	5,022	5,122	5,222	5,322	5,422	5,522
KG	40.9	41.77	42.64	43.5	44.38	45.25	46.11	46.98	47.85	48.72	49.59	50.46	51.32	52.19	53.07	53.93



LU	Motor Connected Left Up																
Effective Travel	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	1,600	1,700
L	622	722	822	922	1,022	1,122	1,222	1,322	1,422	1,522	1,622	1,722	1,822	1,922	2,022	2,122	2,222
KG	12.07	12.93	13.8	14.68	15.54	16.41	17.28	18.14	19.02	19.89	20.75	21.62	22.49	23.36	24.23	25.1	25.96

LU	Motor Connected Left Up															
Effective Travel	3,500	3,600	3,700	3,800	3,900	4,000	4,100	4,200	4,300	4,400	4,500	4,600	4,700	4,800	4,900	5,000
L	4,022	4,122	4,222	4,322	4,422	4,522	4,622	4,722	4,822	4,922	5,022	5,122	5,222	5,322	5,422	5,522
KG	41.6	42.47	43.34	44.2	45.08	45.95	46.81	47.68	48.55	49.42	50.29	51.16	52.02	52.89	53.77	54.63

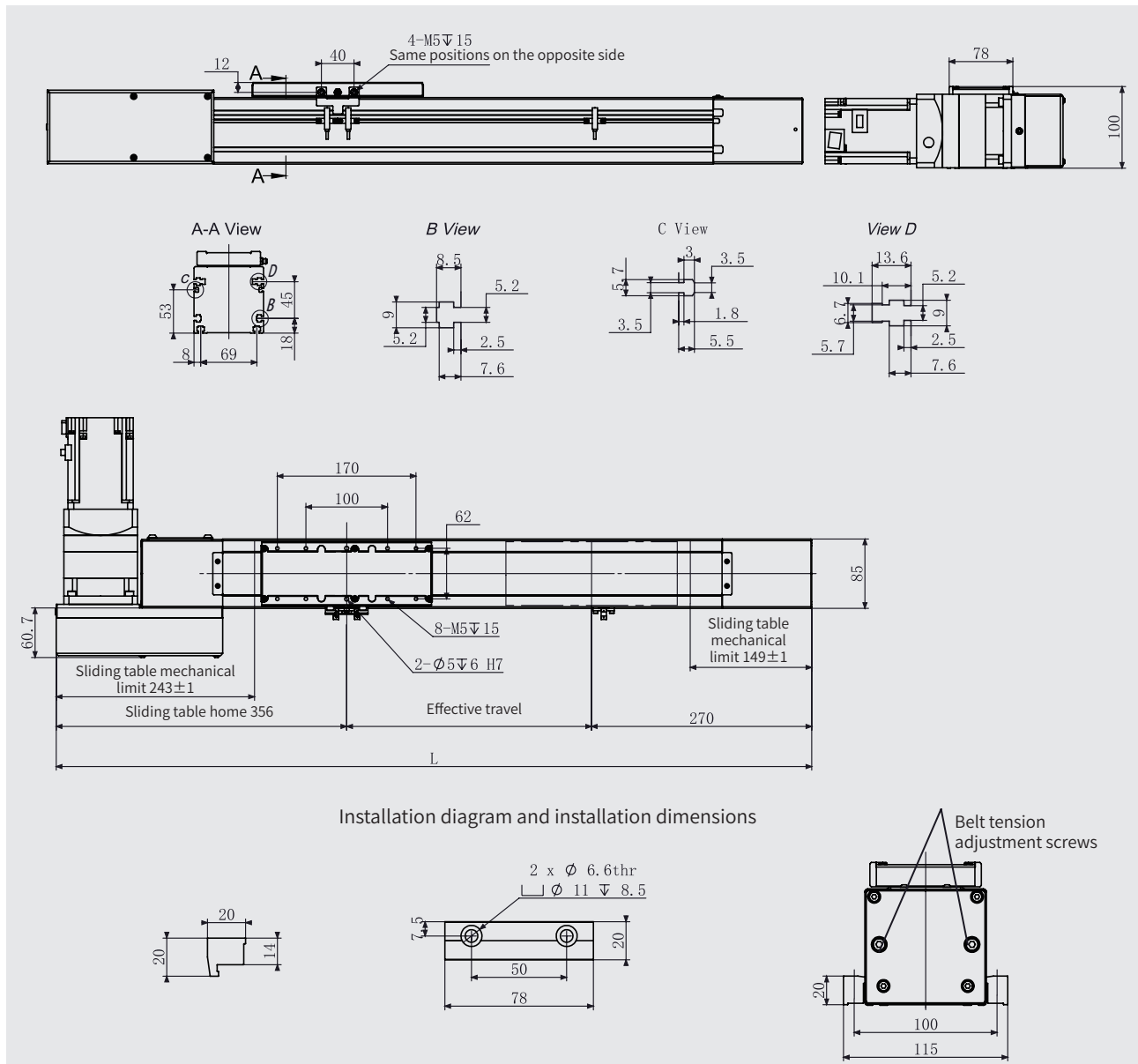


Travel

R	Motor Connected on the Right																
Effective Travel	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	1,600	1,700
L	726	826	926	1,026	1,126	1,226	1,326	1,426	1,526	1,626	1,726	1,826	1,926	2,026	2,126	2,226	2,326
KG	12.07	12.93	13.8	14.68	15.54	16.41	17.28	18.14	19.02	19.89	20.75	21.62	22.49	23.36	24.23	25.1	25.96

R	Motor Connected on the Right																
Effective Travel	1,800	1,900	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000	3,100	3,200	3,300	3,400
L	2,426	2,526	2,626	2,726	2,826	2,926	3,026	3,126	3,226	3,326	3,426	3,526	3,626	3,726	3,826	3,926	4,026
KG	26.83	27.71	28.57	29.44	30.31	31.17	32.05	32.92	33.78	34.65	35.52	36.39	37.26	38.13	38.99	39.86	40.74

R	Motor Connected on the Right															
Effective Travel	3,500	3,600	3,700	3,800	3,900	4,000	4,100	4,200	4,300	4,400	4,500	4,600	4,700	4,800	4,900	5,000
L	4,126	4,226	4,326	4,426	4,526	4,626	4,726	4,826	4,926	5,026	5,126	5,226	5,326	5,426	5,526	5,626
KG	41.6	42.47	43.34	44.2	45.08	45.95	46.81	47.68	48.55	49.42	50.29	51.16	52.02	52.89	53.77	54.63

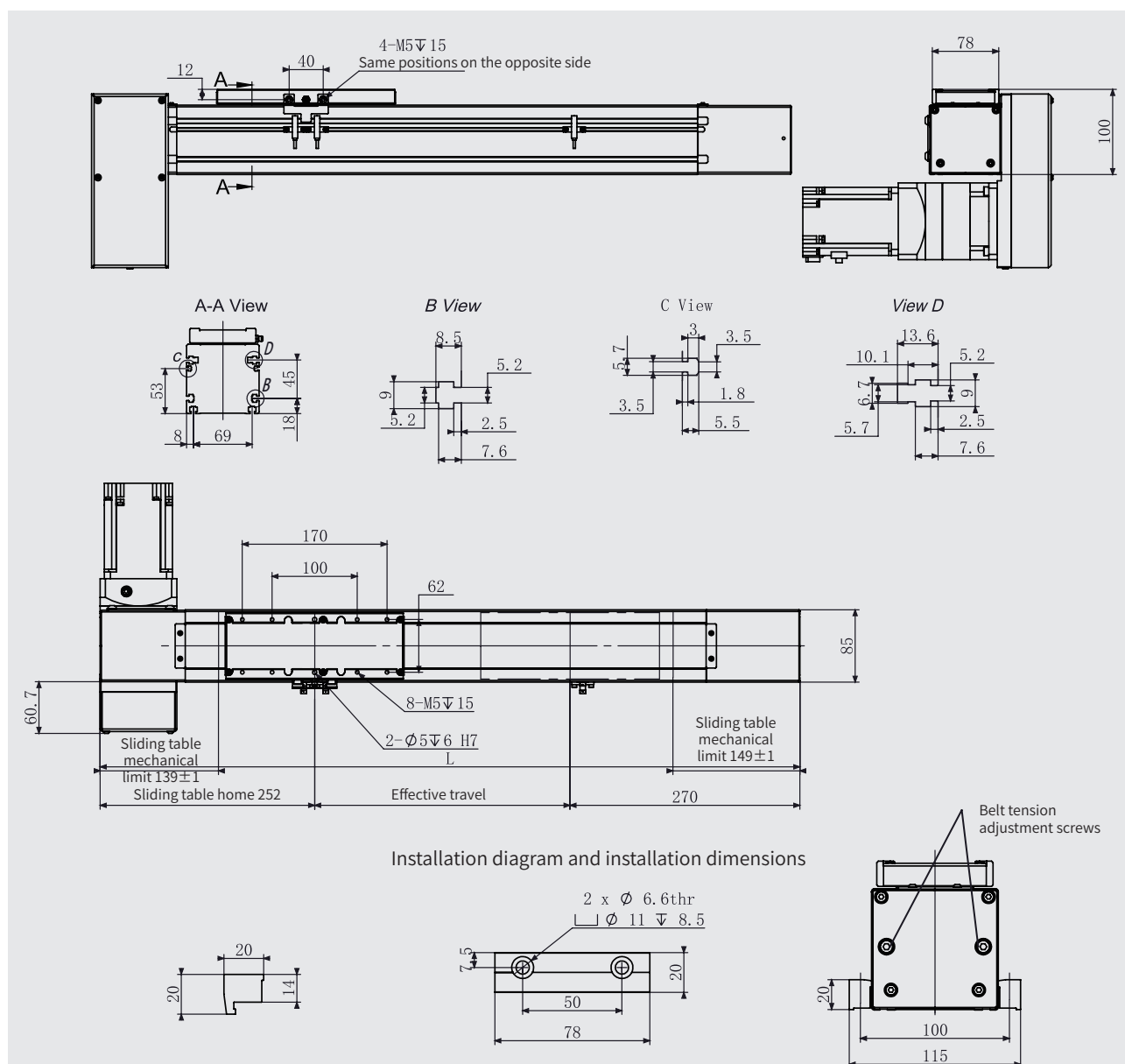


Travel

RD	Motor Connected Right Down																
Effective Travel	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	1,600	1,700
L	622	722	822	922	1,022	1,122	1,222	1,322	1,422	1,522	1,622	1,722	1,822	1,922	2,022	2,122	2,222
KG	12.07	12.93	13.8	14.68	15.54	16.41	17.28	18.14	19.02	19.89	20.75	21.62	22.49	23.36	24.23	25.1	25.96

RD	Motor Connected Right Down																
Effective Travel	1,800	1,900	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000	3,100	3,200	3,300	3,400
L	2,322	2,422	2,522	2,622	2,722	2,822	2,922	3,022	3,122	3,222	3,322	3,422	3,522	3,622	3,722	3,822	3,922
KG	26.83	27.71	28.57	29.44	30.31	31.17	32.05	32.92	33.78	34.65	35.52	36.39	37.26	38.13	38.99	39.86	40.74

RD	Motor Connected Right Down															
Effective Travel	3,500	3,600	3,700	3,800	3,900	4,000	4,100	4,200	4,300	4,400	4,500	4,600	4,700	4,800	4,900	5,000
L	4,022	4,122	4,222	4,322	4,422	4,522	4,622	4,722	4,822	4,922	5,022	5,122	5,222	5,322	5,422	5,522
KG	41.6	42.47	43.34	44.2	45.08	45.95	46.81	47.68	48.55	49.42	50.29	51.16	52.02	52.89	53.77	54.63

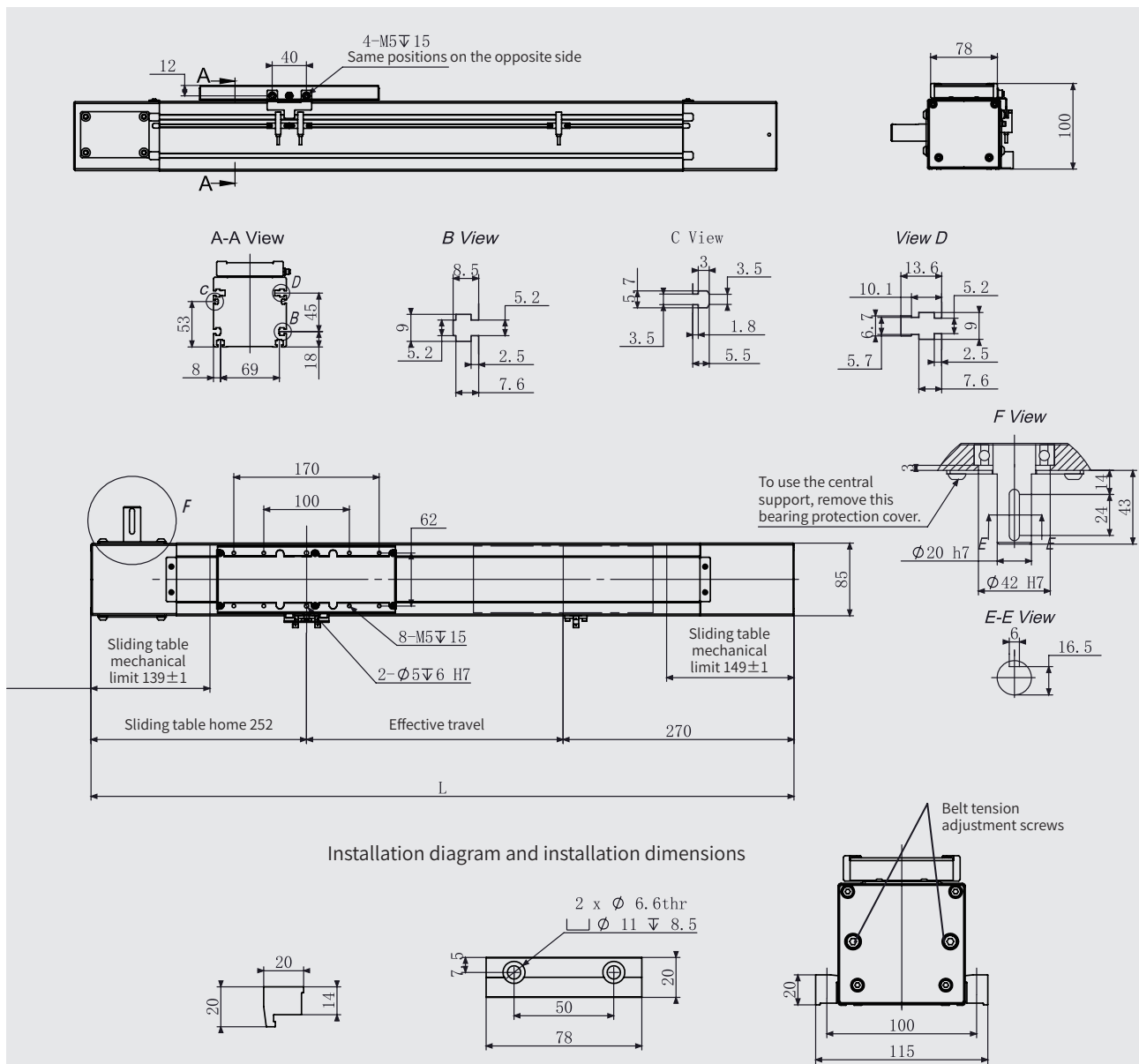


Travel

RR	Right-side Output Shaft																
Effective Travel	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	1,600	1,700
L	622	722	822	922	1,022	1,122	1,222	1,322	1,422	1,522	1,622	1,722	1,822	1,922	2,022	2,122	2,222
KG	10.47	11.332	12.204	13.076	13.938	14.81	15.682	16.544	17.416	18.288	19.15	20.022	20.894	21.756	22.628	23.5	24.362

RR	Right-side Output Shaft																
Effective Travel	1,800	1,900	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000	3,100	3,200	3,300	3,400
L	2,322	2,422	2,522	2,622	2,722	2,822	2,922	3,022	3,122	3,222	3,322	3,422	3,522	3,622	3,722	3,822	3,922
KG	25.234	26.106	26.968	27.84	28.712	29.574	30.446	31.318	32.18	33.052	33.924	34.786	35.658	36.53	37.392	38.264	39.136

RR	Right-side Output Shaft															
Effective Travel	3,500	3,600	3,700	3,800	3,900	4,000	4,100	4,200	4,300	4,400	4,500	4,600	4,700	4,800	4,900	5,000
L	4,022	4,122	4,222	4,322	4,422	4,522	4,622	4,722	4,822	4,922	5,022	5,122	5,222	5,322	5,422	5,522
KG	39.998	40.87	41.742	42.604	43.476	44.348	45.21	46.082	46.954	47.816	48.688	49.56	50.422	51.294	52.166	53.028

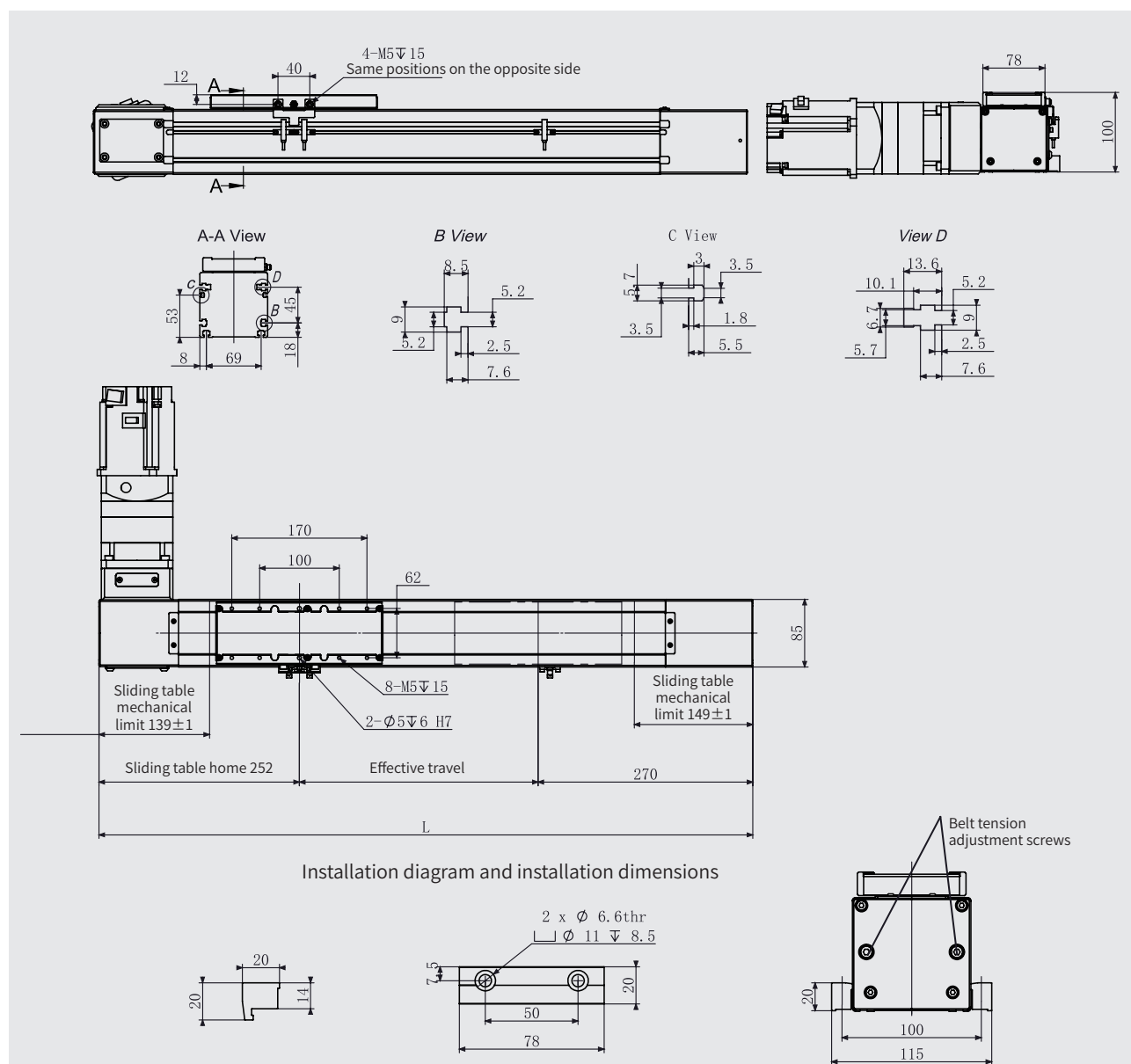


Travel

RT	Motor Direct Connected on the Right																
Effective Travel	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	1,600	1,700
L	622	722	822	922	1,022	1,122	1,222	1,322	1,422	1,522	1,622	1,722	1,822	1,922	2,022	2,122	2,222
KG	11.37	12.23	13.1	13.98	14.84	15.71	16.58	17.44	18.32	19.19	20.05	20.92	21.79	22.66	23.53	24.4	25.26

RT	Motor Direct Connected on the Right																
Effective Travel	1,800	1,900	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000	3,100	3,200	3,300	3,400
L	2,322	2,422	2,522	2,622	2,722	2,822	2,922	3,022	3,122	3,222	3,322	3,422	3,522	3,622	3,722	3,822	3,922
KG	26.13	27.01	27.87	28.74	29.61	30.47	31.35	32.22	33.08	33.95	34.82	35.69	36.56	37.43	38.29	39.16	40.04

RT	Motor Direct Connected on the Right															
Effective Travel	3,500	3,600	3,700	3,800	3,900	4,000	4,100	4,200	4,300	4,400	4,500	4,600	4,700	4,800	4,900	5,000
L	4,022	4,122	4,222	4,322	4,422	4,522	4,622	4,722	4,822	4,922	5,022	5,122	5,222	5,322	5,422	5,522
KG	40.9	41.77	42.64	43.5	44.38	45.25	46.11	46.98	47.85	48.72	49.59	50.46	51.32	52.19	53.07	53.93

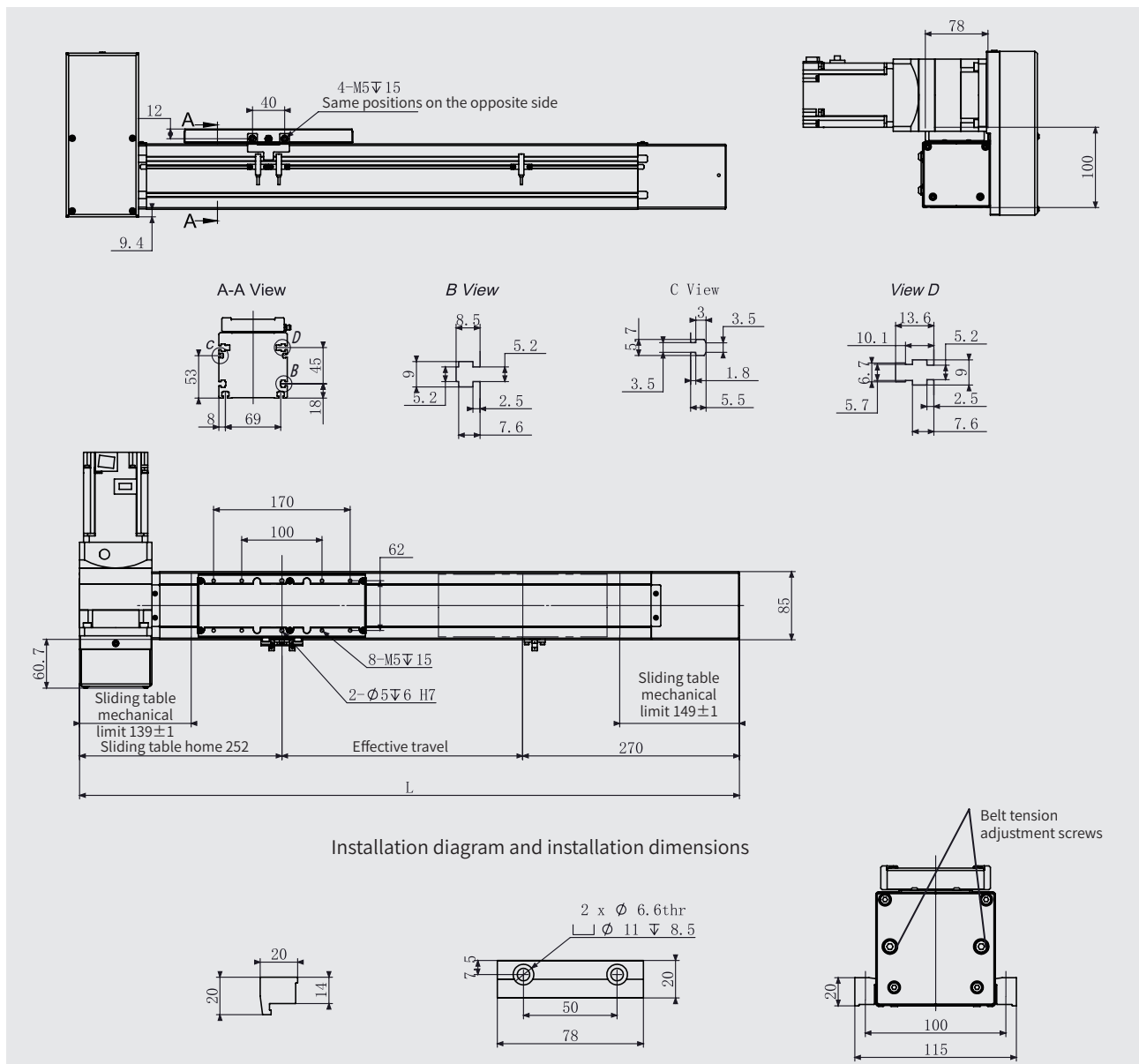


Travel

RU	Motor Connected Right Up																
Effective Travel	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	1,600	1,700
L	622	722	822	922	1,022	1,122	1,222	1,322	1,422	1,522	1,622	1,722	1,822	1,922	2,022	2,122	2,222
KG	12.07	12.93	13.8	14.68	15.54	16.41	17.28	18.14	19.02	19.89	20.75	21.62	22.49	23.36	24.23	25.1	25.96

RU	Motor Connected Right Up																
Effective Travel	1,800	1,900	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000	3,100	3,200	3,300	3,400
L	2,322	2,422	2,522	2,622	2,722	2,822	2,922	3,022	3,122	3,222	3,322	3,422	3,522	3,622	3,722	3,822	3,922
KG	26.83	27.71	28.57	29.44	30.31	31.17	32.05	32.92	33.78	34.65	35.52	36.39	37.26	38.13	38.99	39.86	40.74

RU	Motor Connected Right Up															
Effective Travel	3,500	3,600	3,700	3,800	3,900	4,000	4,100	4,200	4,300	4,400	4,500	4,600	4,700	4,800	4,900	5,000
L	4,022	4,122	4,222	4,322	4,422	4,522	4,622	4,722	4,822	4,922	5,022	5,122	5,222	5,322	5,422	5,522
KG	41.6	42.47	43.34	44.2	45.08	45.95	46.81	47.68	48.55	49.42	50.29	51.16	52.02	52.89	53.77	54.63



LS Series

LSC Series

GS Series

LEB Series

LB Series

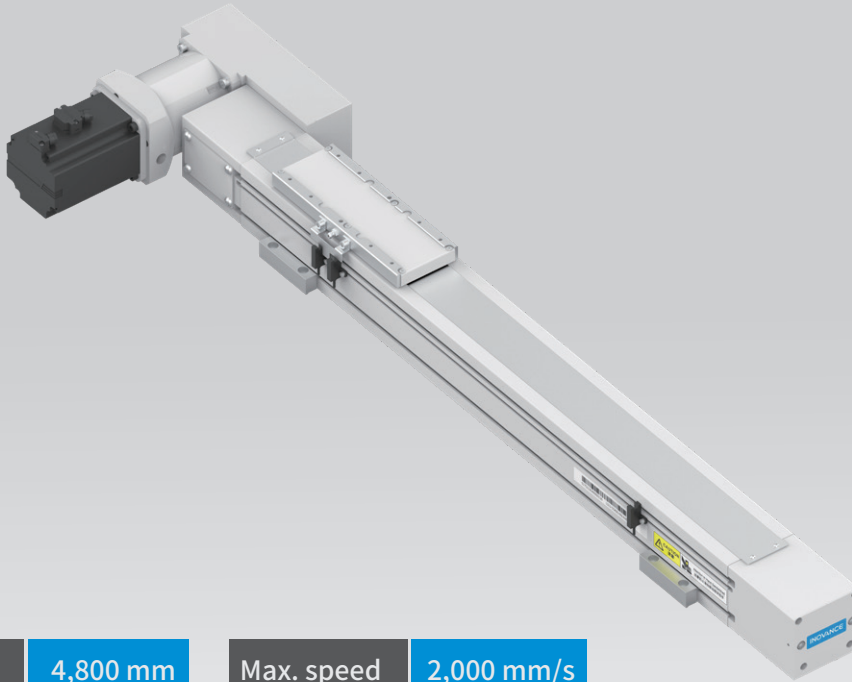
LBC Series

KS Series

LY Series

GY Series

LEB 110

European Standard Belt-Driven
Sliding Table Electric Cylinder

Max. travel 4,800 mm

Max. speed 2,000 mm/s

Motor power 750 W

Belt width 50 mm

Linear slide rail 23 x 18 - 1

Model Description

L **EB** **110** - **250** **R** **600** - **N** **3** - **75** **B** - **K** **3** - **VP** - **XX**

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① Series number L	⑥ Travel 100 mm to 4,800 mm Interval of 100 mm	⑨ Motor power 75: 750 W
② Cylinder type EB: European belt	⑦ Sensor type N: NPN sensor P: PNP sensor	⑩ Brake None: No brake B: Brake
③ Width 110: 110 mm	⑧ Sensor quantity N: No sensor 1: 1 2: 2 3: 3	⑪ Reducer providing None: Configured by Inovance K: Provided by customer
④ Lead 250: 250 mm		⑫ Reduction ratio 3:3 5:5
⑤ Motor position L: Motor connected on the left R: Motor connected on the right LU: Motor connected left up RU: Motor connected right up LD: Motor connected left down RD: Motor connected right down LT: Motor direct connected on the left RT: Motor direct connected on the right LL: Left-side output shaft RR: Right-side output shaft		⑬ Drive type VP: Standard SV660P drive VN: Standard SV660N drive
		⑭ Customization

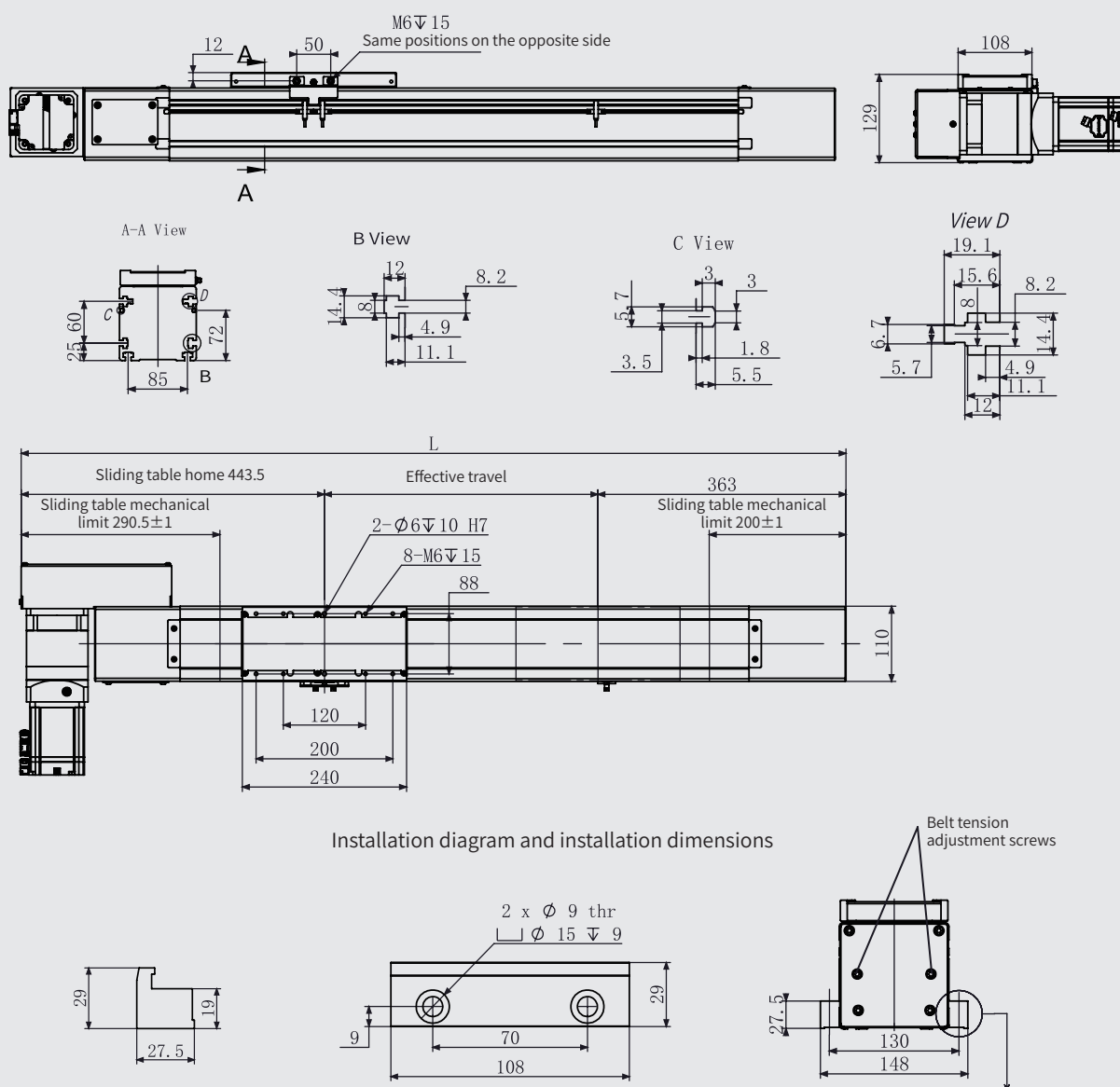
Note: No reducer can be configured when the motor is connected in the RR, LL, RT, or LT direction.

Travel

L	Motor Connected on the Left															
Effective Travel	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	1,600
L	906.5	1,006.5	1,106.5	1,206.5	1,306.5	1,406.5	1,506.5	1,606.5	1,706.5	1,806.5	1,906.5	2,006.5	2,106.5	2,206.5	2,306.5	2,406.5
KG	21.66	23.08	24.50	25.91	27.33	28.75	30.17	31.59	33.00	34.42	35.84	37.26	38.68	40.09	41.51	42.93

L	Motor Connected on the Left															
Effective Travel	1,700	1,800	1,900	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000	3,100	3,200
L	2,506.5	2,606.5	2,706.5	2,806.5	2,906.5	3,006.5	3,106.5	3,206.5	3,306.5	3,406.5	3,506.5	3,606.5	3,706.5	3,806.5	3,906.5	4,006.5
KG	44.35	45.77	47.18	48.60	50.02	51.44	52.86	54.27	55.69	57.11	58.53	59.95	61.36	62.78	64.2	65.62

L	Motor Connected on the Left															
Effective Travel	3,300	3,400	3,500	3,600	3,700	3,800	3,900	4,000	4,100	4,200	4,300	4,400	4,500	4,600	4,700	4,800
L	4,106.5	4,206.5	4,306.5	4,406.5	4,506.5	4,606.5	4,706.5	4,806.5	4,906.5	5,006.5	5,106.5	5,206.5	5,306.5	5,406.5	5,506.5	5,606.5
KG	67.04	68.45	69.87	71.29	72.71	74.13	75.54	76.96	78.38	79.80	81.22	82.63	84.05	85.47	86.89	88.31

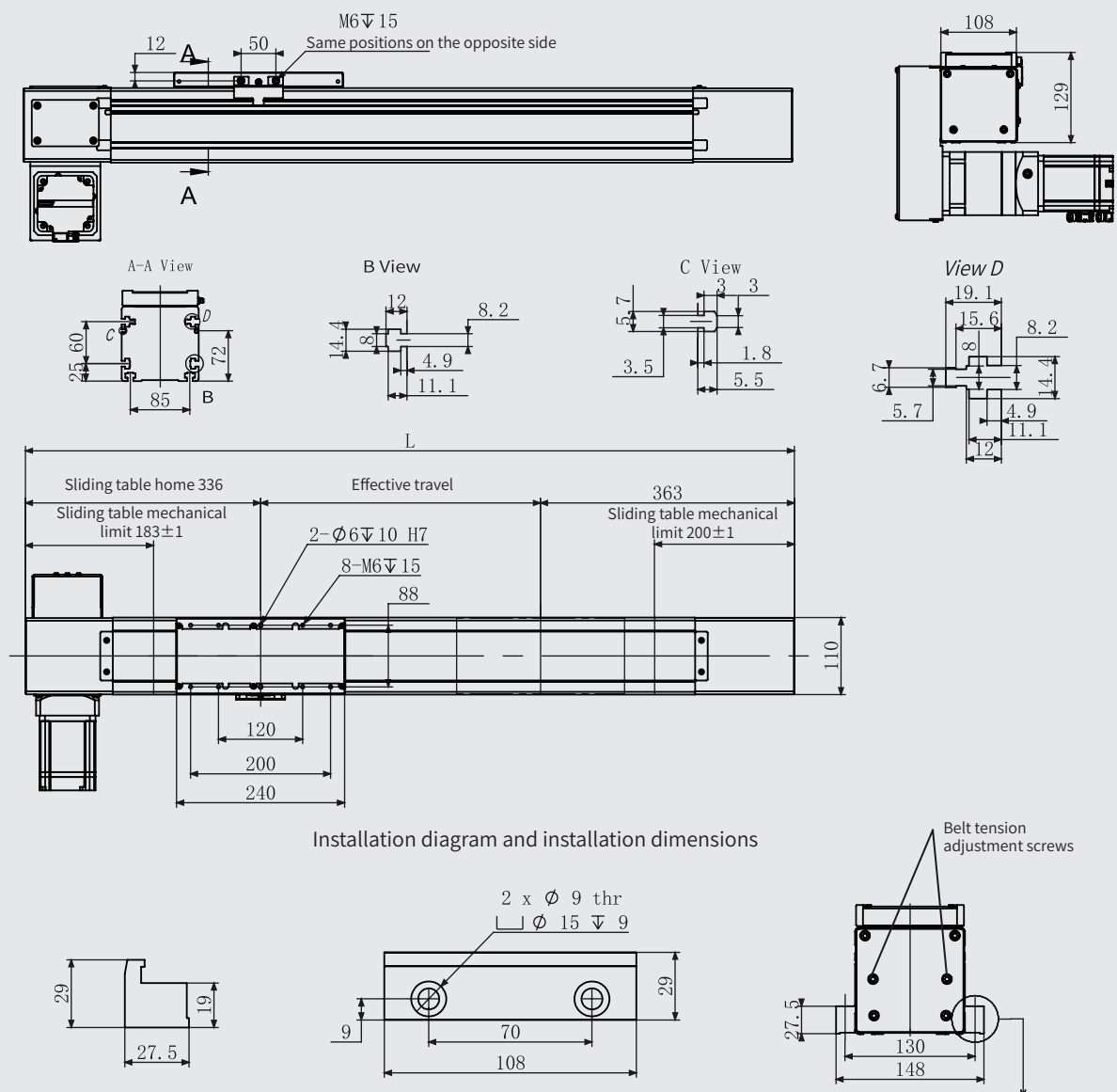


Travel

LD	Motor Connected Left Down															
Effective Travel	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	1,600
L	906.5	1,006.5	1,106.5	1,206.5	1,306.5	1,406.5	1,506.5	1,606.5	1,706.5	1,806.5	1,906.5	2,006.5	2,106.5	2,206.5	2,306.5	2,406.5
KG	21.66	23.08	24.50	25.91	27.33	28.75	30.17	31.59	33.00	34.42	35.84	37.26	38.68	40.09	41.51	42.93

LD	Motor Connected Left Down															
Effective Travel	1,700	1,800	1,900	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000	3,100	3,200
L	2,506.5	2,606.5	2,706.5	2,806.5	2,906.5	3,006.5	3,106.5	3,206.5	3,306.5	3,406.5	3,506.5	3,606.5	3,706.5	3,806.5	3,906.5	4,006.5
KG	44.35	45.77	47.18	48.60	50.02	51.44	52.86	54.27	55.69	57.11	58.53	59.95	61.36	62.78	64.2	65.62

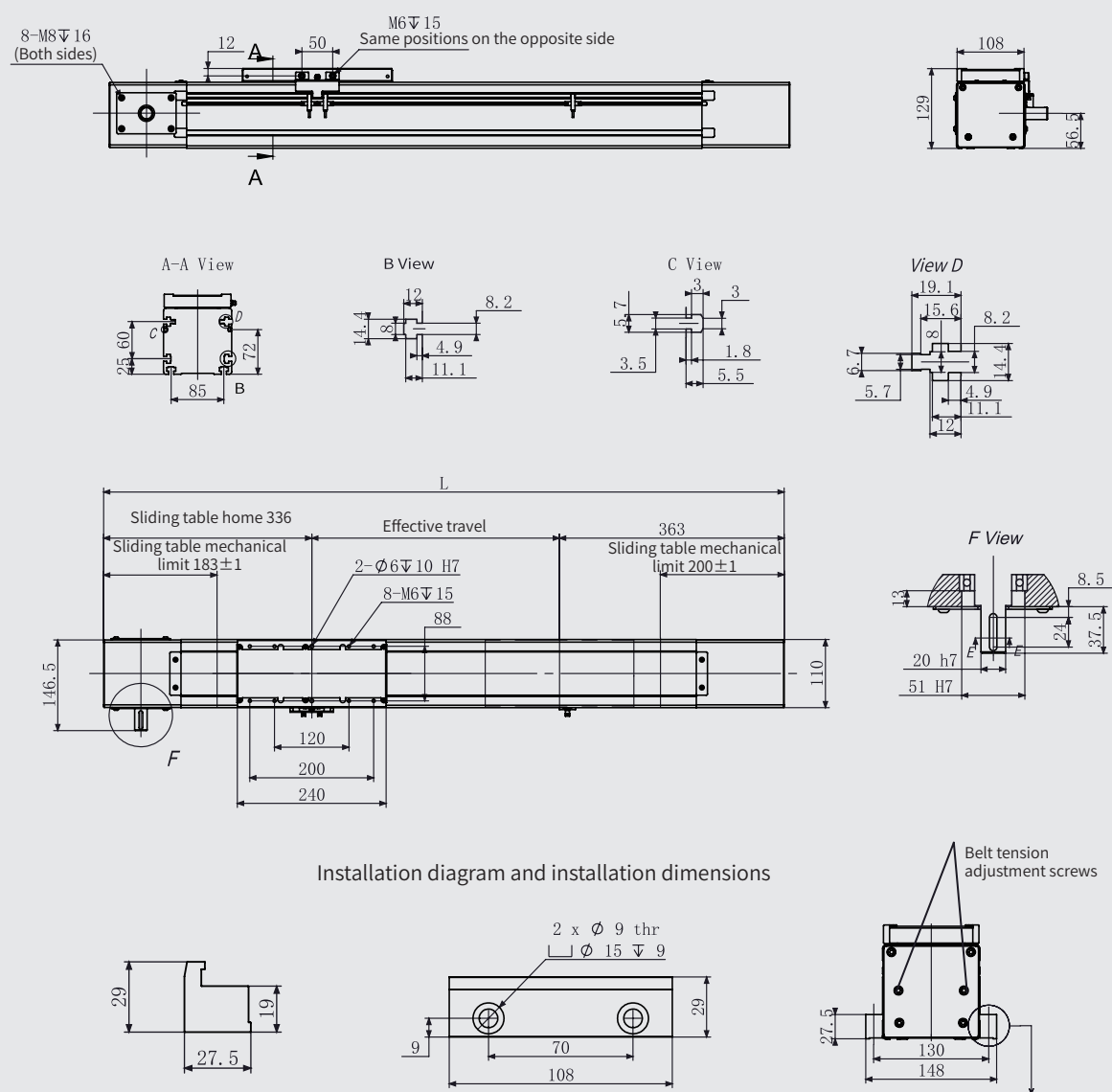
LD	Motor Connected Left Down															
Effective Travel	3,300	3,400	3,500	3,600	3,700	3,800	3,900	4,000	4,100	4,200	4,300	4,400	4,500	4,600	4,700	4,800
L	4,106.5	4,206.5	4,306.5	4,406.5	4,506.5	4,606.5	4,706.5	4,806.5	4,906.5	5,006.5	5,106.5	5,206.5	5,306.5	5,406.5	5,506.5	5,606.5
KG	67.04	68.45	69.87	71.29	72.71	74.13	75.54	76.96	78.38	79.80	81.22	82.63	84.05	85.47	86.89	88.31



LL	Left-side Output Shaft															
Effective Travel	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	1,600
L	799	899	999	1,099	1,199	1,299	1,399	1,499	1,599	1,699	1,799	1,899	1,999	2,099	2,199	2,299
KG	19.5	20.918	22.34	23.75	25.17	26.59	28.01	29.43	30.84	32.26	33.68	35.10	36.52	37.93	39.35	40.77

LL	Left-side Output Shaft															
Effective Travel	1,700	1,800	1,900	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000	3,100	3,200
L	2,399	2,499	2,599	2,699	2,799	2,899	2,999	3,099	3,199	3,299	3,399	3,499	3,599	3,699	3,799	3,899
KG	42.19	43.61	45.02	46.44	47.86	49.28	50.70	52.11	53.53	54.95	56.37	57.79	59.20	60.62	62.04	63.46

LL	Left-side Output Shaft															
Effective Travel	3,300	3,400	3,500	3,600	3,700	3,800	3,900	4,000	4,100	4,200	4,300	4,400	4,500	4,600	4,700	4,800
L	3,999	4,099	4,199	4,299	4,399	4,499	4,599	4,699	4,799	4,899	4,999	5,099	5,199	5,299	5,399	5,499
KG	64.88	66.29	67.71	69.13	70.55	71.97	73.38	74.80	76.22	77.64	79.06	80.47	81.89	83.31	84.73	86.15



Travel

LS Series

LSC Series

GS Series

LEB Series

LB Series

LBC Series

KS Series

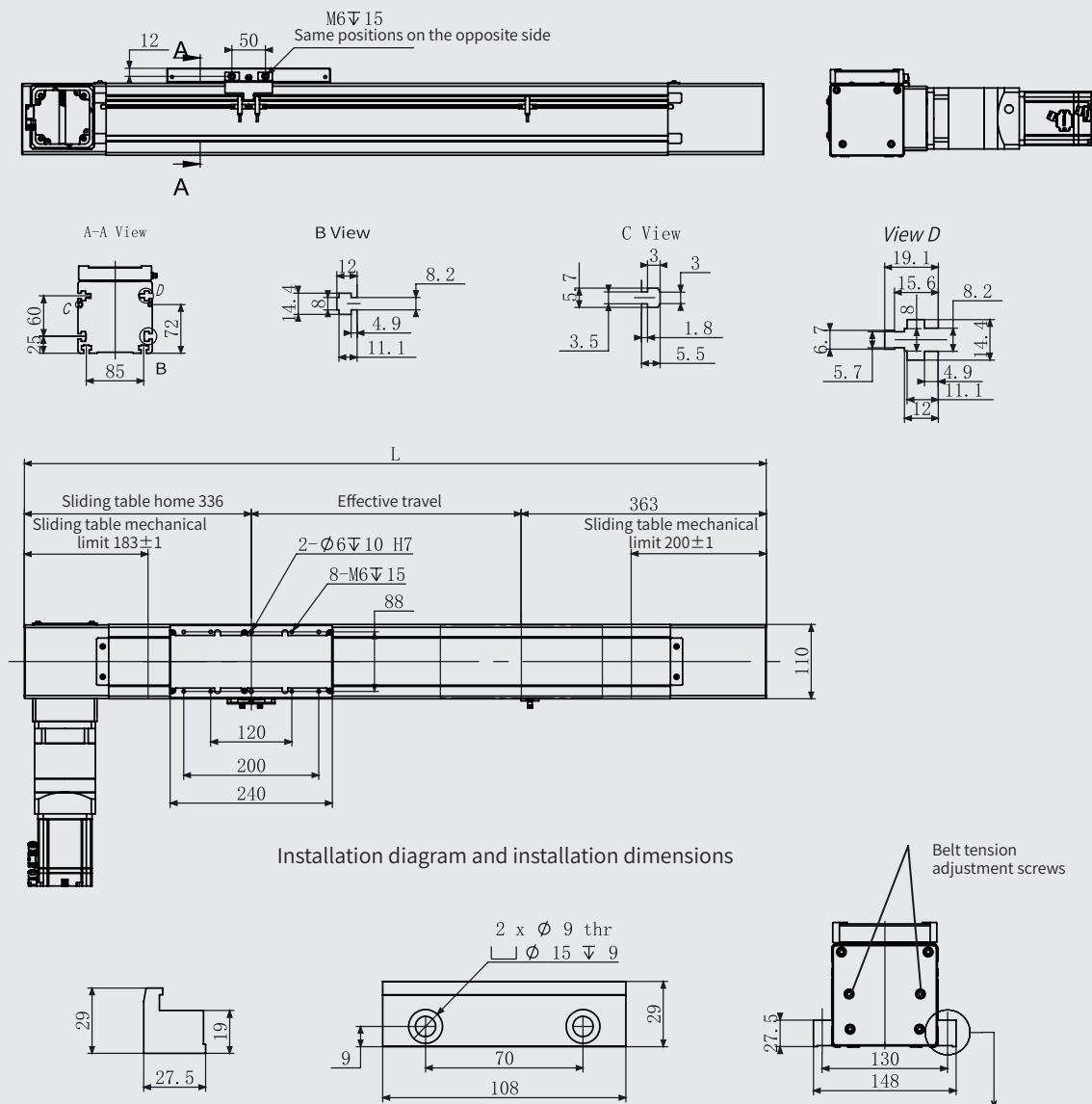
LY Series

GV Series

LT	Motor Direct Connected on the Left															
Effective Travel	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	1,600
L	799	899	999	1,099	1,199	1,299	1,399	1,499	1,599	1,699	1,799	1,899	1,999	2,099	2,199	2,299
KG	20.1	21.52	22.94	24.35	25.77	27.19	28.61	30.03	31.44	32.86	34.28	35.70	37.12	38.53	39.95	41.37

LT	Motor Direct Connected on the Left															
Effective Travel	1,700	1,800	1,900	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000	3,100	3,200
L	2,399	2,499	2,599	2,699	2,799	2,899	2,999	3,099	3,199	3,299	3,399	3,499	3,599	3,699	3,799	3,899
KG	42.79	44.21	45.62	47.04	48.46	49.88	51.30	52.71	54.13	55.55	56.97	58.39	59.80	61.22	62.64	64.06

LT	Motor Direct Connected on the Left															
Effective Travel	3,300	3,400	3,500	3,600	3,700	3,800	3,900	4,000	4,100	4,200	4,300	4,400	4,500	4,600	4,700	4,800
L	3,999	4,099	4,199	4,299	4,399	4,499	4,599	4,699	4,799	4,899	4,999	5,099	5,199	5,299	5,399	5,499
KG	65.48	66.89	68.31	69.73	71.15	72.57	73.98	75.40	76.82	78.24	79.66	81.07	82.49	83.91	85.33	86.75

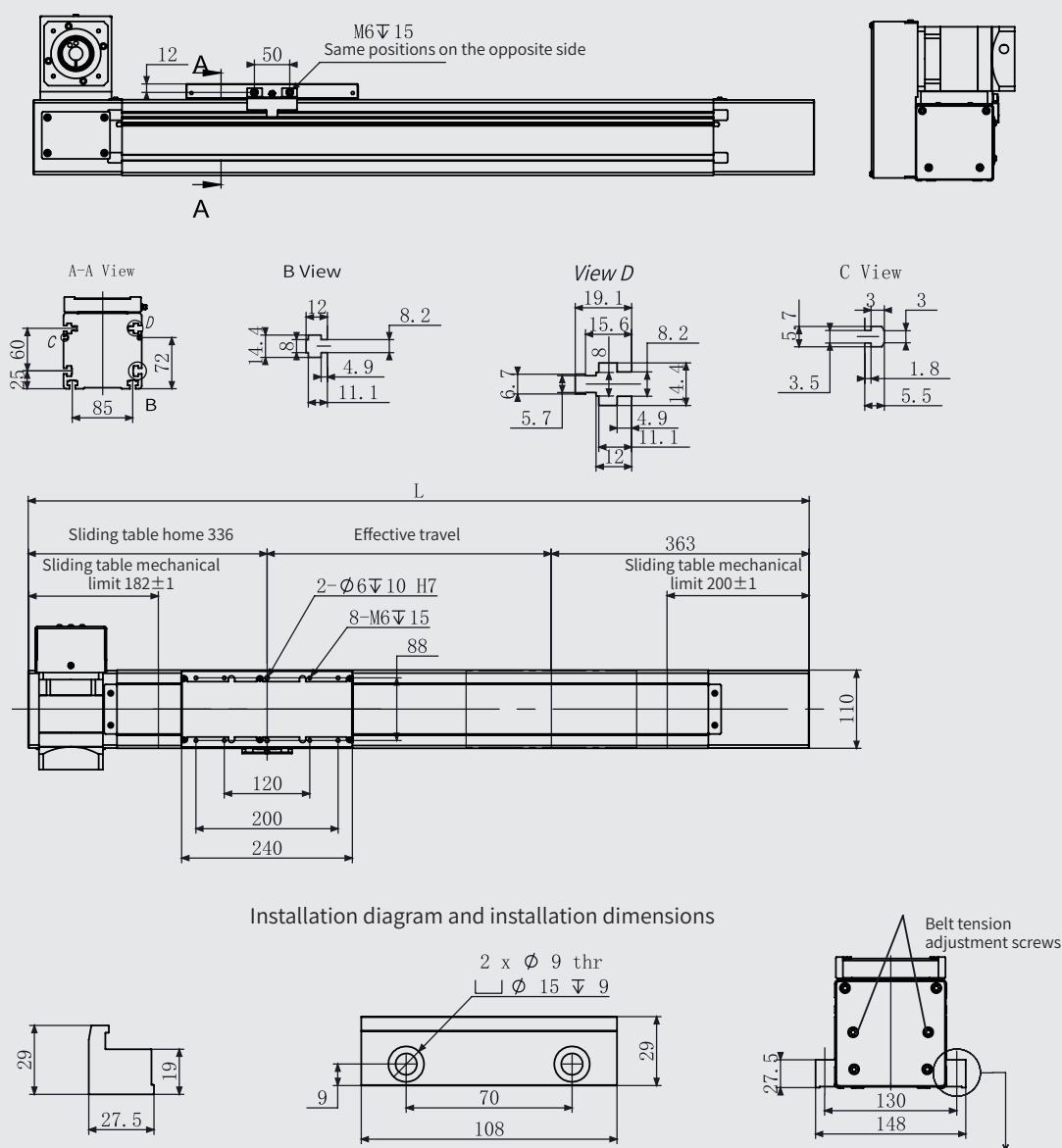


Travel

LU	Motor Connected Left Up															
Effective Travel	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	1,600
L	906.5	1,006.5	1,106.5	1,206.5	1,306.5	1,406.5	1,506.5	1,606.5	1,706.5	1,806.5	1,906.5	2,006.5	2,106.5	2,206.5	2,306.5	2,406.5
KG	21.66	23.08	24.50	25.91	27.33	28.75	30.17	31.59	33.00	34.42	35.84	37.26	38.68	40.09	41.51	42.93

LU	Motor Connected Left Up															
Effective Travel	1,700	1,800	1,900	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000	3,100	3,200
L	2,506.5	2,606.5	2,706.5	2,806.5	2,906.5	3,006.5	3,106.5	3,206.5	3,306.5	3,406.5	3,506.5	3,606.5	3,706.5	3,806.5	3,906.5	4,006.5
KG	44.35	45.77	47.18	48.60	50.02	51.44	52.86	54.27	55.69	57.11	58.53	59.95	61.36	62.78	64.2	65.62

LU	Motor Connected Left Up															
Effective Travel	3,300	3,400	3,500	3,600	3,700	3,800	3,900	4,000	4,100	4,200	4,300	4,400	4,500	4,600	4,700	4,800
L	4,106.5	4,206.5	4,306.5	4,406.5	4,506.5	4,606.5	4,706.5	4,806.5	4,906.5	5,006.5	5,106.5	5,206.5	5,306.5	5,406.5	5,506.5	5,606.5
KG	67.04	68.45	69.87	71.29	72.71	74.13	75.54	76.96	78.38	79.80	81.22	82.63	84.05	85.47	86.89	88.31

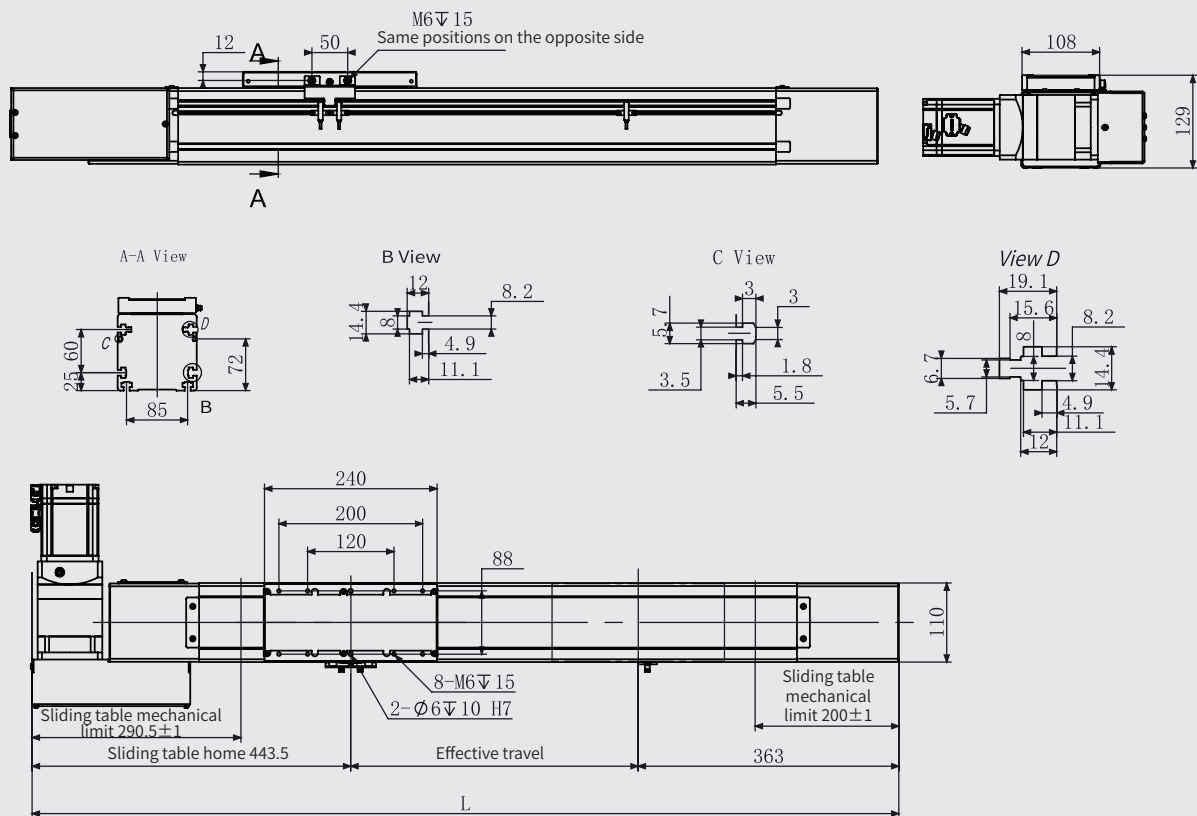


Travel

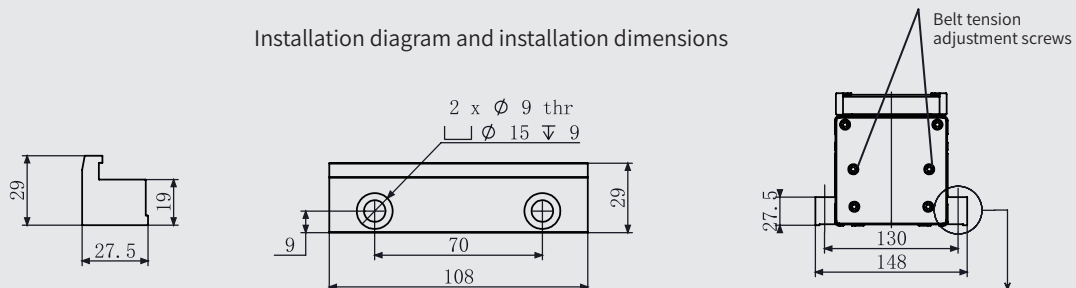
R	Motor Connected on the Right															
Effective Travel	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	1,600
L	906.5	1,006.5	1,106.5	1,206.5	1,306.5	1,406.5	1,506.5	1,606.5	1,706.5	1,806.5	1,906.5	2,006.5	2,106.5	2,206.5	2,306.5	2,406.5
KG	21.66	23.08	24.50	25.91	27.33	28.75	30.17	31.59	33.00	34.42	35.84	37.26	38.68	40.09	41.51	42.93

R	Motor Connected on the Right															
Effective Travel	1,700	1,800	1,900	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000	3,100	3,200
L	2,506.5	2,606.5	2,706.5	2,806.5	2,906.5	3,006.5	3,106.5	3,206.5	3,306.5	3,406.5	3,506.5	3,606.5	3,706.5	3,806.5	3,906.5	4,006.5
KG	44.35	45.77	47.18	48.60	50.02	51.44	52.86	54.27	55.69	57.11	58.53	59.95	61.36	62.78	64.2	65.62

R	Motor Connected on the Right															
Effective Travel	3,300	3,400	3,500	3,600	3,700	3,800	3,900	4,000	4,100	4,200	4,300	4,400	4,500	4,600	4,700	4,800
L	4,106.5	4,206.5	4,306.5	4,406.5	4,506.5	4,606.5	4,706.5	4,806.5	4,906.5	5,006.5	5,106.5	5,206.5	5,306.5	5,406.5	5,506.5	5,606.5
KG	67.04	68.45	69.87	71.29	72.71	74.13	75.54	76.96	78.38	79.80	81.22	82.63	84.05	85.47	86.89	88.31



Installation diagram and installation dimensions

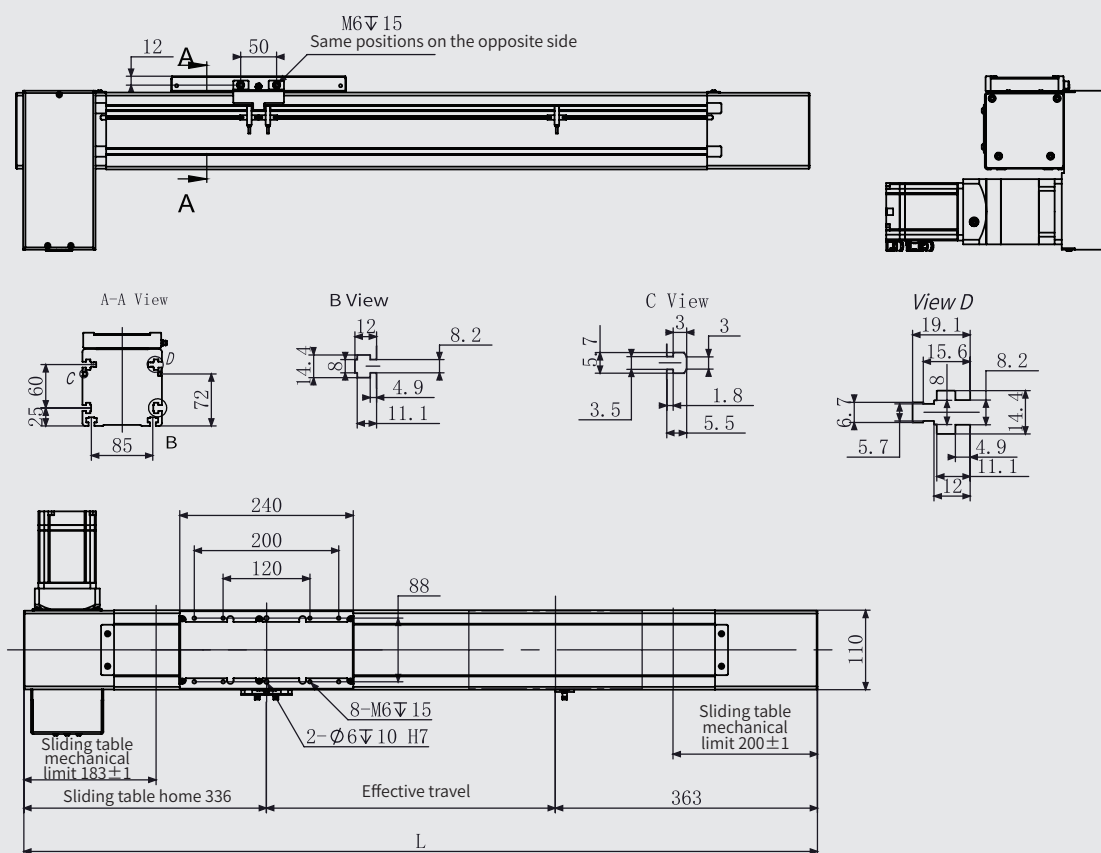


Travel

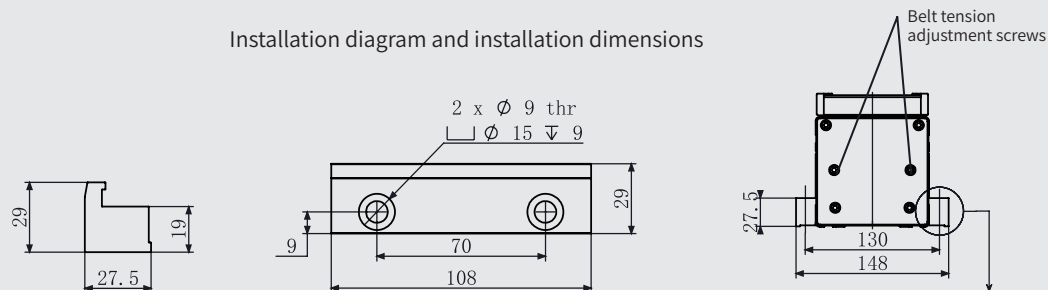
RD	Motor Connected Right Down															
Effective Travel	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	1,600
L	906.5	1,006.5	1,106.5	1,206.5	1,306.5	1,406.5	1,506.5	1,606.5	1,706.5	1,806.5	1,906.5	2,006.5	2,106.5	2,206.5	2,306.5	2,406.5
KG	21.66	23.08	24.50	25.91	27.33	28.75	30.17	31.59	33.00	34.42	35.84	37.26	38.68	40.09	41.51	42.93

RD	Motor Connected Right Down															
Effective Travel	1,700	1,800	1,900	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000	3,100	3,200
L	2,506.5	2,606.5	2,706.5	2,806.5	2,906.5	3,006.5	3,106.5	3,206.5	3,306.5	3,406.5	3,506.5	3,606.5	3,706.5	3,806.5	3,906.5	4,006.5
KG	44.35	45.77	47.18	48.60	50.02	51.44	52.86	54.27	55.69	57.11	58.53	59.95	61.36	62.78	64.2	65.62

RD	Motor Connected Right Down															
Effective Travel	3,300	3,400	3,500	3,600	3,700	3,800	3,900	4,000	4,100	4,200	4,300	4,400	4,500	4,600	4,700	4,800
L	4,106.5	4,206.5	4,306.5	4,406.5	4,506.5	4,606.5	4,706.5	4,806.5	4,906.5	5,006.5	5,106.5	5,206.5	5,306.5	5,406.5	5,506.5	5,606.5
KG	67.04	68.45	69.87	71.29	72.71	74.13	75.54	76.96	78.38	79.80	81.22	82.63	84.05	85.47	86.89	88.31



Installation diagram and installation dimensions

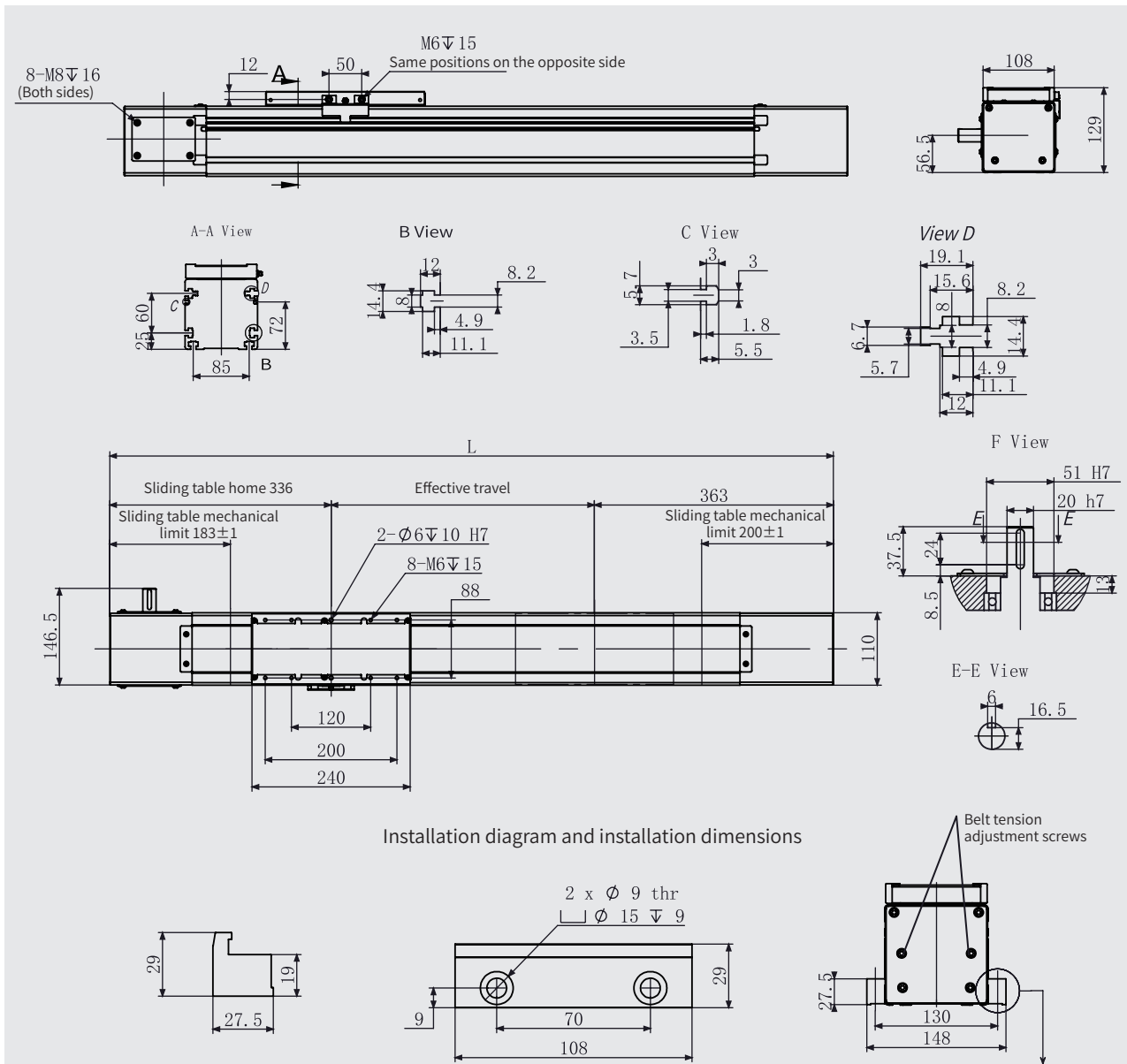


Travel

RR	Right-side Output Shaft															
Effective Travel	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	1,600
L	799	899	999	1,099	1,199	1,299	1,399	1,499	1,599	1,699	1,799	1,899	1,999	2,099	2,199	2,299
KG	19.5	20.918	22.34	23.75	25.17	26.59	28.01	29.43	30.84	32.26	33.68	35.10	36.52	37.93	39.35	40.77

RR	Right-side Output Shaft															
Effective Travel	1,700	1,800	1,900	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000	3,100	3,200
L	2,399	2,499	2,599	2,699	2,799	2,899	2,999	3,099	3,199	3,299	3,399	3,499	3,599	3,699	3,799	3,899
KG	42.19	43.61	45.02	46.44	47.86	49.28	50.70	52.11	53.53	54.95	56.37	57.79	59.20	60.62	62.04	63.46

RR	Right-side Output Shaft															
Effective Travel	3,300	3,400	3,500	3,600	3,700	3,800	3,900	4,000	4,100	4,200	4,300	4,400	4,500	4,600	4,700	4,800
L	3,999	4,099	4,199	4,299	4,399	4,499	4,599	4,699	4,799	4,899	4,999	5,099	5,199	5,299	5,399	5,499
KG	64.88	66.29	67.71	69.13	70.55	71.97	73.38	74.80	76.22	77.64	79.06	80.47	81.89	83.31	84.73	86.15

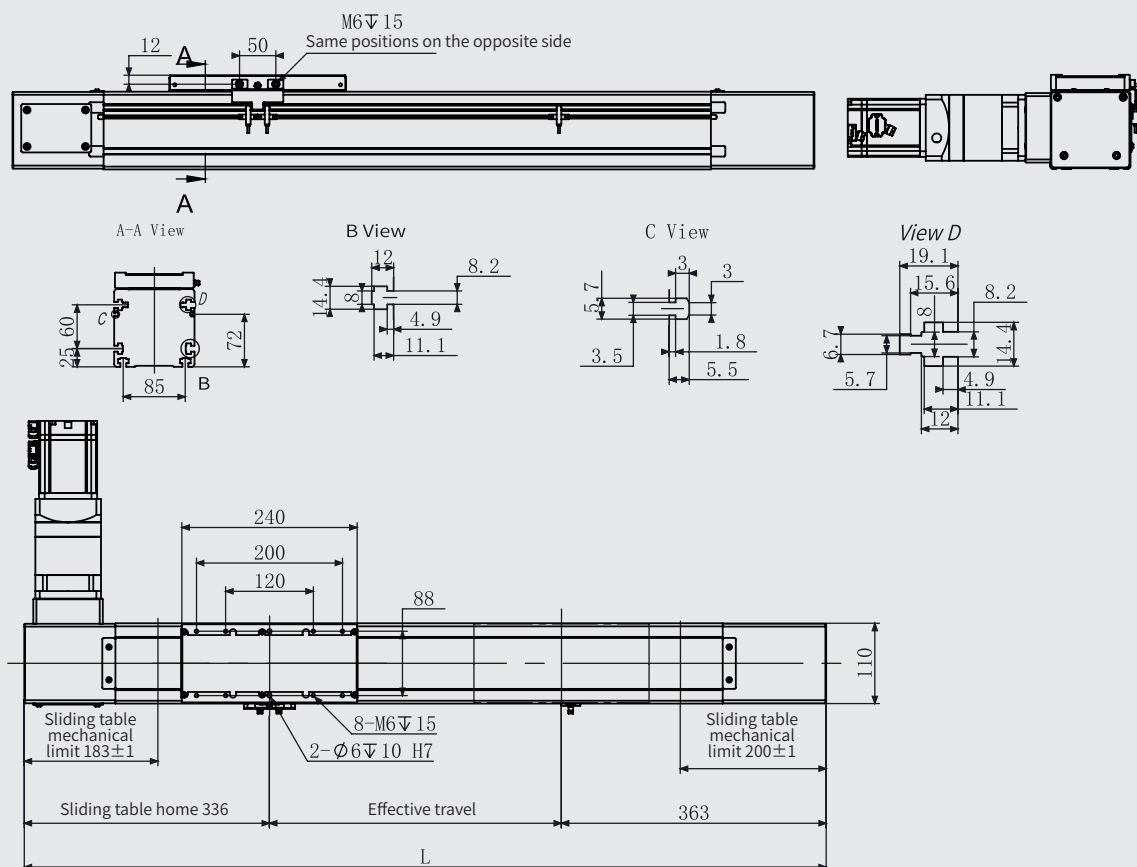


Travel

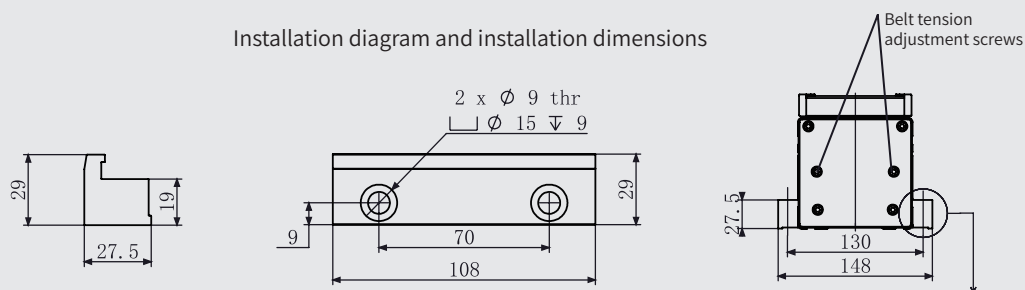
RT	Motor Direct Connected on the Right															
Effective Travel	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	1,600
L	799	899	999	1,099	1,199	1,299	1,399	1,499	1,599	1,699	1,799	1,899	1,999	2,099	2,199	2,299
KG	20.1	21.52	22.94	24.35	25.77	27.19	28.61	30.03	31.44	32.86	34.28	35.70	37.12	38.53	39.95	41.37

RT	Motor Direct Connected on the Right															
Effective Travel	1,700	1,800	1,900	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000	3,100	3,200
L	2,399	2,499	2,599	2,699	2,799	2,899	2,999	3,099	3,199	3,299	3,399	3,499	3,599	3,699	3,799	3,899
KG	42.79	44.21	45.62	47.04	48.46	49.88	51.30	52.71	54.13	55.55	56.97	58.39	59.80	61.22	62.64	64.06

RT	Motor Direct Connected on the Right															
Effective Travel	3,300	3,400	3,500	3,600	3,700	3,800	3,900	4,000	4,100	4,200	4,300	4,400	4,500	4,600	4,700	4,800
L	3,999	4,099	4,199	4,299	4,399	4,499	4,599	4,699	4,799	4,899	4,999	5,099	5,199	5,299	5,399	5,499
KG	65.48	66.89	68.31	69.73	71.15	72.57	73.98	75.40	76.82	78.24	79.66	81.07	82.49	83.91	85.33	86.75



Installation diagram and installation dimensions

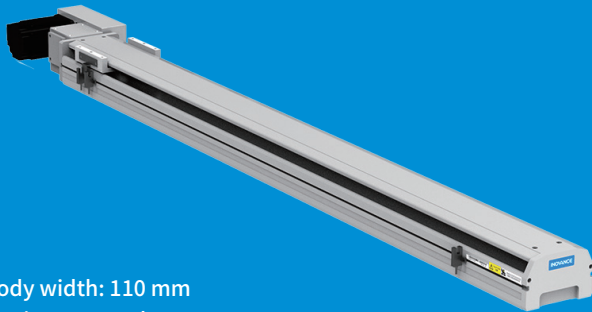


Sliding Table Series

LB Series

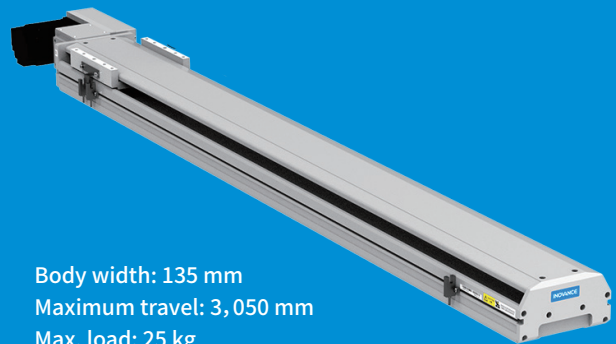
General Environment/Standard Belt-Driven Sliding Table Electric Cylinder

Medium LB11



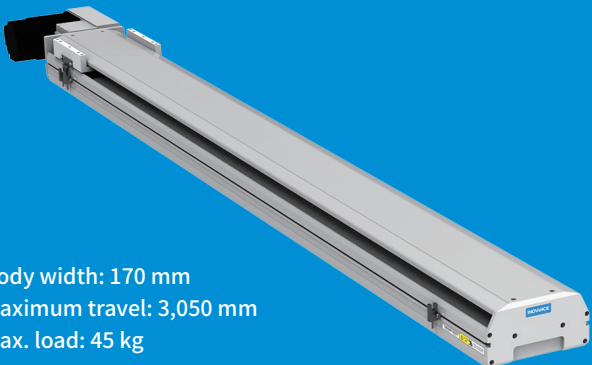
Body width: 110 mm
Maximum travel: 2,600 mm
Max. load: 20 kg

Medium LB14H



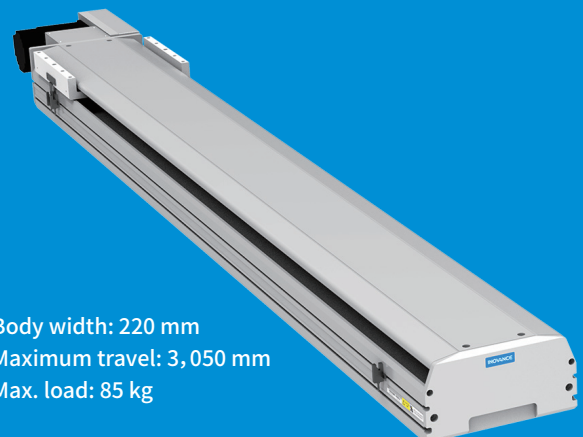
Body width: 135 mm
Maximum travel: 3,050 mm
Max. load: 25 kg

Large LB17H



Body width: 170 mm
Maximum travel: 3,050 mm
Max. load: 45 kg

Large LB22H



Body width: 220 mm
Maximum travel: 3,050 mm
Max. load: 85 kg

Specifications Index

Standard Belt-Driven Sliding Table

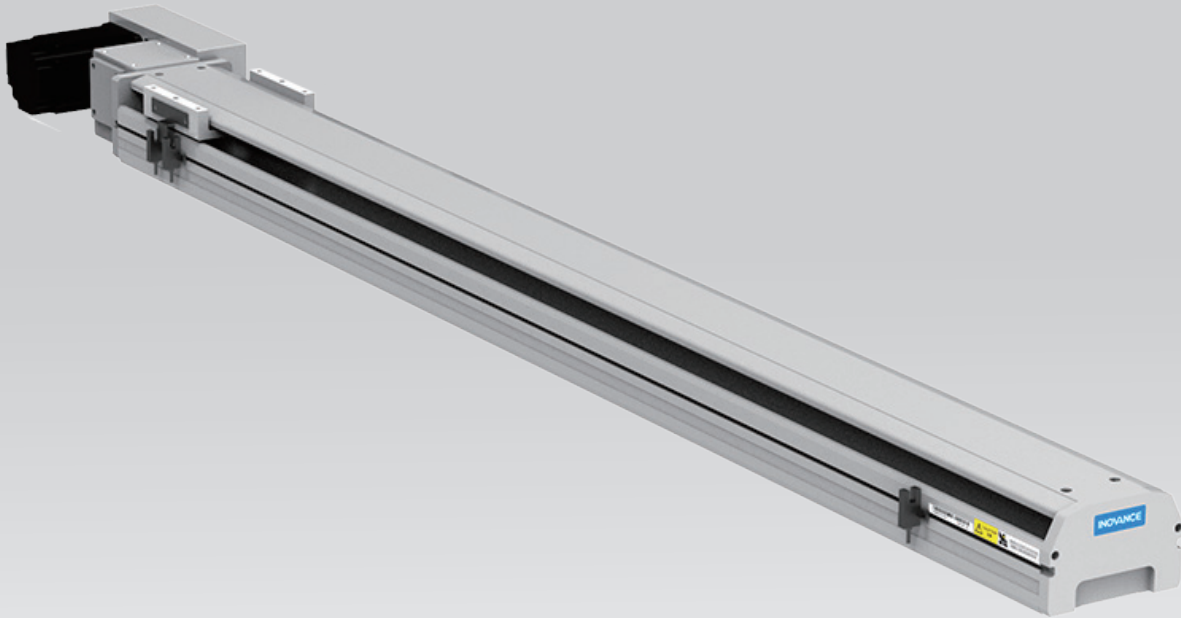
Working Environment	Transmission Mode	Specification	Reducer	Motor Power	Body Width	Repeatability	Lead Screw Specification		Max. Load Capacity	
							Belt	Lead	Horizontal Axis	Vertical Axis
General environment	Timing belt	LB11	Yes	200 W	110	±0.04	25	40 (No reducer)	20	
		LB14H		400 W	135	±0.04	25	40 (No reducer)	25	
		LB17H		400 W	170	±0.04	30	40 (No reducer)	45	
		LB22H		750 W	220	±0.04	50	40 (No reducer)	85	

Specification	Max. Speed ¹	Standard Travel and Max. Operating Speed ²																
		150	300	600	900	1,200	1,500	1,800	2,100	2,300	2,500	2,600	2,800	3,050	3,150	3,400	3,500	3,600
LB11	2,000	2,000																
LB14H	2,000	2,000																
LB17H	2,000	2,000																
LB22H	2,000	2,000																

 Speed

Note 1: The maximum speed (mm/s) is set based on the rated speed of 3,000 rpm of the servo motor.

Note 2: The maximum speed of the step motor is set based on 500 rpm.

LB 11**Standard Belt-Driven Sliding Table
Electric Cylinder**

Max. travel	2,600 mm	Max. speed	2,000 mm/s		
Motor power	200 W	Belt width	25 mm	Linear slide rail	15 x 12.5 - 2

Model Description

L **B** **11** - **40** **R** **600** - **N** **3** - **40** **B** - **K** **3** - **VP** - **XX**

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭

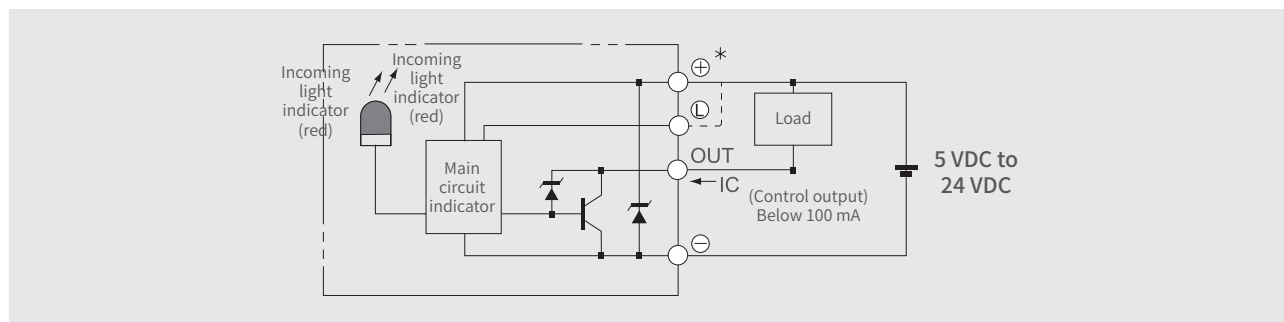
① Series number L	⑤ Motor position L: Motor connected on the left R: Motor connected on the right LU: Motor connected left up RU: Motor connected right up LD: Motor connected left down RD: Motor connected right down	⑨ Motor power 20: 200 W 40: 400 W	
② Cylinder type B: Belt semi-closed		⑩ Brake None: No brake B: Brake	⑪ Reducer providing None: Configured by Inovance K: Provided by customer
③ Width 11: 110 mm		⑫ Reduction ratio 3:3 5:5	
④ Lead 40: 40 mm 50: 50 mm 100: 100 mm	⑥ Travel 50 mm to 2,600 mm Interval of 50 mm	⑬ Drive type VP: Standard SV660P drive VN: Standard SV660N drive	
	⑦ Sensor type N: NPN sensor P: PNP sensor	⑭ Customization	
	⑧ Sensor quantity N: No sensor 1: 1 2: 2 3: 3		

Basic Parameters

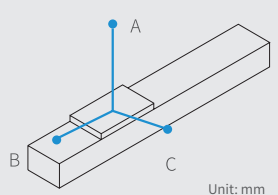
Item		Specification
Repeatability (mm)		± 0.04
Lead (mm)		40
Max. Speed (mm/s)		2,000
Max. Load Capacity	Horizontal Axis (kg)	20
	Vertical Axis (kg)	
Rated Force (N)		100
Standard Travel (mm)		50 mm to 2,600 mm, with an interval of 50 mm
Power of AC Servo Motor (W)		200
Belt Width (mm)		25
High-Stiffness Linear Slide Rail (mm)		W15 x H12.5
Origin Sensor	External	SGT-NH(NPN)/SGT-PH(PNP)

Note: The motor acceleration/deceleration is set to 0.4s.

Sensor Connection Diagram

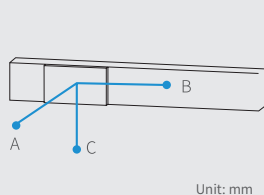


Permissible Load Torque



Unit: mm

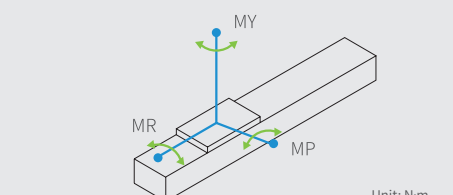
Horizontal Mounting	A	B	C
5 kg	1,794	688	538
15 kg	858	324	253
20 kg	670	251	197



Unit: mm

Backplate Mounting	A	B	C
10 kg	384	446	1,170
13 kg	285	365	961
20 kg	197	251	670

Static Allowable Load Inertia



Unit: N·m

MY	551
MP	552
MR	485

- Data in the torque table specifies the maximum allowable offset distance of the gravity.
- Under normal use in compliance with the specifications in the product catalogs, ensure that the lifetime is 10,000 km.
- Inverted mounting fails to comply with the standard specifications. If required, contact our business personnel.

Travel

LS Series

LSC Series

GS Series

LEB Series

LB Series

LBC Series

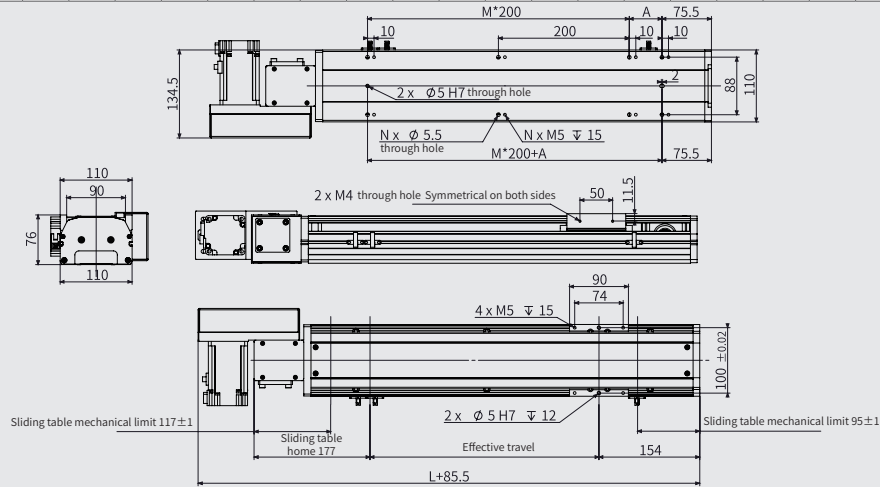
KS Series

LY Series

GV Series

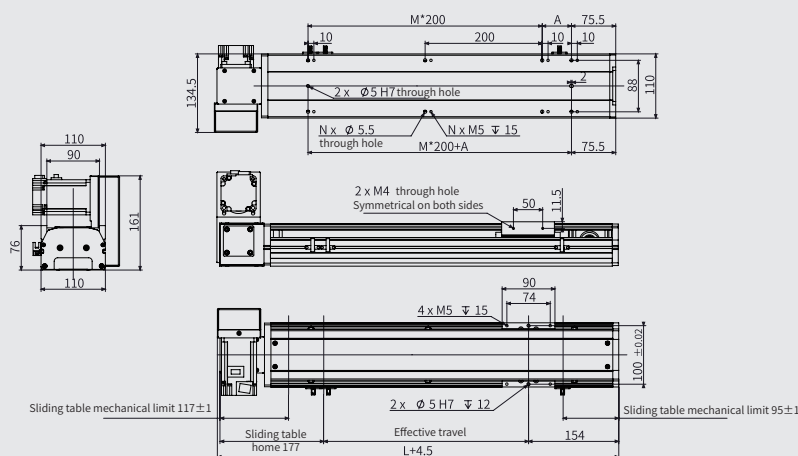
L	Motor Connected on the Left																											
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300		
L	381	431	481	531	581	631	681	731	781	831	881	931	981	1,031	1,081	1,131	1,181	1,231	1,281	1,331	1,381	1,431	1,481	1,531	1,581	1,631		
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200		
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6		
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16		
KG	7.37	7.8	8.23	8.65	9.07	9.5	9.92	10.34	10.76	11.19	11.61	12.03	12.46	12.88	13.3	13.73	14.15	14.57	14.99	15.42	15.84	16.26	16.68	17.1	17.52	17.94		

L	Motor Connected on the Left																											
Effective Travel	1,350	1,400	1,450	1,500	1,550	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	230	2,350	2,400	2,450	2,500	2,550	2,600		
L	1,681	1,731	1,781	1,831	1,881	1,931	1,981	2,031	2,081	2,131	2,181	2,231	2,281	2,331	2,381	2,431	2,481	2,531	2,581	2,631	2,681	2,731	2,781	2,831	2,881	2,931		
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100		
M	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13		
N	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30		
KG	18.36	18.78	19.2	19.62	20.04	20.46	20.88	21.3	21.72	22.14	22.56	22.98	23.4	23.82	24.24	24.66	25.08	25.5	25.92	26.34	26.76	27.18	27.6	28.02	28.44	28.87		



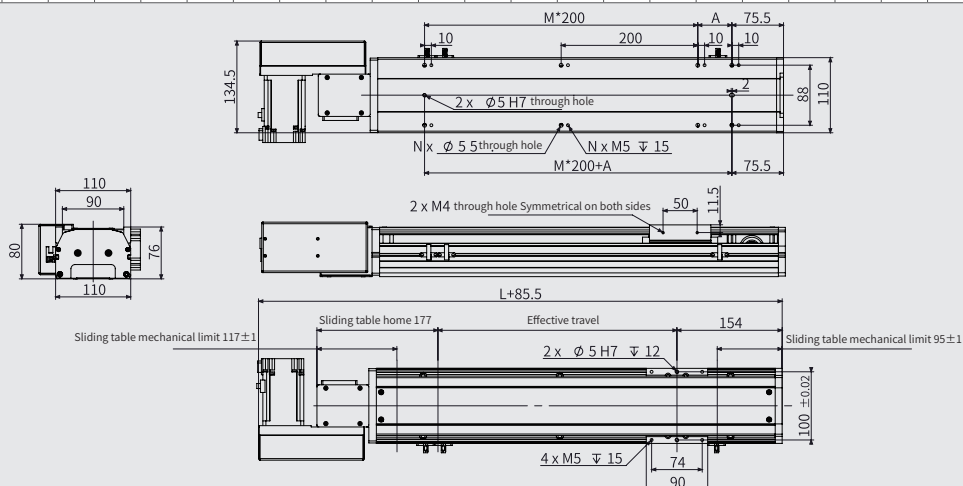
LU	Motor Connected Left Up																											
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300		
L	381	431	481	531	581	631	681	731	781	831	881	931	981	1,031	1,081	1,131	1,181	1,231	1,281	1,331	1,381	1,431	1,481	1,531	1,581	1,631		
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200		
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6		
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16		
KG	7.37	7.8	8.23	8.65	9.07	9.5	9.92	10.34	10.76	11.19	11.61	12.03	12.46	12.88	13.3	13.73	14.15	14.57	14.99	15.42	15.84	16.26	16.68	17.1	17.52	17.94		

LU	Motor Connected Left Up																									
Effective Travel	1,350	1,400	1,450	1,500	1,550	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	230	2,350	2,400	2,450	2,500	2,550	2,600
L	1,681	1,731	1,781	1,831	1,881	1,931	1,981	2,031	2,081	2,131	2,181	2,231	2,281	2,331	2,381	2,431	2,481	2,531	2,581	2,631	2,681	2,731	2,781	2,831	2,881	2,931
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13
N	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30
KG	18.36	18.78	19.2	19.62	20.04	20.46	20.88	21.3	21.72	22.14	22.56	22.98	23.4	23.82	24.24	24.66	25.08	25.5	25.92	26.34	26.76	27.18	27.6	28.02	28.44	28.87



R	Motor Connected on the Right																											
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300		
L	381	431	481	531	581	631	681	731	781	831	881	931	981	1,031	1,081	1,131	1,181	1,231	1,281	1,331	1,381	1,431	1,481	1,531	1,581	1,631		
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200		
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6		
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16		
KG	7.37	7.8	8.23	8.65	9.07	9.5	9.92	10.34	10.76	11.19	11.61	12.03	12.46	12.88	13.3	13.73	14.15	14.57	14.99	15.42	15.84	16.26	16.68	17.1	17.52	17.94		

R	Motor Connected on the Right																									
Effective Travel	1,350	1,400	1,450	1,500	1,550	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	230	2,350	2,400	2,450	2,500	2,550	2,600
L	1,681	1,731	1,781	1,831	1,881	1,931	1,981	2,031	2,081	2,131	2,181	2,231	2,281	2,331	2,381	2,431	2,481	2,531	2,581	2,631	2,681	2,731	2,781	2,831	2,881	2,931
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13
N	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30
KG	18.36	18.78	19.2	19.62	20.04	20.46	20.88	21.3	21.72	22.14	22.56	22.98	23.4	23.82	24.24	24.66	25.08	25.5	25.92	26.34	26.76	27.18	27.6	28.02	28.44	28.87



Travel

LS Series

LSC Series

GS Series

LEB Series

LB Series

LBC Series

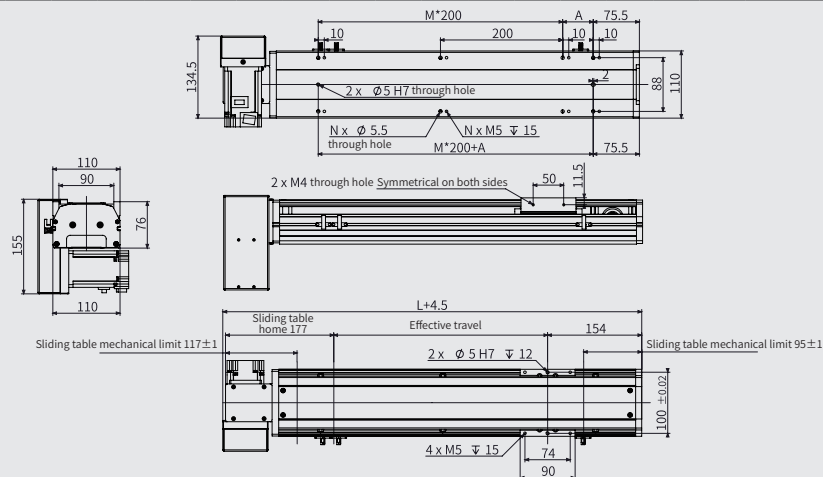
KS Series

LY Series

GV Series

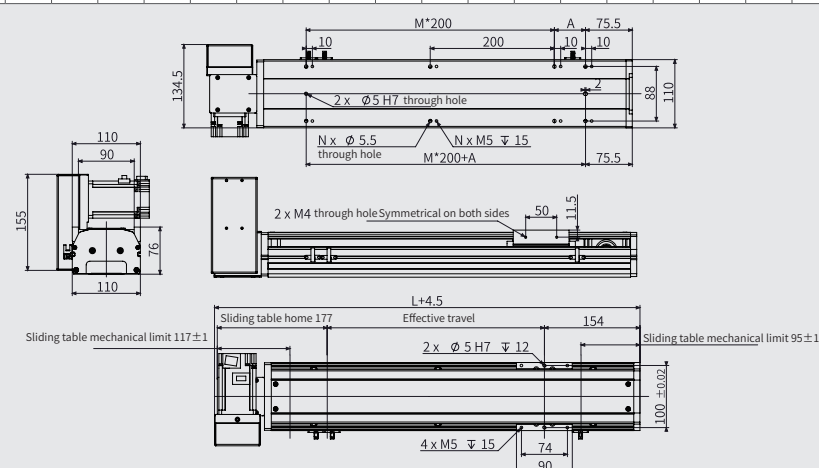
RD	Motor Connected Right Down																											
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300		
L	381	431	481	531	581	631	681	731	781	831	881	931	981	1,031	1,081	1,131	1,181	1,231	1,281	1,331	1,381	1,431	1,481	1,531	1,581	1,631		
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200		
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6		
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16		
KG	7.37	7.8	8.23	8.65	9.07	9.5	9.92	10.34	10.76	11.19	11.61	12.03	12.46	12.88	13.3	13.73	14.15	14.57	14.99	15.42	15.84	16.26	16.68	17.1	17.52	17.94		

RD	Motor Connected Right Down																											
Effective Travel	1,350	1,400	1,450	1,500	1,550	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	230	2,350	2,400	2,450	2,500	2,550	2,600		
L	1,681	1,731	1,781	1,831	1,881	1,931	1,981	2,031	2,081	2,131	2,181	2,231	2,281	2,331	2,381	2,431	2,481	2,531	2,581	2,631	2,681	2,731	2,781	2,831	2,881	2,931		
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100		
M	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13		
N	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30		
KG	18.36	18.78	19.2	19.62	20.04	20.46	20.88	21.3	21.72	22.14	22.56	22.98	23.4	23.82	24.24	24.66	25.08	25.5	25.92	26.34	26.76	27.18	27.6	28.02	28.44	28.87		



RU	Motor Connected Right Up																											
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300		
L	381	431	481	531	581	631	681	731	781	831	881	931	981	1,031	1,081	1,131	1,181	1,231	1,281	1,331	1,381	1,431	1,481	1,531	1,581	1,631		
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200		
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6		
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16		
KG	7.37	7.8	8.23	8.65	9.07	9.5	9.92	10.34	10.76	11.19	11.61	12.03	12.46	12.88	13.3	13.73	14.15	14.57	14.99	15.42	15.84	16.26	16.68	17.1	17.52	17.94		

RU	Motor Connected Right Up																											
Effective Travel	1,350	1,400	1,450	1,500	1,550	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	230	2,350	2,400	2,450	2,500	2,550	2,600		
L	1,681	1,731	1,781	1,831	1,881	1,931	1,981	2,031	2,081	2,131	2,181	2,231	2,281	2,331	2,381	2,431	2,481	2,531	2,581	2,631	2,681	2,731	2,781	2,831	2,881	2,931		
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100		
M	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13		
N	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30		
KG	18.36	18.78	19.2	19.62	20.04	20.46	20.88	21.3	21.72	22.14	22.56	22.98	23.4	23.82	24.24	24.66	25.08	25.5	25.92	26.34	26.76	27.18	27.6	28.02	28.44	28.87		



LB 14H

Standard Belt-Driven Sliding Table
Electric Cylinder

Max. travel	3,050 mm	Max. speed	2,000 mm/s		
Motor power	400 W	Belt width	25 mm	Linear slide rail	15 x 12.5 - 2

Model Description

L B 14H - 40 R 600 - N 3 - 40 B - K 3 - VP - XX
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭

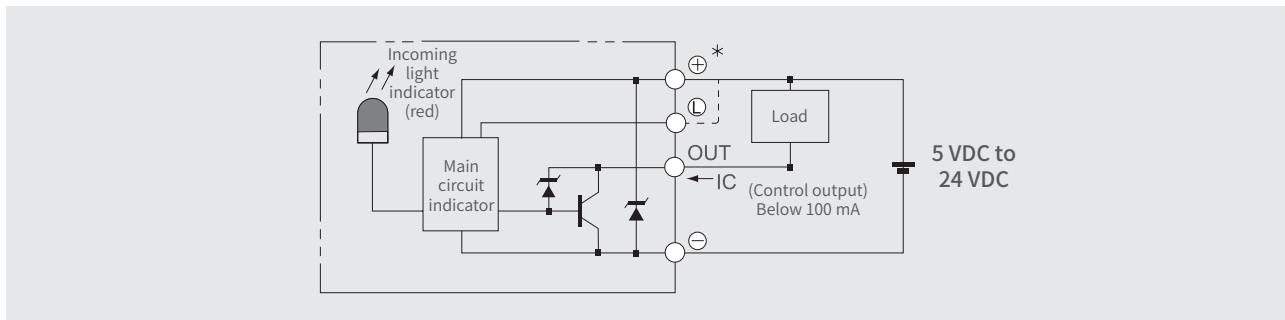
① Series number L	⑤ Motor position L: Motor connected on the left R: Motor connected on the right LU: Motor connected left up RU: Motor connected right up LD: Motor connected left down RD: Motor connected right down	⑨ Motor power 40: 400 W	
② Cylinder type B: Belt semi-closed		⑩ Brake None: No brake B: Brake	⑪ Reducer providing None: Configured by Inovance K: Provided by customer
③ Width 14 H: 135 mm	⑥ Travel 50 mm to 3,050 mm Interval of 50 mm	⑫ Reduction ratio 3:3 5:5	
④ Lead 40: 40 mm 100: 100 mm	⑦ Sensor type N: NPN sensor P: PNP sensor	⑬ Drive type VP: Standard SV660P drive VN: Standard SV660N drive	
	⑧ Sensor quantity N: No sensor 1: 1 2: 2 3: 3	⑭ Customization	

Basic Parameters

Item		Specification
Repeatability (mm)		± 0.04
Lead (mm)		40
Max. Speed (mm/s)		2,000
Max. Load Capacity	Horizontal Axis (kg)	25
	Vertical Axis (kg)	
Rated Force (N)		100
Standard Travel (mm)		100 mm to 3,050 mm, with an interval of 50 mm
Power of AC Servo Motor (W)		400
Belt Width (mm)		25
High-Stiffness Linear Slide Rail (mm)		W15 x H12.5
Origin Sensor	External	SGT-NH(NPN)/SGT-PH(PNP)

Note: The motor acceleration/deceleration is set to 0.4s.

Sensor Connection Diagram



Permissible Load Torque

Unit: mm

Horizontal Mounting	A	B	C
10 kg	1,794	688	538
20 kg	858	324	253
25 kg	670	251	197

Unit: mm

Backplate Mounting	A	B	C
15 kg	384	446	1,170
18 kg	285	365	961
25 kg	197	251	670

Static Allowable Load Inertia

Unit: N·m

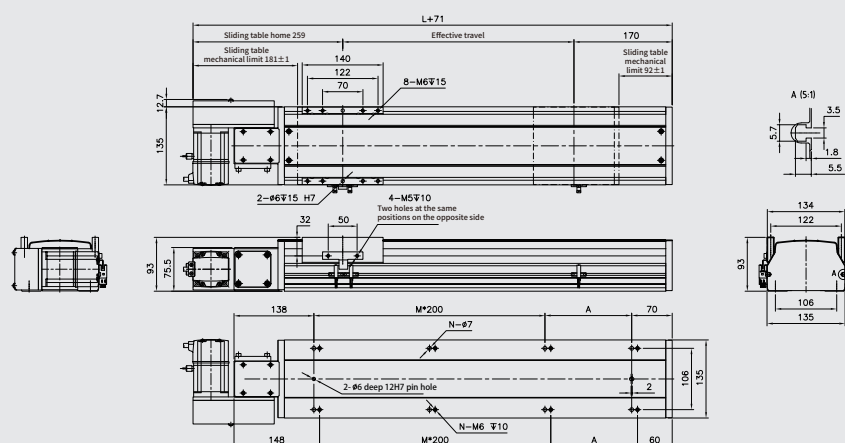
MY	551
MP	552
MR	485

- Data in the torque table specifies the maximum allowable offset distance of the gravity.
- Under normal use in compliance with the specifications in the product catalogs, ensure that the lifetime is 10,000 km.
- Inverted mounting fails to comply with the standard specifications. If required, contact our business personnel.

Travel

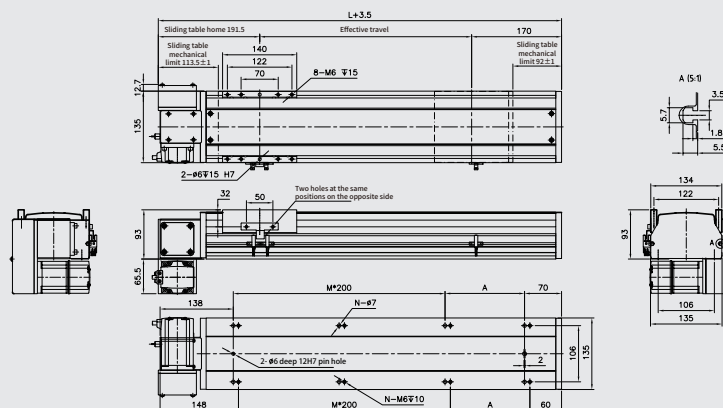
L	Motor Connected on the Left																													
Effective Travel	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550
L	458	508	558	608	658	708	758	808	858	908	958	1,008	1,058	1,108	1,158	1,208	1,258	1,308	1,358	1,408	1,458	1,508	1,558	1,608	1,658	1,708	1,758	1,808	1,858	1,908
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	8.6	9	9.5	10	10.5	11	11.4	12	12.4	13	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9	17.3	17.9	18.5	19.1	19.7	20.3	20.9	21.5	22.1	22.7	23.3	23.9

L	Motor Connected on the Left																															
Effective Travel	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400	2,450	2,500	2,550	2,600	2,650	2,700	2,750	2,800	2,850	2,900	2,950	3,000	3,050		
L	1,958	2,008	2,058	2,108	2,158	2,208	2,258	2,308	2,358	2,408	2,458	2,508	2,558	2,608	2,658	2,708	2,758	2,808	2,858	2,908	2,958	3,008	3,058	3,108	3,158	3,208	3,258	3,308	3,358	3,408		
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200		
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15		
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34		
KG	24.5	25.1	25.7	26.3	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	41.9		



LD	Motor Connected Left Down																													
Effective Travel	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550
L	458	508	558	608	658	708	758	808	858	908	958	1,008	1,058	1,108	1,158	1,208	1,258	1,308	1,358	1,408	1,458	1,508	1,558	1,608	1,658	1,708	1,758	1,808	1,858	1,908
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	8.6	9	9.5	10	10.5	11	11.4	12	12.4	13	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9	17.3	17.9	18.5	19.1	19.7	20.3	20.9	21.5	22.1	22.7	23.3	23.9

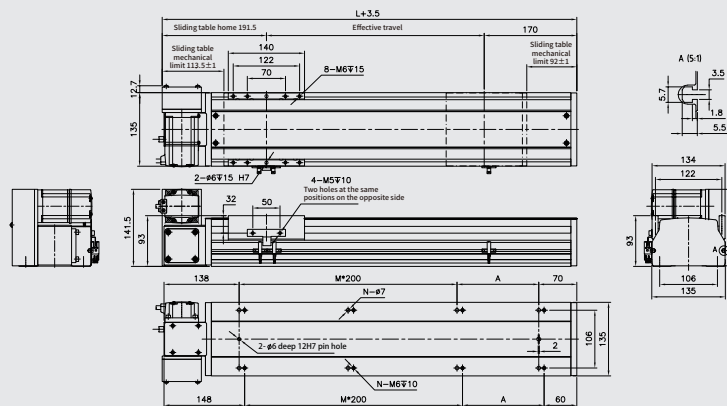
LD	Motor Connected Left Down																															
Effective Travel	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400	2,450	2,500	2,550	2,600	2,650	2,700	2,750	2,800	2,850	2,900	2,950	3,000	3,050		
L	1,958	2,008	2,058	2,108	2,158	2,208	2,258	2,308	2,358	2,408	2,458	2,508	2,558	2,608	2,658	2,708	2,758	2,808	2,858	2,908	2,958	3,008	3,058	3,108	3,158	3,208	3,258	3,308	3,358	3,408		
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200		
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15		
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34		
KG	24.5	25.1	25.7	26.3	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	41.9		



Travel

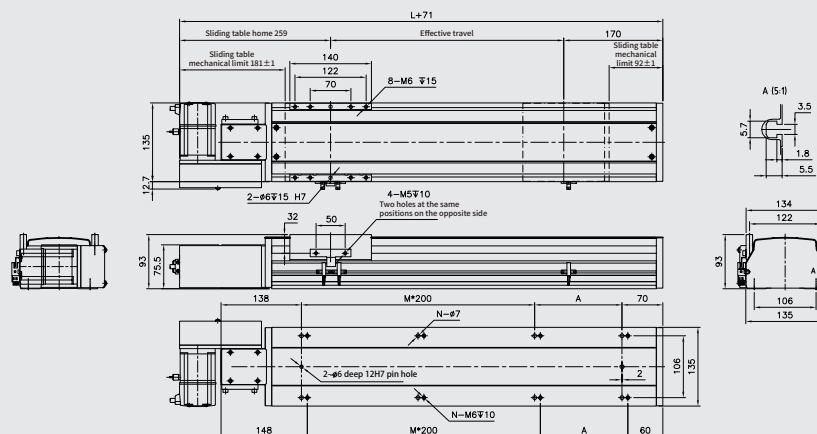
LU	Motor Connected Left Up																			
Effective Travel	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050
L	458	508	558	608	658	708	758	808	858	908	958	1,008	1,058	1,108	1,158	1,208	1,258	1,308	1,358	1,408
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	8.6	9	9.5	10	10.5	11	11.4	12	12.4	13	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9	17.3	17.9

LU	Motor Connected Left Up																			
Effective Travel	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400	2,450	2,500	2,550
L	1,958	2,008	2,058	2,108	2,158	2,208	2,258	2,308	2,358	2,408	2,458	2,508	2,558	2,608	2,658	2,708	2,758	2,808	2,858	2,908
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	13	13	13
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	30	30	30
KG	24.5	25.1	25.7	26.3	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9



R	Motor Connected on the Right																			
Effective Travel	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050
L	458	508	558	608	658	708	758	808	858	908	958	1,008	1,058	1,108	1,158	1,208	1,258	1,308	1,358	1,408
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	8.6	9	9.5	10	10.5	11	11.4	12	12.4	13	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9	17.3	17.9

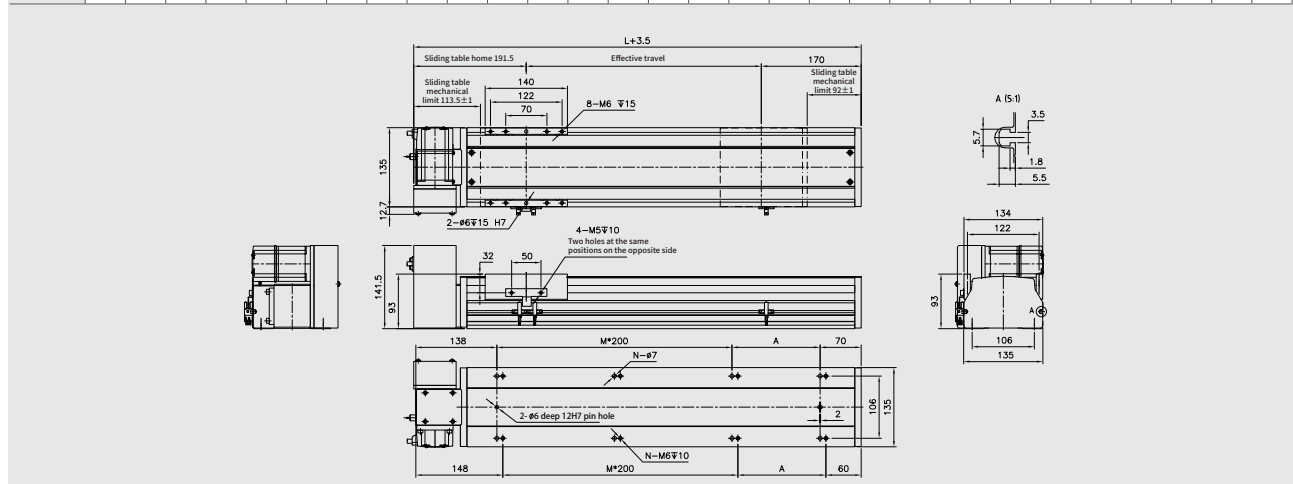
R	Motor Connected on the Right																			
Effective Travel	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400	2,450	2,500	2,550
L	1,958	2,008	2,058	2,108	2,158	2,208	2,258	2,308	2,358	2,408	2,458	2,508	2,558	2,608	2,658	2,708	2,758	2,808	2,858	2,908
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	13	13	13
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	30	30	30
KG	24.5	25.1	25.7	26.3	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9



RD	Motor Connected Right Down																													
Effective Travel	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550
L	458	508	558	608	658	708	758	808	858	908	958	1,008	1,058	1,108	1,158	1,208	1,258	1,308	1,358	1,408	1,458	1,508	1,558	1,608	1,658	1,708	1,758	1,808	1,858	1,908
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	8.6	9	9.5	10	10.5	11	11.4	12	12.4	13	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9	17.3	17.9	18.5	19.1	19.7	20.3	20.9	21.5	22.1	22.7	23.3	23.8

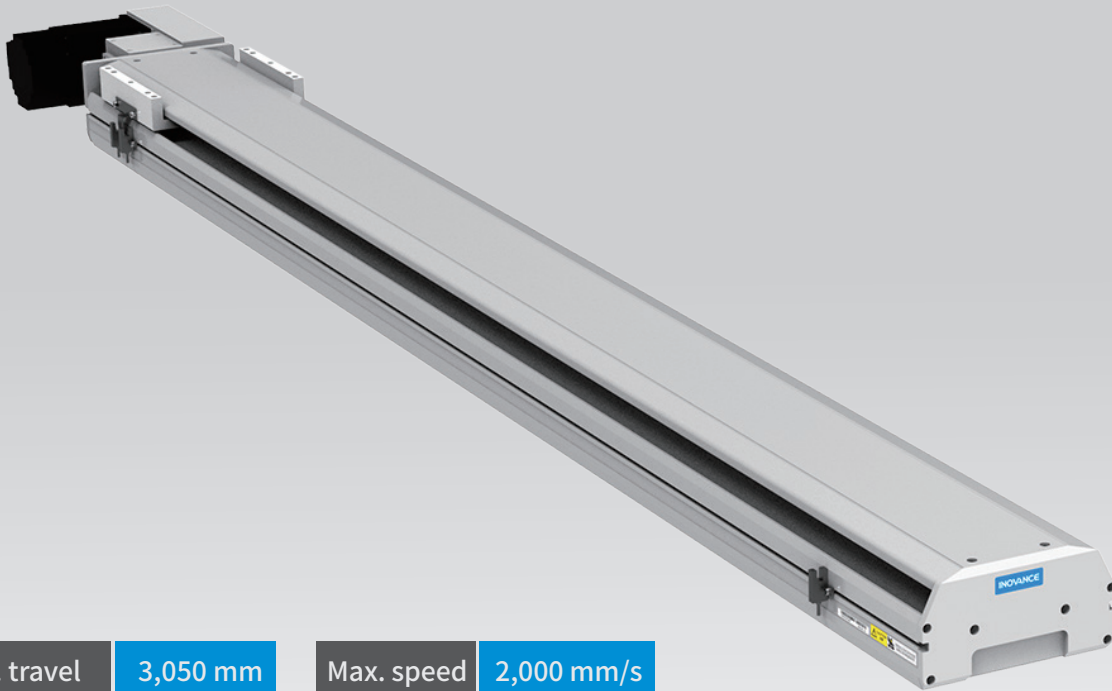
[illegible]

RU	Motor Connected Right Up																																				
Effective Travel	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400	2,450	2,500	2,550	2,600	2,650	2,700	2,750	2,800	2,850	2,900	2,950	3,000	3,050							
L	1,958	2,008	2,058	2,108	2,158	2,208	2,258	2,308	2,358	2,408	2,458	2,508	2,558	2,608	2,658	2,708	2,758	2,808	2,858	2,908	2,958	3,008	3,058	3,108	3,158	3,208	3,258	3,308	3,358	3,408							
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200							
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15							
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34							
KG	24.5	25.1	25.7	26.3	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	41.9							



LB 17H

Standard Belt-Driven Sliding Table Electric Cylinder



Max. travel 3,050 mm

Max. speed 2,000 mm/s

Motor power 400 W

Belt width 30 mm

Linear slide rail 20 x 15 - 2

Model Description

L B 17H - 40 R 600 - N 3 - 40 B - K 3 - VP - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭

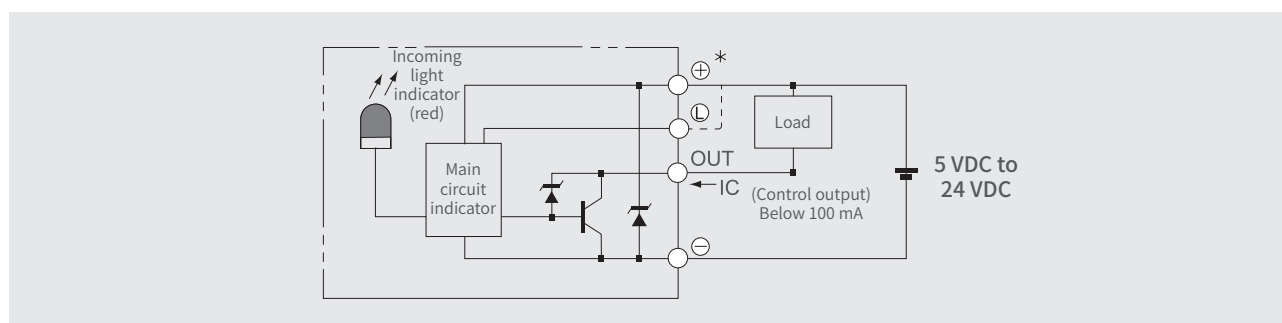
① Series number L	⑤ Motor position L: Motor connected on the left R: Motor connected on the right LU: Motor connected left up RU: Motor connected right up LD: Motor connected left down RD: Motor connected right down	⑨ Motor power 40: 400 W	
② Cylinder type B: Belt semi-closed		⑩ Brake None: No brake B: Brake	⑪ Reducer providing None: Configured by Inovance K: Provided by customer
③ Width 17: 170 mm		⑫ Reduction ratio 3:3 5:5	
④ Lead 40: 40 mm 100: 100 mm		⑬ Drive type VP: Standard SV660P drive VN: Standard SV660N drive	
	⑥ Travel 50 mm to 3,050 mm Interval of 50 mm	⑭ Customization	
	⑦ Sensor type N: NPN sensor P: PNP sensor		
	⑧ Sensor quantity N: No sensor 1: 1 2: 2 3: 3		

Basic Parameters

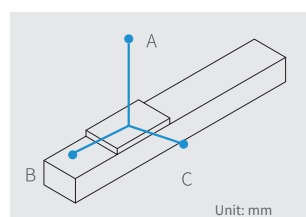
Item		Specification
Repeatability (mm)		± 0.04
Lead (mm)		40
Max. Speed (mm/s)		2,000
Max. Load Capacity	Horizontal Axis (kg)	45
	Vertical Axis (kg)	
Rated Force (N)		204
Standard Travel (mm)		50 mm to 3,050 mm, with an interval of 50 mm
Power of AC Servo Motor (W)		400
Belt Width (mm)		30
High-Stiffness Linear Slide Rail (mm)		W20 x H15
Origin Sensor	External	SGT-NH(NPN)/SGT-PH(PNP)

Note: The motor acceleration/deceleration is set to 0.4s.

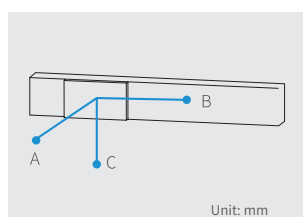
Sensor Connection Diagram



Permissible Load Torque

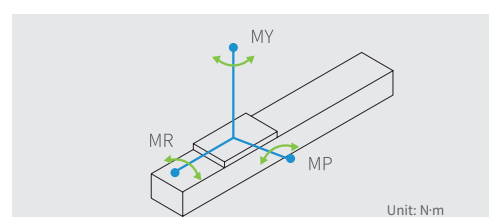


Horizontal Mounting	A	B	C
10 kg	2,942	1,133	1,033
20 kg	1,430	544	498
30 kg	926	350	320
45 kg	588	219	210



Backplate Mounting	A	B	C
15 kg	676	742	1,933
25 kg	390	428	1,127
35 kg	269	294	781
45 kg	201	219	588

Static Allowable Load Inertia



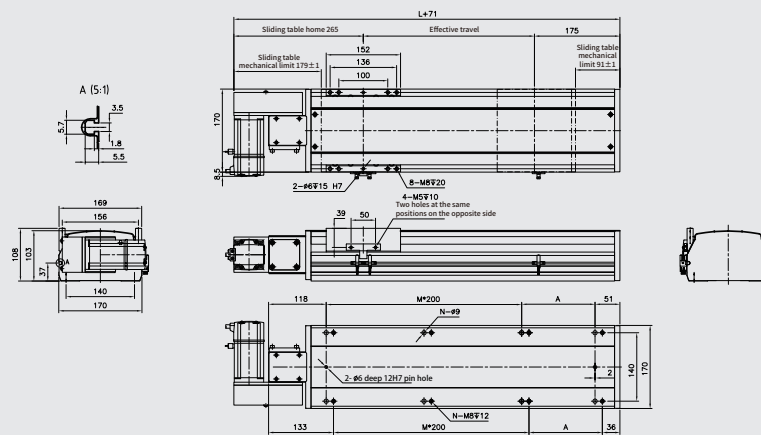
MY	1,032
MP	1,034
MR	908

- Data in the torque table specifies the maximum allowable offset distance of the gravity.
- Under normal use in compliance with the specifications in the product catalogs, ensure that the lifetime is 10,000 km.
- Inverted mounting fails to comply with the standard specifications. If required, contact our business personnel.

Travel

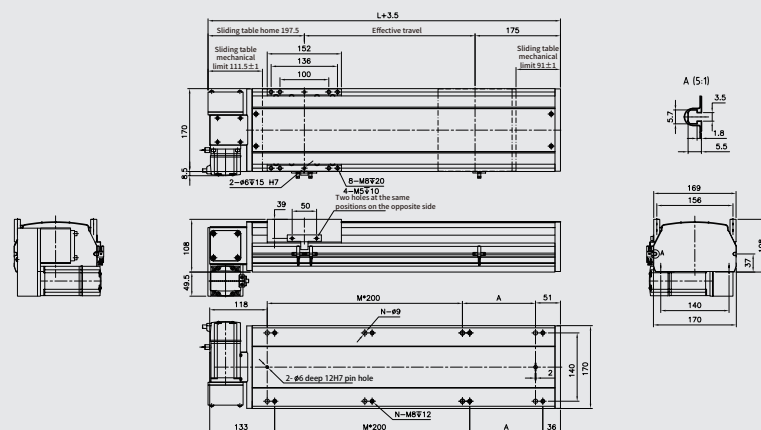
L	Motor Connected on the Left																													
Effective Travel	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550
L	469	519	569	619	669	719	769	819	869	919	969	1,019	1,069	1,119	1,169	1,219	1,269	1,319	1,369	1,419	1,469	1,519	1,569	1,619	1,669	1,719	1,769	1,819	1,869	1,919
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	12	13.8	14.6	15.4	16.1	16.9	17.7	18.5	19.2	20	20.8	21.6	22.3	23.1	23.9	24.7	25.4	26.2	27	27.8	28.6	29.4	30.2	31	31.8	32.6	33.4	34.2	35	35.8

L	Motor Connected on the Left																															
Effective Travel	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400	2,450	2,500	2,550	2,600	2,650	2,700	2,750	2,800	2,850	2,900	2,950	3,000	3,050		
L	1,969	2,019	2,069	2,119	2,169	2,219	2,269	2,319	2,369	2,419	2,469	2,519	2,569	2,619	2,669	2,719	2,769	2,819	2,869	2,919	2,969	3,019	3,069	3,119	3,169	3,219	3,269	3,319	3,369	3,419		
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50		
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16		
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36		
KG	36.6	37.4	38.2	39	39.8	40.6	41.4	42.2	43	43.8	44.6	45.4	46.2	47	47.8	48.6	49.4	50.2	51	51.8	52.6	53.4	54.2	55	55.8	56.6	57.4	58.2	59	59.8		



LD	Motor Connected Left Down																														
Effective Travel	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550	
L	469	519	569	619	669	719	769	819	869	919	969	1,019	1,069	1,119	1,169	1,219	1,269	1,319	1,369	1,419	1,469	1,519	1,569	1,619	1,669	1,719	1,769	1,819	1,869	1,919	
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	
KG	12	13.8	14.6	15.4	16.1	16.9	17.7	18.5	19.2	20	20.8	21.6	22.3	23.1	23.9	24.7	25.4	26.2	27	27.8	28.6	29.4	30.2	31	31.8	32.6	33.4	34.2	35	35.8	

LD	Motor Connected Left Down																														
Effective Travel	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400	2,450	2,500	2,550	2,600	2,650	2,700	2,750	2,800	2,850	2,900	2,950	3,000	3,050	
L	1,969	2,019	2,069	2,119	2,169	2,219	2,269	2,319	2,369	2,419	2,469	2,519	2,569	2,619	2,669	2,719	2,769	2,819	2,869	2,919	2,969	3,019	3,069	3,119	3,169	3,219	3,269	3,319	3,369	3,419	
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16	
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36	
KG	36.6	37.4	38.2	39	39.8	40.6	41.4	42.2	43	43.8	44.6	45.4	46.2	47	47.8	48.6	49.4	50.2	51	51.8	52.6	53.4	54.2	55	55.8	56.6	57.4	58.2	59	59.8	



LS Series

LSC Series

GS Series

LEB Series

LB Series

LBC Series

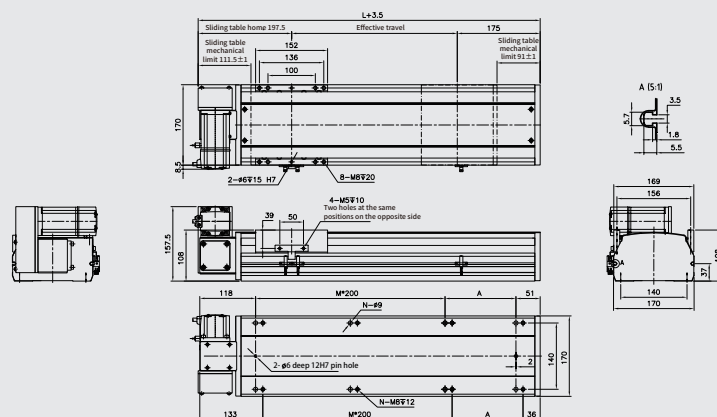
KS Series

LY Series

GY Series

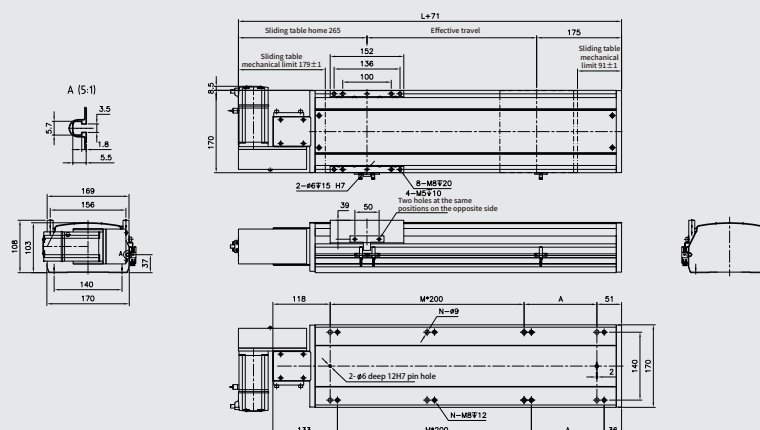
LU	Motor Connected Left Up																													
Effective Travel	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550
L	469	519	569	619	669	719	769	819	869	919	969	1,019	1,069	1,119	1,169	1,219	1,269	1,319	1,369	1,419	1,469	1,519	1,569	1,619	1,669	1,719	1,769	1,819	1,869	1,919
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	6	7	7	7	8	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	16	18	18	18	20	20	20
KG	12	13.8	14.6	15.4	16.1	16.9	17.7	18.5	19.2	20	20.8	21.6	22.3	23.1	23.9	24.7	25.4	26.2	27	27.8	28.6	29.4	30.2	31	31.8	32.6	33.4	34.2	35	35.8

LU	Motor Connected Left Up																													
Effective Travel	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400	2,450	2,500	2,550	2,600	2,650	2,700	2,750	2,800	2,850	2,900	2,950	3,000	3,050
L	1,969	2,019	2,069	2,119	2,169	2,219	2,269	2,319	2,369	2,419	2,469	2,519	2,569	2,619	2,669	2,719	2,769	2,819	2,869	2,919	2,969	3,019	3,069	3,119	3,169	3,219	3,269	3,319	3,369	3,419
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	10	11	11	11	12	12	12	13	13	13	14	14	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	24	26	26	26	26	28	28	28	30	30	30	32	32	32	32	34	34	34	34	34	36
KG	36.6	37.4	38.2	39	39.8	40.6	41.4	42.2	43	43.8	44.6	45.4	46.2	47	47.8	48.6	49.4	50.2	51	51.8	52.6	53.4	54.2	55	55.8	56.6	57.4	58.2	59	59.8



R	Motor Connected on the Right																													
Effective Travel	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550
L	469	519	569	619	669	719	769	819	869	919	969	1,019	1,069	1,119	1,169	1,219	1,269	1,319	1,369	1,419	1,469	519	1,569	1,619	1,669	1,719	1,769	1,819	1,869	1,919
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	12	13.8	14.6	15.4	16.1	16.9	17.7	18.5	19.2	20	20.8	21.6	22.3	23.1	23.9	24.7	25.4	26.2	27	27.8	28.6	29.4	30.2	31	31.8	32.6	33.4	34.2	35	35.35

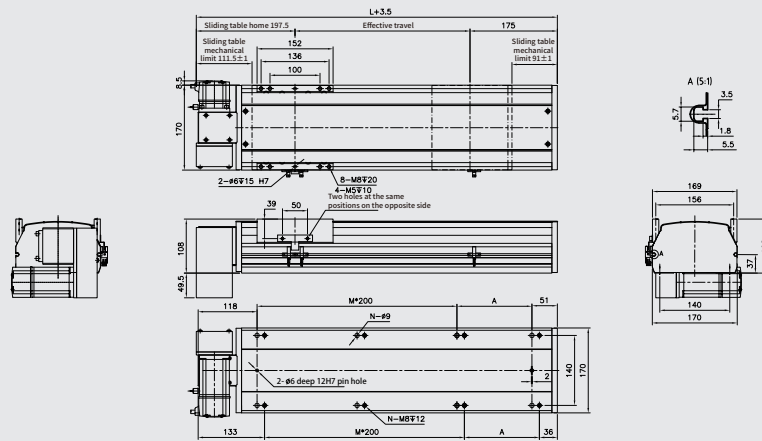
R	Motor Connected on the Right																													
Effective Travel	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400	2,450	2,500	2,550	2,600	2,650	2,700	2,750	2,800	2,850	2,900	2,950	3,000	3,050
L	1,969	2,019	2,069	2,119	2,169	2,219	2,269	2,319	2,369	2,419	2,469	2,519	2,569	2,619	2,669	2,719	2,769	2,819	2,869	2,919	2,969	3,019	3,069	3,119	3,169	3,219	3,269	3,319	3,369	3,419
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	36.6	37.4	38.2	39	39.8	40.6	41.4	42.2	43	43.8	44.6	45.4	46.2	47	47.8	48.6	49.4	50.2	51	51.8	52.6	53.4	54.2	55	55.8	56.6	57.4	58.2	59	59.8



Travel

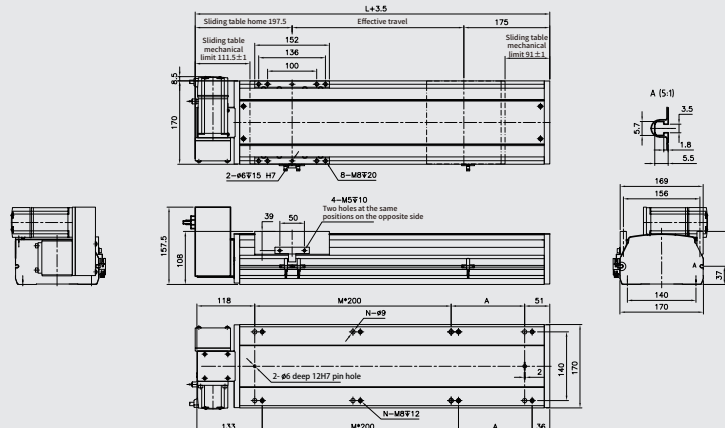
RD	Motor Connected Right Down																															
Effective Travel	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550		
L	469	519	569	619	669	719	769	819	869	919	969	1,019	1,069	1,119	1,169	1,219	1,269	1,319	1,369	1,419	1,469	1,519	1,569	1,619	1,669	1,719	1,769	1,819	1,869	1,919		
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150		
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8		
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20		
KG	12	13.8	14.6	15.4	16.1	16.9	17.7	18.5	19.2	20	20.8	21.6	22.3	23.1	23.9	24.7	25.4	26.2	27	27.8	28.6	29.4	30.2	31	31.8	32.6	33.4	34.2	35	35.8		

RD	Motor Connected Right Down																													
Effective Travel	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400	2,450	2,500	2,550	2,600	2,650	2,700	2,750	2,800	2,850	2,900	2,950	3,000	3,050
L	1,969	2,019	2,069	2,119	2,169	2,219	2,269	2,319	2,369	2,419	2,469	2,519	2,569	2,619	2,669	2,719	2,769	2,819	2,869	2,919	2,969	3,019	3,069	3,119	3,169	3,219	3,269	3,319	3,369	3,419
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	36.6	37.4	38.2	39	39.8	40.6	41.4	42.2	43	43.8	44.6	45.4	46.2	47	47.8	48.6	49.4	50.2	51	51.8	52.6	53.4	54.2	55	55.8	56.6	57.4	58.2	59	59.8



RU	Motor Connected Right Up																													
Effective Travel	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550
L	469	519	569	619	669	719	769	819	869	919	969	1,019	1,069	1,119	1,169	1,219	1,269	1,319	1,369	1,419	1,469	1,519	1,569	1,619	1,669	1,719	1,769	1,819	1,869	1,919
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	12	13.8	14.6	15.4	16.1	16.9	17.7	18.5	19.2	20	20.8	21.6	22.3	23.1	23.9	24.7	25.4	26.2	27	27.8	28.6	29.4	30.2	31	31.8	32.6	33.4	34.2	35	35.8

RU	Motor Connected Right Up																													
Effective Travel	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400	2,450	2,500	2,550	2,600	2,650	2,700	2,750	2,800	2,850	2,900	2,950	3,000	3,050
L	1,969	2,019	2,069	2,119	2,169	2,219	2,269	2,319	2,369	2,419	2,469	2,519	2,569	2,619	2,669	2,719	2,769	2,819	2,869	2,919	2,969	3,019	3,069	3,119	3,169	3,219	3,269	3,319	3,369	3,419
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	36.6	37.4	38.2	39	39.8	40.6	41.4	42.2	43	43.8	44.6	45.4	46.2	47	47.8	48.6	49.4	50.2	51	51.8	52.6	53.4	54.2	55	55.8	56.6	57.4	58.2	59	59.8



LB 22H

Standard Belt-Driven Sliding Table
Electric Cylinder

Max. travel 3,500 mm

Max. speed 2,000 mm/s

Motor power 750 W

Belt width 50 mm

Linear slide rail 23 x 18 - 2

Model Description

L **B** **22H** - **40** **R** **600** - **N** **3** - **75** **B** - **K** **3** - **VP** - **XX**

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭

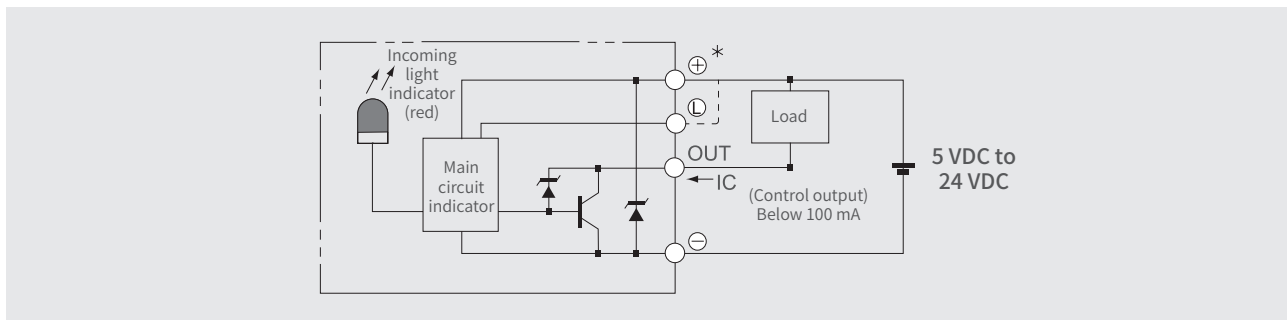
① Series number L	⑤ Motor position L: Motor connected on the left R: Motor connected on the right LU: Motor connected left up RU: Motor connected right up LD: Motor connected left down RD: Motor connected right down ⑥ Travel 50 mm to 3,500 mm Interval of 50 mm ⑦ Sensor type N: NPN sensor P: PNP sensor ⑧ Sensor quantity N: No sensor 1: 1 2: 2 3: 3	⑨ Motor power 75: 750 W	
② Cylinder type B: Belt semi-closed		⑩ Brake None: No brake B: Brake	⑪ Reducer providing None: Configured by Inovance K: Provided by customer
③ Width 22: 220 mm		⑫ Reduction ratio 3:3 5:5	
④ Lead 40: 40 mm 100: 100 mm		⑬ Drive type VP: Standard SV660P drive VN: Standard SV660N drive	
		⑭ Customization	

Basic Parameters

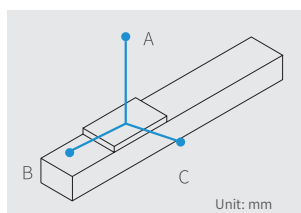
Item		Specification
Repeatability (mm)		± 0.04
Lead (mm)		40
Max. Speed (mm/s)		2,000
Max. Load Capacity	Horizontal Axis (kg)	85
	Vertical Axis (kg)	
Rated Force (N)		367
Standard Travel (mm)		100 mm to 3,500 mm, with an interval of 50 mm
Power of AC Servo Motor (W)		750
Belt Width (mm)		50
High-Stiffness Linear Slide Rail (mm)		W23 x H18
Origin Sensor	External	SGT-NH(NPN)/SGT-PH(PNP)

Note: The motor acceleration/deceleration is set to 0.4s.

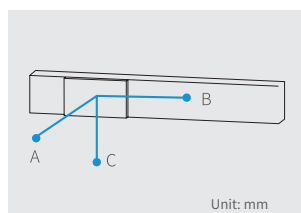
Sensor Connection Diagram



Permissible Load Torque

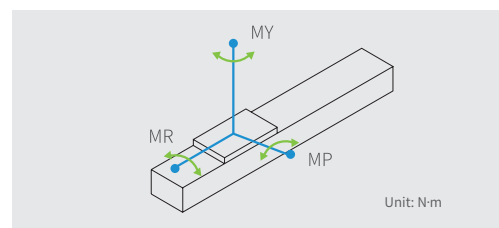


Horizontal Mounting	A	B	C
45 kg	1,588	600	349
65 kg	1,052	328	285
85 kg	768	281	206



Backplate Mounting	A	B	C
40 kg	500	685	1,085
60 kg	315	430	1,152
85 kg	206	281	768

Static Allowable Load Inertia



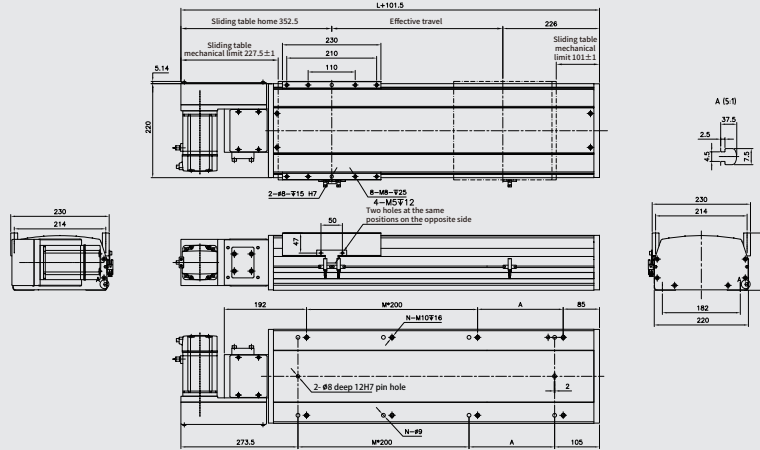
MY	2,252
MP	2,052
MR	1,810

- Data in the torque table specifies the maximum allowable offset distance of the gravity.
- Under normal use in compliance with the specifications in the product catalogs, ensure that the lifetime is 10,000 km.
- Inverted mounting fails to comply with the standard specifications. If required, contact our business personnel.

Travel

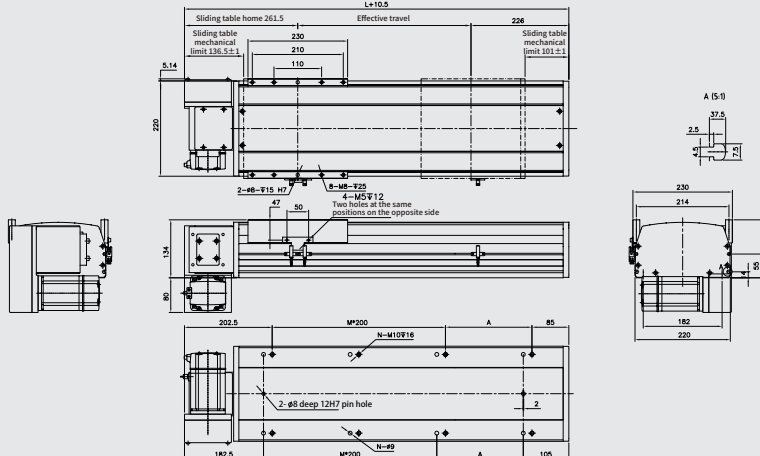
L	Motor Connected on the Left																															
Effective Travel	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550	1,550	
L	577	627	677	727	777	827	877	927	977	1,027	1,077	1,127	1,177	1,227	1,277	1,327	1,377	1,427	1,477	1,527	1,577	1,627	1,677	1,727	1,777	1,827	1,877	1,927	1,977	2,027	2,027	
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	150	
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	
KG	30	31.2	32.4	33.6	34.8	36	37.2	38.4	39.6	40.8	42	43.2	44.4	45.6	46.8	48	49.2	50.4	51.6	52.8	54	55.2	56.4	59.2	59.8	60	61.2	62.4	63.6	64.8	64.8	

L	Motor Connected on the Left																													
Effective Travel	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400	2,450	2,500	2,550	2,600	2,650	2,700	2,750	2,800	2,850	2,900	2,950	3,000	3,050
L	2,077	2,127	2,177	2,227	2,277	2,327	2,377	2,427	2,477	2,527	2,577	2,627	2,677	2,727	2,777	2,827	2,877	2,927	2,977	3,027	3,077	3,127	3,177	3,227	3,277	3,327	3,377	3,427	3,477	3,527
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	66	67.2	68.4	69.6	70.8	72	73.2	74.4	75.6	76.8	78	79.2	80.4	81.6	82.8	84	85.2	86.4	87.6	88.8	90	91.2	92.4	93.6	94.8	96	97.2	98.4	99.6	100.8



LD	Motor Connected Left Down																															
Effective Travel	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550	1,550	
L	577	627	677	727	777	827	877	927	977	1,027	1,077	1,127	1,177	1,227	1,277	1,327	1,377	1,427	1,477	1,527	1,577	1,627	1,677	1,727	1,777	1,827	1,877	1,927	1,977	2,027	2,027	
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	150	
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	
KG	30	31.2	32.4	33.6	34.8	36	37.2	38.4	39.6	40.8	42	43.2	44.4	45.6	46.8	48	49.2	50.4	51.6	52.8	54	55.2	56.4	59.2	59.8	60	61.2	62.4	63.6	64.8	64.8	

LD	Motor Connected Left Down																													
Effective Travel	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400	2,450	2,500	2,550	2,600	2,650	2,700	2,750	2,800	2,850	2,900	2,950	3,000	3,050
L	2,077	2,127	2,177	2,227	2,277	2,327	2,377	2,427	2,477	2,527	2,577	2,627	2,677	2,727	2,777	2,827	2,877	2,927	2,977	3,027	3,077	3,127	3,177	3,227	3,277	3,327	3,377	3,427	3,477	3,527
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	66	67.2	68.4	69.6	70.8	72	73.2	74.4	75.6	76.8	78	79.2	80.4	81.6	82.8	84	85.2	86.4	87.6	88.8	90	91.2	92.4	93.6	94.8	96	97.2	98.4	99.6	100.8



Travel

LS Series

LSC Series

GS Series

LEB Series

LB Series

LBC Series

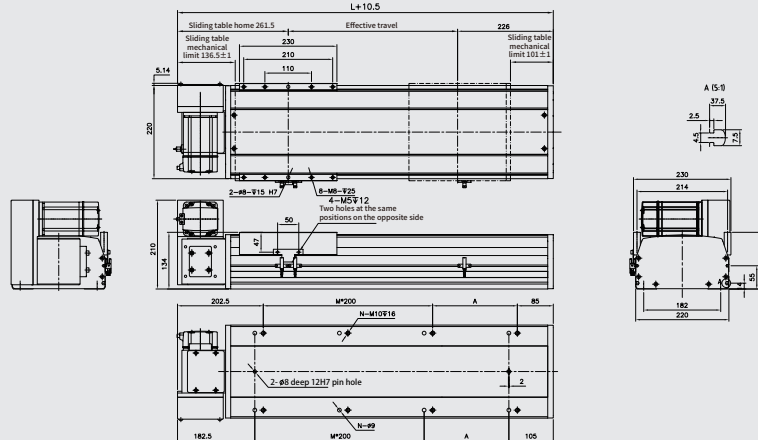
KS Series

LY Series

GV Series

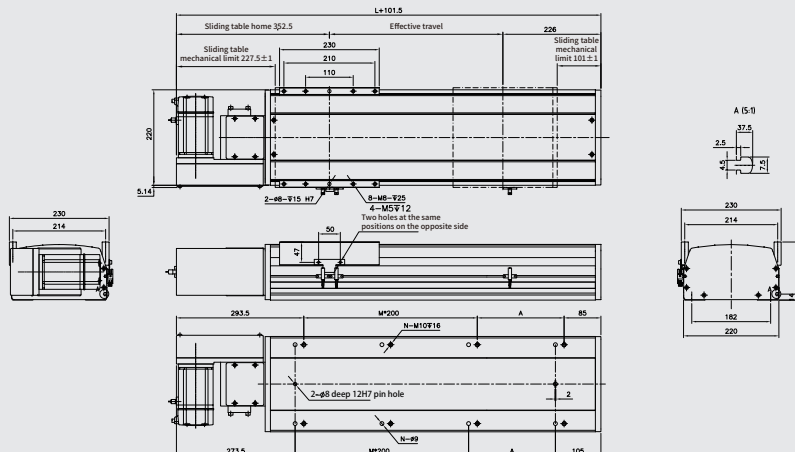
LU	Motor Connected Left Up																															
Effective Travel	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550	1,550	
L	577	627	677	727	777	827	877	927	977	1,027	1,077	1,127	1,177	1,227	1,277	1,327	1,377	1,427	1,477	1,527	1,577	1,627	1,677	1,727	1,777	1,827	1,877	1,927	1,977	2,027	2,027	
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	150	
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	
KG	30	31.2	32.4	33.6	34.8	36	37.2	38.4	39.6	40.8	42	43.2	44.4	45.6	46.8	48	49.2	50.4	51.6	52.8	54	55.2	56.4	59.2	59.8	60	61.2	62.4	63.6	64.8	64.8	

LU	Motor Connected Left Up																															
Effective Travel	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400	2,450	2,500	2,550	2,600	2,650	2,700	2,750	2,800	2,850	2,900	2,950	3,000	3,050		
L	2,077	2,127	2,177	2,227	2,277	2,327	2,377	2,427	2,477	2,527	2,577	2,627	2,677	2,727	2,777	2,827	2,877	2,927	2,977	3,027	3,077	3,127	3,177	3,227	3,277	3,327	3,377	3,427	3,477	3,527		
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50		
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16		
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36		
KG	66	67.2	68.4	69.6	70.8	72	73.2	74.4	75.6	76.8	78	79.2	80.4	81.6	82.8	84	85.2	86.4	87.6	88.8	90	91.2	92.4	93.6	94.8	96	97.2	98.4	99.6	100.8		



R	Motor Connected on the Right																														
Effective Travel	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550	1,550
L	577	627	677	727	777	827	877	927	977	1,027	1,077	1,127	1,177	1,227	1,277	1,327	1,377	1,427	1,477	1,527	1,577	1,627	1,677	1,727	1,777	1,827	1,877	1,927	1,977	2,027	2,027
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	150
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20
KG	30	31.2	32.4	33.6	34.8	36	37.2	38.4	39.6	40.8	42	43.2	44.4	45.6	46.8	48	49.2	50.4	51.6	52.8	54	55.2	56.4	59.2	59.8	60	61.2	62.4	63.6	64.8	64.8

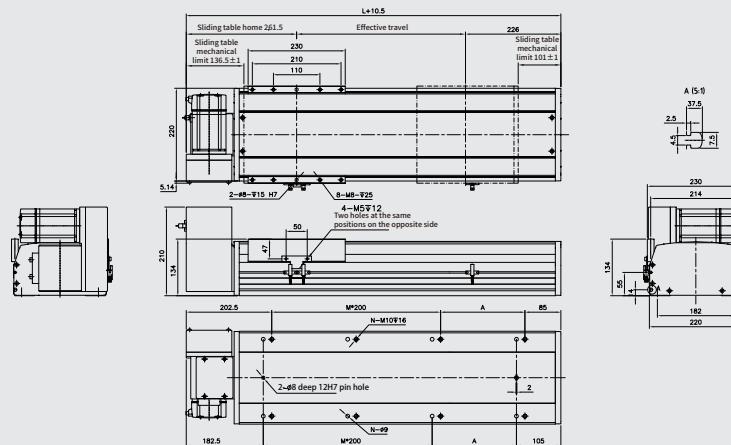
R	Motor Connected on the Right																															
Effective Travel	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400	2,450	2,500	2,550	2,600	2,650	2,700	2,750	2,800	2,850	2,900	2,950	3,000	3,050		
L	2,077	2,127	2,177	2,227	2,277	2,327	2,377	2,427	2,477	2,527	2,577	2,627	2,677	2,727	2,777	2,827	2,877	2,927	2,977	3,027	3,077	3,127	3,177	3,227	3,277	3,327	3,377	3,427	3,477	3,527		
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50		
M	8	9	9	9	9	10	10	10	10	10	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16		
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36		
KG	66	67.2	68.4	69.6	70.8	72	73.2	74.4	75.6	76.8	78	79.2	80.4	81.6	82.8	84	85.2	86.4	87.6	88.8	90	91.2	92.4	93.6	94.8	96	97.2	98.4	99.6	100.8		



Travel

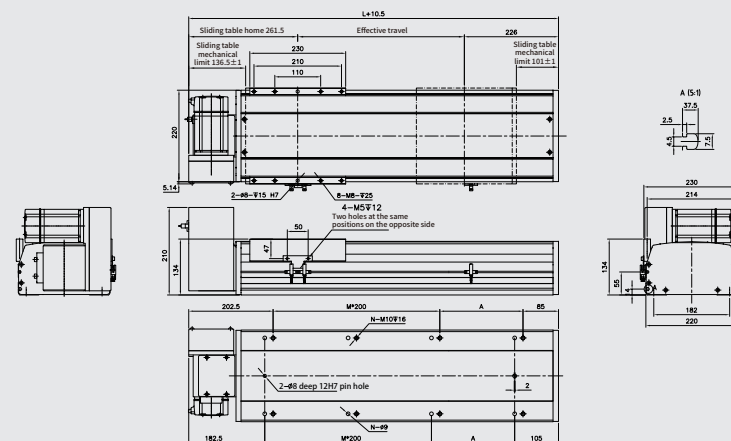
RD	Motor Connected Right Down																															
Effective Travel	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550	1,550	
L	577	627	677	727	777	827	877	927	977	1,027	1,077	1,127	1,177	1,227	1,277	1,327	1,377	1,427	1,477	1,527	1,577	1,627	1,677	1,727	1,777	1,827	1,877	1,927	1,977	2,027	2,027	
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	150	
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	
KG	30	31.2	32.4	33.6	34.8	36	37.2	38.4	39.6	40.8	42	43.2	44.4	45.6	46.8	48	49.2	50.4	51.6	52.8	54	55.2	56.4	59.2	59.8	60	61.2	62.4	63.6	64.8	64.8	

RD	Motor Connected Right Down																													
Effective Travel	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400	2,450	2,500	2,550	2,600	2,650	2,700	2,750	2,800	2,850	2,900	2,950	3,000	3,050
L	2,077	2,127	2,177	2,227	2,277	2,327	2,377	2,427	2,477	2,527	2,577	2,627	2,677	2,727	2,777	2,827	2,877	2,927	2,977	3,027	3,077	3,127	3,177	3,227	3,277	3,327	3,377	3,427	3,477	3,527
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	66	67.2	68.4	69.6	70.8	72	73.2	74.4	75.6	76.8	78	79.2	80.4	81.6	82.8	84	85.2	86.4	87.6	88.8	90	91.2	92.4	93.6	94.8	96	97.2	98.4	99.6	100.8



RU	Motor Connected Right Up																														
Effective Travel	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550	1,550
L	577	627	677	727	777	827	877	927	977	1,027	1,077	1,127	1,177	1,227	1,277	1,327	1,377	1,427	1,477	1,527	1,577	1,627	1,677	1,727	1,777	1,827	1,877	1,927	1,977	2,027	2,027
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	150
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20
KG	30	31.2	32.4	33.6	34.8	36	37.2	38.4	39.6	40.8	42	43.2	44.4	45.6	46.8	48	49.2	50.4	51.6	52.8	54	55.2	56.4	59.2	59.8	60	61.2	62.4	63.6	64.8	64.8

RU	Motor Connected Right Up																													
Effective Travel	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400	2,450	2,500	2,550	2,600	2,650	2,700	2,750	2,800	2,850	2,900	2,950	3,000	3,050
L	2,077	2,127	2,177	2,227	2,277	2,327	2,377	2,427	2,477	2,527	2,577	2,627	2,677	2,727	2,777	2,827	2,877	2,927	2,977	3,027	3,077	3,127	3,177	3,227	3,277	3,327	3,377	3,427	3,477	3,527
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	66	67.2	68.4	69.6	70.8	72	73.2	74.4	75.6	76.8	78	79.2	80.4	81.6	82.8	84	85.2	86.4	87.6	88.8	90	91.2	92.4	93.6	94.8	96	97.2	98.4	99.6	100.8



Sliding Table Series

LBC Series

Dust Free Belt-Driven Electric Cylinder

LS Series

LSC Series

GS Series

LEB Series

LB Series

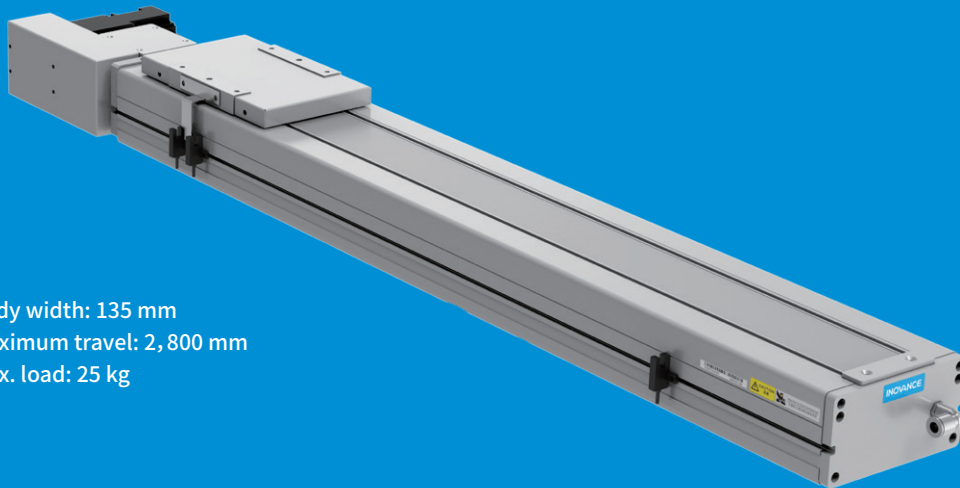
LBC Series

KS Series

LY Series

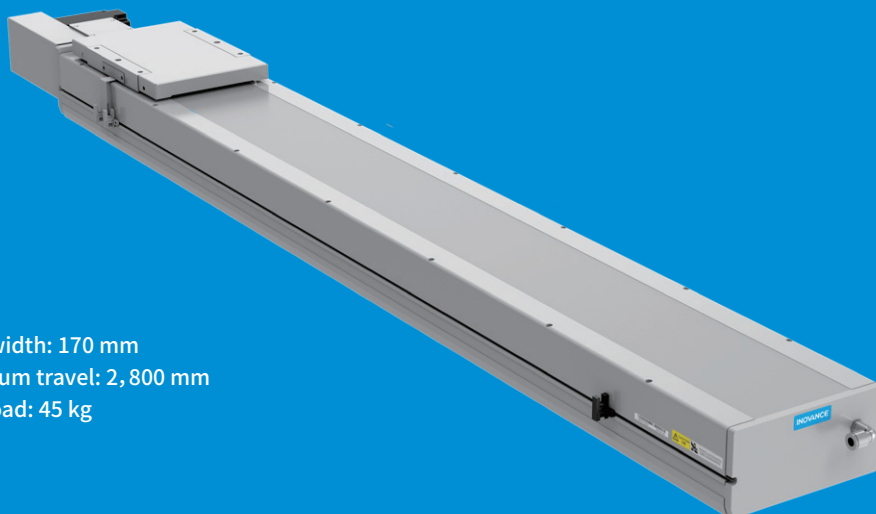
GY Series

Medium LBC14



Body width: 135 mm
Maximum travel: 2,800 mm
Max. load: 25 kg

Large LBC17



Body width: 170 mm
Maximum travel: 2,800 mm
Max. load: 45 kg

Specifications Index

Track-Embedded Lead Screw Electric Cylinder

Working Environment	Transmission Mode	Specification	Motor Power	Body Width	Repeatability	Lead Screw Specification		Max. Load Capacity	
						Width	Lead	Horizontal Axis	Vertical Axis
Dustfree environment	Timing belt	LBC14	200 W	135	±0.04	25	40	25	
		LBC17	400 W	170	±0.04	30	40	45	

Specification	Max. Speed ¹	Standard Travel and Max. Operating Speed																			
		150	300	600	900	1,050	1,200	1,350	1,500	1,650	1,800	2,300	2,600	2,800	3,050	3,150	3,400	3,500	3,600	3,900	
LBC14	2,000	2,000																			
LBC17	2,000	2,000																			

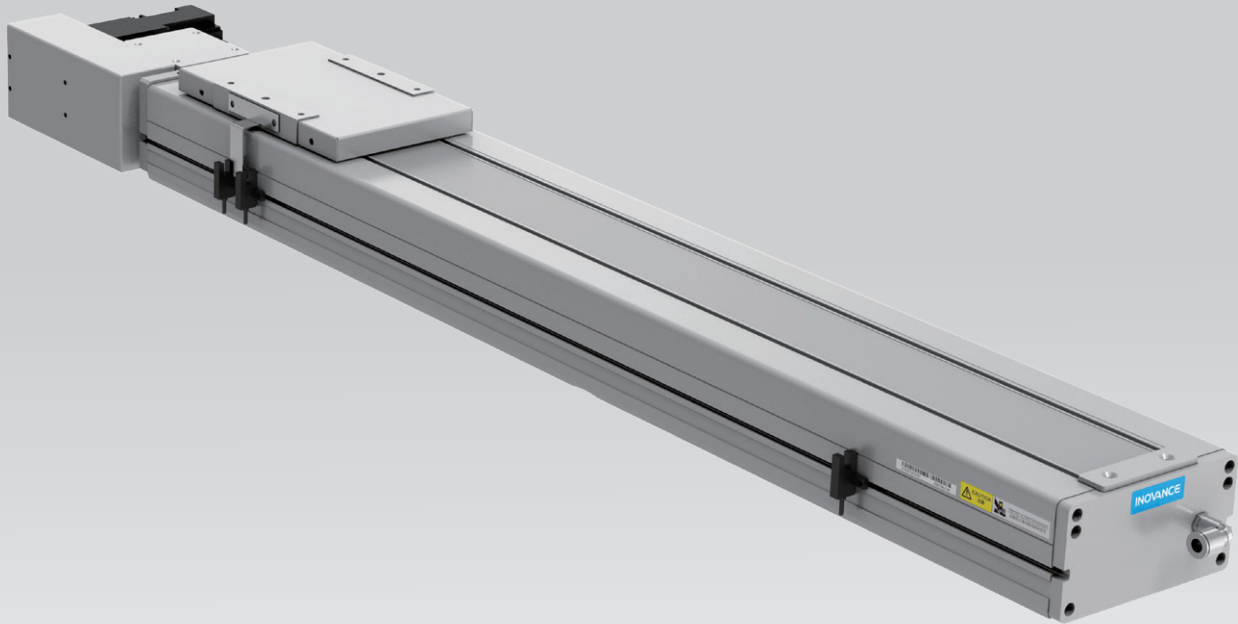
Speed

Note 1: The maximum speed (mm/s) is set based on the rated speed of 3,000 rpm of the servo motor.

Note 2: Black numbers in the standard travel columns indicate the maximum safe speeds for corresponding travels. Exceeding the maximum speeds may cause severe resonance in the sliding table.

LBC 14

Dust Free Belt-Driven Electric Cylinder



Max. travel	2,800 mm	Max. speed	2,000 mm/s	
Motor power	200 W	Belt width	25 mm	Linear slide rail 15 x 12.5 - 2

Model Description

L BC 14 - 40 R 600 - N 3 - 40 B - K 3 - VP - XX
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭

① Series number L	⑤ Motor position L: Motor connected on the left R: Motor connected on the right LU: Motor connected left up RU: Motor connected right up LD: Motor connected left down RD: Motor connected right down	⑨ Motor power 20: 200 W 40: 400 W 75: 750 W	
② Cylinder type BC: Belt fully-closed		⑩ Brake None: No brake B: Brake	⑪ Reducer providing None: Configured by Invance K: Provided by customer
③ Width 14: 135 mm	⑥ Travel 50 mm to 2,800 mm Interval of 50 mm	⑫ Reduction ratio 3:3 5:5	
④ Lead 40: 40 mm 50: 50 mm 100: 100 mm	⑦ Sensor type N: NPN sensor P: PNP sensor	⑬ Drive type VP: Standard SV660P drive VN: Standard SV660N drive	⑭ Customization
	⑧ Sensor quantity N: No sensor 1: 1 2: 2 3: 3		

LS Series

LSC Series

GS Series

LEB Series

LB Series

LBC Series

KS Series

LY Series

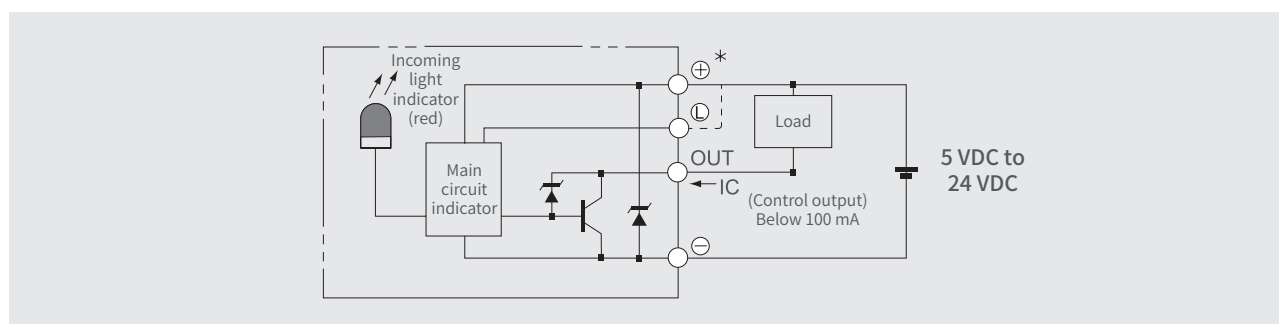
GY Series

Basic Parameters

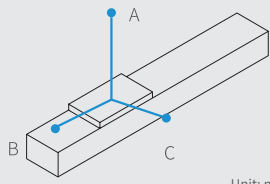
Item		Specification
Repeatability (mm)		± 0.04
Lead (mm)		40
Max. Speed (mm/s)		2,000
Max. Load Capacity	Horizontal Axis (kg) ^(Note 2)	25
	Vertical Axis (kg)	
Rated Force (N)		100
Standard Travel (mm)		50 mm to 2,800 mm, with an interval of 50 mm
Power of AC Servo Motor (W)		200
Belt Width (mm)		25
High-Stiffness Linear Slide Rail (mm)		W15 x H12.5
Origin Sensor	External	SGT-NH(NPN)/SGT-PH(PNP)

Note: The motor acceleration/deceleration is set to 0.4s.

Sensor Connection Diagram

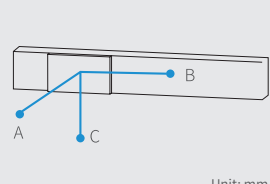


Permissible Load Torque



Unit: mm

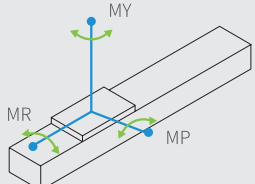
Horizontal Mounting	A	B	C
10 kg	1,794	688	538
20 kg	858	324	253
25 kg	670	251	197



Unit: mm

Backplate Mounting	A	B	C
15 kg	348	446	1,170
18 kg	285	365	961
25 kg	197	251	670

Static Allowable Load Inertia



Unit: N·m

MY	551
MP	552
MR	485

- Data in the torque table specifies the maximum allowable offset distance of the gravity.
- Under normal use in compliance with the specifications in the product catalogs, ensure that the lifetime is 10,000 km.
- For total length exceeding 1,000 m, the steel strip may deform. Therefore, prevent the wall-mounting mode.
- Inverted mounting fails to comply with the standard specifications. If required, contact our business personnel.

Travel

LS Series

LSC Series

GS Series

LEB Series

LB Series

LBC Series

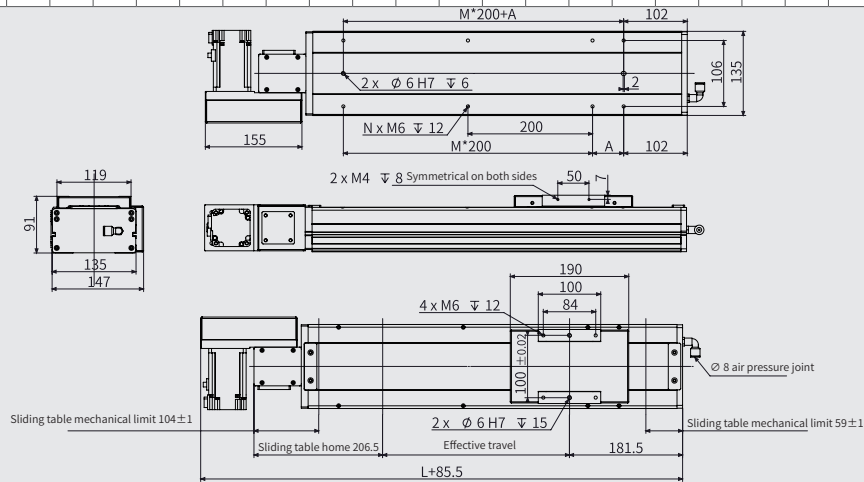
KS Series

LY Series

GV Series

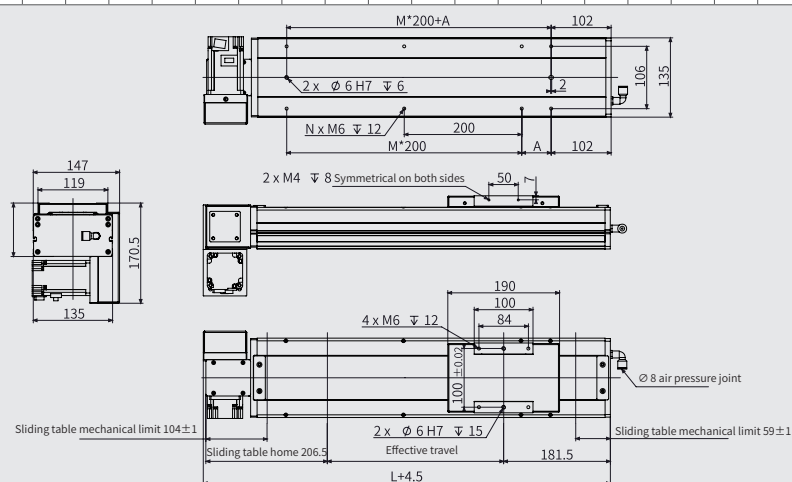
L	Motor Connected on the Left																											
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400
L	438	488	538	588	638	688	738	788	838	888	938	988	1,038	1,088	1,138	1,188	1,238	1,288	1,338	1,388	1,438	1,488	1,538	1,588	1,638	1,688	1,738	1,788
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18
KG	11.2	11.6	12	12.5	13	13.5	14	14.4	15	15.4	16	16.4	16.9	17.4	17.9	18.4	18.9	19.4	19.9	20.3	20.9	21.5	22.1	22.7	23.3	23.9	24.5	25.1

L	Motor Connected on the Left																											
Effective Travel	1,450	1,500	1,550	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400	2,450	2,500	2,550	2,600	2,650	2,700	2,750	2,800
L	1,838	1,888	1,938	1,988	2,038	2,088	2,138	2,188	2,238	2,288	2,338	2,388	2,438	2,488	2,538	2,588	2,638	2,688	2,738	2,788	2,838	2,888	2,938	2,988	3,038	3,088	3,138	3,188
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14
N	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32
KG	25.7	26.3	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	41.9



LD	Motor Connected Left Down																											
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400
L	438	488	538	588	638	688	738	788	838	888	938	988	1,038	1,088	1,138	1,188	1,238	1,288	1,338	1,388	1,438	1,488	1,538	1,588	1,638	1,688	1,738	1,788
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18
KG	11.2	11.6	12	12.5	13	13.5	14	14.4	15	15.4	16	16.4	16.9	17.4	17.9	18.4	18.9	19.4	19.9	20.3	20.9	21.5	22.1	22.7	23.3	23.9	24.5	25.1

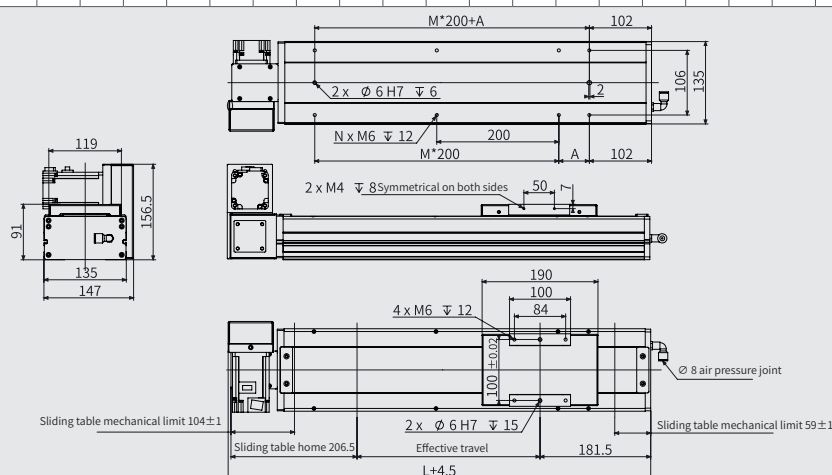
LD	Motor Connected Left Down																											
Effective Travel	1,450	1,500	1,550	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400	2,450	2,500	2,550	2,600	2,650	2,700	2,750	2,800
L	1,838	1,888	1,938	1,988	2,038	2,088	2,138	2,188	2,238	2,288	2,338	2,388	2,438	2,488	2,538	2,588	2,638	2,688	2,738	2,788	2,838	2,888	2,938	2,988	3,038	3,088	3,138	3,188
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14
N	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32
KG	25.7	26.3	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	41.9



Travel

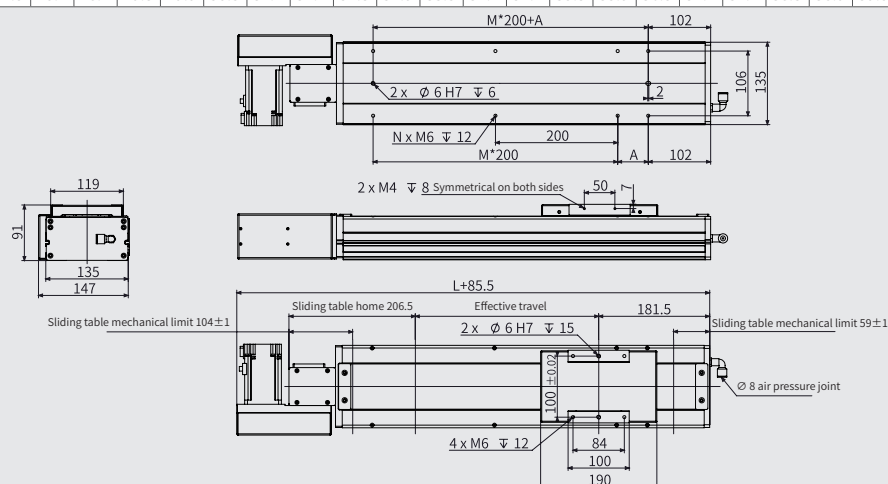
LU	Motor Connected Left Up																							
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200
L	438	488	538	588	638	688	738	788	838	888	938	988	1,038	1,088	1,138	1,188	1,238	1,288	1,338	1,388	1,438	1,488	1,538	1,588
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16
KG	11.2	11.6	12	12.5	13	13.5	14	14.4	15	15.4	16	16.4	16.9	17.4	17.9	18.4	18.9	19.4	19.9	20.3	20.9	21.5	22.1	22.7

LU	Motor Connected Left Up																							
Effective Travel	1,450	1,500	1,550	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400	2,450	2,500	2,550	2,600
L	1,838	1,888	1,938	1,988	2,038	2,088	2,138	2,188	2,238	2,288	2,338	2,388	2,438	2,488	2,538	2,588	2,638	2,688	2,738	2,788	2,838	2,888	2,938	2,988
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13
N	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30
KG	25.7	26.3	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5



R	Motor Connected on the Right																							
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200
L	438	488	538	588	638	688	738	788	838	888	938	988	1,038	1,088	1,138	1,188	1,238	1,288	1,338	1,388	1,438	1,488	1,538	1,588
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16
KG	11.2	11.6	12	12.5	13	13.5	14	14.4	15	15.4	16	16.4	16.9	17.4	17.9	18.4	18.9	19.4	19.9	20.3	20.9	21.5	22.1	22.7

R	Motor Connected on the Right																							
Effective Travel	1,450	1,500	1,550	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400	2,450	2,500	2,550	2,600
L	1,838	1,888	1,938	1,988	2,038	2,088	2,138	2,188	2,238	2,288	2,338	2,388	2,438	2,488	2,538	2,588	2,638	2,688	2,738	2,788	2,838	2,888	2,938	2,988
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13
N	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30
KG	25.7	26.3	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5



Travel

LS Series

LSC Series

GS Series

LEB Series

LB Series

LBC Series

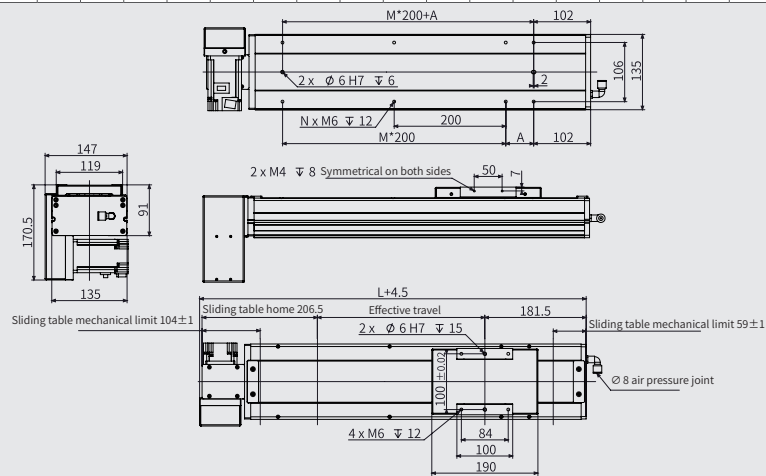
KS Series

LY Series

GV Series

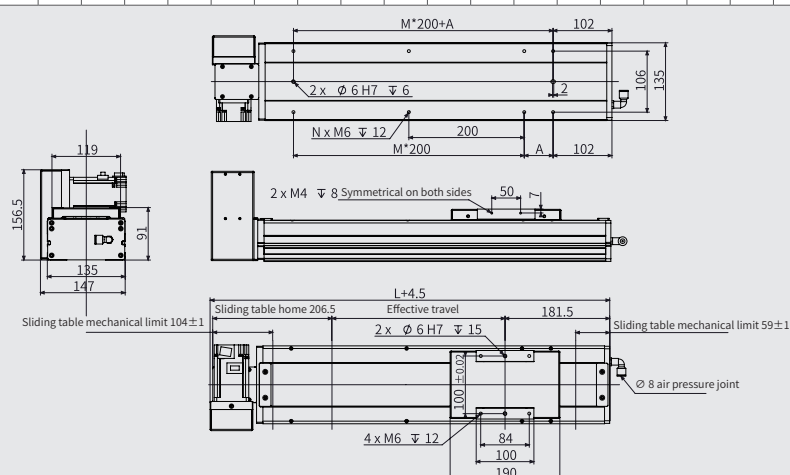
RD	Motor Connected Right Down																							
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200
L	438	488	538	588	638	688	738	788	838	888	938	988	1,038	1,088	1,138	1,188	1,238	1,288	1,338	1,388	1,438	1,488	1,538	1,588
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16
KG	11.2	11.6	12	12.5	13	13.5	14	14.4	15	15.4	16	16.4	16.9	17.4	17.9	18.4	18.9	19.4	19.9	20.3	20.9	21.5	22.1	22.7

RD	Motor Connected Right Down																							
Effective Travel	1,450	1,500	1,550	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400	2,450	2,500	2,550	2,600
L	1,838	1,888	1,938	1,988	2,038	2,088	2,138	2,188	2,238	2,288	2,338	2,388	2,438	2,488	2,538	2,588	2,638	2,688	2,738	2,788	2,838	2,888	2,938	2,988
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	13	13	13	13
N	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	30	30	30	30
KG	25.7	26.3	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5



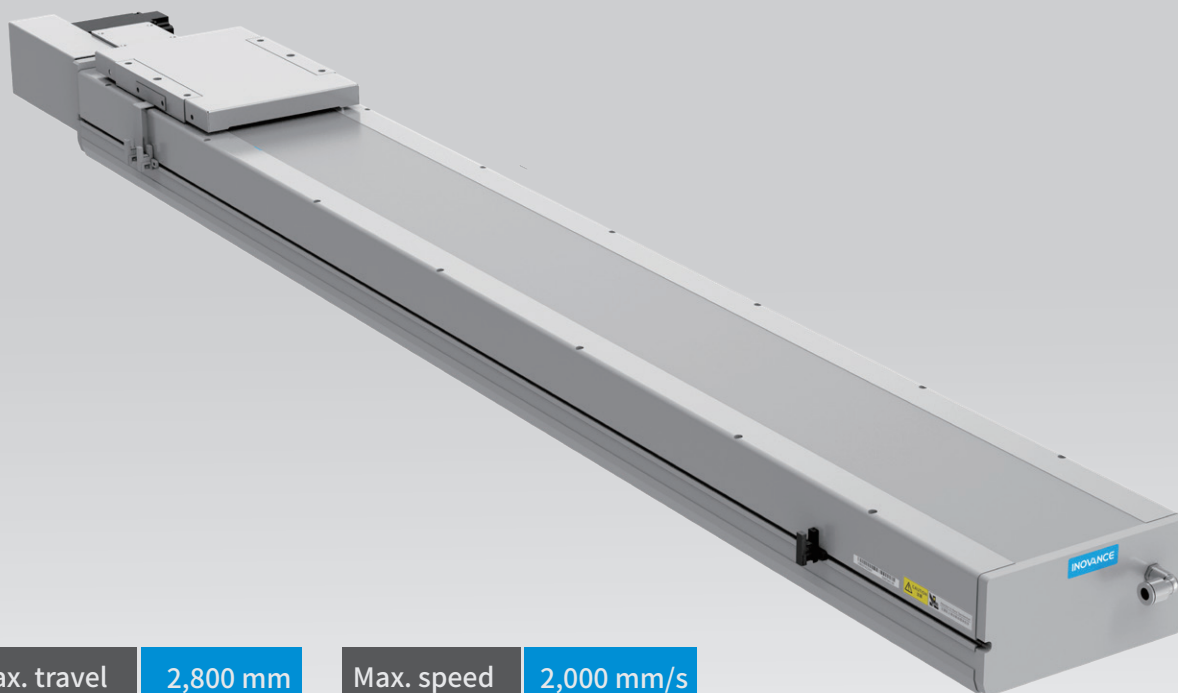
RU	Motor Connected Right Up																							
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200
L	438	488	538	588	638	688	738	788	838	888	938	988	1,038	1,088	1,138	1,188	1,238	1,288	1,338	1,388	1,438	1,488	1,538	1,588
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16
KG	11.2	11.6	12	12.5	13	13.5	14	14.4	15	15.4	16	16.4	16.9	17.4	17.9	18.4	18.9	19.4	19.9	20.3	20.9	21.5	22.1	22.7

RU	Motor Connected Right Up																							
Effective Travel	1,450	1,500	1,550	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400	2,450	2,500	2,550	2,600
L	1,838	1,888	1,938	1,988	2,038	2,088	2,138	2,188	2,238	2,288	2,338	2,388	2,438	2,488	2,538	2,588	2,638	2,688	2,738	2,788	2,838	2,888	2,938	2,988
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	13	13	13	13
N	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	30	30	30	30
KG	25.7	26.3	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5



LBC 17

Dust Free Belt-Driven Electric Cylinder



Max. travel 2,800 mm

Max. speed 2,000 mm/s

Motor power 400 W

Belt width 30 mm

Linear slide rail 20 x 15 - 2

Model Description

L BC 17 - 40 R 600 - N 3 - 40 B - K 3 - VP - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭

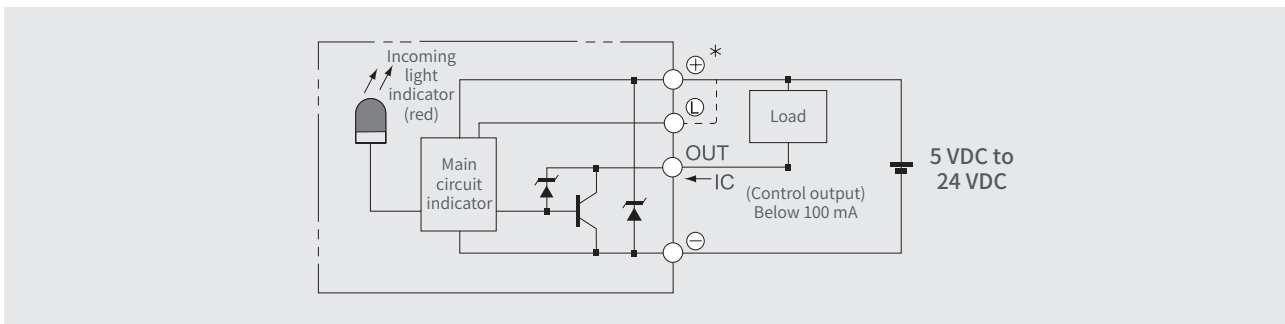
① Series number L	⑤ Motor position L: Motor connected on the left R: Motor connected on the right LU: Motor connected left up RU: Motor connected right up LD: Motor connected left down RD: Motor connected right down	⑨ Motor power 20: 200 W 40: 400 W 75: 750 W	
② Cylinder type BC: Belt fully-closed		⑩ Brake None: No brake B: Brake	⑪ Reducer providing None: Configured by Inovance K: Provided by customer
③ Width 17: 170 mm		⑫ Reduction ratio 3:3 5:5	
④ Lead 40: 40 mm 50: 50 mm 100: 100 mm	⑥ Travel 50 mm to 2,800 mm Interval of 50 mm	⑬ Drive type VP: Standard SV660P drive Drive VN: Standard SV660N drive Drive	⑭ Customization
	⑦ Sensor type N: NPN sensor P: PNP sensor		
	⑧ Sensor quantity N: No sensor 1: 1 2: 2 3: 3		

Basic Parameters

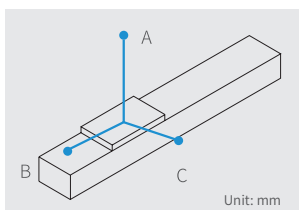
Item		Specification
Repeatability (mm)		± 0.04
Lead (mm)		40
Max. Speed (mm/s)		2,000
Max. Load Capacity	Horizontal Axis (kg) ^(Note 2)	45
	Vertical Axis (kg)	
Rated Force (N)		204
Standard Travel (mm)		50 mm to 2,800 mm, with an interval of 50 mm
Power of AC Servo Motor (W)		400
Belt Width (mm)		30
High-Stiffness Linear Slide Rail (mm)		W20 x H15
Origin Sensor	External	SGT-NH(NPN)/SGT-PH(PNP)

Note: The motor acceleration/deceleration is set to 0.4s.

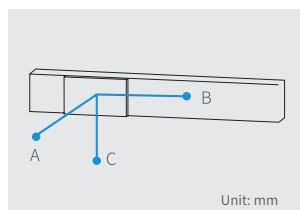
Sensor Connection Diagram



Permissible Load Torque

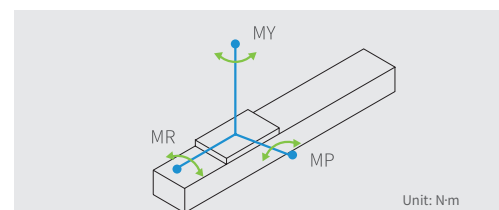


Horizontal Mounting	A	B	C
10 kg	2,942	1,133	1,033
20 kg	1,430	547	498
30 kg	926	350	320
45 kg	588	219	201



Backplate Mounting	A	B	C
15 kg	676	742	1,933
25 kg	390	428	1,127
35 kg	269	294	781
45 kg	201	219	588

Static Allowable Load Inertia



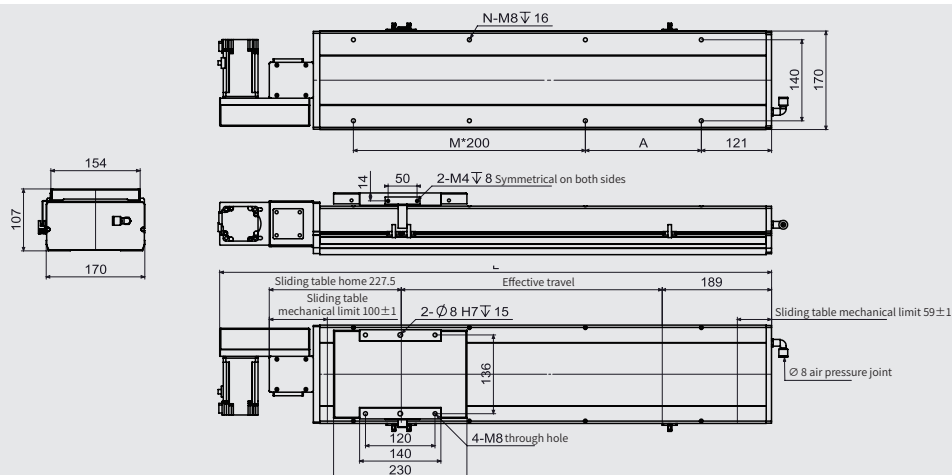
MY	1,032
MP	1,034
MR	908

- Data in the torque table specifies the maximum allowable offset distance of the gravity.
- Under normal use in compliance with the specifications in the product catalogs, ensure that the lifetime is 10,000 km.
- For total length exceeding 1,000 m, the steel strip may deform. Therefore, prevent the wall-mounting mode.
- Inverted mounting fails to comply with the standard specifications. If required, contact our business personnel.

Travel

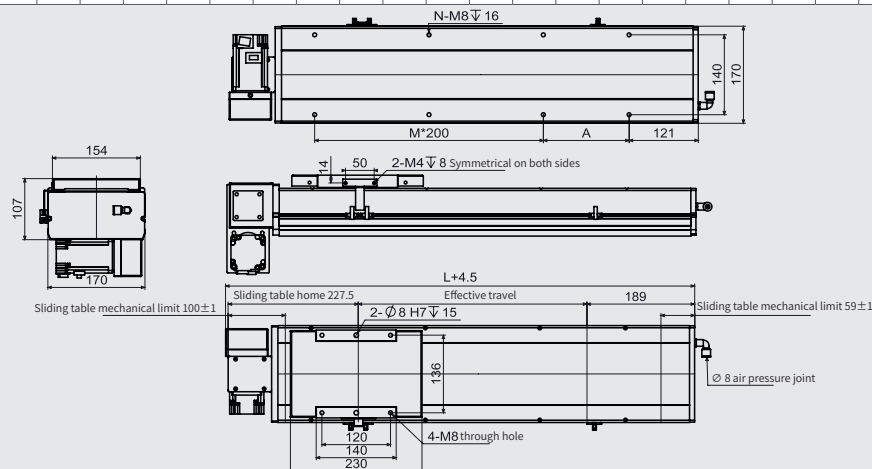
L	Motor Connected on the Left																							
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200
L	551.5	601.5	651.5	701.5	751.5	801.5	851.5	901.5	951.5	1001.5	1051.5	1111.5	1151.5	1211.5	1251.5	1311.5	1351.5	1411.5	1451.5	1511.5	1551.5	1611.5	1651.5	1711.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16
KG	13.2	15	16.8	17.6	18.4	19.1	19.9	20.7	21.5	22.2	23	23.8	24.6	25.3	26.1	26.9	27.7	28.4	29.2	30	30.8	31.6	32.4	33.2

L	Motor Connected on the Left																							
Effective Travel	1,450	1,500	1,550	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400	2,450	2,500	2,550	2,600
L	1951.5	2001.5	2051.5	2101.5	2151.5	2201.5	2251.5	2301.5	2351.5	2401.5	2451.5	2501.5	2551.5	2601.5	2651.5	2701.5	2751.5	2801.5	2851.5	2901.5	2951.5	3001.5	3051.5	3101.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13
N	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30
KG	37.2	38	38.8	39.6	40.4	41.2	42	42.8	43.6	44.4	45.2	46	46.8	47.6	48.4	49.2	50	50.8	51.6	52.4	53.2	54	54.8	55.6



LD	Motor Connected Left Down																							
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200
L	466	516	566	616	666	716	766	816	866	916	966	1,016	1,066	1,116	1,166	1,216	1,266	1,316	1,366	1,416	1,466	1,516	1,566	1,616
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16
KG	13.2	15	16.8	17.6	18.4	19.1	19.9	20.7	21.5	22.2	23	23.8	24.6	25.3	26.1	26.9	27.7	28.4	29.2	30	30.8	31.6	32.4	33.2

LD	Motor Connected Left Down																							
Effective Travel	1,450	1,500	1,550	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400	2,450	2,500	2,550	2,600
L	1,866	1,916	1,966	2,016	2,066	2,116	2,166	2,216	2,266	2,316	2,366	2,416	2,466	2,516	2,566	2,616	2,666	2,716	2,766	2,816	2,866	2,913	2,966	3,016
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13
N	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30
KG	37.2	38	38.8	39.6	40.4	41.2	42	42.8	43.6	44.4	45.2	46	46.8	47.6	48.4	49.2	50	50.8	51.6	52.4	53.2	54	54.8	55.6



Travel

LS Series

LSC Series

GS Series

LEB Series

LB Series

LBC Series

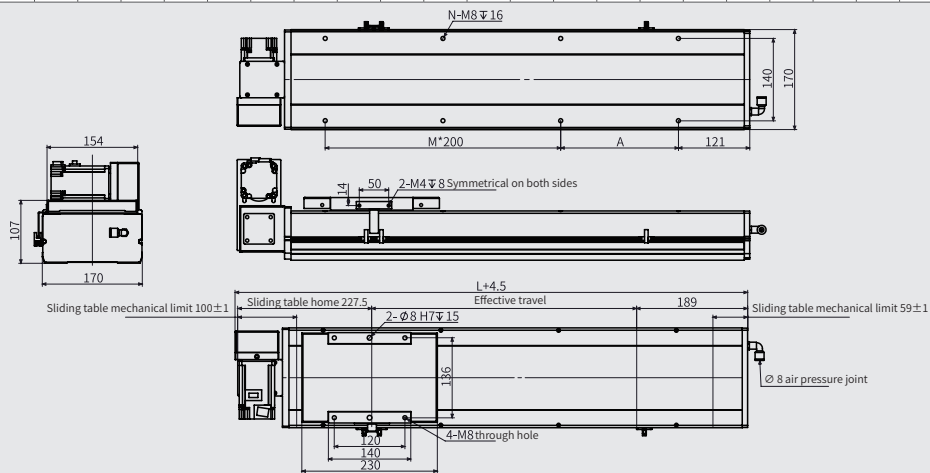
KS Series

LY Series

GV Series

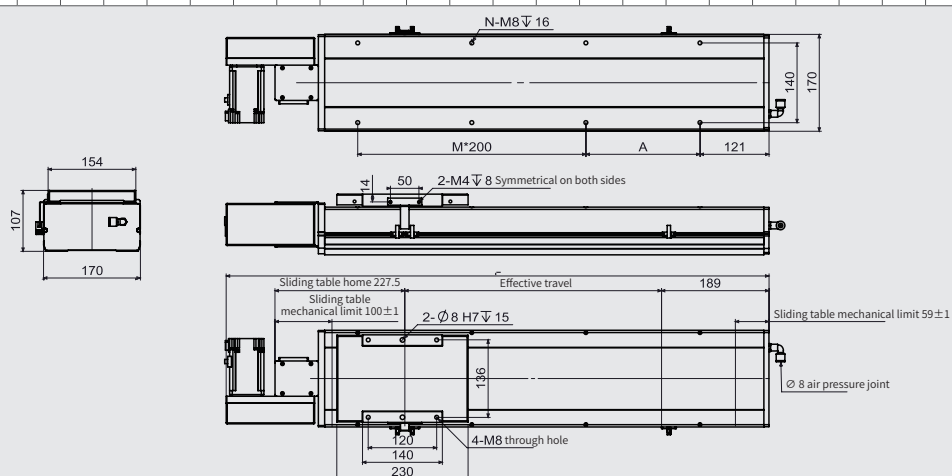
LU	Motor Connected Left Up																											
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400
L	438	488	538	588	638	688	738	788	838	888	938	988	1,038	1,088	1,138	1,188	1,238	1,288	1,338	1,388	1,438	1,488	1,538	1,588	1,638	1,688	1,738	1,788
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18
KG	11.2	11.6	12	12.5	13	13.5	14	14.4	15	15.4	16	16.4	16.9	17.4	17.9	18.4	18.9	19.4	19.9	20.3	20.9	21.5	22.1	22.7	23.3	23.9	24.5	25.1

LU	Motor Connected Left Up																											
Effective Travel	1,450	1,500	1,550	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400	2,450	2,500	2,550	2,600	2,650	2,700	2,750	2,800
L	1,838	1,888	1,938	1,988	2,038	2,088	2,138	2,188	2,238	2,288	2,338	2,388	2,438	2,488	2,538	2,588	2,638	2,688	2,738	2,788	2,838	2,888	2,938	2,988	3,038	3,088	3,138	3,188
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14
N	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32
KG	25.7	26.3	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	41.9



R	Motor Connected on the Right																											
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400
L	551.5	601.5	651.5	701.5	751.5	801.5	851.5	901.5	951.5	1001.5	1051.5	1111.5	1151.5	1211.5	1251.5	1311.5	1351.5	1411.5	1451.5	1511.5	1551.5	1611.5	1651.5	1711.5	1751.5	1811.5	1851.5	1911.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18
KG	13.2	15	16.8	17.6	18.4	19.1	19.9	20.7	21.5	22.2	23	23.8	24.6	25.3	26.1	26.9	27.7	28.4	29.2	30	30.8	31.6	32.4	33.2	34	34.8	35.6	36.4

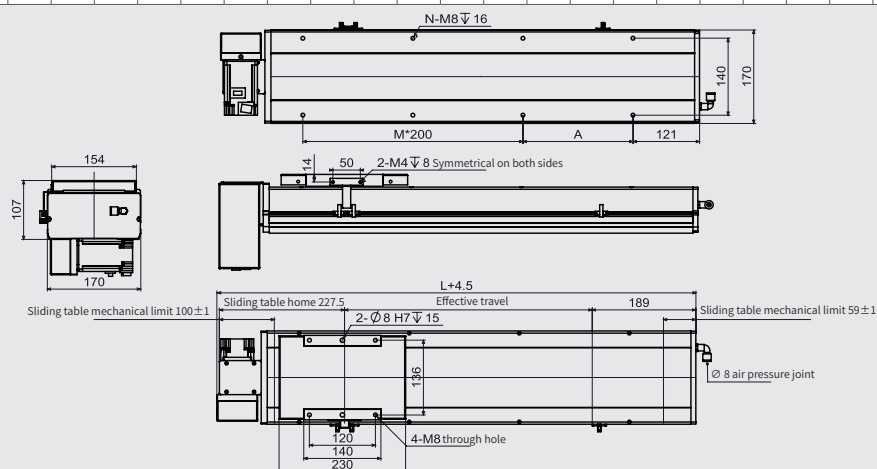
R	Motor Connected on the Right																											
Effective Travel	1,450	1,500	1,550	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400	2,450	2,500	2,550	2,600	2,650	2,700	2,750	2,800
L	1951.5	2001.5	2051.5	2101.5	2151.5	2201.5	2251.5	2301.5	2351.5	2401.5	2451.5	2501.5	2551.5	2601.5	2651.5	2701.5	2751.5	2801.5	2851.5	2901.5	2951.5	3001.5	3051.5	3101.5	3151.5	3201.5	3251.5	3301.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14
N	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32
KG	37.2	38	38.8	39.6	40.4	41.2	42	42.8	43.6	44.4	45.2	46	46.8	47.6	48.4	49.2	50	50.8	51.6	52.4	53.2	54	54.8	55.6	56.4	57.2	58	58.8



Travel

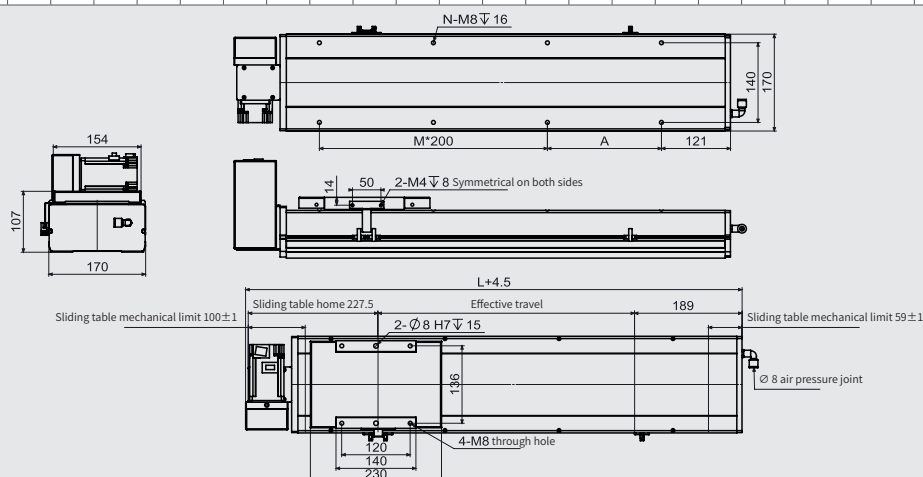
RD	Motor Connected Right Down																			
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000
L	466	516	566	616	666	716	766	816	866	916	966	1,016	1,066	1,116	1,166	1,216	1,266	1,316	1,366	1,416
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	13.2	15	16.8	17.6	18.4	19.1	19.9	20.7	21.5	22.2	23	23.8	24.6	25.3	26.1	26.9	27.7	28.4	29.2	30

RD	Motor Connected Right Down																			
Effective Travel	1,450	1,500	1,550	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400
L	1,866	1,916	1,966	2,016	2,066	2,116	2,166	2,216	2,266	2,316	2,366	2,416	2,466	2,516	2,566	2,616	2,666	2,716	2,766	2,816
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12
N	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28
KG	37.2	38	38.8	39.6	40.4	41.2	42	42.8	43.6	44.4	45.2	46	46.8	47.6	48.4	49.2	50	50.8	51.6	52.4



RU	Motor Connected Right Up																			
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000
L	438	488	538	588	638	688	738	788	838	888	938	988	1,038	1,088	1,138	1,188	1,238	1,288	1,338	1,388
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	11.2	11.6	12	12.5	13	13.5	14	14.4	15	15.4	16	16.4	16.9	17.4	17.9	18.4	18.9	19.4	19.9	20.3

RU	Motor Connected Right Up																			
Effective Travel	1,450	1,500	1,550	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400
L	1,838	1,888	1,938	1,988	2,038	2,088	2,138	2,188	2,238	2,288	2,338	2,388	2,438	2,488	2,538	2,588	2,638	2,688	2,738	2,788
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12
N	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28
KG	25.7	26.3	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1



Electric Cylinder Series

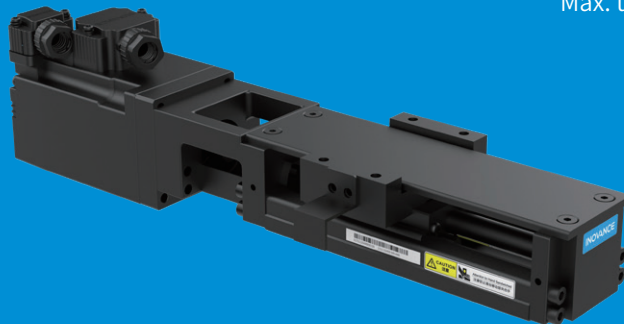
KS Series

General Environment/Lead Screw
Electric Cylinder with Steel Base

Small

KS40

Max. track length: 200 mm



Medium

KS50

Max. track length: 300 mm



LS Series

LSC Series

GS Series

LEB Series

LB Series

LBC Series

KS Series

LY Series

GY Series

Small

KS60D



Max. track length: 600 mm

Medium

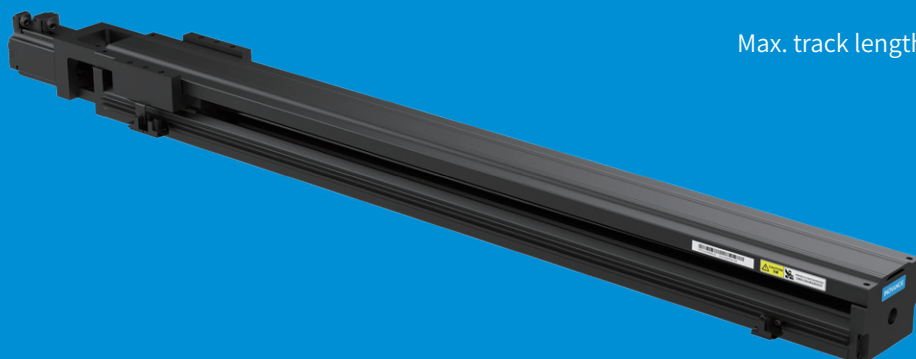
KS86D



Max. track length: 940 mm

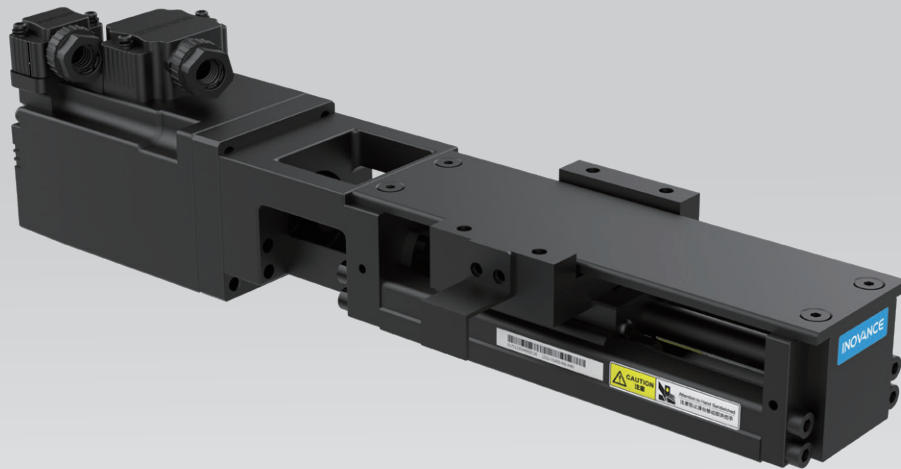
Medium

KS100



Max. track length: 1,380 mm

KS 40

Lead Screw Electric
Cylinder with Steel Base

Model Description

K S 40 02 P E - 200 E A 2 E - F1 C S0 - 10 B - VP - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱

① Series number K	⑧ Track processing mode E: Special processing None: Standard track	⑭ Sensor type S0: Extreme track + Photoelectric bracket S1: Omron EE-SX674P S2: Omron EE-SX674 S3: PM-Y45 S4: PM-Y45-P S5: SGY-NH(NPN) S6: SGY-PH(PNP) SE: Only extreme track None: No sensor	
② Cylinder type S: Lead screw			
③ Width 40: 40 mm	⑩ Number of slide rests 1: 1 2: 2		
④ Lead 02: 2 mm			
⑤ Accuracy class P: High-precision C: General	⑪ Slide rest processing mode E: Special processing None: Standard slide rest	⑮ Motor power 05: 50 W 10: 100 W	⑰ Drive type VP: Standard SV660P drive VN: Standard SV660N drive
⑥ Lead screw processing mode E: Special processing None: Standard lead screw	⑫ Motor adapter flange See information below. FE: Special processing	⑯ Brake None: No brake B: Brake	
⑦ Track length KS40: 100/150/200	⑬ Cover mode C: Aluminum sliding cover B: Telescopic protective sheath None: No sheath	⑱ Customization	

F0: Motor seat, PCD29, M3

F1: Motor adapter flange, Inovance, 50 W/100 W, PCD46, M4

F2: Motor adapter flange, Panasonic, 50 W/100 W, PCD45, M3

F3: Motor adapter flange, 42 stepper motor

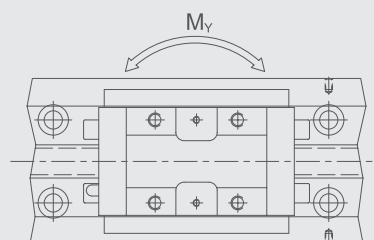
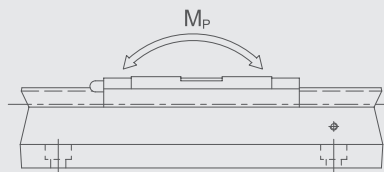
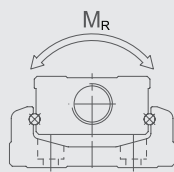
H0: Adapter fixing base

H1: Side-connection, Inovance, 50 W/100 W, PCD46, M4

H2: Side-connection, Panasonic, 50 W/100 W, PCD45, M2

H3: Side-connection, 42 stepper motor

Load Specifications



Model		Ball Screw				Linear Guideway															
		Nominal Outer Diameter (mm)	Lead (mm)	Basic Dynamic Rated Load (N)	Basic Static Rated Load (N)	Basic Dynamic Rated Load (N)		Basic Static Rated Load (N)		Permissible Static Torque											
						Slide Rest A	Slide Rest S	Slide Rest A	Slide Rest S	Pitch M_p (N-m)				Yaw M_y (N-m)				Rolling M_R (N-m)			
										Slide Rest A1	Slide Rest A2	Slide Rest S1	Slide Rest S2	Slide Rest A1	Slide Rest A2	Slide Rest S1	Slide Rest S2	Slide Rest A1	Slide Rest A2	Slide Rest S1	Slide Rest S2
KS4002	High-precision	8	2	735	1,538	3,920	-	6,468	-	33	182	-	-	33	182	-	-	81	162	-	-
	General			676	1,284																

Precision Specifications

Unit: mm

Model	Track Length (mm)	Repeatability		Positioning Precision		Travel Parallelism		Max. Starting Torque (N-cm)	
		High-precision	General	High-precision	General	High-precision	General	High-precision	General
KS4002	150	±0.005	±0.01	0.020	-	0.010	-	1.2	0.8
	200								
	250								

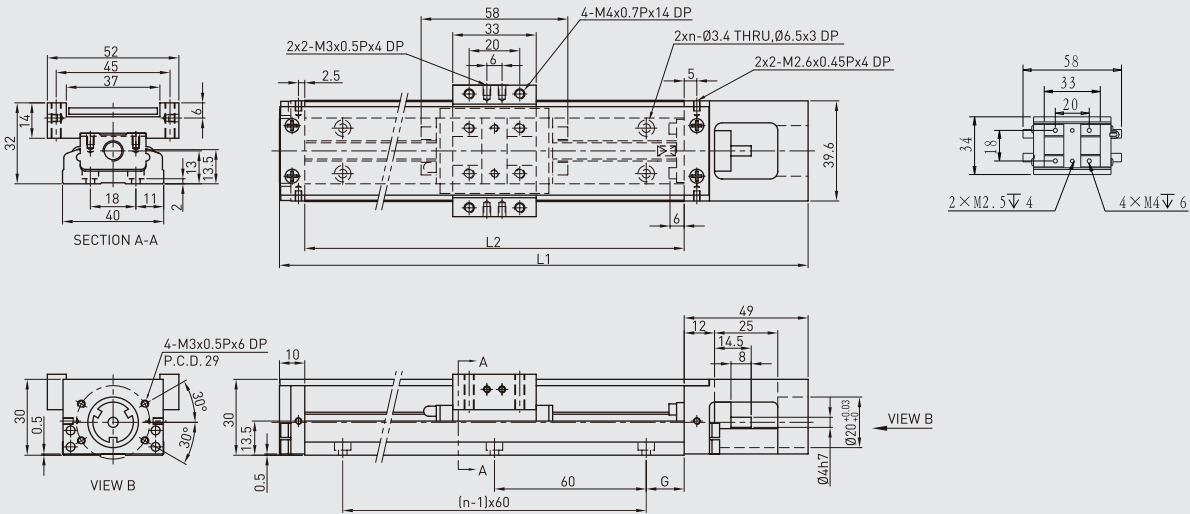
Maximum Travel

Unit: mm

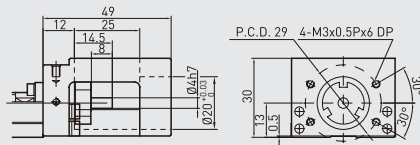
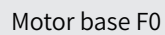
Model	Ball Screw Lead (mm)	Track Length L2 (mm)	Speed (mm/sec)	
			High-precision	General
KS40	02	100	270	270
		150	270	270
		200	270	270

Travel

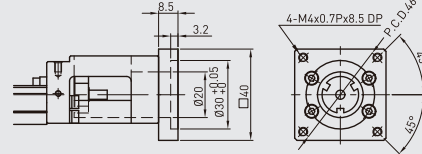
40	KS40						
Track Length L2 (mm)	Total Length L1 (mm)	Max. Travel (mm)		G (mm)	n	Weight (kg)	
		A1 Slide Rest	A2 Slide Rest			A1 Slide Rest	A2 Slide Rest
100	159	36	-	20	2	0.48	-
150	209	86	34	15	3	0.6	0.67
200	259	136	84	40	3	0.72	0.79



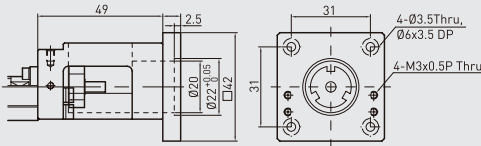
Motor Connection Diagram



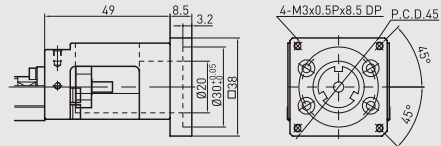
Motor adapter flange F1



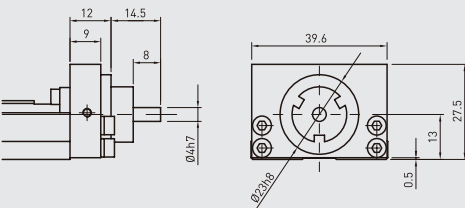
Motor adapter flange F3



Motor adapter flange F2



Fixing seat H0



KS 50

Lead Screw Electric
Cylinder with Steel Base

Model Description

K S 50 02 P E - 200 E A 2 E - F1 C S0 - 10 B - VP - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱

① Series number K	⑧ Track processing mode E: Special processing None: Standard track	⑭ Sensor type S0: Extreme track + Photoelectric bracket S1: Omron EE-SX674P S2: Omron EE-SX674 S3: PM-Y45 S4: PM-Y45-P S5: SGY-NH(NPN) S6: SGY-PH(PNP) SE: Only extreme track None: No sensor	
② Cylinder type S: Lead screw			
③ Width 50: 50 mm			
④ Lead 02: 2 mm	⑨ Slide rest type A: Standard S: Light-load	⑮ Motor power 05: 50 W 10: 100 W	
⑤ Accuracy class P: High-precision C: General	⑩ Number of slide rests 1: 1 2: 2		
⑥ Lead screw processing mode E: Special processing None: Standard lead screw	⑪ Slide rest processing mode E: Special processing None: Standard slide rest	⑯ Brake None: No brake B: Brake	
⑦ Track length KS50: 150/200/250/300	⑫ Motor adapter flange See information below. FE: Special processing	⑰ Drive type VP: Standard SV660P drive VN: Standard SV660N drive	
	⑬ Cover mode C: Aluminum sliding cover B: Telescopic protective sheath None: No sheath	⑱ Customization	

F0: Motor seat, PCD33, M3

F1: Motor adapter flange, Inovance, 50 W/100 W, PCD46, M4

F2: Motor adapter flange, Panasonic, 50 W/100 W, PCD45, M3

F3: Motor adapter flange, 42 stepper motor

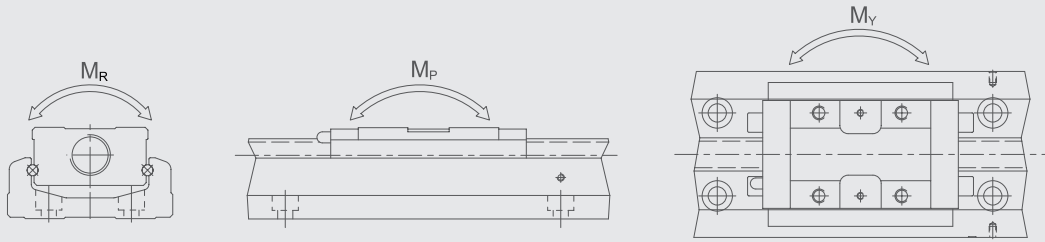
H0: Adapter fixing base

H1: Side-connection, Inovance, 50 W/100 W, PCD46, M4

H2: Side-connection, Panasonic, 100 W, PCD45, M3

H3: Side-connection, 42 stepper motor

Load Specifications



Model		Ball Screw				Linear Guideway															
		Nominal Outer Diameter (mm)	Lead (mm)	Basic Dynamic Rated Load (N)	Basic Static Rated Load (N)	Basic Dynamic Rated Load (N)		Basic Static Rated Load (N)		Permissible Static Torque											
										Pitch M _p (N-m)				Yaw M _y (N-m)				Rolling M _R (N-m)			
						Slide Rest A	Slide Rest S	Slide Rest A	Slide Rest S	Slide Rest A1	Slide Rest A2	Slide Rest S1	Slide Rest S2	Slide Rest A1	Slide Rest A2	Slide Rest S1	Slide Rest S2	Slide Rest A1	Slide Rest A2	Slide Rest S1	Slide Rest S2
KS5002	High-precision	8	2	2,136	3,489	8,007	-	12,916	-	116	545	-	-	116	545	-	-	222	444	-	-
	General			1,813	2,910																

Precision Specifications

Unit: mm

Model	Track Length (mm)	Repeatability		Positioning Precision		Travel Parallelism		Max. Starting Torque (N-cm)	
		High-precision	General	High-precision	General	High-precision	General	High-precision	General
KS5002	150	±0.005	±0.01	0.020	-	0.010	-	4	2
	200								
	250								
	300								

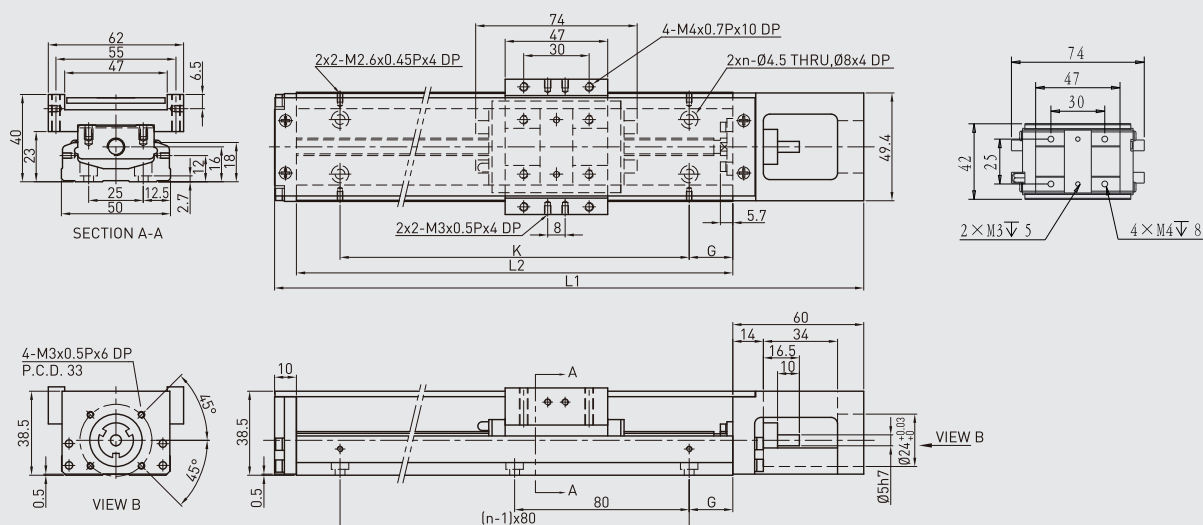
Maximum Travel

Unit: mm

Model	Ball Screw Lead (mm)	Track Length L2 (mm)	Speed (mm/sec)	
			High-precision	General
KS50	02	150	270	270
		200	270	270
		250	270	270
		300	270	270

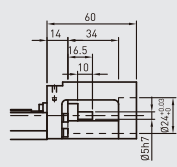
Travel

50	KS50							
Track Length L2 (mm)	Total Length L1 (mm)	Max. Travel (mm)		G (mm)	K (mm)	n	Weight (kg)	
		A1 Slide Rest	A2 Slide Rest				A1 Slide Rest	A2 Slide Rest
150	220	70	-	35	80	2	1	-
200	270	120	55	20	160	3	1.2	1.4
250	320	170	105	45	160	3	1.4	1.6
300	370	220	155	30	240	4	1.6	1.8

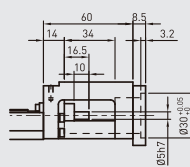


Motor Connection Diagram

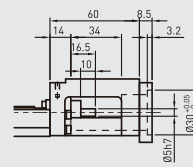
Motor base F0



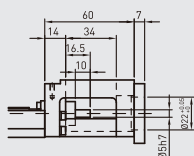
Motor adapter flange F1



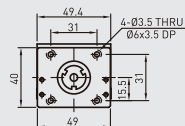
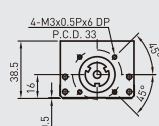
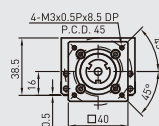
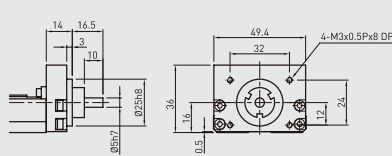
Motor adapter flange F2



Motor adapter flange F3



Fixing seat H0



KS 60D

Lead Screw Electric Cylinder with Steel Base



Model Description

K S 60D 10 P E - 600 E A 2 E - F0 C S0 - 10 B - VP - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱

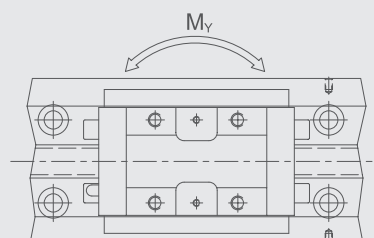
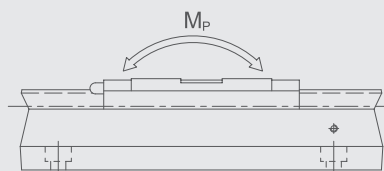
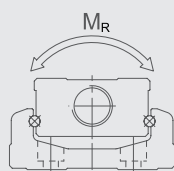
① Series number K	⑧ Track processing mode E: Special processing None: Standard track	⑭ Sensor type S0: Extreme track + Photoelectric bracket S1: Omron EE-SX674P S2: Omron EE-SX674 S3: PM-Y45 S4: PM-Y45-P S5: SGY-NH(NPN) S6: SGY-PH(PNP) SE: Only extreme track None: No sensor	
② Cylinder type S: Lead screw	⑨ Slide rest type A: Standard S: Light-load		
③ Width 60D	⑩ Number of slide rests 1: 1 2: 2		
④ Lead 5: 5 mm 10: 10 mm	⑪ Slide rest processing mode E: Special processing None: Standard slide rest	⑮ Motor power 10: 100 W	⑯ Brake None: No brake B: Brake
⑤ Accuracy class P: High-precision C: General	⑫ Motor adapter flange See information below. FE: Special processing	⑰ Drive type VP: Standard SV660P drive VN: Standard SV660N drive	
⑥ Lead screw processing mode E: Special processing None: Standard lead screw	⑬ Cover mode C: Aluminum sliding cover B: Telescopic protective sheath None: No sheath	⑱ Customization	
⑦ Track length KS60/KS60D: 150 mm/200 mm/300 mm/400 mm/500 mm/600 mm			

F0: Motor seat, #42, PCD40, M4/PCD40, M3
F1: Motor adapter flange, 10, PCD46, M4
F2: Motor adapter flange, P10, PCD45, M3
F3: Motor adapter flange, 60 stepper motor, hole distance 50, M5
F4: Motor adapter flange, 57 stepper motor, hole distance 47.14, M4

F5: Motor adapter flange, 42 stepper motor, hole distance 31, through hole 3.4
F6: Adapter fixing base, $\phi 30$, hole distance 27, M5
H0: Adapter fixing base, $\phi 30$, hole distance 33, M4
H1: Side-connection, Inovance, 100 W, PCD46, M4
H2: Side-connection, Panasonic, 100 W, PCD45, M3

H3: Side-connection, 60 stepper motor
H4: Side-connection, 57 stepper motor
H5: Side-connection, 42 stepper motor
H0 to H5 suffixed with LRUD represent adding accessories such as side plates and timing pulley belts to the left, right, up, and down respectively by default.

Load Specifications



Model		Ball Screw				Linear Guideway															
		Nominal Outer Diameter (mm)	Lead (mm)	Basic Dynamic Rated Load (N)	Basic Static Rated Load (N)	Basic Dynamic Rated Load (N)		Basic Static Rated Load (N)		Permissible Static Torque											
						Slide Rest		Slide Rest		Pitch M_p (N-m)				Yaw M_y (N-m)				Rolling M_R (N-m)			
						A	S	A	S	Slide Rest A1	Slide Rest A2	Slide Rest S1	Slide Rest S2	Slide Rest A1	Slide Rest A2	Slide Rest S1	Slide Rest S2	Slide Rest A1	Slide Rest A2	Slide Rest S1	Slide Rest S2
KS6005	High-precision	12	5	3,744	6,243	13,230	7,173	21,462	11,574	152	760	72	367	152	760	72	367	419	838	241	482
	General			3,377	5,625																
KS6010	High-precision	12	10	2,410	3,743	13,230	7,173	21,462	11,574	152	760	72	367	152	760	72	367	419	838	241	482
	General			2,107	3,234																

Precision Specifications

Unit: mm

Model	Track Length (mm)	Repeatability		Positioning Precision		Travel Parallelism		Max. Starting Torque (N-cm)	
		High-precision	General	High-precision	General	High-precision	General	High-precision	General
KS60D	150	±0.005	±0.01	0.020	-	0.010	-	15	7
	200								
	300								
	400								
	500	±0.005	±0.01	0.025	-	0.015	-	15	7
	600								

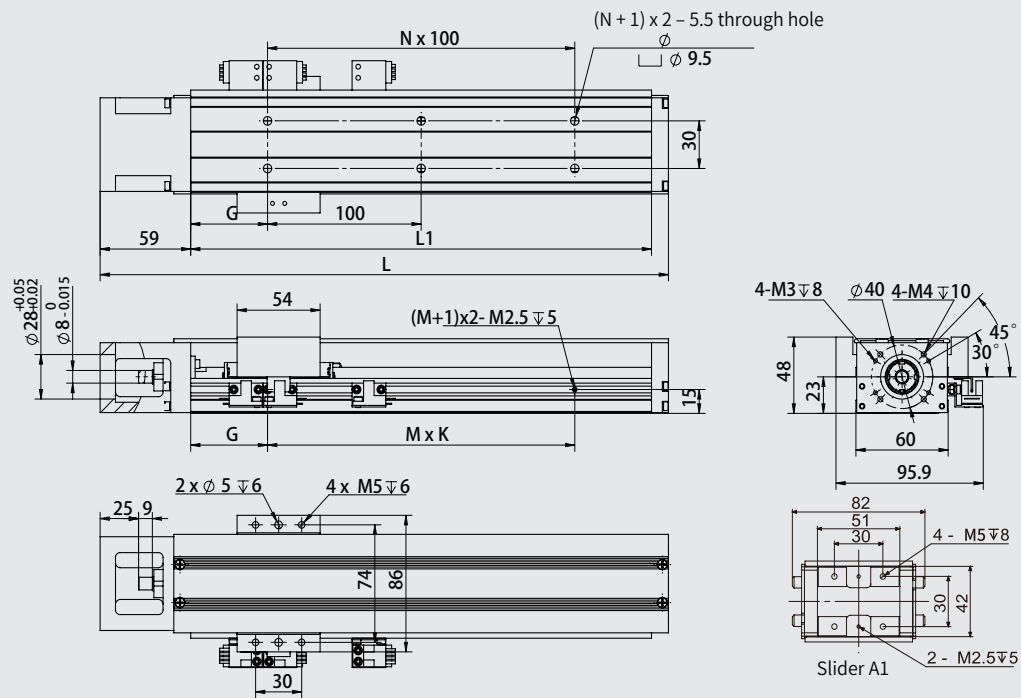
Maximum Travel

Unit: mm

Model	Ball Screw Lead (mm)	Track Length L2 (mm)	Speed (mm/sec)	
			High-precision	General
KS60D	5	150	550	390
		200	550	390
		300	550	390
		400	550	390
		500	550	390
		600	350	340
	10	150	1,100	790
		200	1,100	790
		300	1,100	790
		400	1,100	790
		500	1,100	790
		600	670	670

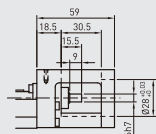
Travel

60D	KS60D								
Track Length L2 (mm)	Total Length L1 (mm)	Max. Travel (mm)		G (mm)	K (mm)	n	m	Weight (kg)	
		A1 Slide Rest	A2 Slide Rest					A1 Slide Rest	A2 Slide Rest
150	220	60	-	25	100	2	2	1.5	-
200	270	110	-	50	100	2	2	1.8	-
300	370	210	135	50	200	3	2	2.4	2.7
400	470	310	235	50	100	4	4	3	3.3
500	570	410	335	50	200	5	3	3.6	3.9
600	670	510	435	50	100	6	6	4.2	4.6

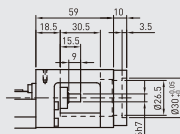


Motor Connection Diagram

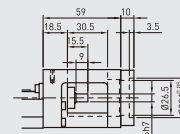
Motor base F0



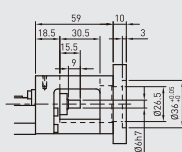
Motor adapter flange F1



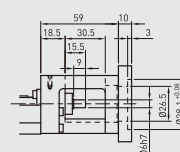
Motor adapter flange F2



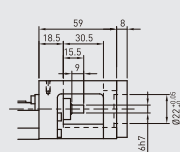
Motor adapter flange F3



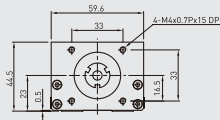
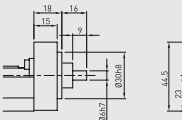
Motor adapter flange F4



Motor adapter flange F5



Fixing seat H0



LS Series

LSC Series

GS Series

LEB Series

LB Series

LBC Series

KS Series

LY Series

GY Series

KS 86D

Lead Screw Electric
Cylinder with Steel Base

Model Description

K S 86D 10 P E - 940 E A 2 E - F0 C S0 - 10 B - VP - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱

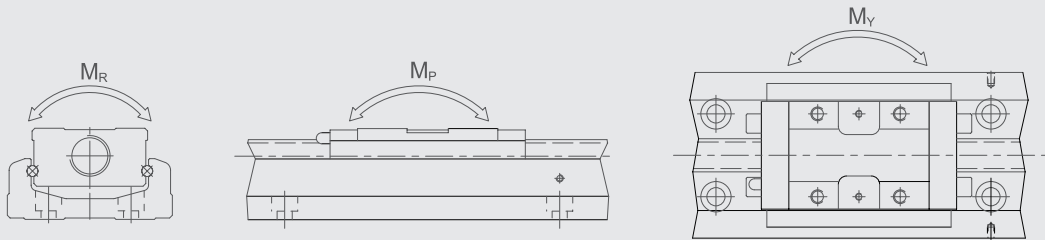
① Series number K	⑧ Track processing mode E: Special processing None: Standard track	⑭ Sensor type S0: Extreme track + Photoelectric bracket S1: Omron EE-SX674P S2: Omron EE-SX674 S3: PM-Y45 S4: PM-Y45-P S5: SGY-NH(NPN) S6: SGY-PH(PNP) SE: Only extreme track None: No sensor	
② Cylinder type S: Lead screw	⑨ Slide rest type A: Standard S: Light-load		
③ Width 86D	⑩ Number of slide rests 1: 1 2: 2		
④ Lead 10: 10 mm 20: 20 mm	⑪ Slide rest processing mode E: Special processing None: Standard slide rest	⑮ Motor power 10: 100 W 20: 200 W 40: 400 W 75: 750 W	⑯ Brake None: No brake B: Brake
⑤ Accuracy class P: High-precision C: General	⑫ Motor adapter flange See information below. FE: Special processing	⑰ Drive type VP: Standard SV660P drive VN: Standard SV660N drive	
⑥ Lead screw processing mode E: Special processing None: Standard lead screw	⑬ Cover mode C: Aluminum sliding cover B: Telescopic protective sheath None: No sheath		
⑦ Track length KS86/KS86D: 340 mm/440 mm/540 mm/640 mm/740 mm/940 mm		⑱ Customization	

F0: Motor seat, 20/40, PCD70, M5
F1: Motor adapter flange, P40, PCD70, M4
F2: Motor adapter flange, 10, PCD46, M4
F3: Motor adapter flange, P10, PCD45, M3
F4: Motor adapter flange, 75, PCD90, M6
F5: Motor adapter flange, #60, PCD50, M4
F6: Adapter fixing base, #57, PCD47, M4

F8: Motor adapter flange, P75, PCD90, M5
H0: Adapter fixing base, φ40, PCD40, M5
H1: Side-connection, Panasonic, 400 W, PCD70, M4
H2: Side-connection, Inovance, 100 W, PCD46, M4
H3: Side-connection, Panasonic, 100 W, PCD45, M3
H4: Side-connection, Inovance, 750 W, PCD90, M6
H5: Side-connection, 60 stepper motor

H6: Side-connection, 57 stepper motor
H7: Side-connection, 86 stepper motor
H8: Side-connection, Panasonic, 750 W, PCD90, M5
H0 to H8 suffixed with LRUD represent adding accessories such as side plates and timing pulley belts to the left, right, up, and down respectively by default.

Load Specifications



Model		Ball Screw				Linear Guideway															
		Nominal Outer Diameter (mm)	Lead (mm)	Basic Dynamic Rated Load (N)	Basic Static Rated Load (N)	Permissible Static Torque															
						Pitch M_p (N-m)								Yaw M_y (N-m)				Rolling M_r (N-m)			
						Slide Rest A	Slide Rest S	Slide Rest A	Slide Rest S	Slide Rest A1	Slide Rest A2	Slide Rest S1	Slide Rest S2	Slide Rest A1	Slide Rest A2	Slide Rest S1	Slide Rest S2	Slide Rest A1	Slide Rest A2	Slide Rest S1	Slide Rest S2
KS8610	High-precision	15	10	7,144	12,642	31,458	21,051	50,764	29,475	622	3,050	228	1,309	622	3,050	228	1,309	1,057	3,014	847	1,694
	General			6,429	11,387																
KS8620	High-precision	15	20	4,645	7,655	31,458	21,051	50,764	29,475	622	3,050	228	1,309	622	3,050	228	1,309	1,057	3,014	847	1,694
	General			4,175	6,889																

Precision Specifications

Unit: mm

Model	Track Length (mm)	Repeatability		Positioning Precision		Travel Parallelism		Max. Starting Torque (N-cm)	
		High-precision	General	High-precision	General	High-precision	General	High-precision	General
KS86D	340	±0.005	±0.01	0.025	-	0.015	-	15	10
	440								
	540								
	640								
	740	±0.005	±0.01	0.030	-	0.020	-	17	10
	840	±0.005	±0.01	0.040	-	0.030	-	25	10
	940	±0.005	±0.01	0.040	-	0.030	-	25	10

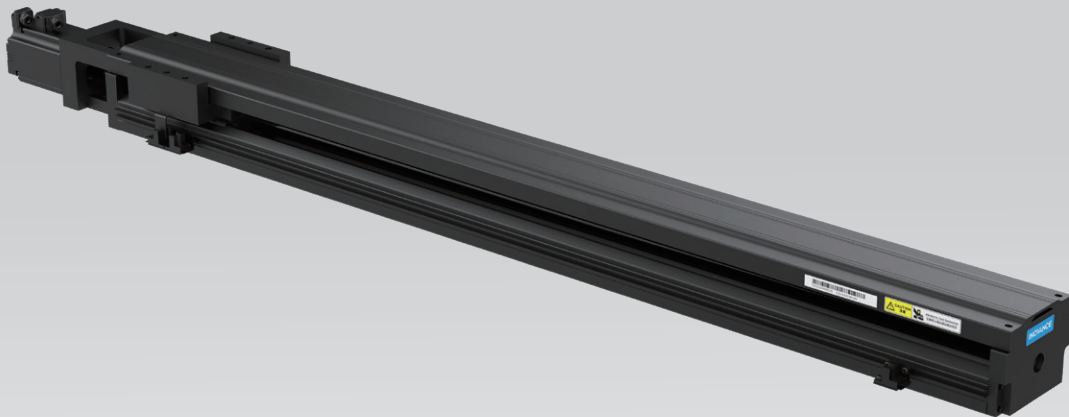
Maximum Travel

Unit: mm

Model	Ball Screw Lead (mm)	Track Length L2 (mm)	Speed (mm/sec)	
			High-precision	General
KS86D	10	340	740	520
		440	740	520
		540	740	520
		640	740	520
		740	740	520
		840	1,480	1,050
		940	610	430
	20	340	1,480	1,050
		440	1,480	1,050
		540	1,480	1,050
		640	1,480	1,050
		740	1,480	1,050
		840	1,480	1,050
		940	1,220	870

KS 100

Lead Screw Electric Cylinder with Steel Base



Model Description

K S 100 20 P E - 980 E A 2 E - F1 C S0 - 75 B - VP - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱

① Series number K	⑧ Track processing mode E: Special processing None: Standard track	⑭ Sensor type S0: Extreme track + Photoelectric bracket S1: Omron EE-SX674P S2: Omron EE-SX674 S3: PM-Y45 S4: PM-Y45-P S5: SGY-NH(NPN) S6: SGY-PH(PNP) SE: Only extreme track None: No sensor	
② Cylinder type S: Lead screw	⑨ Slide rest type A: Standard S: Light-load		
③ Width 100: 100 mm	⑩ Number of slide rests 1: 1 2: 2		
④ Lead 20: 20 mm			
⑤ Accuracy class P: High-precision C: General	⑪ Slide rest processing mode E: Special processing None: Standard slide rest	⑮ Motor power 20: 200 W 40: 400 W 75: 750 W	⑯ Brake None: No brake B: Brake
⑥ Lead screw processing mode E: Special processing None: Standard lead screw	⑫ Motor adapter flange See information below. FE: Special processing	⑰ Drive type VP: Standard SV660P drive VN: Standard SV660N drive	
⑦ Track length KS100: 980/1,080/1,180/1,280/1,380	⑬ Cover mode C: Aluminum sliding cover B: Telescopic protective sheath None: No sheath	⑱ Customization	

F0: Motor adapter flange, Inovance, 200 W/400 W, PCD70, M5

F1: Motor adapter flange, Inovance, 750 W, PCD90, M6

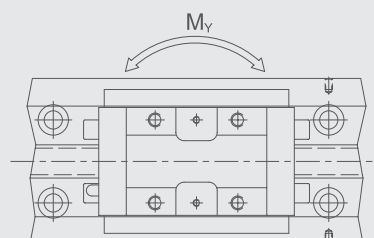
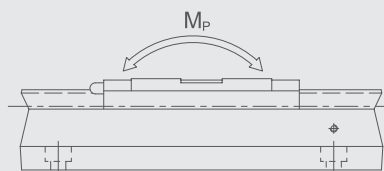
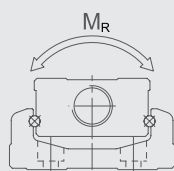
F2: Motor adapter flange, Panasonic, 750 W, PCD90, M5

H0: Adapter fixing base, PCD45, M5

H1: Side-connection, Inovance, 200 W/400 W, PCD70, M5

H2: Side-connection, Inovance, 750 W, PCD90, M6

Load Specifications



Model		Ball Screw				Linear Guideway															
		Nominal Outer Diameter (mm)	Lead (mm)	Basic Dynamic Rated Load (N)	Basic Static Rated Load (N)	Basic Dynamic Rated Load (N)		Basic Static Rated Load (N)		Permissible Static Torque											
						Slide Rest A	Slide Rest S	Slide Rest A	Slide Rest S	Pitch M_p (N-m)				Yaw M_y (N-m)				Rolling M_R (N-m)			
										Slide Rest A1	Slide Rest A2	Slide Rest S1	Slide Rest S2	Slide Rest A1	Slide Rest A2	Slide Rest S1	Slide Rest S2	Slide Rest A1	Slide Rest A2	Slide Rest S1	Slide Rest S2
KS10020	High-precision	20	20	7,046	12,544	39,200	-	63,406	-	960	4,763	-	-	960	4,763	-	-	2,205	4,410	-	-
	General			4,782	9,163																

Precision Specifications

Unit: mm

Model	Track Length (mm)	Repeatability		Positioning Precision		Travel Parallelism		Max. Starting Torque (N-cm)	
		High-precision	General	High-precision	General	High-precision	General	High-precision	General
KS10020	980	±0.005	±0.01	0.035	-	0.025	-	17	12
	1,080			0.04		0.03		20	12
	1,180			0.045		0.035		23	15
	1,280			0.05		0.04		25	15
	1,380								

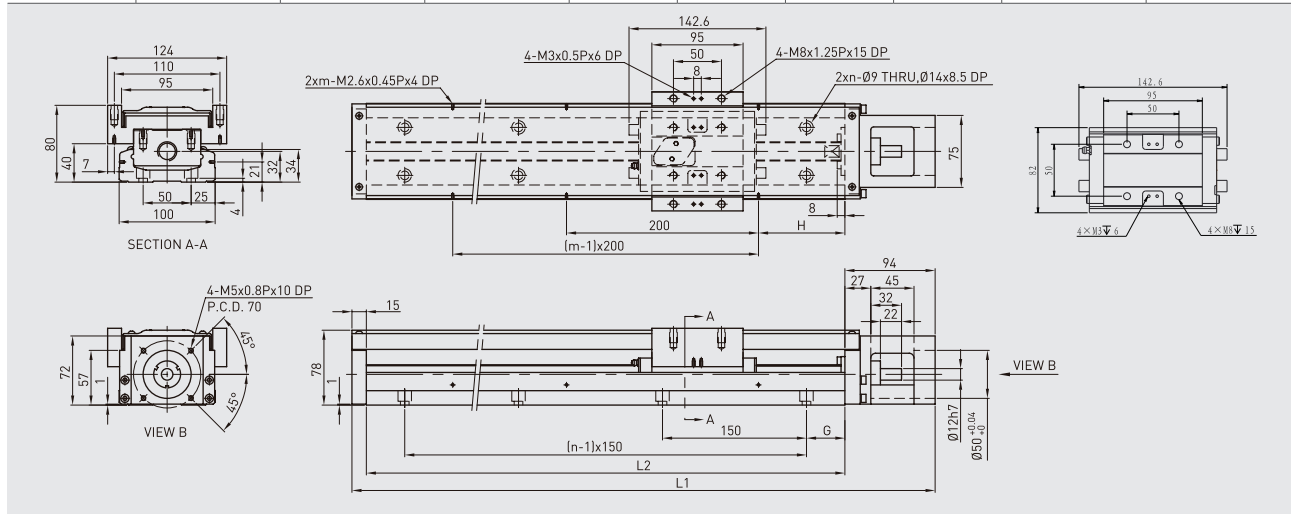
Maximum Travel

Unit: mm

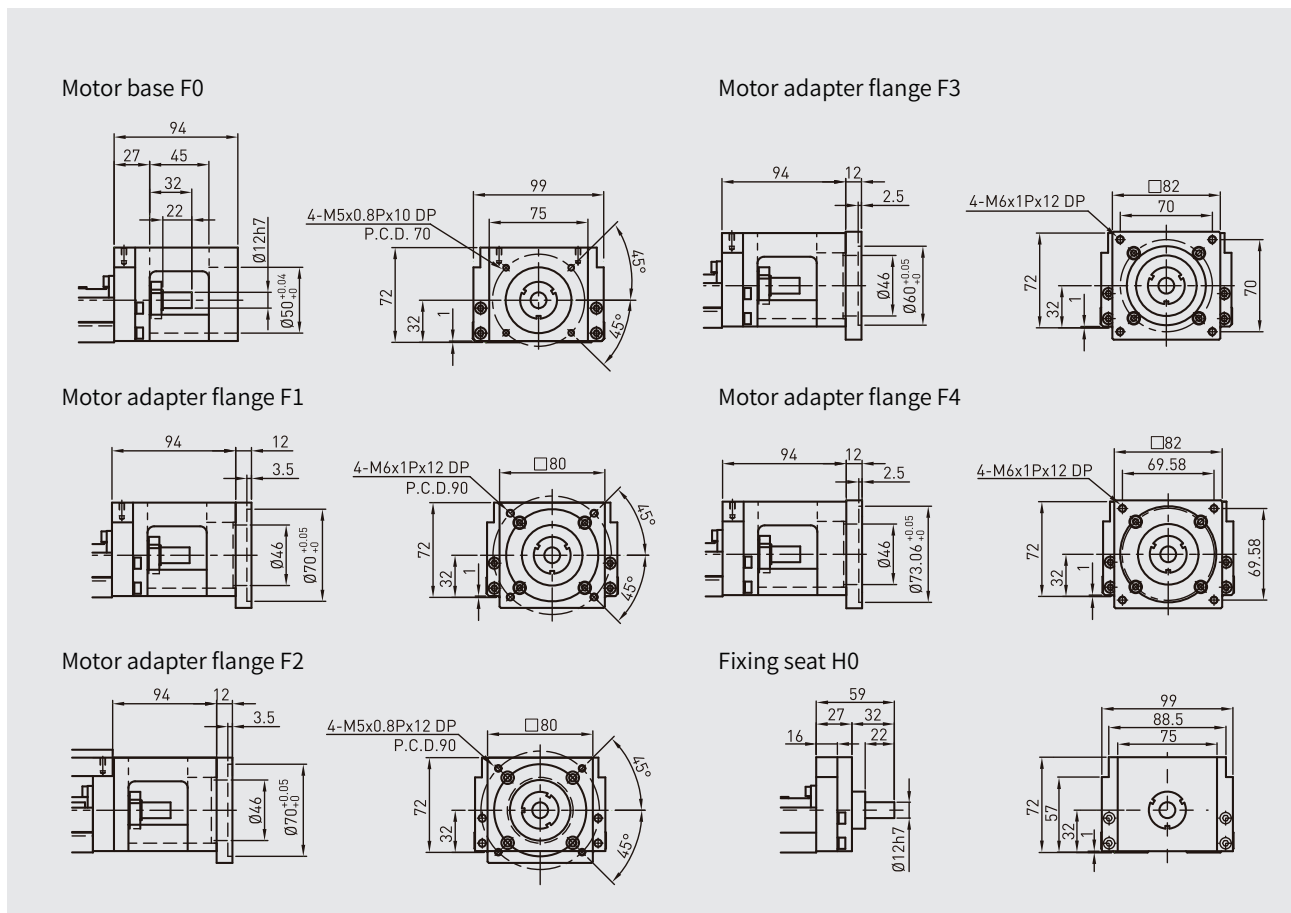
Model	Ball Screw Lead (mm)	Track Length L2 (mm)	Speed (mm/sec)	
			High-precision	General
KS100	20	980	1,120	800
		1,080	980	800
		1,180	750	750
		1,280	630	630
		1,380	530	530

Travel

100	KS100								
Track Length L2 (mm)	Total Length L1 (mm)	Max. Travel (mm)		G (mm)	H (mm)	n	m	Weight (kg)	
		A1 Slide Rest	A2 Slide Rest					A1 Slide Rest	A2 Slide Rest
980	1,089	828	700	40	90	7	5	18.6	20.3
1,080	1,189	928	800	15	40	8	6	20.3	22
1,180	1,289	1,028	900	65	90	8	6	22	23.7
1,280	1,389	1,128	1,000	40	40	9	7	23.6	25.3
1,380	1,489	1,228	1,100	15	90	10	7	25.3	27



Motor Connection Diagram



LS Series

LSC Series

GS Series

LEB Series

LB Series

LBC Series

KS Series

LY Series

GV Series

Sliding Table Series

LY Series

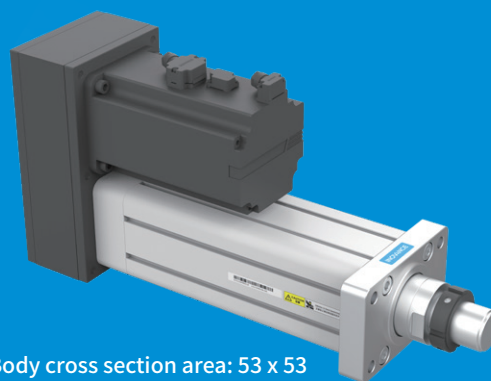
General Environment/Lead Screw-Driven
Electric Cylinder

Small LY40



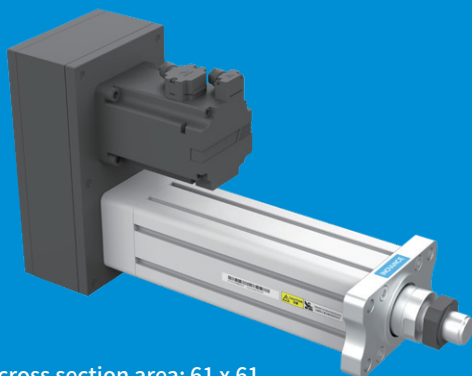
Body cross section area: 40 x 40
Maximum travel: 300
Maximum push-pull force: 0.5 kN

Small LY50



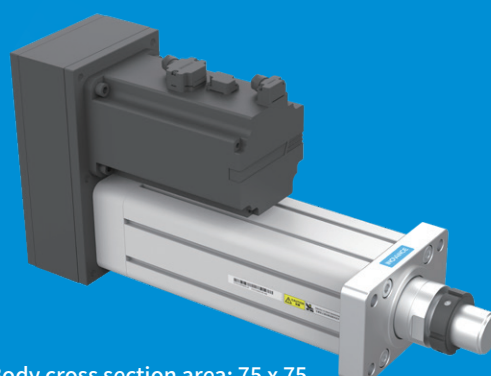
Body cross section area: 53 x 53
Maximum travel: 400
Maximum push-pull force: 1.6 kN

Small LY65



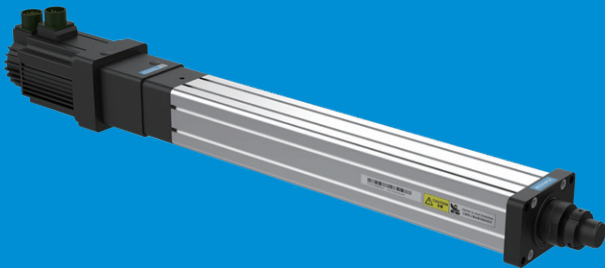
Body cross section area: 61 x 61
Maximum travel: 600
Maximum push-pull force: 5 kN

Small LY75



Body cross section area: 75 x 75
Maximum travel: 800
Maximum push-pull force: 8 kN

Medium LY80



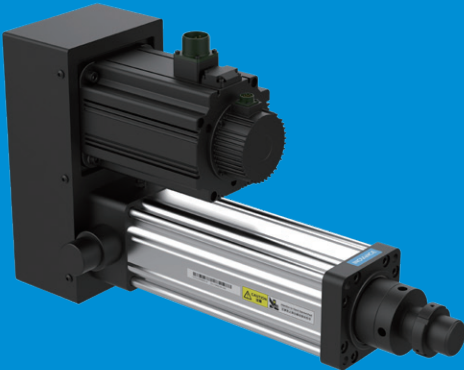
Body cross section area: 80 x 80
 Maximum travel: 1,000
 Maximum push-pull force: 15 kN

Medium LY94



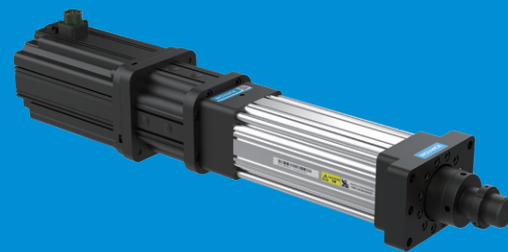
Body cross section area: 94 x 94
 Maximum travel: 1,200
 Maximum push-pull force: 25 kN

Medium LY110



Body cross section area: 112 x 112
 Maximum travel: 1,500
 Maximum push-pull force: 50 kN

Medium LY135



Body cross section area: 134 x 134
 Maximum travel: 1,800
 Maximum push-pull force: 100 kN

Large LY140



Body width: $\Phi 132$
 Maximum travel: 1,800
 Maximum push-pull force: 130 kN

Large LY180



Body width: $\Phi 180$
 Maximum travel: 2,000
 Maximum push-pull force: 200 kN

LS Series

LSC Series

GS Series

LEB Series

LB Series

LBC Series

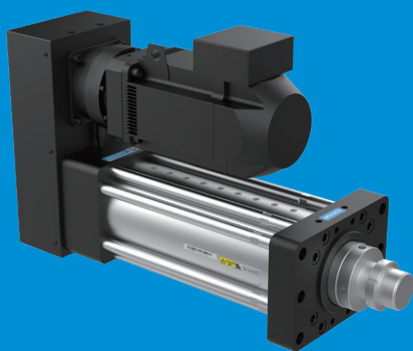
KS Series

LY Series

GY Series

Large

LY245

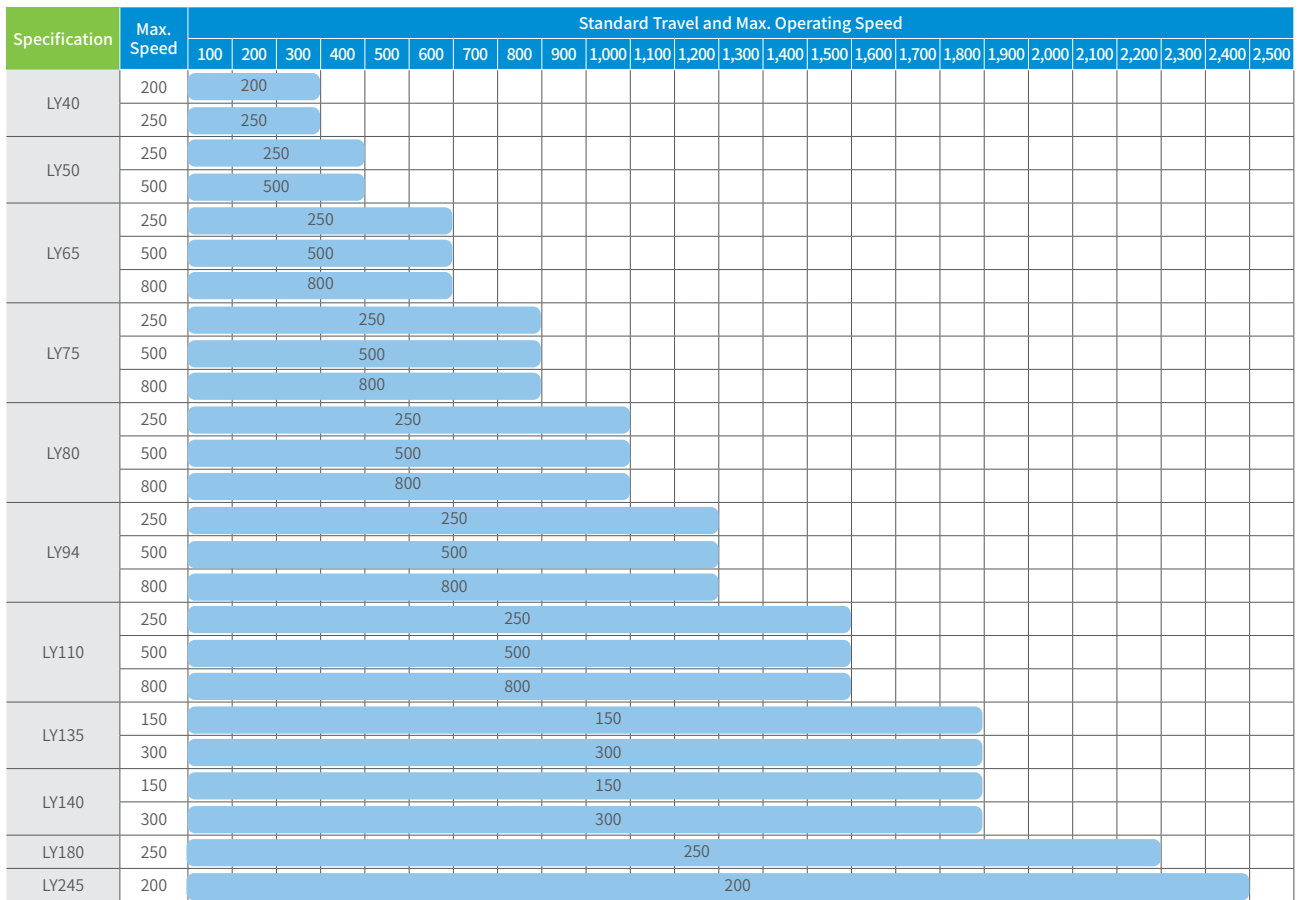
Body width: $\Phi 210$

Maximum travel: 2,400

Maximum push-pull force: 400 kN

Specifications Index

Working Environment	Transmission Mode	Specification	Motor Power	Body Width	Repeatability	Lead Screw Specification	
						Outer Diameter	Lead
General environment	Ball screw	LY40	50 W to 200 W	40	± 0.02	12 mm	4
							5
		LY50	200 W to 400 W	53	± 0.02	12 mm	5
							10
		LY65	400 W to 750 W	61	± 0.02	16 mm	5
							10
							16
							20
		LY75	400 W to 750 W	75	± 0.02	20 mm	5
							10
							20
		LY80	750 W to 1,000 W	80	± 0.02	25 mm	5
							10
							20
		LY94	1,000 W to 1,500 W	94	± 0.02	32 mm	5
							10
							20
							32
		LY110	1,800 W to 7,500 W	112	± 0.02	40 mm	5
							10
							20
							40
		LY135	1,800 W to 7,500 W	134	± 0.02	50 mm	10
							20
		LY140	7,500 W to 11,800 W	132	± 0.02	50 mm	10
							20
		LY180	7,500 W to 18,100 W	180	± 0.02	63 mm	20
		LY245	7,500 W to 27,000 W	210	± 0.02	80 mm	20



Note 1: The maximum speed (mm/s) is set based on the rated speed of 3,000 rpm of the servo motor.

Speed

Note 2: Black numbers in the standard travel columns indicate the maximum safe speeds for corresponding travels. Exceeding the maximum speeds may cause severe resonance in the sliding table.

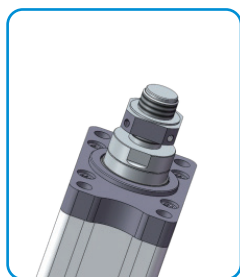
Model Standard

Model	Max. Thrust (kN)	Max. Travel (mm)	Max. Speed (mm/s)
LY40	≤ 0.5	≤ 300	≤ 250
LY50	≤ 1.5	≤ 400	≤ 500
LY65	≤ 5	≤ 600	≤ 500
LY75	≤ 8	≤ 800	≤ 800
LY80	≤ 15	≤ 1,000	≤ 800
LY94	≤ 25	≤ 1,200	≤ 800
LY110	≤ 50	≤ 1,500	≤ 800
LY135	≤ 100	≤ 1,800	≤ 300
LY140	≤ 130	≤ 1,800	≤ 300
LY180	≤ 200	≤ 2,000	≤ 200
LY245	≤ 400	≤ 2,400	≤ 200

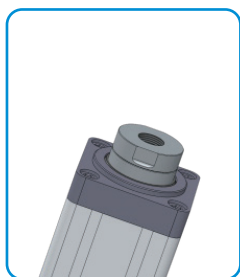
Note 1: For cylinder models LY135 and below, square aluminum cylinders are used, and the default limit switch is a magnetic induction switch.

Note 2: For cylinder models LY140 and above, round aluminum cylinders are used, and the default limit switch is a proximity switch.

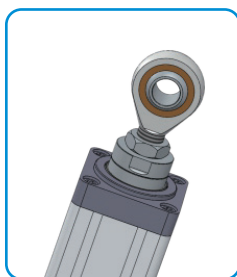
Connection with Shaft Load



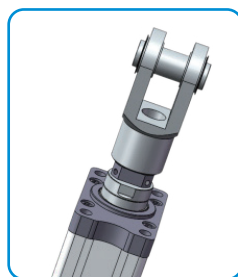
Standard
external thread



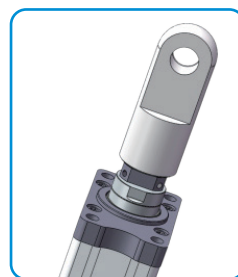
Internal
thread



Rod end
bearing



U-shape
hinge

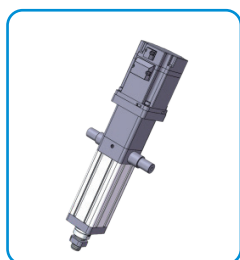


I-shape joint

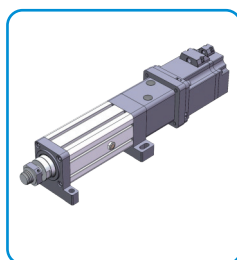
Direct-Connection



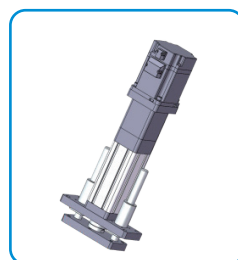
FA



EA



CA

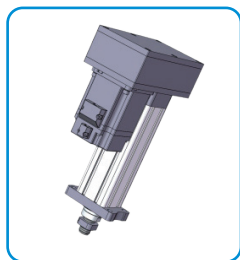


DL

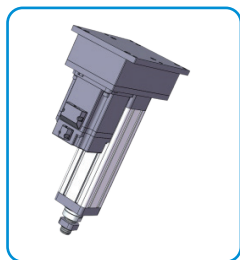


SA

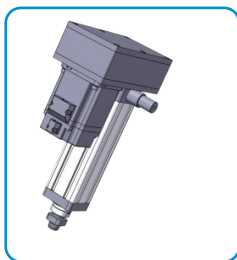
Fold-Back



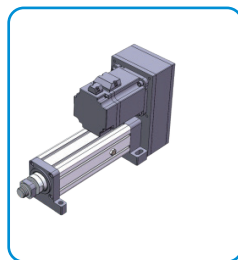
FA



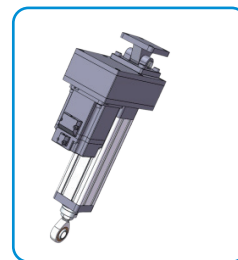
DA



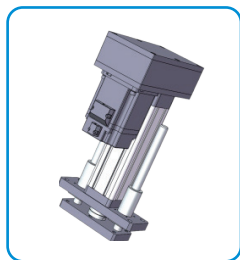
EA



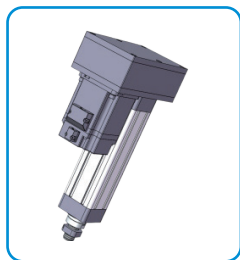
CA



JA

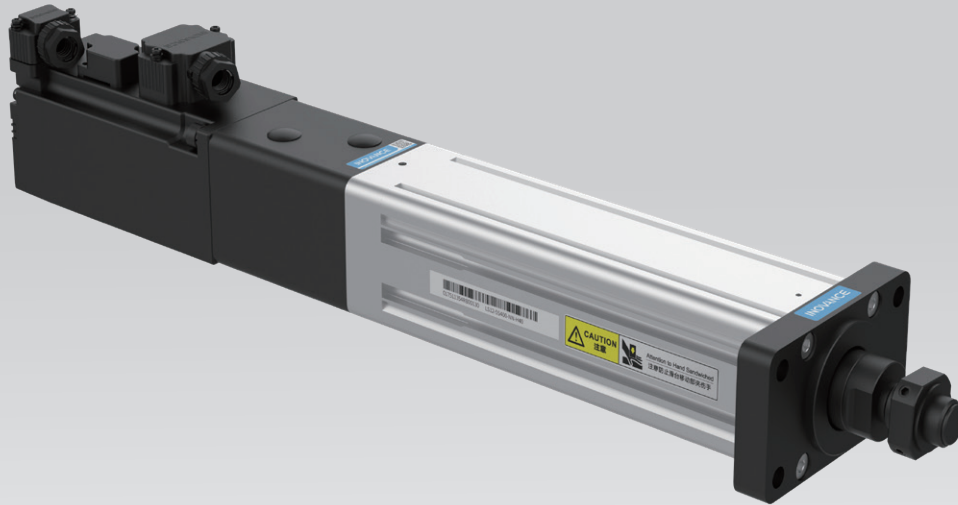


DL



SA

LY 40 Lead Screw-Driven Electric Cylinder



Max. travel	300 mm	Max. speed	250 mm/s
Motor power	100 W	Ball screw	ø12 mm

Model Description

L Y 40 - 5 S 100 - N 3 0 - 10 B - 2 - VP - FA - OS - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯

① Series number L	⑥ Travel 50 mm to 300 mm Interval of 50 mm	⑪ Brake None: No brake B: Brake	⑫ Deceleration of timing pulley, reduction ratio of 2:1
② Cylinder type Y: Lead Screw-Driven Electric Cylinder	⑦ Sensor type N: NPN sensor P: PNP sensor	⑬ Drive type VP: Standard SV660P drive VN: Standard SV660N drive	
③ Width 40: 40 mm	⑧ Number of NO switches 0: No 1: 1 2: 2 3: 3	⑭ Installation method FA: Front flange-mounted DA: Rear flange-mounted CA: Horizontal mounting ¹ EA: Trunnion mounting JA: Hinged support mounting DL: Guide pillar mounting SA: Front lock mounting HL: Backpack mounting	
④ Lead 5: 5 mm	⑨ Number of NC switches 0: No 1: 1 2: 2 3: 3	⑮ Rod head connection mode IS: Internal thread OS: External thread Y: Rod end bearing U: U-shape hinge I: I-shape joint	
⑤ Motor position S: Direct connected D: Connected down	⑩ Motor power 10: 100 W	⑯ Customization	

Basic Parameters

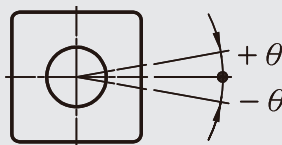
Item	Specification			
Standard Electromechanical Rated Power (kW)	0.05		0.1	
Electromechanical Rated Torque (N · m)	0.16		0.32	
Electromechanical Rated Speed (r/min)	3,000		3,000	
Screw Specification	1,204	1,205	1,204	1,205
Reduction Ratio	Timing pulley speed ratio (1:1/1.5:1/2:1)			
Repeatability (mm)	± 0.02			
Standard Electromechanical Rated Thrust (kN)	0.21	0.17	0.42	0.34
Standard Electromechanical Rated Speed (mm/s)	200	250	200	258
Maximum Effective Travel (mm)	300			
Maximum Load Thrust (kN)	0.5			
Maximum Telescopic Speed (mm/s)	250			
Magnetic Switch	DGHON-TN		NPN	
	DGHON-TP		PNP	

Note: (1) For a travel over 300 mm, contact our business personnel.

(2) The motor acceleration/deceleration is set to 0.2s.

Anti-Backlash Precision

Anti-backlash precision of pushing rod



Anti-backlash precision θ

$\pm 0.3^\circ$

Note: Prevent rotational torque to the piston rod during use, as it may cause deformation of the anti-rotation block, response error of the automatic switch, and deformation of the internal slide rail, subsequently increasing the actuating resistance.

Standard Parameter Configuration

Basic Parameters

Cylinder Outer Diameter	40 mm x 40 mm
Cylinder Inner Diameter	φ30 mm
Allowed Maximum Thrust	≤ 0.5 kN
Travel Range	≤ 360 mm
Allowed Maximum Speed	≤ 250 mm/s
Rotation Angle of Piston Rod	±0.3°
Limit Switch	Magnetic induction switch

Screw Parameters

Screw Model	BSH1204-3.5
	BSH1205-3.5
Screw Type	Ball screw
Screw Diameter	12 mm
Screw Lead	04 mm
	05 mm
Dynamic Load Ca (kN)	7.8
	7.8
Static Load Coa (kN)	16.1
	16.1
Stiffness (kgf/μm)	23
Ball Diameter	2.5 mm
Lead Screw	8K3
Slenderness Ratio	1:30
Accuracy Class/Positioning Precision	C5/±0.01
	C7/±0.02

Bearing Parameters

Bearing Model	Deep groove ball 6900-2RS x 2
Dynamic Load Cr (kN)	2.7
Static Load Cor (kN)	1.27

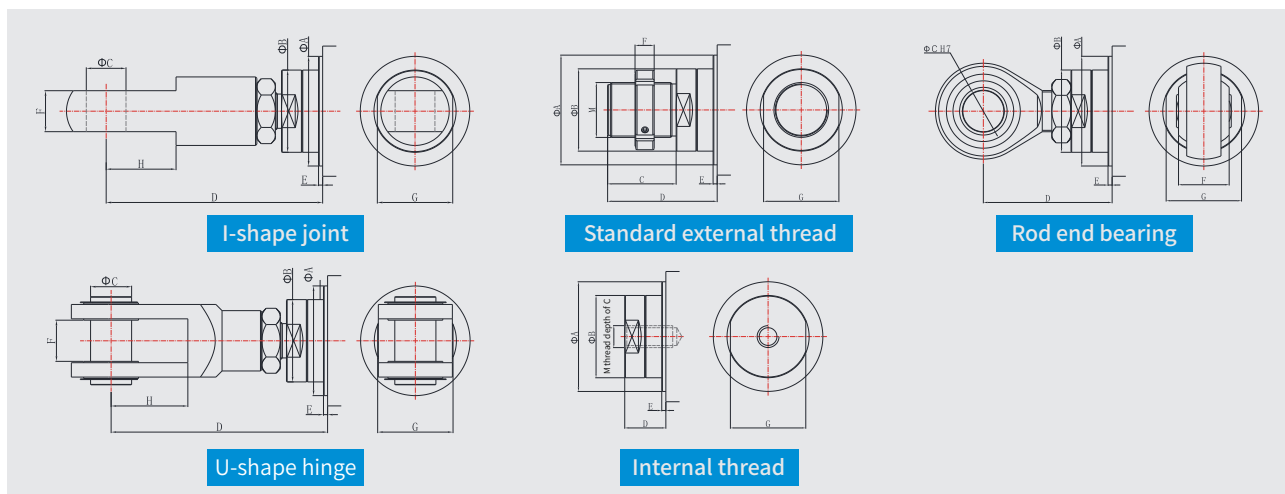
Optional Parameters

Screw Lead	04 mm
	05 mm
Timing Pulley Speed Ratio (Input: Output)	1:1
	1.5:1
	2:1
Direct-Coupled Motor	40-frame servo motor
	42 stepper motor
Adapted Reducer	No

Timing Pulley and Timing Belt Parameters

Timing Pulley Speed Ratio	1:1
	1.5:1
	2:1
Driving Gear Specification	3M10T21
Driven Gear Specification	3M10T15
Number of Teeth in Driving Gear	30
	20
	20
Number of Teeth in Driven Gear	30
	30
	40
Timing Pulley Center Distance	47.5 mm
Timing Belt Perimeter	186
	171
	186
Timing Belt Width	10 mm

Dimensions of Front Connection

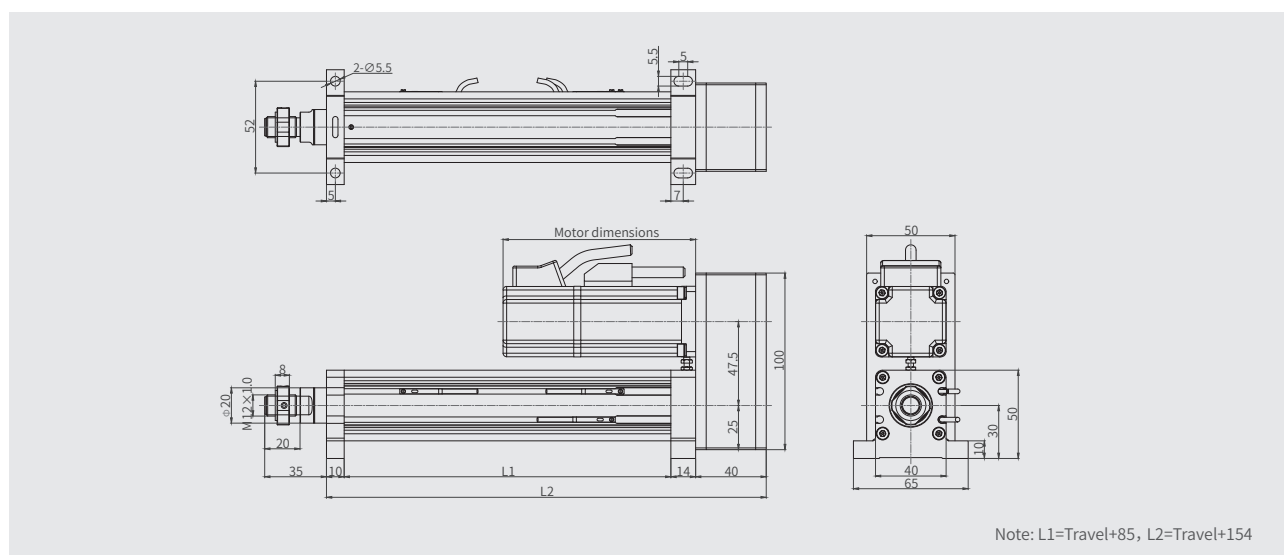


Dimension Table (Unit: mm)

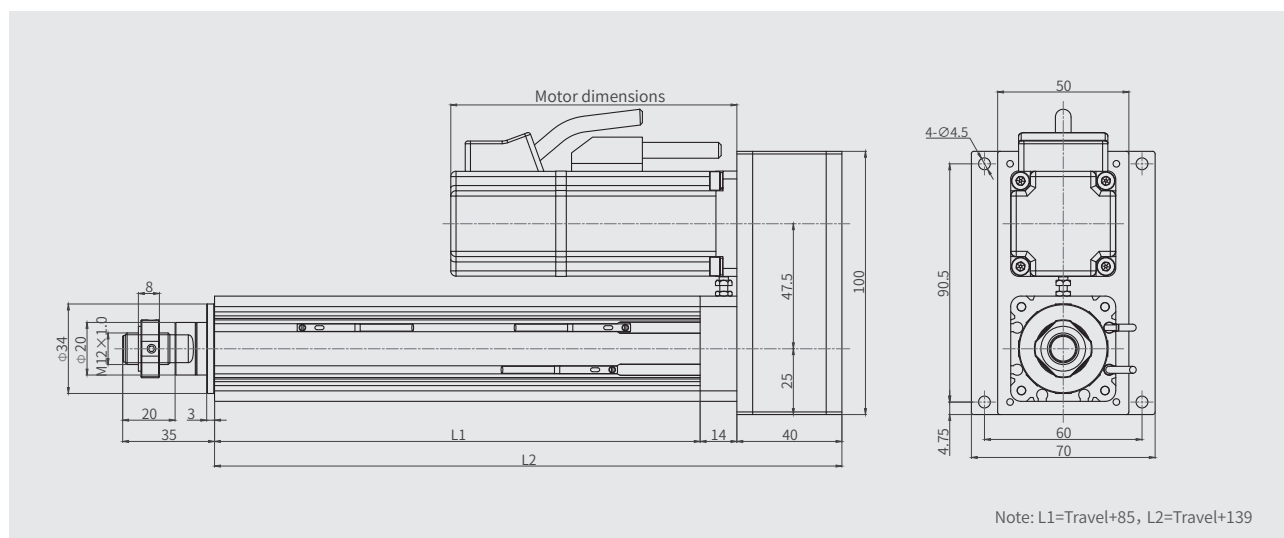
Load Type	ΦA	ΦB	ΦC	C	D	E	F	H	G	M
Standard external thread	Φ34	Φ20	-	20	43	3	8	-	17	M12 x 1.0
Internal thread	Φ34	Φ20	-	16	15	3	-	-	17	M10
I-shape joint	Φ34	Φ20	Φ10	-	65	3	10	15	17	-
Rod end bearing	Φ34	Φ20	Φ10	-	45	3	14	-	17	-
U-shape hinge	Φ34	Φ20	Φ10	-	65	3	10	40	19	-

Diagram of Standard Dimensions

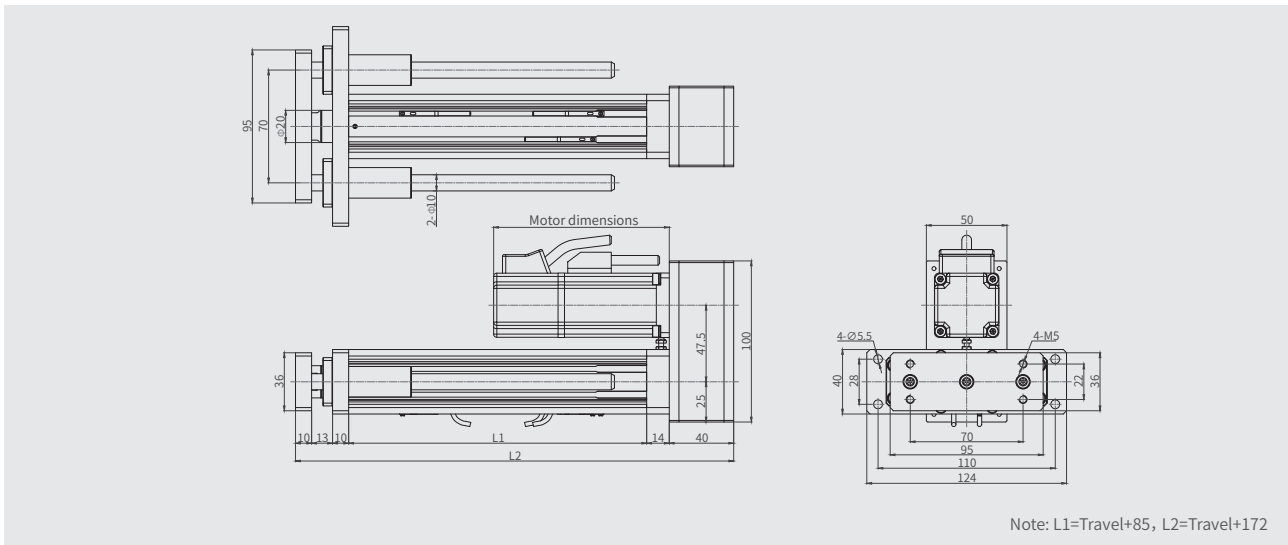
LY40-D-100W-CA



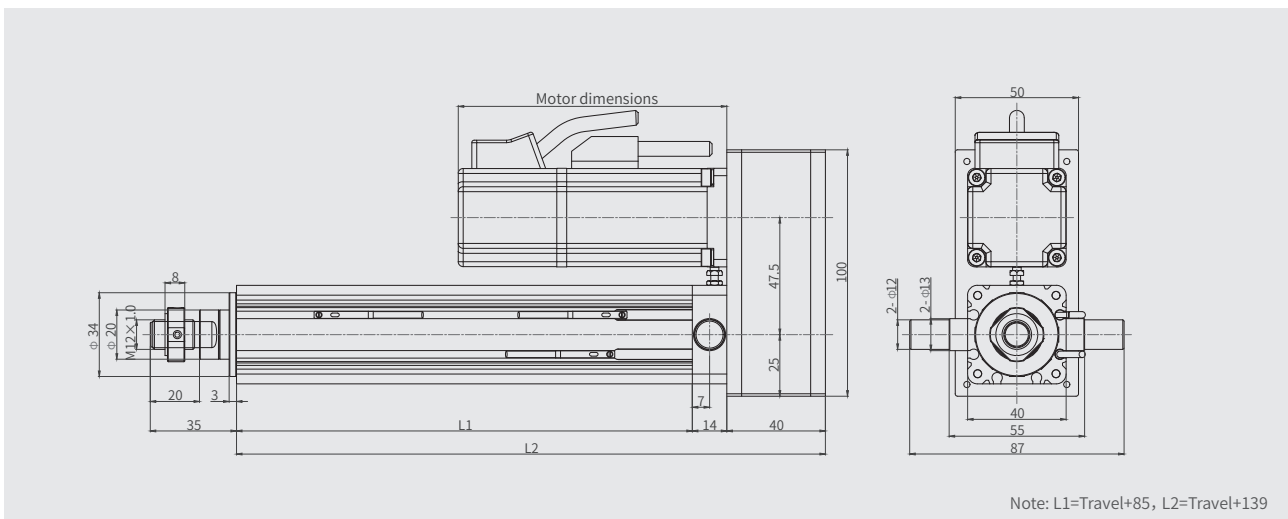
LY40-D-100W-DA



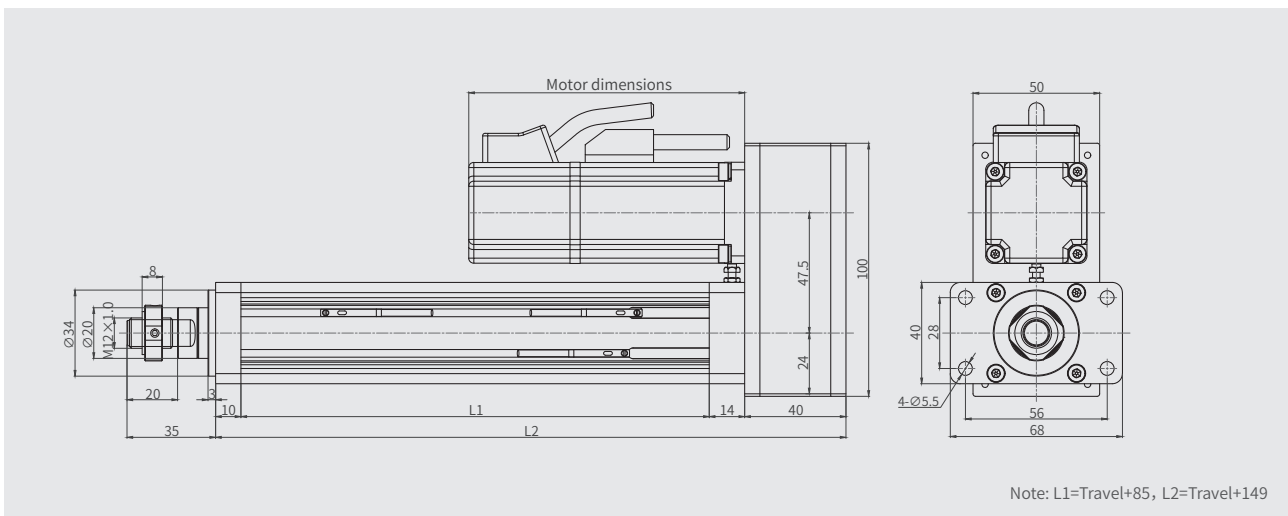
LY40-D-100W-DL



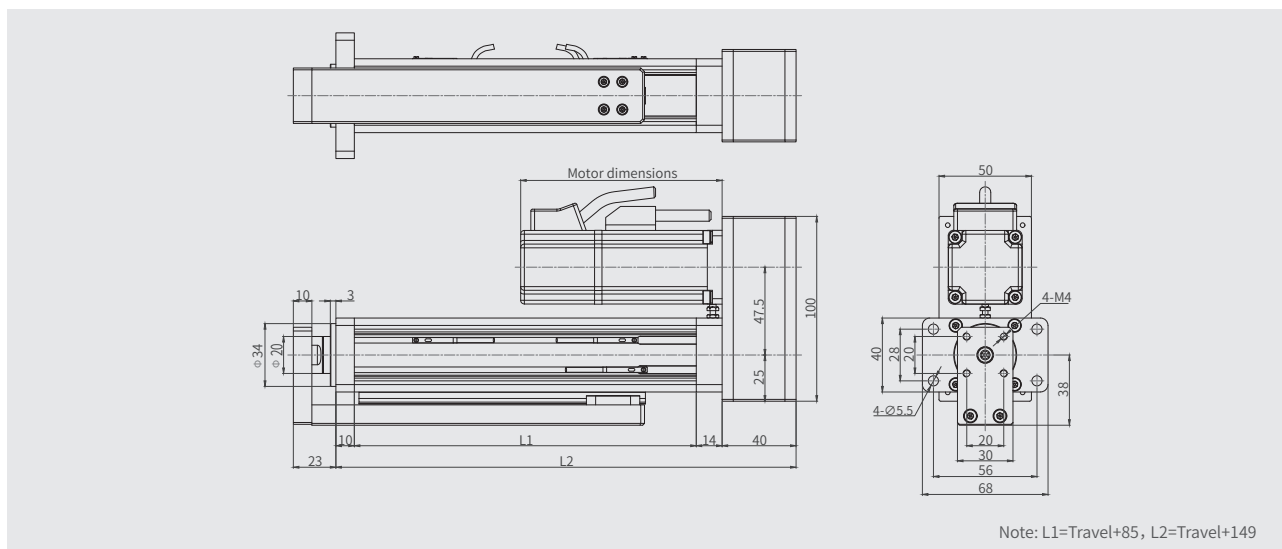
LY40-D-100W-EA



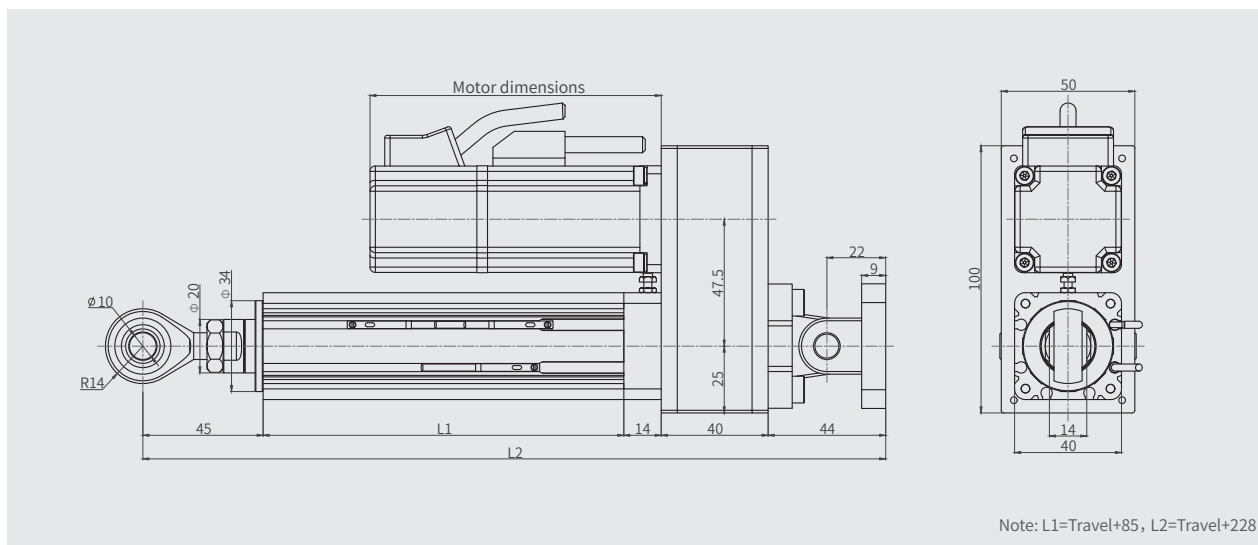
LY40-D-100W-FA



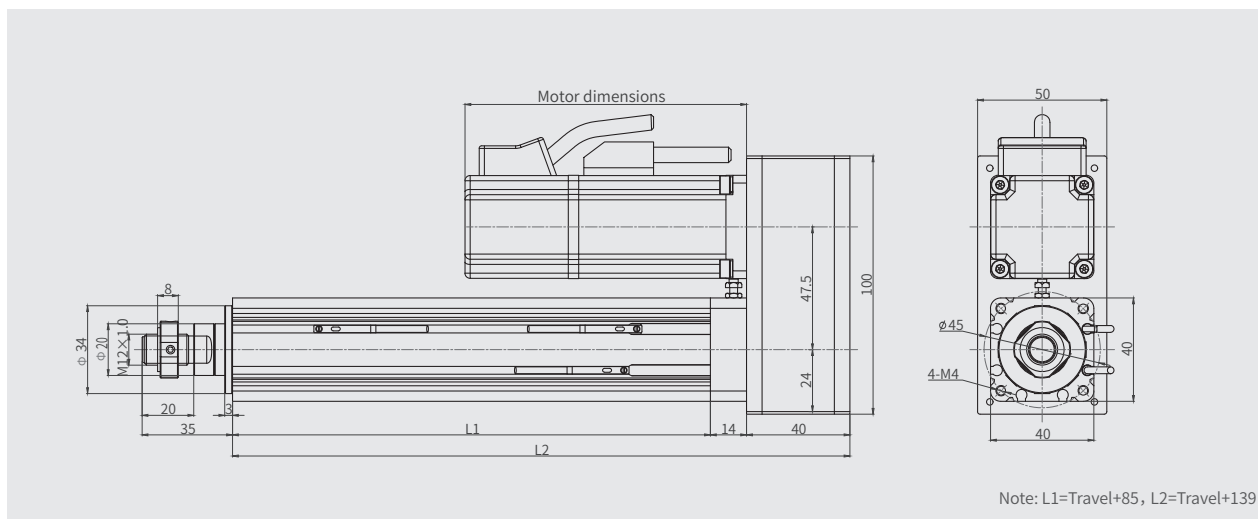
LY40-D-100W-HL



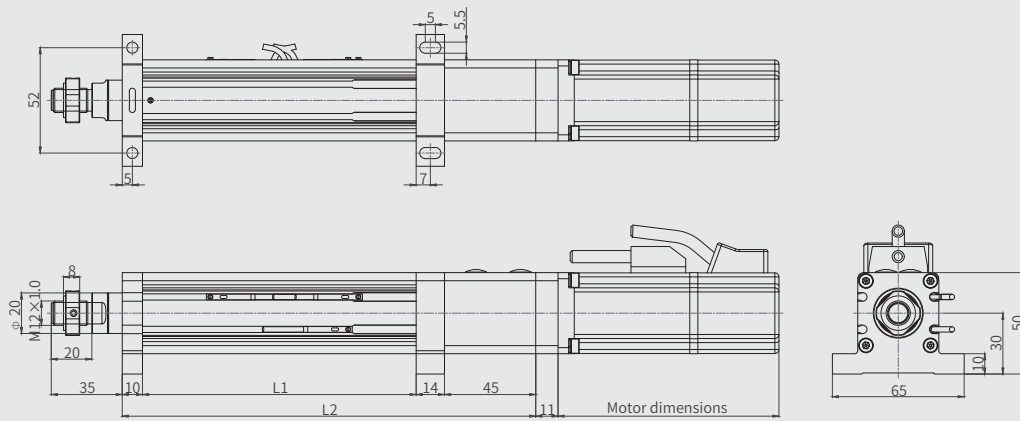
LY40-D-100W-JA



LY40-D-100W-SA

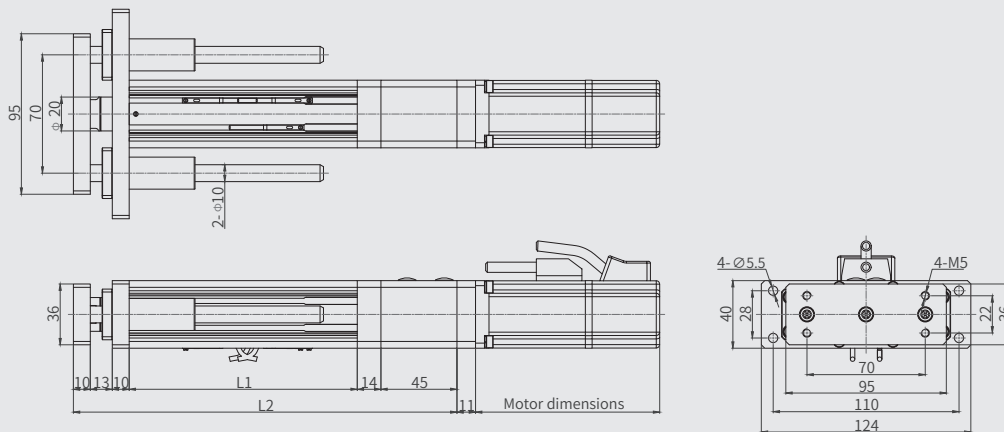


LY40-S-100W-CA



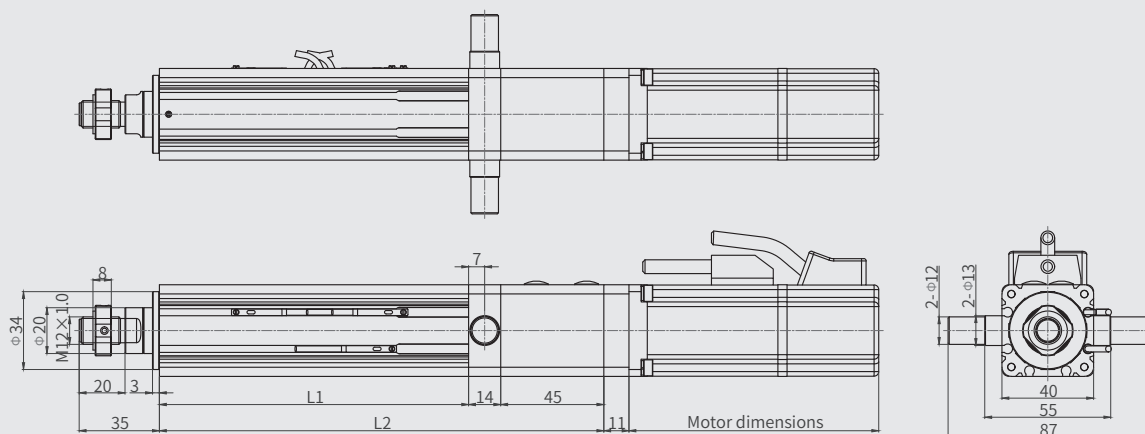
Note: L1=Travel+85, L2=Travel+154

LY40-S-100W-DL



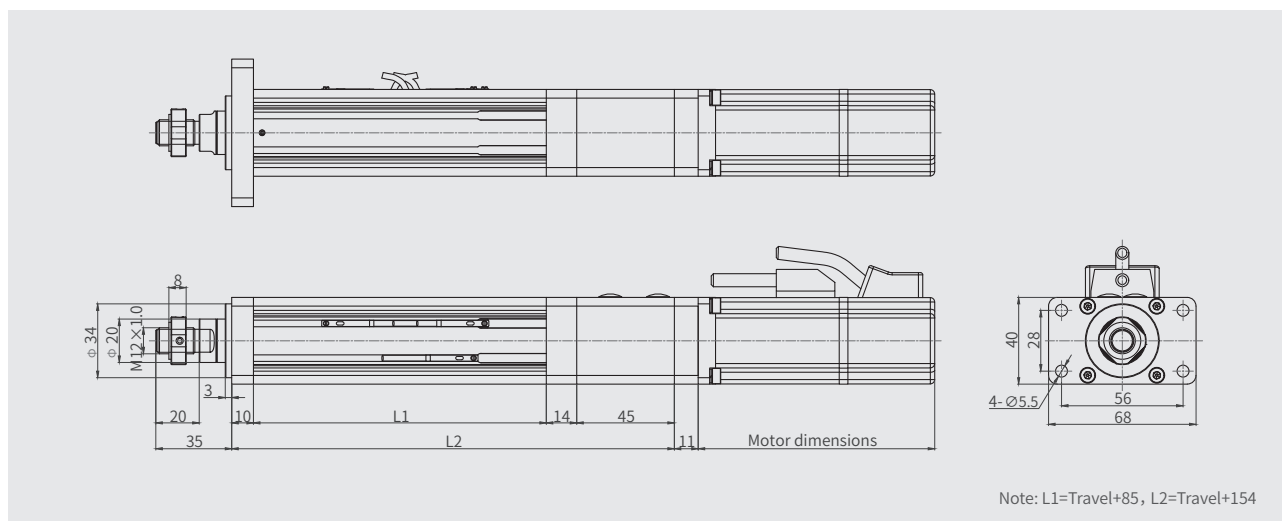
Note: L1=Travel+85, L2=Travel+177

LY40-S-100W-EA

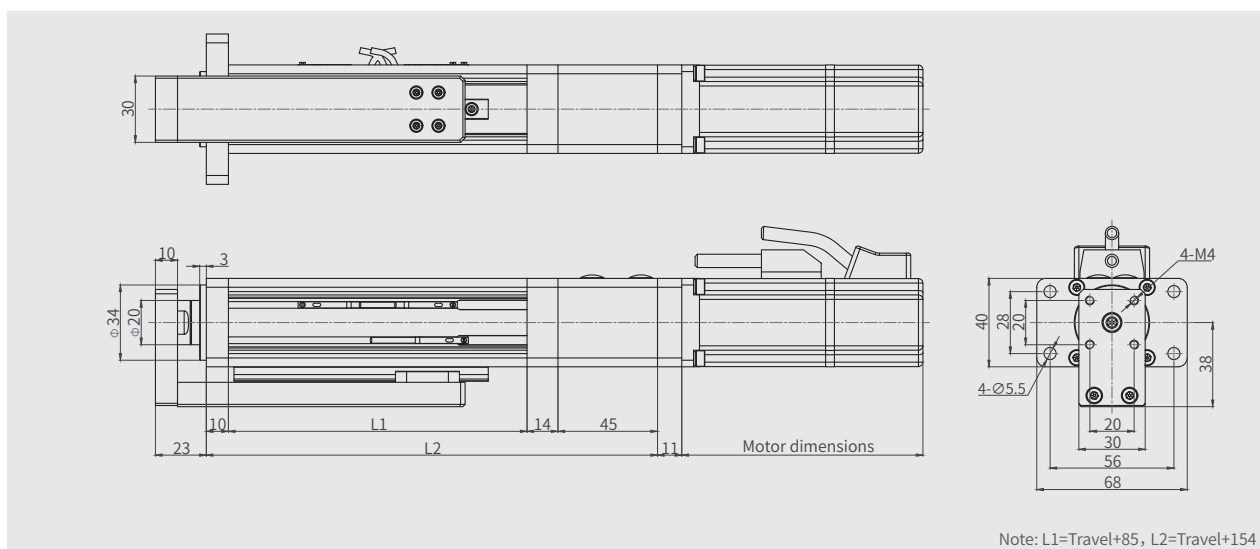


Note: L1=Travel+85, L2=Travel+144

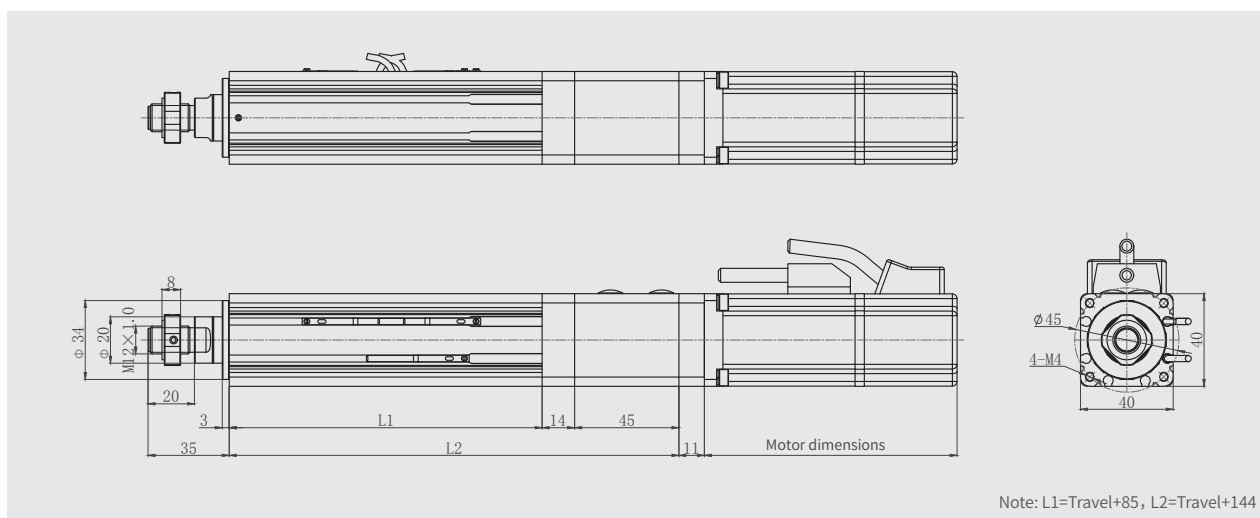
LY40-S-100W-FA



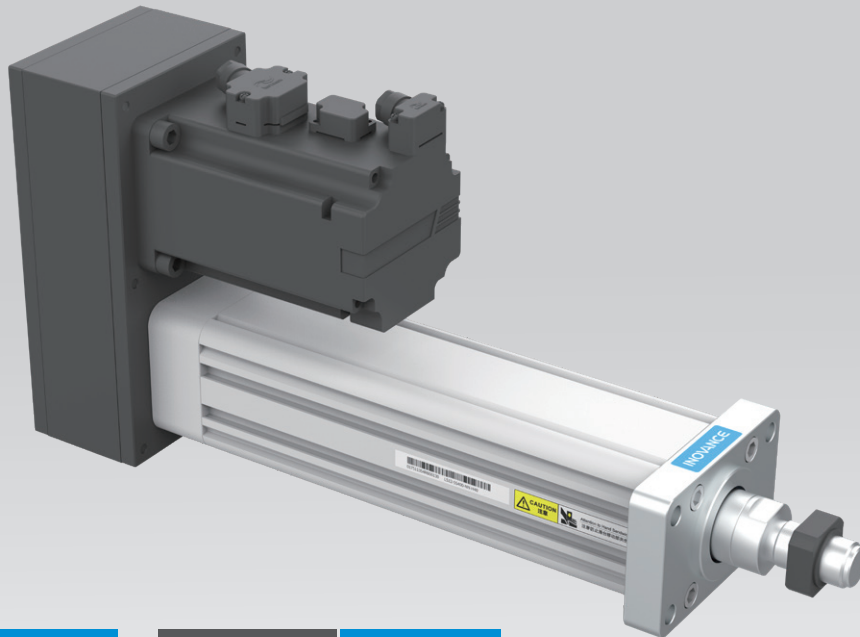
LY40-S-100W-HL



LY40-S-100W-SA



LY 50 Lead Screw-Driven Electric Cylinder



Max. travel 400 mm Max. speed 500 mm/s

Motor power 200 W Ball screw $\varnothing 12$ mm

Model Description

L Y 50 - 5 S 100 - N 3 0 - 20 B - 2 - VP - FA - OS - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯

① Series number L	⑥ Travel 50 mm to 400 mm Interval of 50 mm	⑪ Brake None: No brake B: Brake	⑫ Deceleration of timing pulley, reduction ratio of 2:1
② Cylinder type Y: Lead Screw-Driven Electric Cylinder	⑦ Sensor type N: NPN sensor P: PNP sensor	⑬ Drive type VP: Standard SV660P drive VN: Standard SV660N drive	
③ Width 50: 53 mm	⑧ Number of NO switches 0: No 1: 1 2: 2 3: 3	⑭ Installation method FA: Front flange-mounted DA: Rear flange-mounted CA: Horizontal mounting ¹ EA: Trunnion mounting	JA: Hinged support mounting DL: Guide pillar mounting SA: Front lock mounting HL: Backpack mounting
④ Lead 5: 5 mm	⑨ Number of NC switches 0: No 1: 1 2: 2 3: 3	⑮ Rod head connection mode IS: Internal thread OS: External thread Y: Rod end bearing U: U-shape hinge I: I-shape joint	⑯ Customization
⑤ Motor position S: Direct connected D: Connected down	⑩ Motor power 20: 200 W		

Basic Parameters

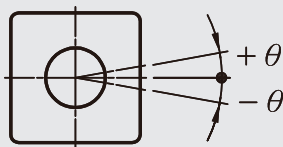
Item	Specification			
Standard Electromechanical Rated Power (kW)	0.2		0.4	
Electromechanical Rated Torque (N · m)	0.64		1.27	
Electromechanical Rated Speed (r/min)	3,000		3,000	
Screw Specification	1,205	1,210	1,205	1,210
Reduction Ratio	Timing pulley speed ratio (1:1/1.5:1/2:1)			
Repeatability (mm)	± 0.02			
Standard Electromechanical Rated Thrust (kN)	0.68	0.34	1.36	0.68
Standard Electromechanical Rated Speed (mm/s)	250	500	250	500
Maximum Effective Travel (mm)	400			
Maximum Load Thrust (kN)	1.5			
Maximum Telescopic Speed (mm/s)	500			
Magnetic Switch	DGHON-TN		NPN	
	DGHON-TP		PNP	

Note: (1) For a travel over 400 mm, contact our business personnel.

(2) The motor acceleration/deceleration is set to 0.2s.

Anti-Backlash Precision

Anti-backlash precision of pushing rod



Anti-backlash precision θ

$\pm 0.3^\circ$

Note: Prevent rotational torque to the piston rod during use, as it may cause deformation of the anti-rotation block, response error of the automatic switch, and deformation of the internal slide rail, subsequently increasing the actuating resistance.

Standard Parameter Configuration

Basic Parameters

Cylinder Outer Diameter	53 mm x 53 mm
Cylinder Inner Diameter	φ40 mm
Allowed Maximum Thrust	≤ 1.5 kN
Travel Range	≤ 400 mm
Allowed Maximum Speed	≤ 500 mm/s
Rotation Angle of Piston Rod	±0.3°
Limit Switch	Magnetic induction switch

Screw Parameters

Screw Model	SFA1205-2.8
	SFA1210-2.8
Screw Type	Ball screw
Screw Diameter	12 mm
Screw Lead	05 mm
	10 mm
Dynamic Load Ca (kN)	6.4
	6.2
Static Load Coa (kN)	12.9
	12.6
Stiffness (kgf/μm)	19
Ball Diameter	2.5 mm
Lead Screw	8K3
Slenderness Ratio	1:30
Accuracy Class/Positioning Precision	C5/±0.01
	C7/±0.02

Bearing Parameters

Bearing Model	Deep groove ball 6200-2RS
Dynamic Load Cr (kN)	5.1
Static Load Cor (kN)	2.39

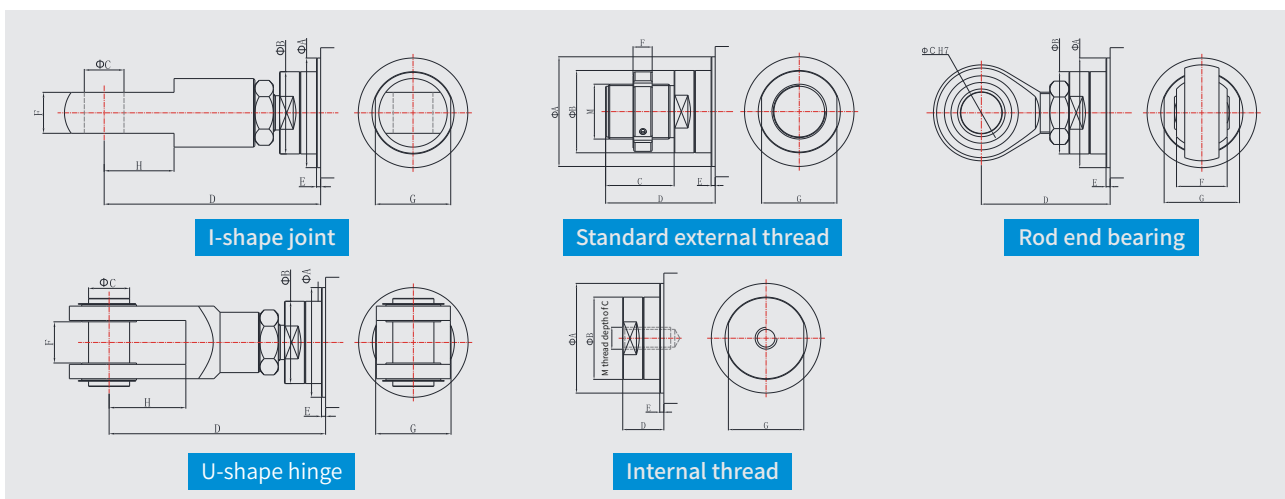
Optional Parameters

Screw Lead	05 mm
	10 mm
Timing Pulley Speed Ratio (Input: Output)	1:1
	1.5:1
	2:1
Direct-Coupled Motor	40-frame servo motor
	60-frame servo motor
	57 stepper motor
Adapted Reducer	No

Timing Pulley and Timing Belt Parameters

Timing Pulley Speed Ratio	1:1
	1.5:1
	2:1
Driving Gear Specification	3M15T27
Driven Gear Specification	3M15T23
Number of Teeth in Driving Gear	32
	32
	24
Number of Teeth in Driven Gear	32
	48
	48
Timing Pulley Center Distance	60 mm
Timing Belt Perimeter	216
	240
	231
Timing Belt Width	15 mm

Dimensions of Front Connection

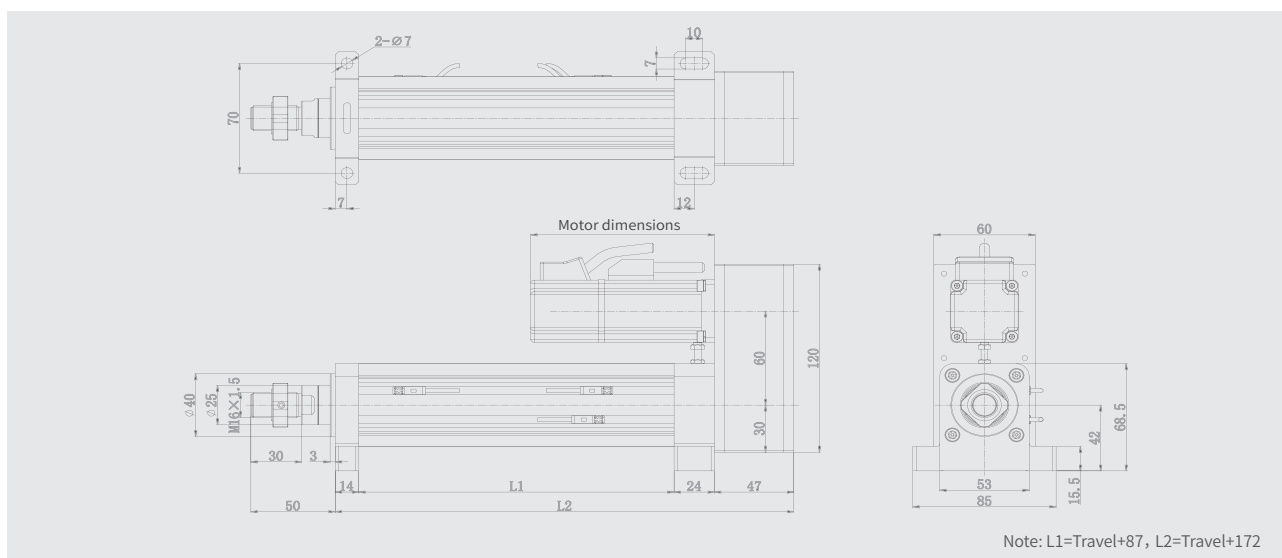


Dimension Table (Unit: mm)

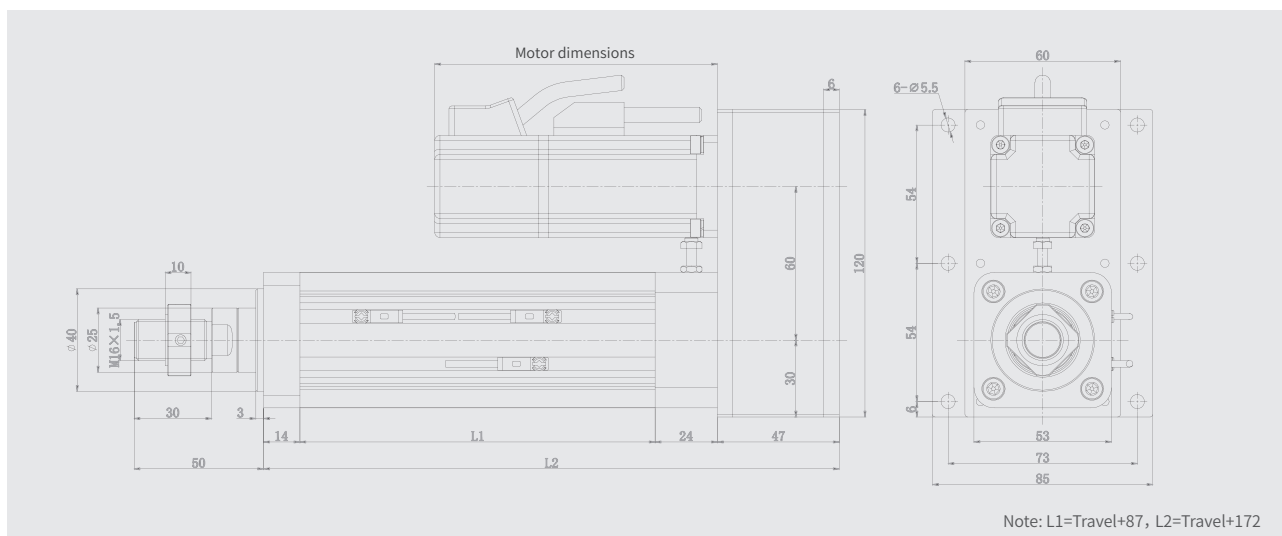
Load Type	ΦA	ΦB	ΦC	C	D	E	F	H	G	M
Standard external thread	Φ40	Φ25	-	30	50	3	10	-	22	M16 x 1.5
Internal thread	Φ40	Φ25	-	20	20	3	-	-	22	M10
I-shape joint	Φ40	Φ25	Φ12	-	78	3	12	24	22	-
Rod end bearing	Φ40	Φ25	Φ12	-	53	3	16	-	22	-
U-shape hinge	Φ40	Φ25	Φ12	-	78	3	12	24	25.4	-

Diagram of Standard Dimensions

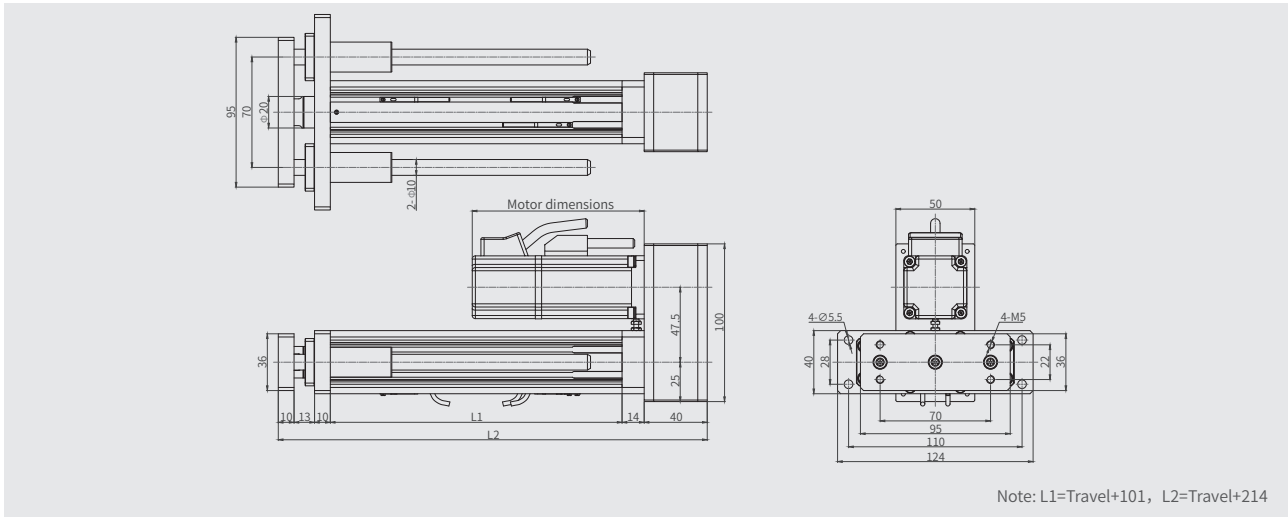
LY50-D-200W-CA



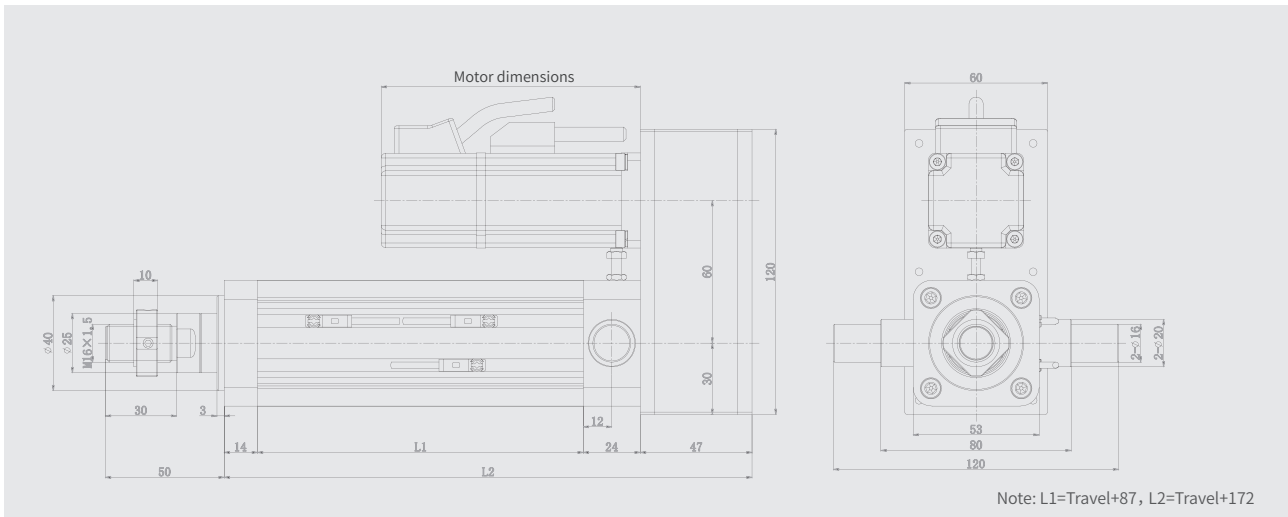
LY50-D-200W-DA



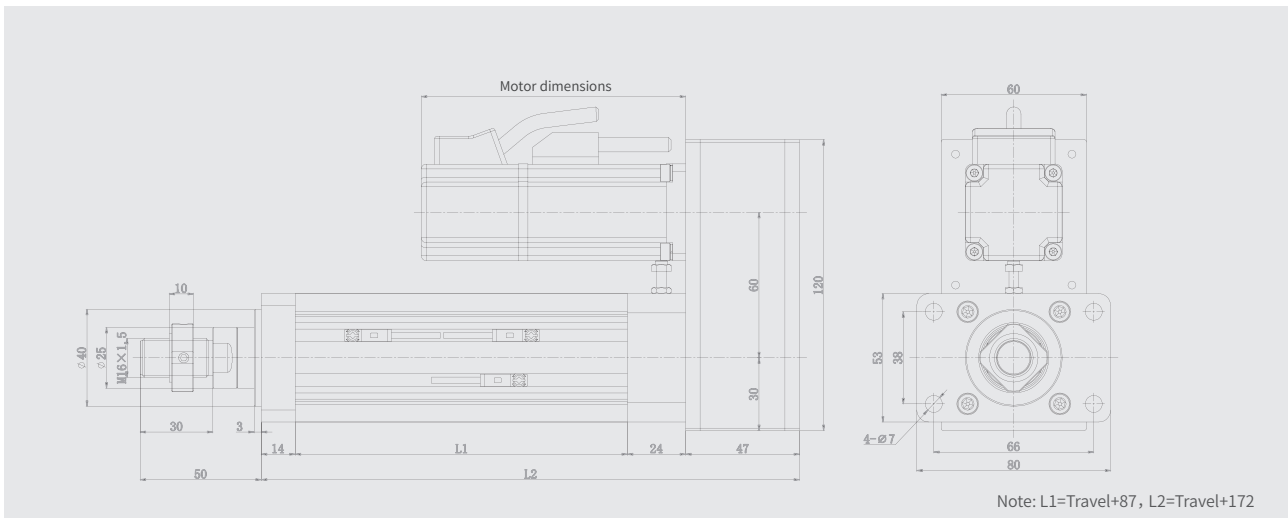
LY50-D-200W-DL



LY50-D-200W-EA



LY50-D-200W-FA



LS Series

LSC Series

GS Series

LEB Series

LB Series

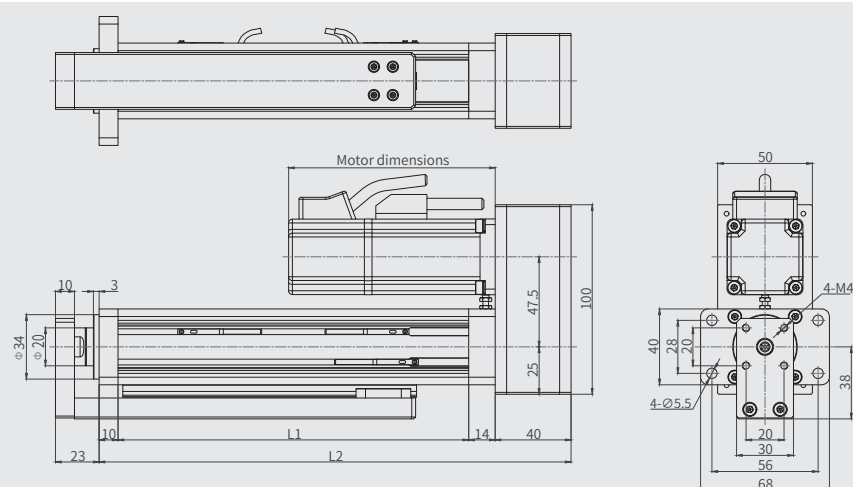
LBC Series

KS Series

LY Series

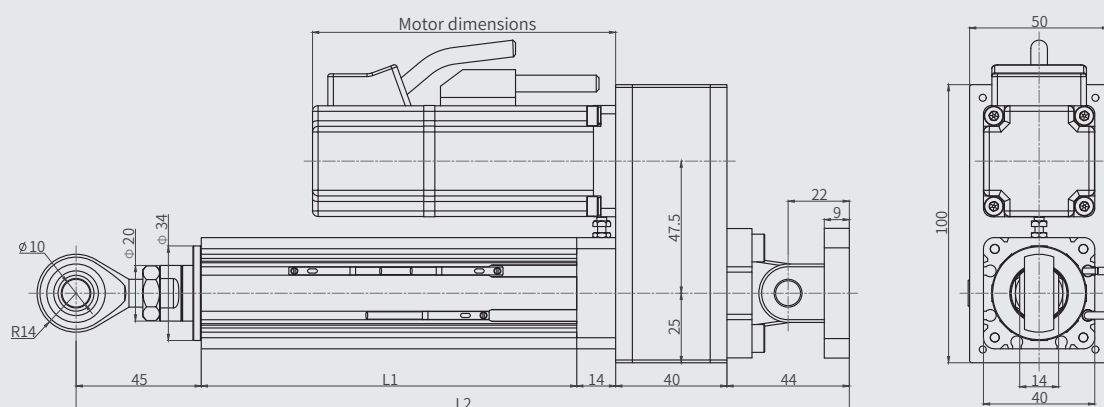
GY Series

LY50-D-200W-HL



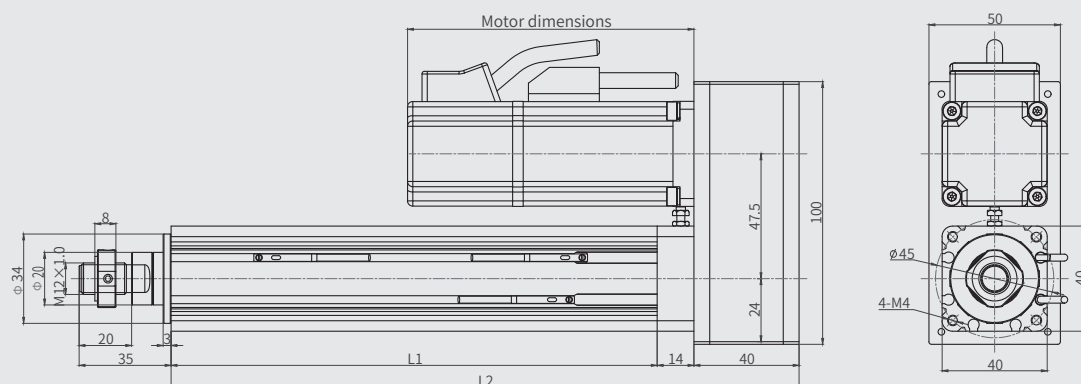
Note: L1=Travel+101, L2=Travel+202

LY50-D-200W-JA



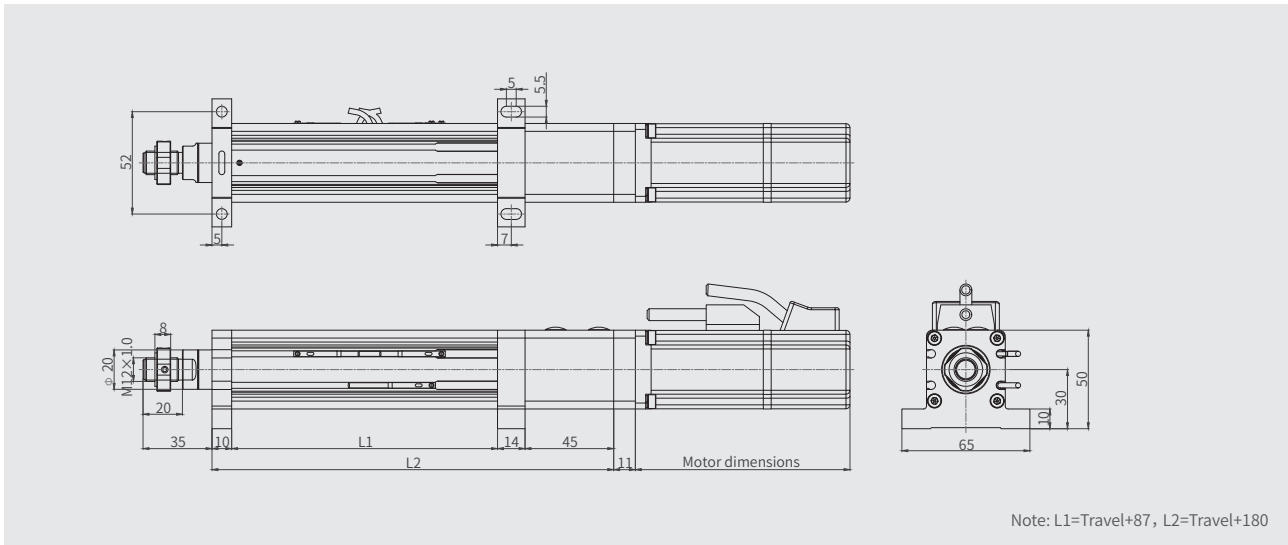
Note: L1=Travel+87, L2=Travel+278

LY50-D-200W-SA

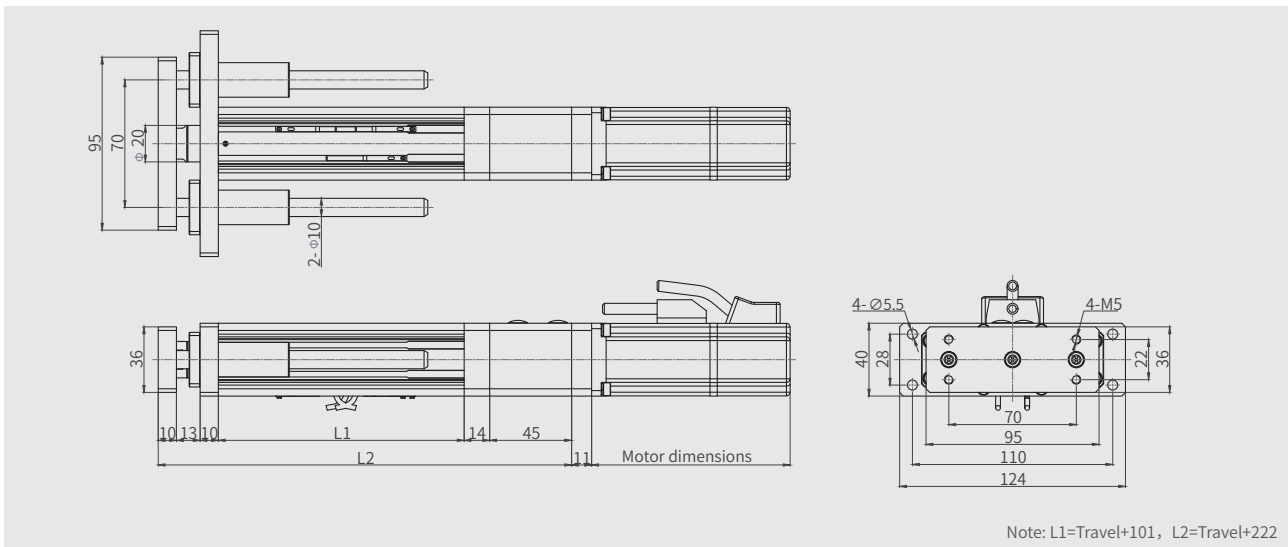


Note: L1=Travel+101, L2=Travel+172

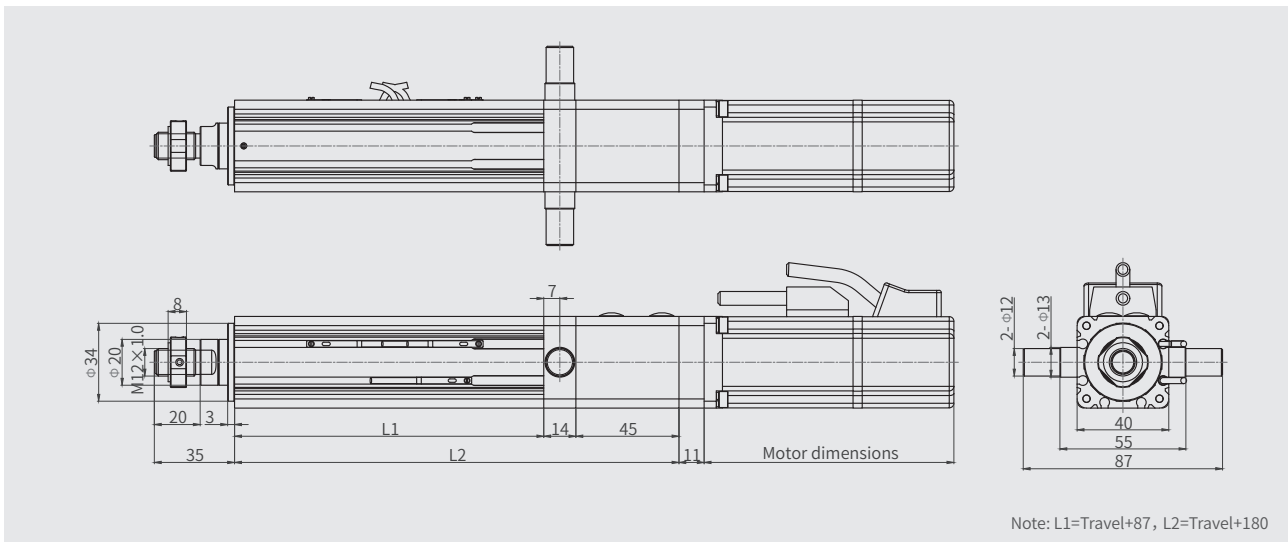
LY50-S-200W-CA



LY50-S-200W-DL



LY50-S-200W-EA



LS Series

LSC Series

GS Series

LEB Series

LB Series

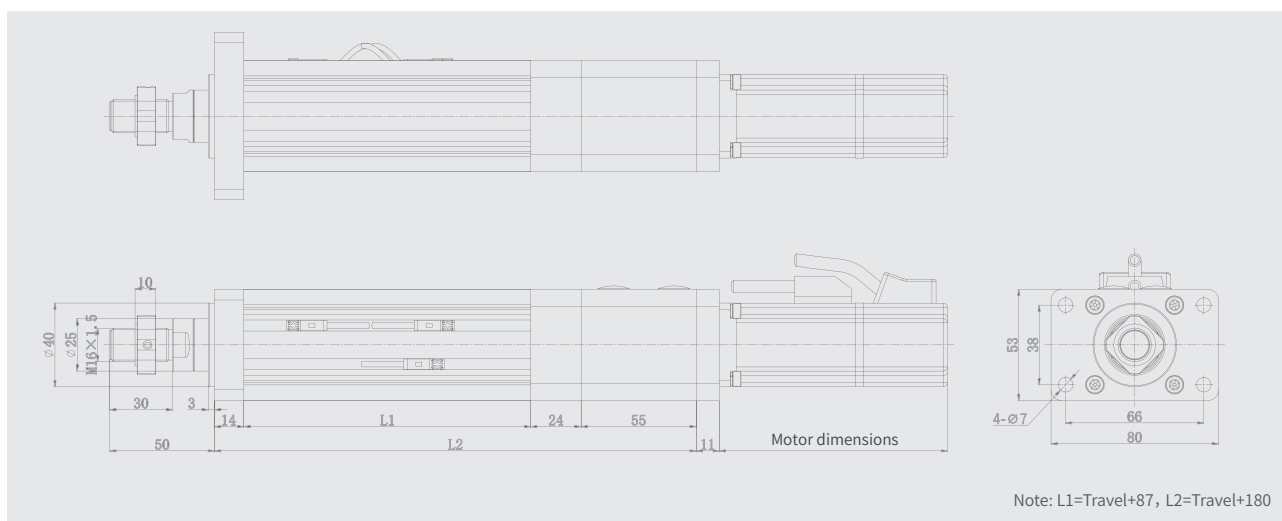
LBC Series

KS Series

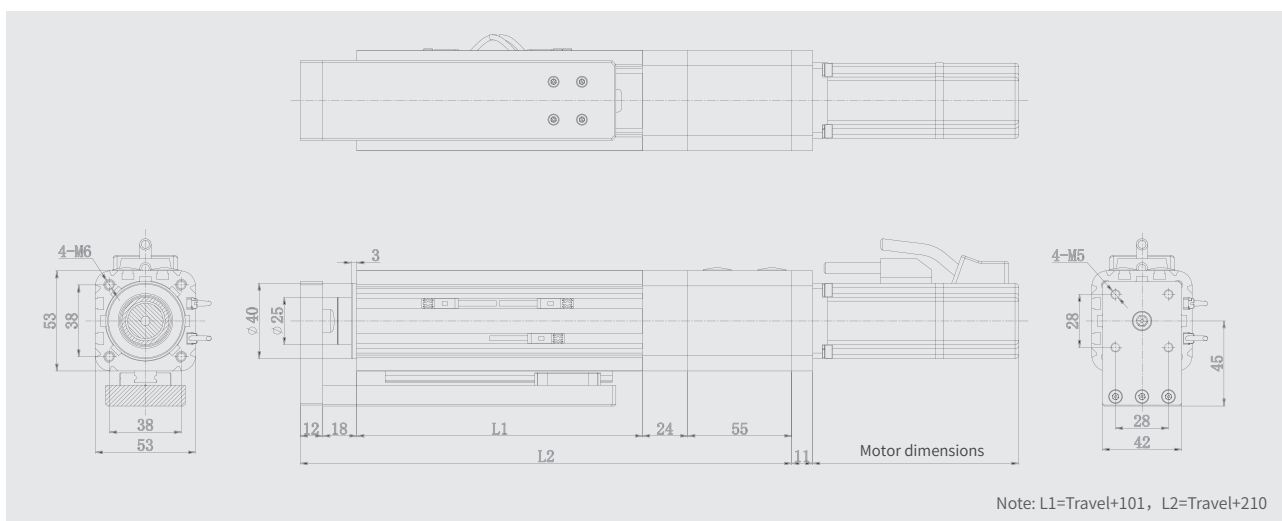
LY Series

GY Series

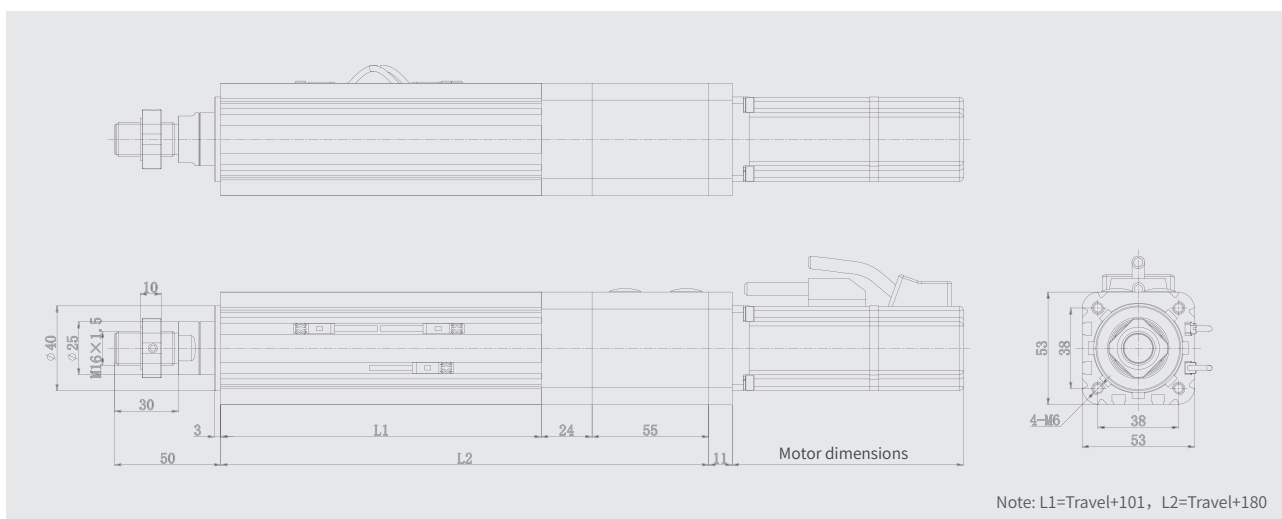
LY50-S-200W-FA



LY50-S-200W-HL

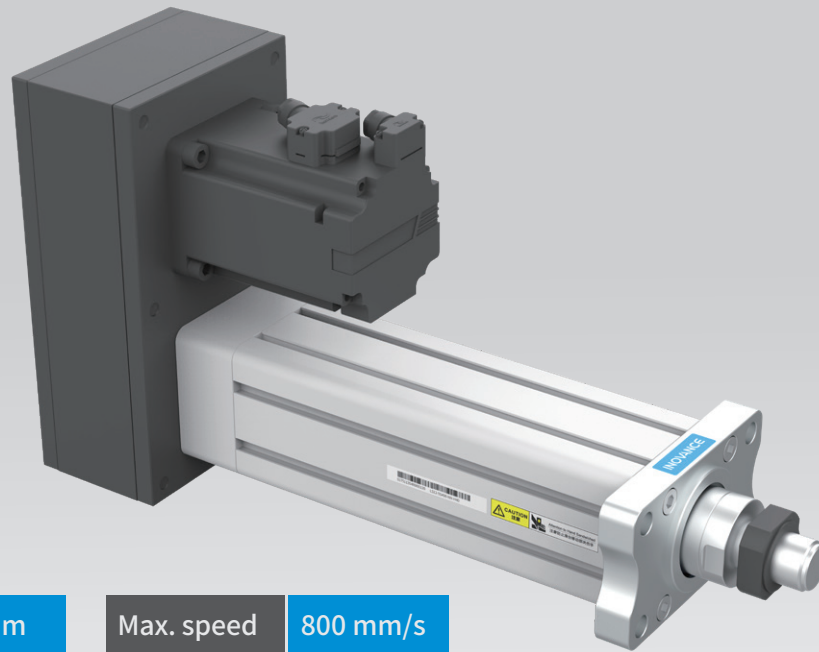


LY50-S-200W-SA



LY 65

Lead Screw-Driven Electric Cylinder



Max. travel	600 mm	Max. speed	800 mm/s
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Motor power	400 W	Ball screw	ø16 mm
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Model Description

L Y 65 - 10 S 100 - N 3 0 - 40 B - 2 - VP - FA - OS - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯

① Series number L	⑥ Travel 50 mm to 600 mm Interval of 50 mm	⑪ Brake None: No brake B: Brake	⑫ Deceleration of timing pulley, reduction ratio of 2:1
② Cylinder type Y: Lead Screw-Driven Electric Cylinder	⑦ Sensor type N: NPN sensor P: PNP sensor	⑬ Drive type VP: Standard SV660P drive VN: Standard SV660N drive	
③ Width 65: 61 mm	⑧ Number of NO switches 0: No 1: 1 2: 2 3: 3	⑭ Installation method FA: Front flange-mounted DA: Rear flange-mounted CA: Horizontal mounting ¹ EA: Trunnion mounting JA: Hinged support mounting DL: Guide pillar mounting SA: Front lock mounting HL: Backpack mounting	
④ Lead 10: 10 mm	⑨ Number of NC switches 0: No 1: 1 2: 2 3: 3	⑮ Rod head connection mode IS: Internal thread OS: External thread Y: Rod end bearing U: U-shape hinge I: I-shape joint	⑯ Customization
⑤ Motor position S: Direct connected D: Connected down	⑩ Motor power 40: 400 W		

Basic Parameters

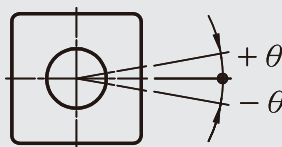
Item	Specification							
Standard Electromechanical Rated Power (kW)	0.4				0.75			
Electromechanical Rated Torque (N · m)	1.27				2.39			
Electromechanical Rated Speed (r/min)	3,000				3,000			
Screw Specification	1,605	1,610	1,616	1,620	1,605	1,610	1,616	1,620
Reduction Ratio	Timing pulley speed ratio (1:1/1.5:1/2:1)							
Repeatability (mm)	±0.02							
Standard Electromechanical Rated Thrust (kN)	1.35	0.68	0.42	0.33	2.55	1.28	0.8	0.63
Standard Electromechanical Rated Speed (mm/s)	250	500	800	800	250	500	800	800
Maximum Effective Travel (mm)	600							
Maximum Load Thrust (kN)	5							
Maximum Telescopic Speed (mm/s)	800							
Magnetic Switch	DGHON-TN				NPN			
	DGHON-TP				PNP			

Note: (1) For a travel over 600 mm, contact our business personnel.

(2) The motor acceleration/deceleration is set to 0.2s.

Anti-Backlash Precision

Anti-backlash precision of pushing rod



Anti-backlash precision θ

±0.3°

Note: Prevent rotational torque to the piston rod during use, as it may cause deformation of the anti-rotation block, response error of the automatic switch, and deformation of the internal slide rail, subsequently increasing the actuating resistance.

Standard Parameter Configuration

Basic Parameters

Cylinder Outer Diameter	Cylinder Inner Diameter	Allowed Maximum Thrust	Travel Range	Allowed Maximum Speed	Rotation Angle of Piston Rod	Limit Switch
61 mm x 61 mm	φ50 mm	≤ 5 kN	≤ 600 mm	≤ 800 mm/s	±0.3°	Magnetic induction switch

Optional Parameters

Screw Lead	Timing Pulley Speed Ratio (Input: Output)	Direct-Coupled Motor		Adapted Reducer
05 mm	1:1 1.5:1 2:1	60-frame servo motor	57 stepper motor	No
10 mm				
16 mm				
20 mm				

Screw Parameters

Screw Model	Screw Type	Screw Diameter	Screw Lead	Dynamic Load Ca (kN)	Static Load Coa (kN)	Stiffness kgf/μm	Ball Diameter	Lead Screw	Slenderness Ratio	Accuracy Class/ Positioning Precision
SFNU1605-4	Ball screw	16 mm	05 mm	13.5	29.9	32	3.175 mm	10K3	1:30	C5/±0.01 C7/±0.02
SFNU1610-3			10 mm	10.8	23.5	26				
SFA1616-1.8			16 mm	5.4	11.1	14	2.778 mm			
SFA1620-1.8			20 mm	5.4	11.4					

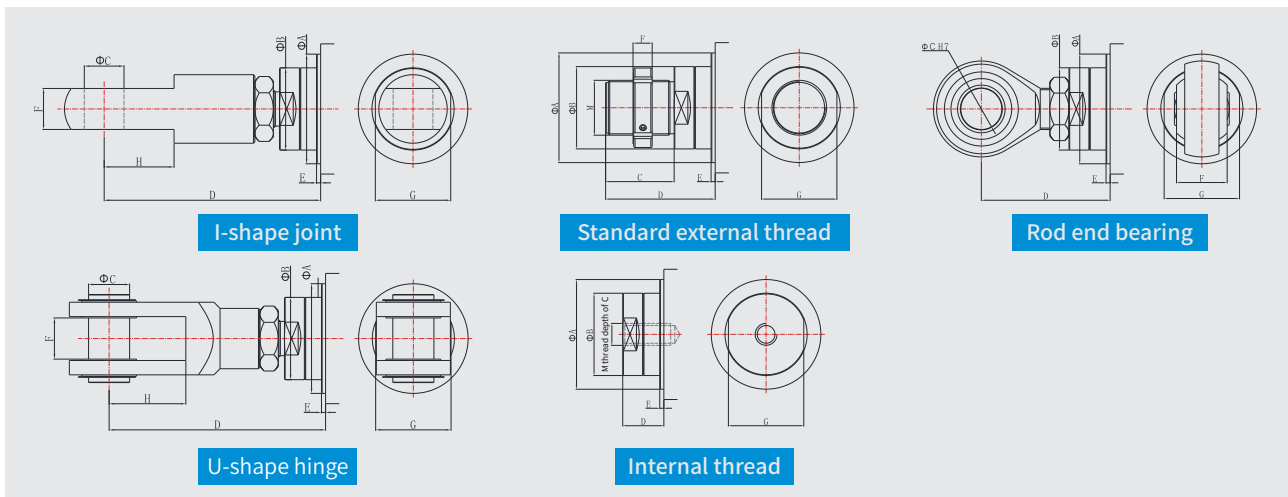
Bearing Parameters

Bearing Model	Dynamic Load Cr (kN)	Static Load Cor (kN)
Deep groove ball bearing 6301-ZZ	9.7	4.2

Timing Pulley and Timing Belt Parameters

Timing Pulley Speed Ratio	Driving Gear Specification	Driven Gear Specification	Number of Teeth in Driving Gear	Number of Teeth in Driven Gear	Timing Pulley Center Distance	Timing Belt Perimeter	Timing Belt Width
1:1	5M15T29	5M15T29	36	36	85 mm	350	15 mm
1.5:1			24	36		320	
2:1			24	48		355	

Dimensions of Front Connection

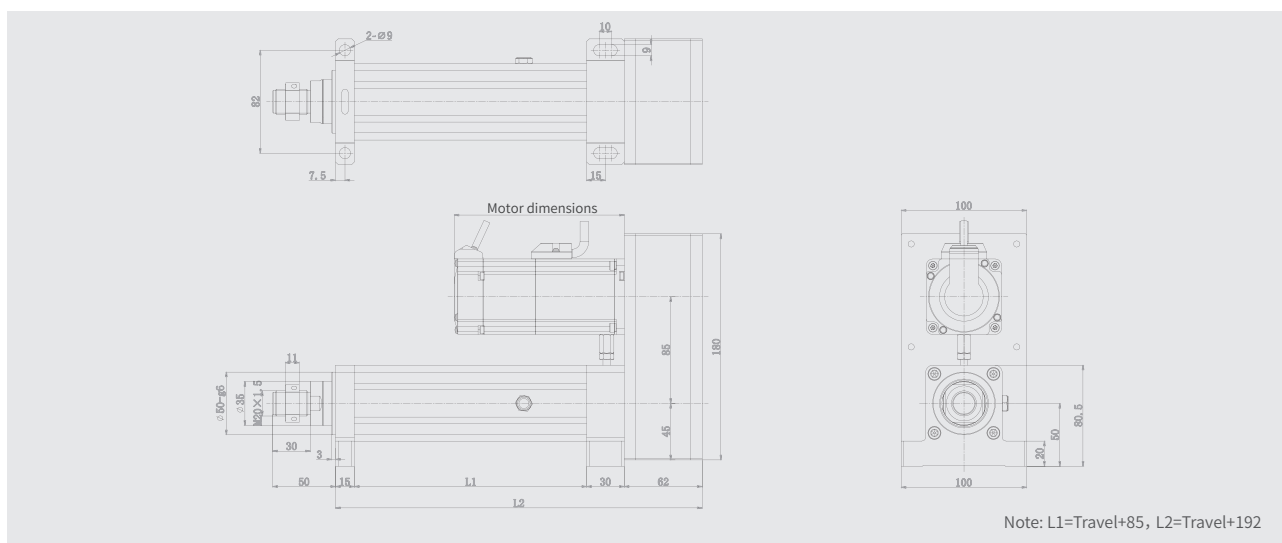


Dimension Table (Unit: mm)

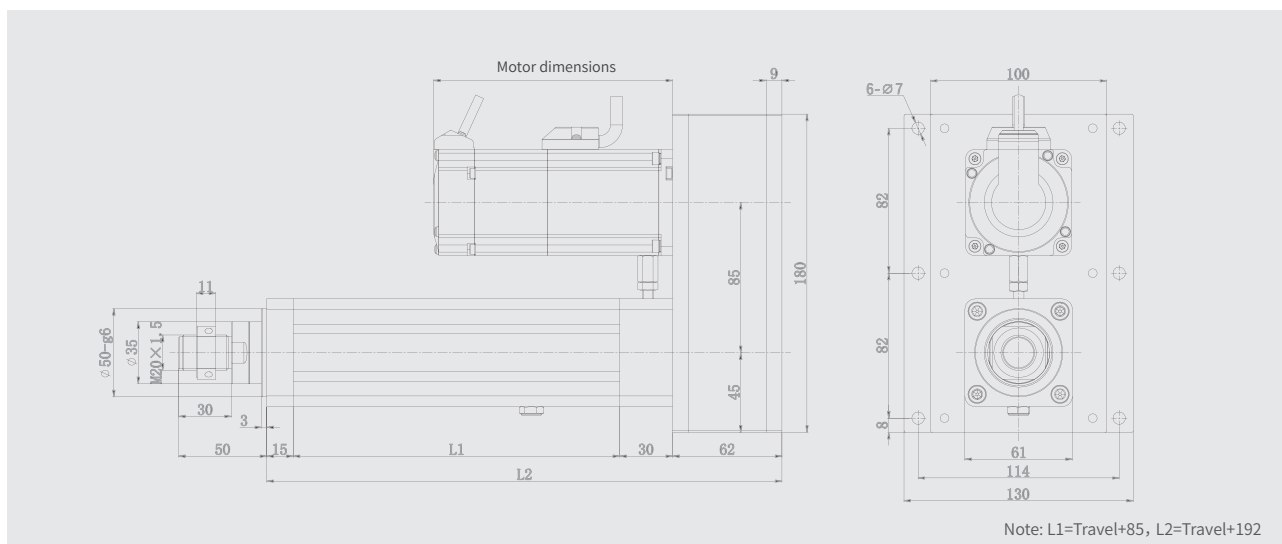
Load Type	ΦA	ΦB	ΦC	C	D	E	F	H	G	M
Standard external thread	Φ50	Φ35	-	30	50	3	11	-	33	M20 x 1.5
Internal thread	Φ50	Φ35	-	30	20	3	-	-	33	M16
I-shape joint	Φ50	Φ35	Φ16	-	95	3	16	32	33	-
Rod end bearing	Φ50	Φ35	Φ16	-	61	3	21	-	33	-
U-shape hinge	Φ50	Φ35	Φ16	-	95	3	16	32	32	-

Diagram of Standard Dimensions

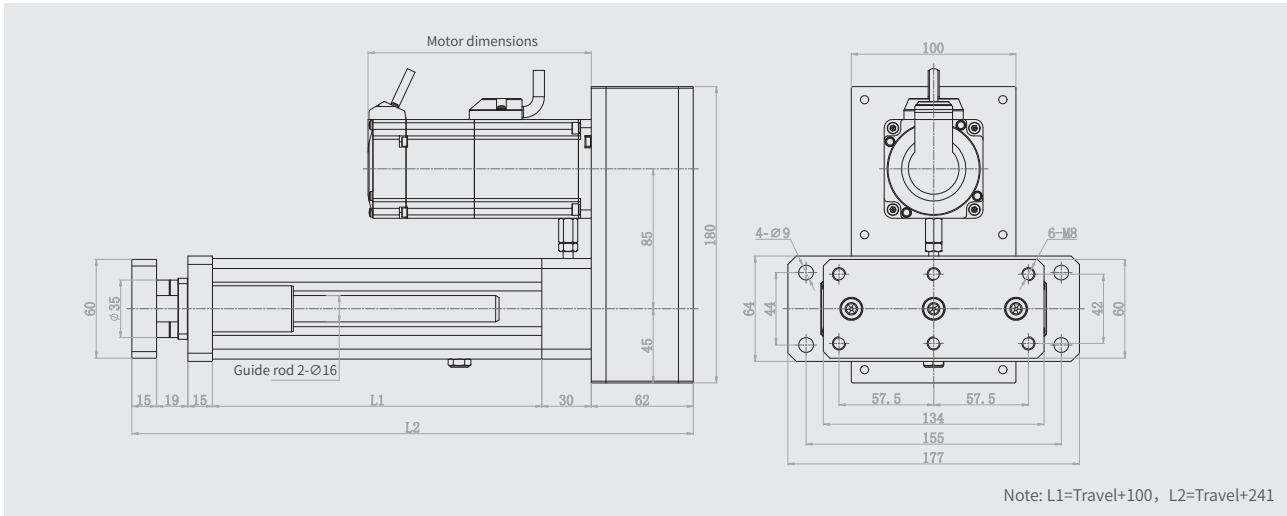
LY65-D-400W-CA



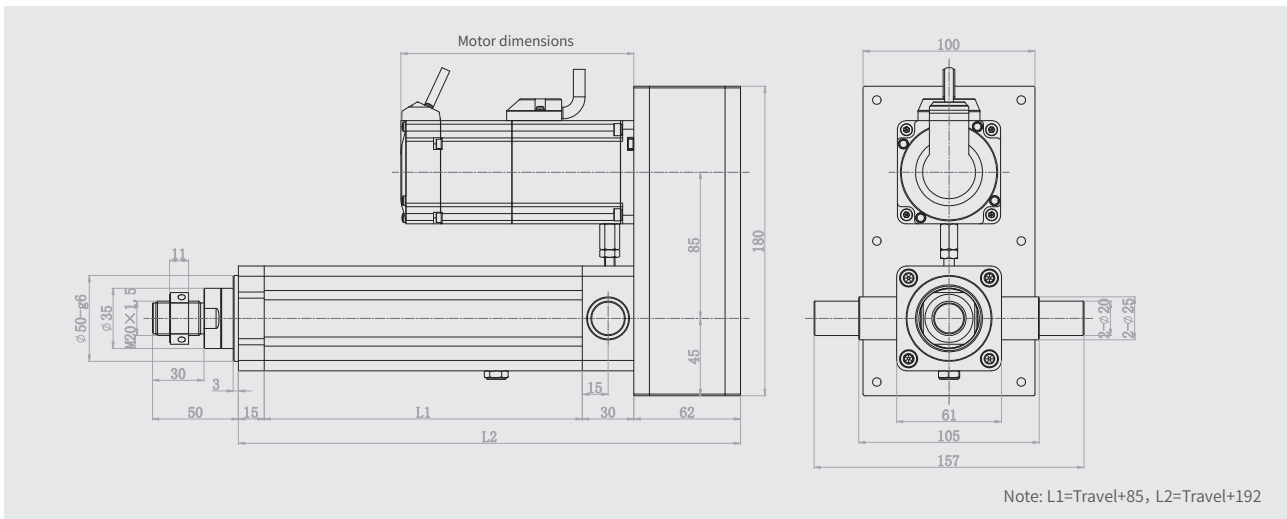
LY65-D-400W-DA



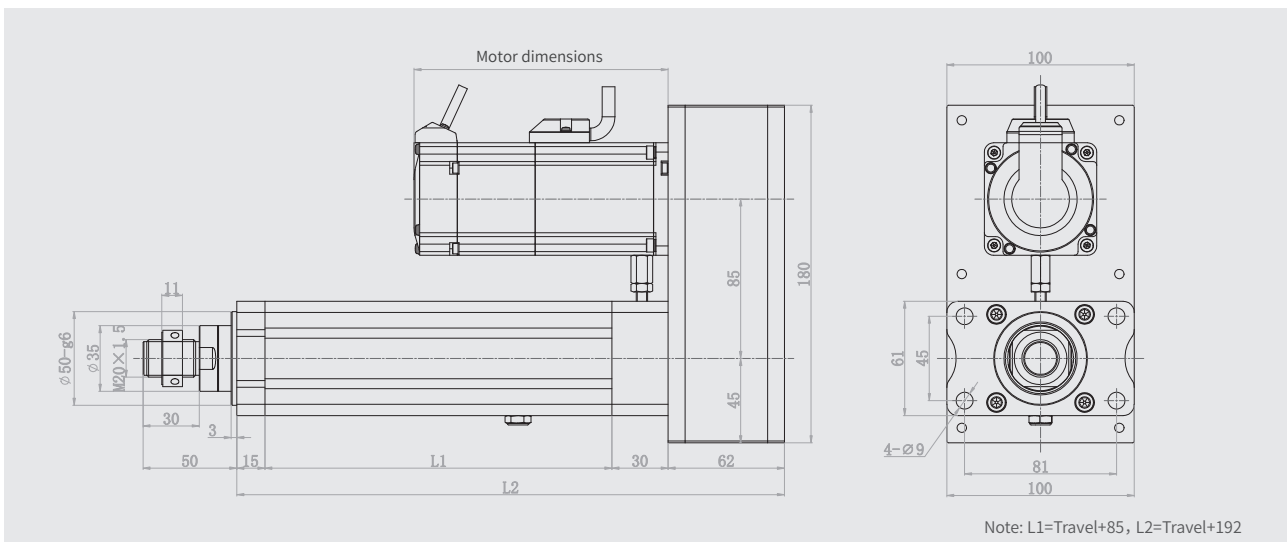
LY65-D-400W-DL



LY65-D-400W-EA



LY65-D-400W-FA



LS Series

LSC Series

GS Series

LEB Series

LB Series

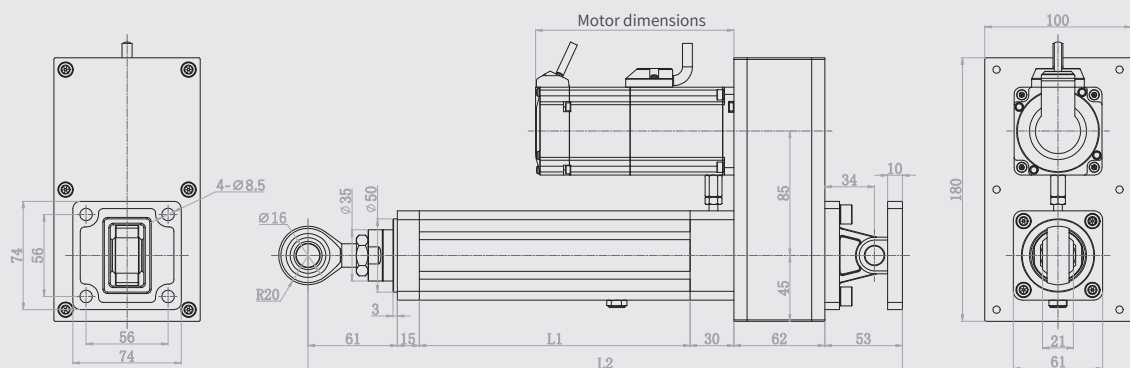
LBC Series

KS Series

LY Series

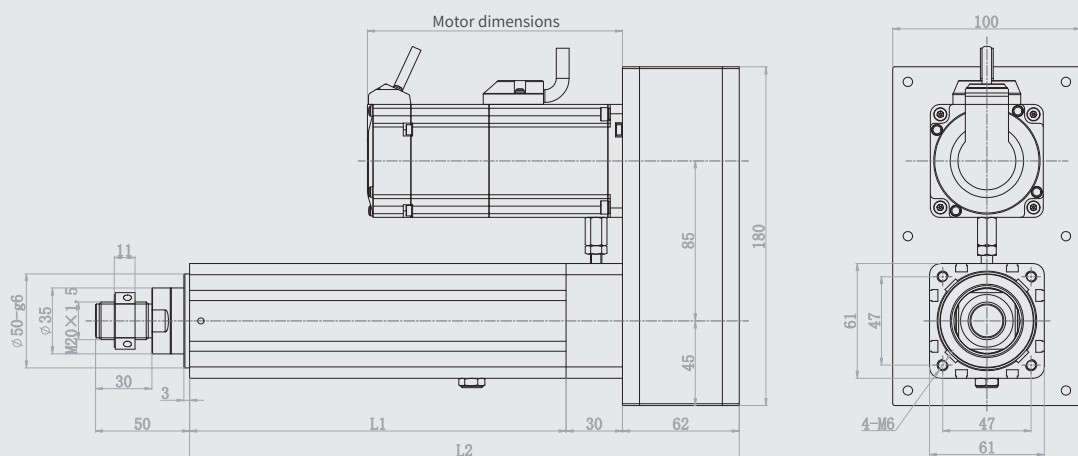
GY Series

LY65-D-400W-JA



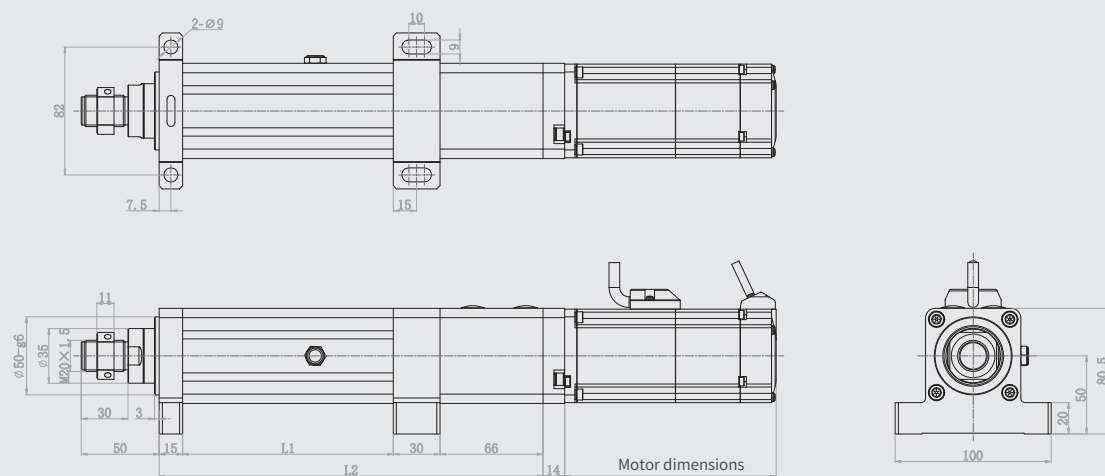
Note: L1=Travel+85, L2=Travel+306

LY65-D-400W-SA



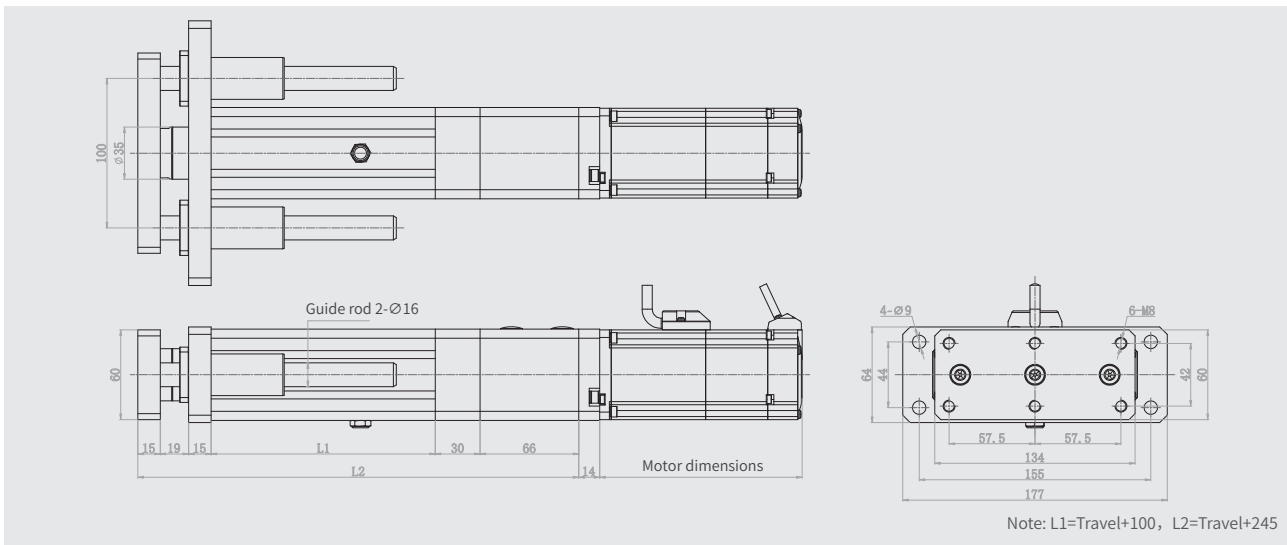
Note: L1=Travel+100, L2=Travel+192

LY65-S-400W-CA

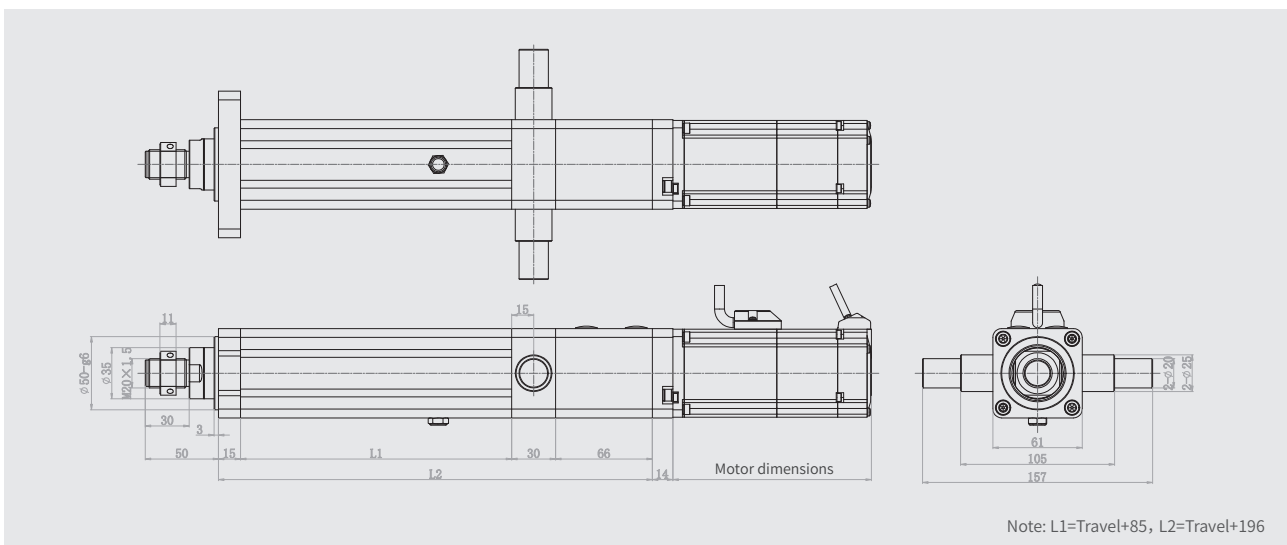


Note: L1=Travel+85, L2=Travel+196

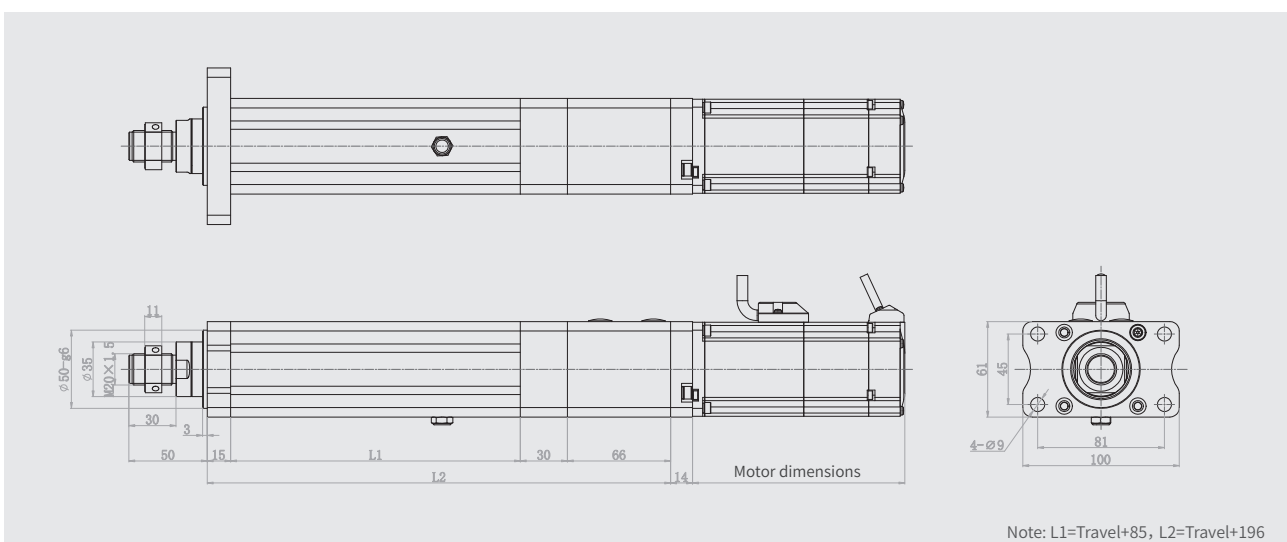
LY65-S-400W-DL



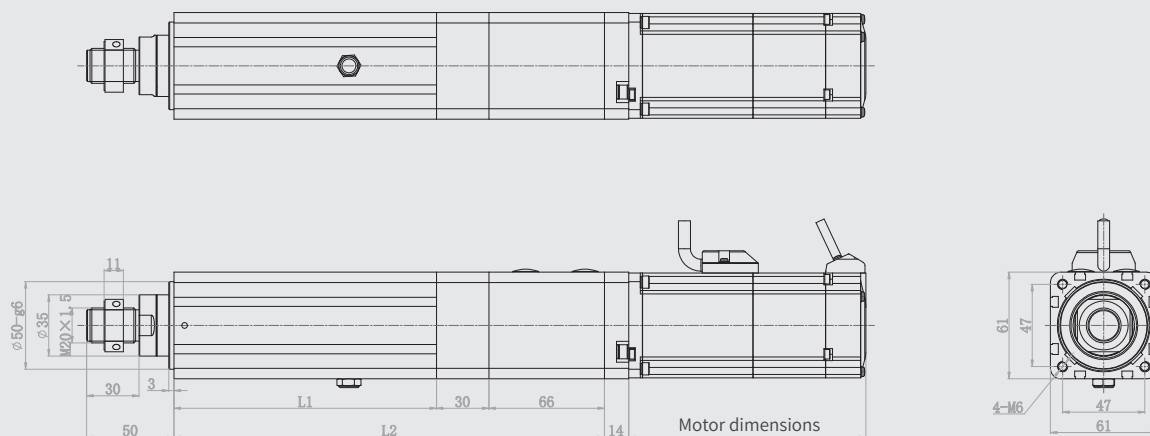
LY65-S-400W-EA



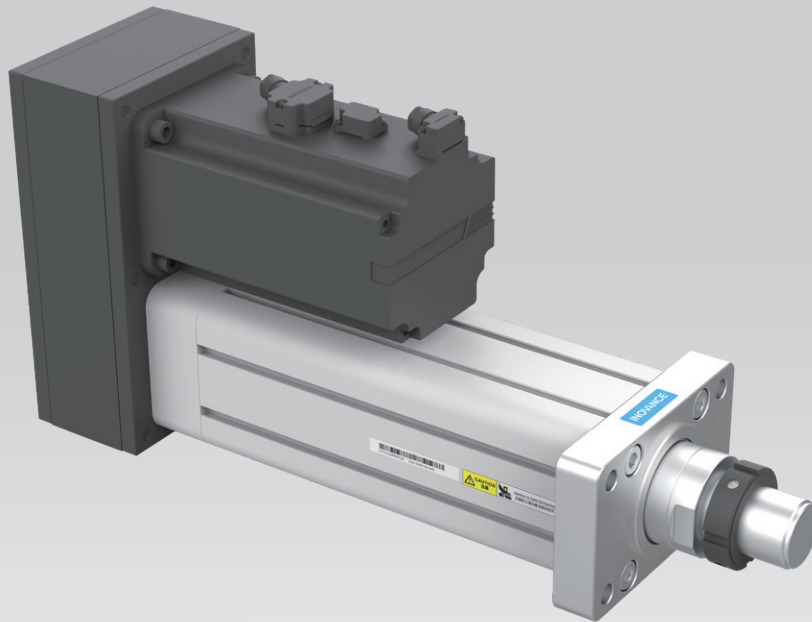
LY65-S-400W-FA



LY65-S-400W-SA



LY 75 Lead Screw-Driven Electric Cylinder



Max. travel	800 mm	Max. speed	800 mm/s
Motor power	750 W	Ball screw	ø20 mm

Model Description

L Y 75 - 10 S100 - N 3 0 - 75 B - 2 - VP - FA - OS - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯

① Series number L	⑥ Travel 50 mm to 800 mm Interval of 50 mm	⑪ Brake None: No brake B: Brake	⑫ Deceleration of timing pulley, reduction ratio of 2:1
② Cylinder type Y: Lead Screw-Driven Electric Cylinder	⑦ Sensor type N: NPN sensor P: PNP sensor	⑬ Drive type VP: Standard SV660P drive VN: Standard SV660N drive	
③ Width 75: 75 mm	⑧ Number of NO switches 0: No 1: 1 2: 2 3: 3	⑭ Installation method FA: Front flange-mounted DA: Rear flange-mounted CA: Horizontal mounting ¹ EA: Trunnion mounting JA: Hinged support mounting DL: Guide pillar mounting SA: Front lock mounting HL: Backpack mounting	
④ Lead 10: 10 mm	⑨ Number of NC switches 0: No 1: 1 2: 2 3: 3	⑮ Rod head connection mode IS: Internal thread OS: External thread Y: Rod end bearing U: U-shape hinge I: I-shape joint	⑯ Customization
⑤ Motor position S: Direct connected D: Connected down	⑩ Motor power 75: 750 W		

Basic Parameters

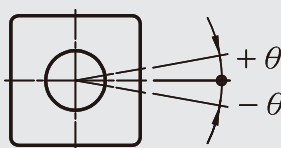
Item	Specification					
Standard Electromechanical Rated Power (kW)	0.4			0.75		
Electromechanical Rated Torque (N · m)	1.27			2.39		
Electromechanical Rated Speed (r/min)	3,000			3,000		
Screw Specification	2,005	2,010	2,020	2,005	2,010	2,020
Reduction Ratio	Timing pulley speed ratio (1:1/1.5:1/2:1)					
Repeatability (mm)	± 0.02					
Standard Electromechanical Rated Thrust (kN)	1.35	0.67	0.33	2.55	1.28	0.64
Standard Electromechanical Rated Speed (mm/s)	250	500	800	250	500	800
Maximum Effective Travel (mm)	800					
Maximum Load Thrust (kN)	8					
Maximum Telescopic Speed (mm/s)	800					
Magnetic Switch	DGHON-TN			NPN		
	DGHON-TP			PNP		

Note: (1) For a travel over 800 mm, contact our business personnel.

(2) The motor acceleration/deceleration is set to 0.2s.

Anti-Backlash Precision

Anti-backlash precision of pushing rod



Anti-backlash precision θ

$\pm 0.3^\circ$

Note: Prevent rotational torque to the piston rod during use, as it may cause deformation of the anti-rotation block, response error of the automatic switch, and deformation of the internal slide rail, subsequently increasing the actuating resistance.

Standard Parameter Configuration

Basic Parameters

Cylinder Outer Diameter	Cylinder Inner Diameter	Allowed Maximum Thrust	Travel Range	Allowed Maximum Speed	Rotation Angle of Piston Rod	Limit Switch
75 mm x 75 mm	φ63 mm	≤ 8 kN	≤ 800 mm	≤ 800 mm/s	±0.3°	Magnetic induction switch

Optional Parameters

Screw Lead	Timing Pulley Speed Ratio (Input: Output)	Direct-Coupled Motor		Adapted Reducer
05 mm	1:1 1.5:1 2:1	60-frame servo motor	86 stepper motor	No
10 mm				
20 mm				

Screw Parameters

Screw Model	Screw Type	Screw Diameter	Screw Lead	Dynamic Load Ca (kN)	Static Load Coa (kN)	Stiffness kgf/μm	Ball Diameter	Lead Screw	Slenderness Ratio	Accuracy Class/ Positioning Precision
SFNU2005-4	Ball screw	20 mm	05 mm	15.2	38	39	3.175 mm	12K4	1:30	C5/±0.01 C7/±0.02
SFA2010-3.8			10 mm	14.8	38	40				
SFA2020-1.8			20 mm	7.4	17.2	19				

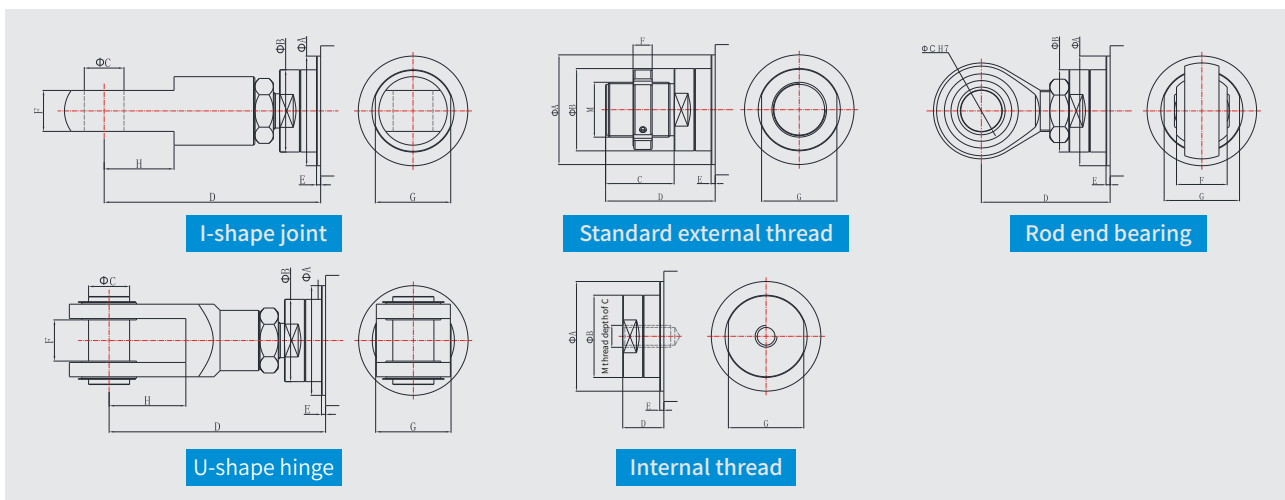
Bearing Parameters

Bearing Model	Dynamic Load Cr (kN)	Static Load Cor (kN)
Tapered roller bearing 30302 x 2	23.6	21.1

Timing Pulley and Timing Belt Parameters

Timing Pulley Speed Ratio	Driving Gear Specification	Driven Gear Specification	Number of Teeth in Driving Gear	Number of Teeth in Driven Gear	Timing Pulley Center Distance	Timing Belt Perimeter	Timing Belt Width
1:1	5M15T29	5M15T29	36	36	85 mm	350	15 mm
1.5:1			24	36		320	
2:1			24	48		355	

Dimensions of Front Connection

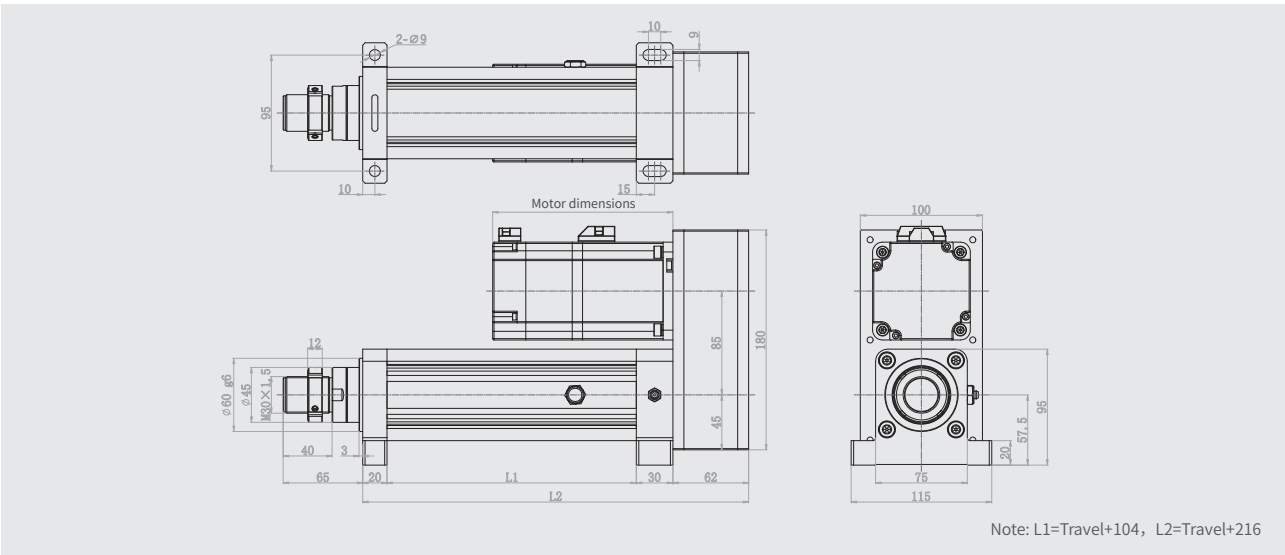


Dimension Table (Unit: mm)

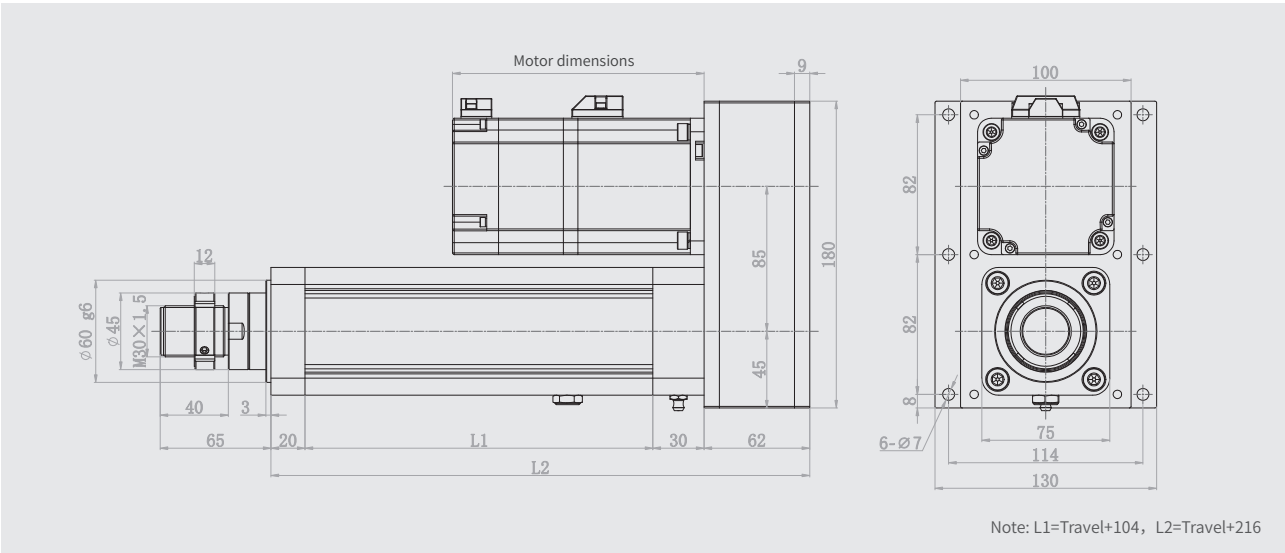
Load Type	ΦA	ΦB	ΦC	C	D	E	F	H	G	M
Standard external thread	Φ60	Φ45	-	40	65	3	12	-	41	M30 x 1.5
Internal thread	Φ60	Φ45	-	40	25	3	-	-	41	M20
I-shape joint	Φ60	Φ45	Φ20	-	118	3	20	40	41	-
Rod end bearing	Φ60	Φ45	Φ20	-	72	3	25	-	41	-
U-shape hinge	Φ60	Φ45	Φ20	-	118	3	20	40	44.4	-

Diagram of Standard Dimensions

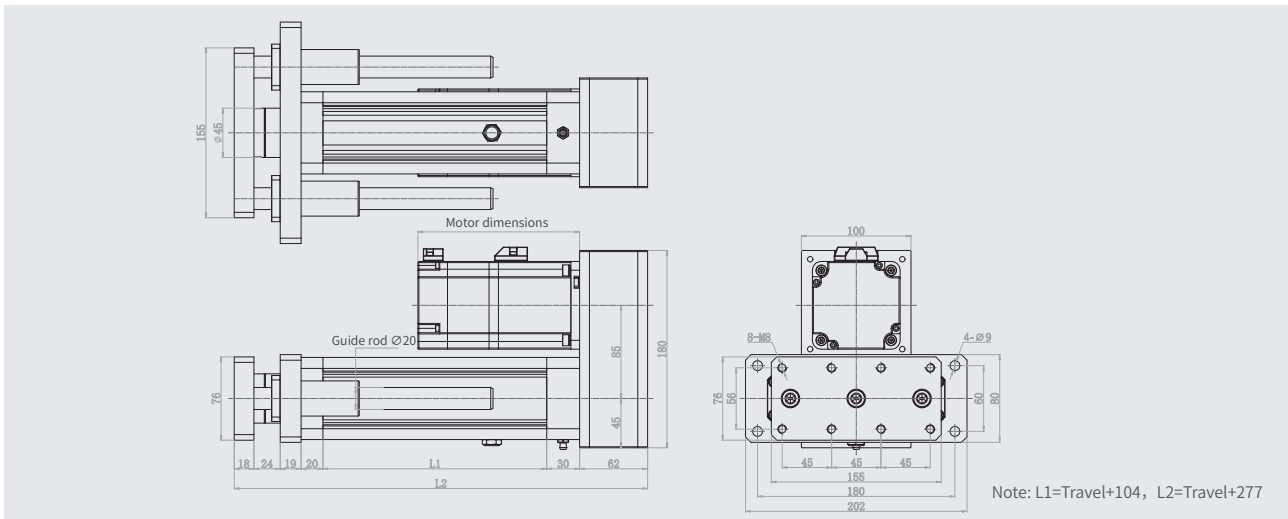
LY75-D-750W-CA



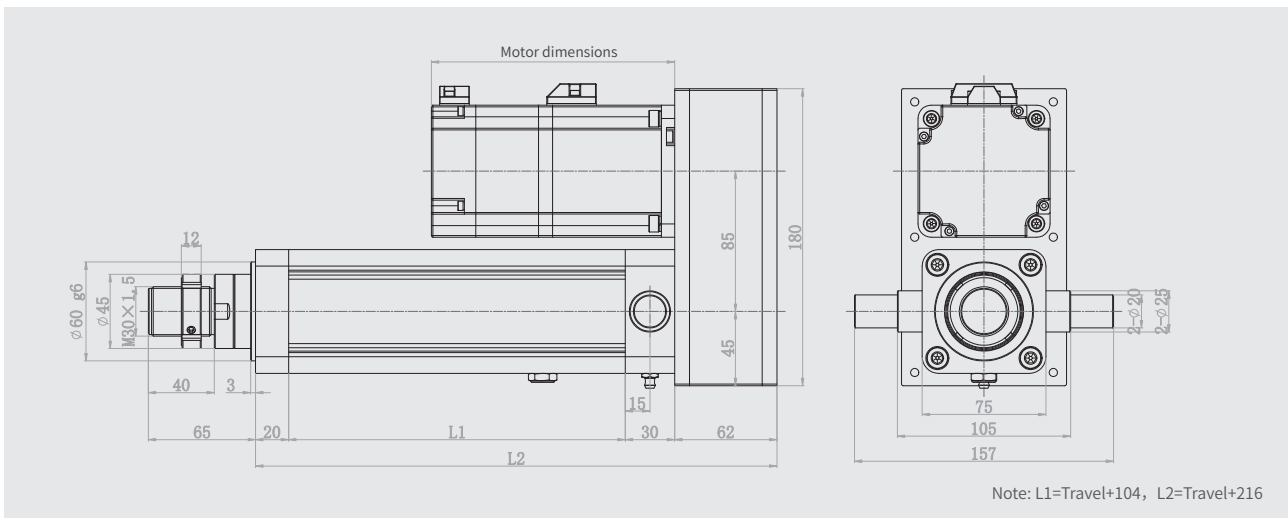
LY75-D-750W-DA



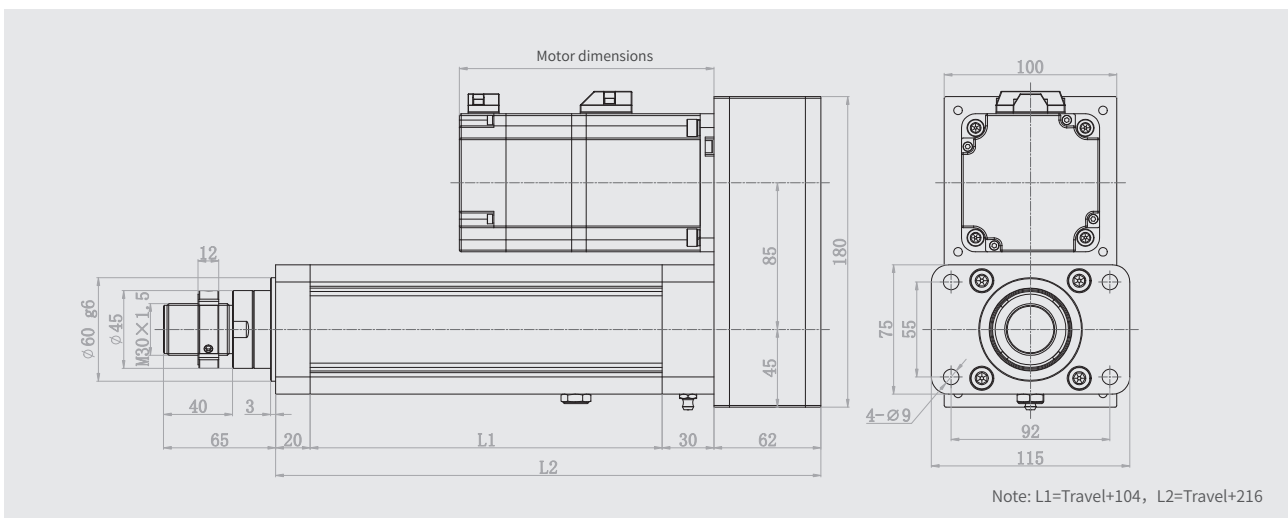
LY75-D-750W-DL



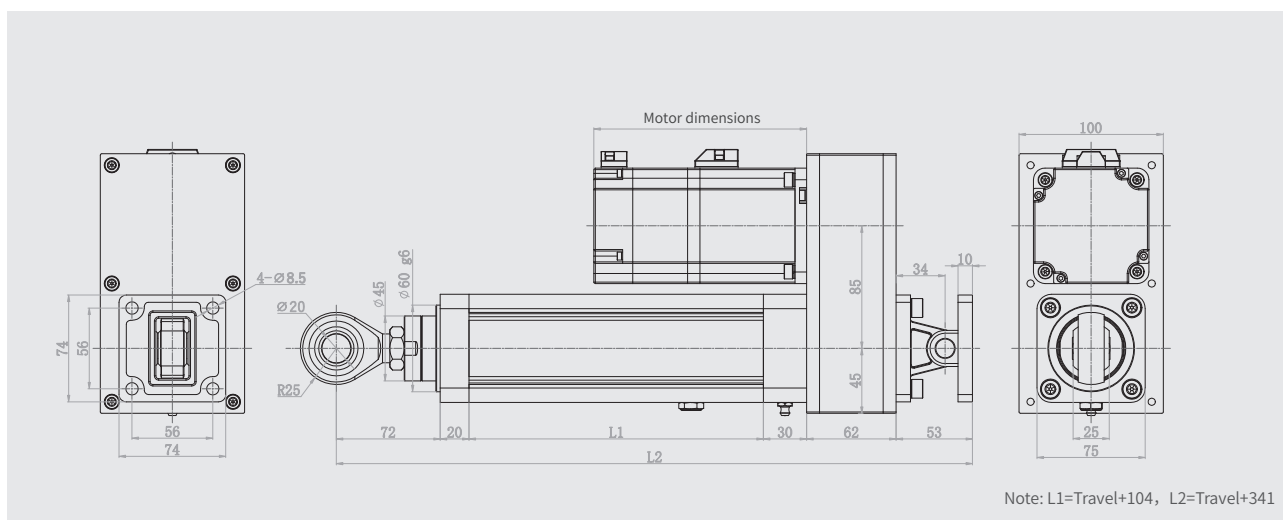
LY75-D-750W-EA



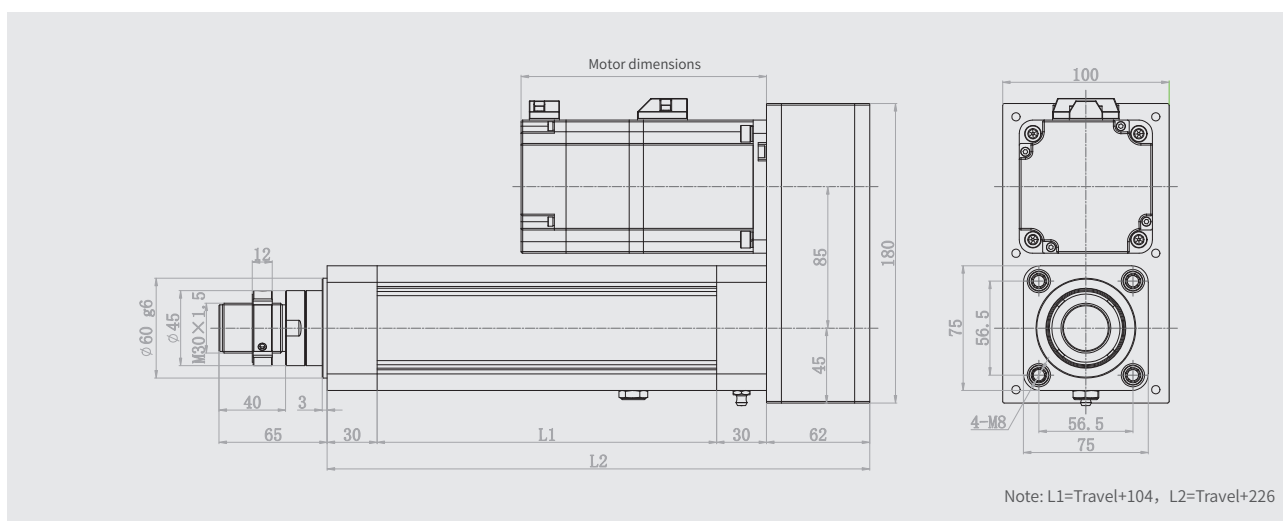
LY75-D-750W-FA



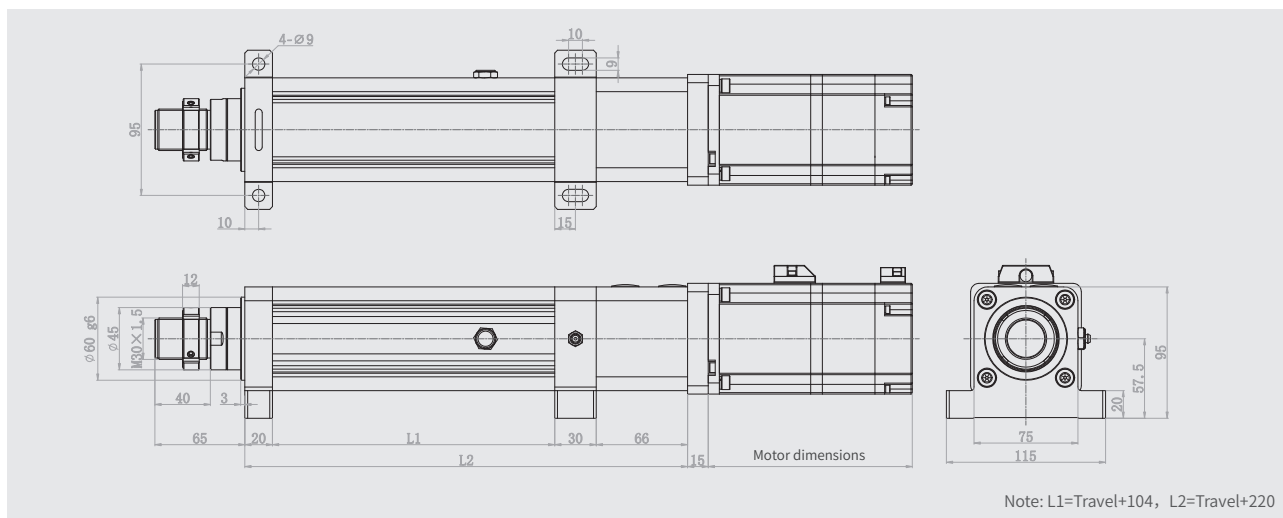
LY75-D-750W-JA-Y



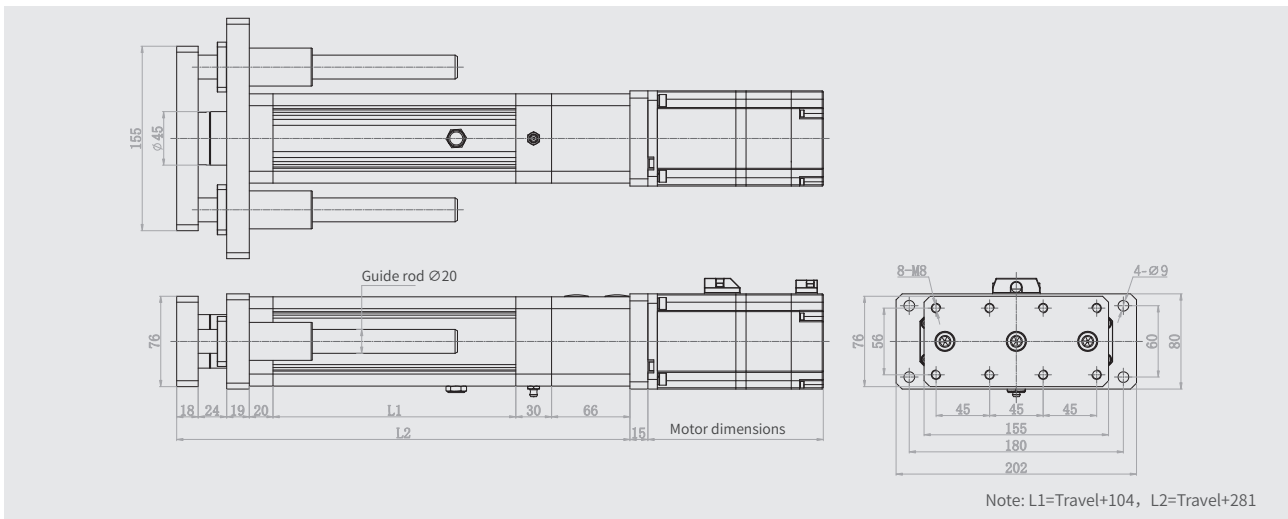
LY75-D-750W-SA



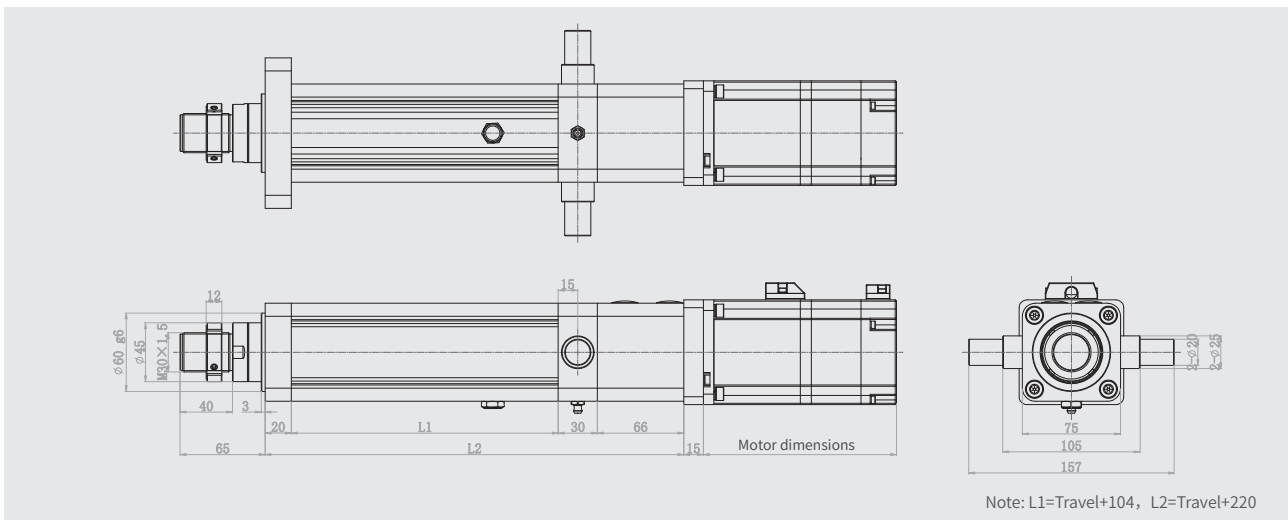
LY75-S-750W-CA



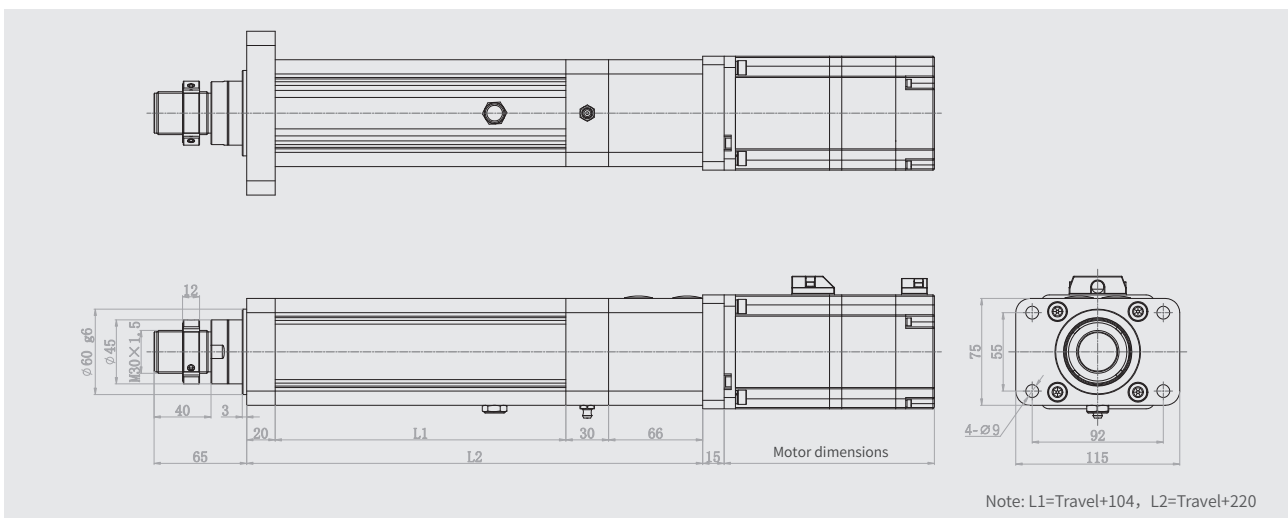
LY75-S-750W-DL



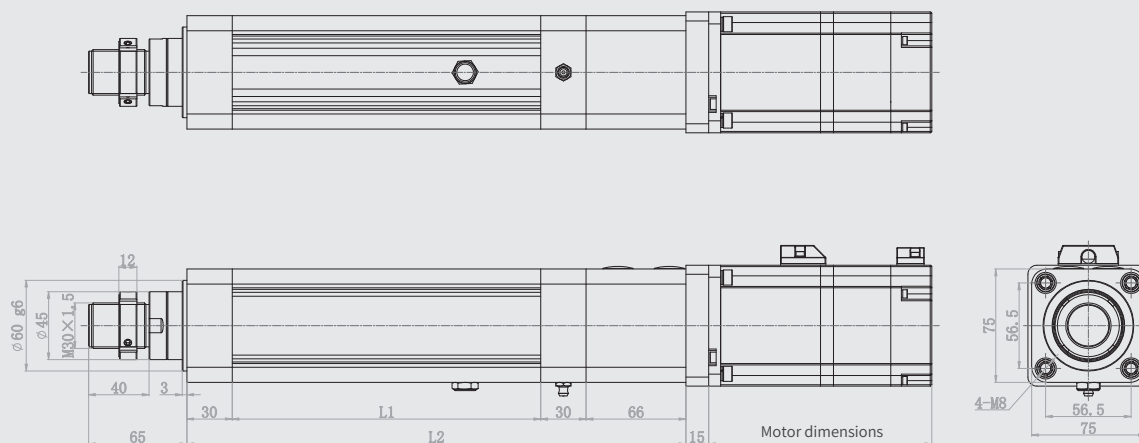
LY75-S-750W-EA



LY75-S-750W-FA

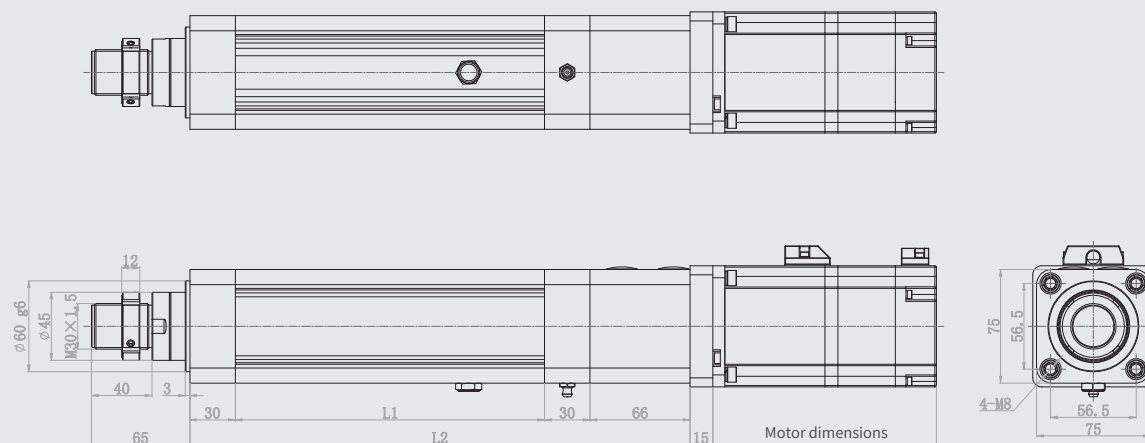


LY75-S-750W-SA



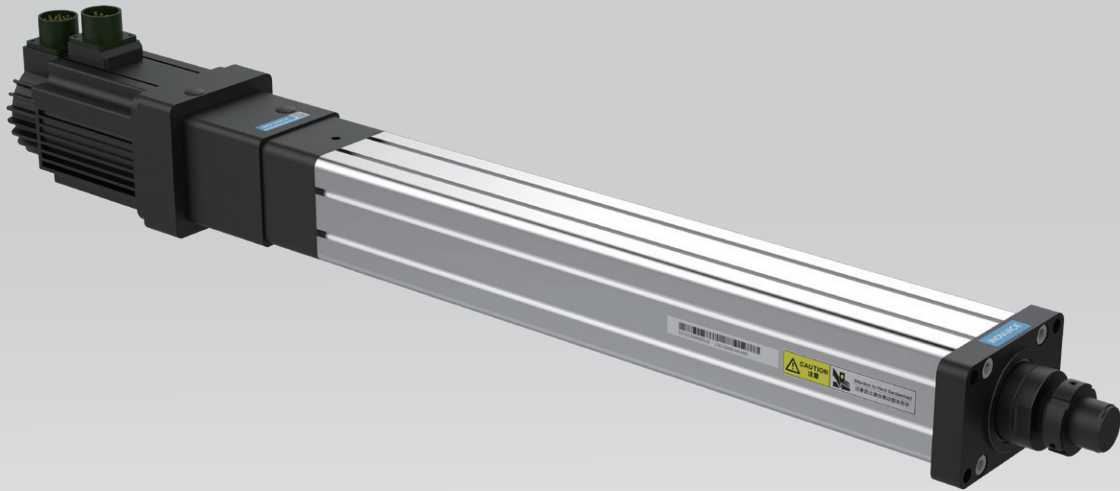
Note: L1=Travel+104, L2=Travel+230

LY75-S-1500W-FA



Note: L1=Travel+104, L2=Travel+220

LY 80 Lead Screw-Driven Electric Cylinder



Max. travel	1,000 mm	Max. speed	800 mm/s
Motor power	1,000 W	Ball screw	ø25 mm

Model Description

L Y 80 - 10 S 100 - N 3 0 - 100 B-D - 5-VP-FA-OS-XX

①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰		
① Series number L			⑥ Travel 50 mm to 1,000 mm Interval of 50 mm			⑪ Brake None: No brake B: Brake			⑫ Motor voltage 380 V, not involved for LY75 and below									
② Cylinder type Y: Lead Screw-Driven Electric Cylinder			⑦ Sensor type N: NPN sensor P: PNP sensor			⑬ Deceleration of reducer, reduction ratio of 5:1, not involved for LY75 and below												
						⑭ Drive type VP: Standard SV660P drive VN: Standard SV660N drive												
③ Width 80: 80 mm			⑧ Number of NO switches 0: No 1: 1 2: 2 3: 3			⑮ Installation method FA: Front flange-mounted DA: Rear flange-mounted CA: Horizontal mounting ¹ EA: Trunnion mounting											JA: Hinged support mounting DL: Guide pillar mounting SA: Front lock mounting HL: Backpack mounting	
④ Lead 10: 10 mm						⑯ Rod head connection mode IS: Internal thread OS: External thread Y: Rod end bearing U: U-shape hinge I: I-shape joint												
⑤ Motor position S: Direct connected D: Connected down			⑨ Number of NC switches 0: No 1: 1 2: 2 3: 3			⑰ Customization												
			⑩ Motor power 100: 1,000 W															

Basic Parameters

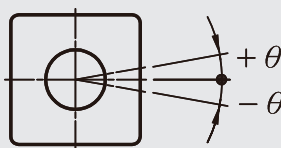
Item	Specification					
Standard Electromechanical Rated Power (kW)	0.75			1.5		
Electromechanical Rated Torque (N · m)	2.39			4.9		
Electromechanical Rated Speed (r/min)	3,000			3,000		
Screw Specification	2,005	2,510	2,525	2,505	2,510	2,525
Reduction Ratio	Frame size 90/115					
Repeatability (mm)	± 0.02					
Standard Electromechanical Rated Thrust (kN)	2.55	1.28	0.51	5.3	2.61	1.04
Standard Electromechanical Rated Speed (mm/s)	250	500	800	250	500	800
Maximum Effective Travel (mm)	1,000					
Maximum Load Thrust (kN)	15					
Maximum Telescopic Speed (mm/s)	800					
Magnetic Switch	DGHON-TN			NPN		
	DGHON-TP			PNP		

Note: (1) For a travel over 1,000 mm, contact our business personnel.

(2) The motor acceleration/deceleration is set to 0.2s.

Anti-Backlash Precision

Anti-backlash precision of pushing rod



Anti-backlash precision θ

$\pm 0.3^\circ$

Note: Prevent rotational torque to the piston rod during use, as it may cause deformation of the anti-rotation block, response error of the automatic switch, and deformation of the internal slide rail, subsequently increasing the actuating resistance.

Standard Parameter Configuration

Basic Parameters

Cylinder Outer Diameter	Cylinder Inner Diameter	Allowed Maximum Thrust	Travel Range	Allowed Maximum Speed	Rotation Angle of Piston Rod	Limit Switch
80 mm x 80 mm	φ65 mm	≤ 15 kN	≤ 1,000 mm	≤ 800 mm/s	±0.3°	Magnetic induction switch

Optional Parameters

Screw Lead	Timing Pulley Speed Ratio (Input: Output)			Direct-Coupled Motor			Adapted Reducer/Input Flange (Servo)	
05 mm	1:1	1.5:1	2:1	80-frame servo motor	100-frame servo motor	130-frame servo motor	Frame size 60	Frame size 60/80
10 mm							Frame size 90	Frame size 60/80/100/130
25 mm							Frame size 115	Frame size 80/100/130/180

Screw Parameters

Screw Model	Screw Type	Screw Diameter	Screw Lead	Dynamic Load Ca (kN)	Static Load Coa (kN)	Stiffness kgf/μm	Ball Diameter	Lead Screw	Slenderness Ratio	Accuracy Class/ Positioning Precision
SFNU2505-4	Ball screw	25 mm	05 mm	16.9	48	45	3.175 mm	22K6	1:30	C5/±0.01 C7/±0.02
SFNU2510-4			10 mm	28.9	71.5	50	4.762 mm			
SFA2525-1.8			25 mm	8.2	21.5	22	3.175 mm			

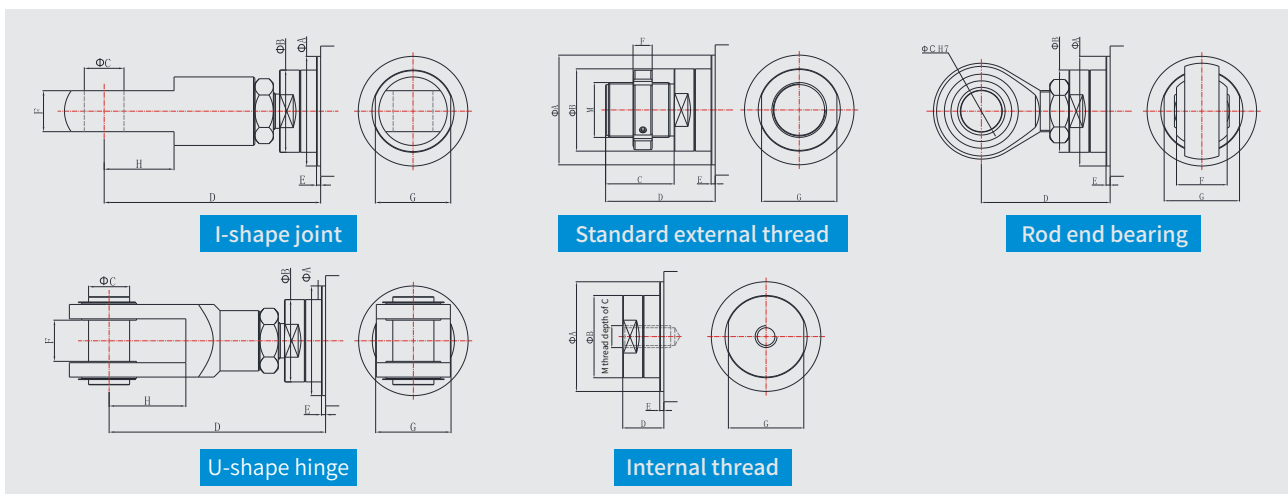
Bearing Parameters

Bearing Model	Dynamic Load Cr (kN)	Static Load Cor (kN)
Deep groove ball bearing 6206-ZZ x 2	19.5	11.3
Thrust bearing 51206	29.3	29.3

Timing Pulley and Timing Belt Parameters

Timing Pulley Speed Ratio	Driving Gear Specification	Driven Gear Specification	Number of Teeth in Driving Gear	Number of Teeth in Driven Gear	Timing Pulley Center Distance	Timing Belt Perimeter	Timing Belt Width
1:1	5M25T42	5M25T42	40	40	110 mm	420	25 mm
1.5:1			30	45		410	
2:1			30	60		450	

Dimensions of Front Connection

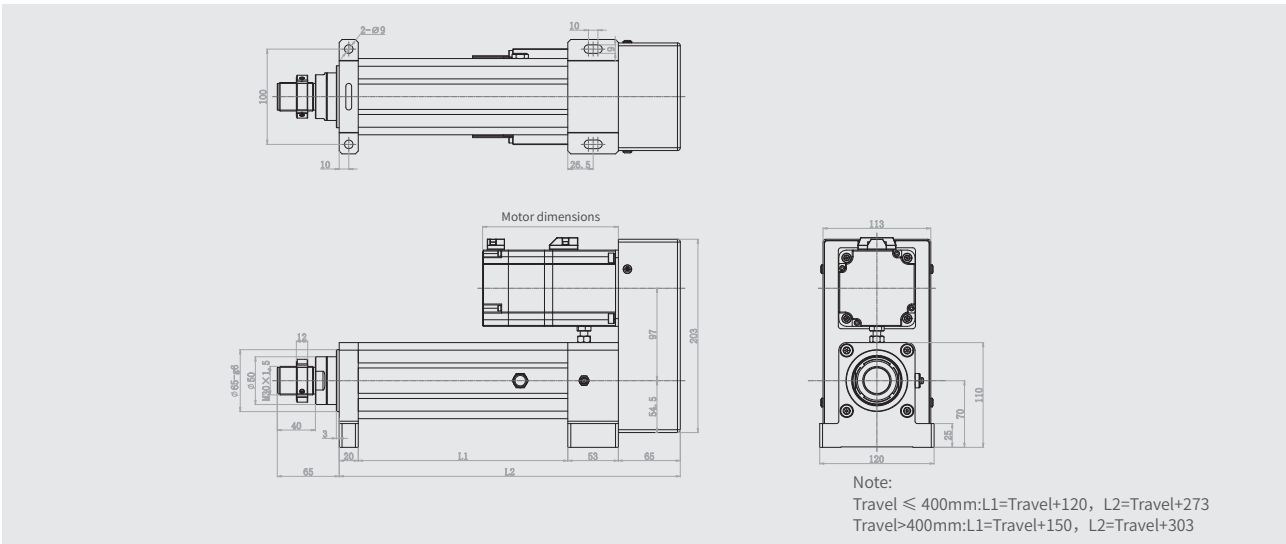


Dimension Table (Unit: mm)

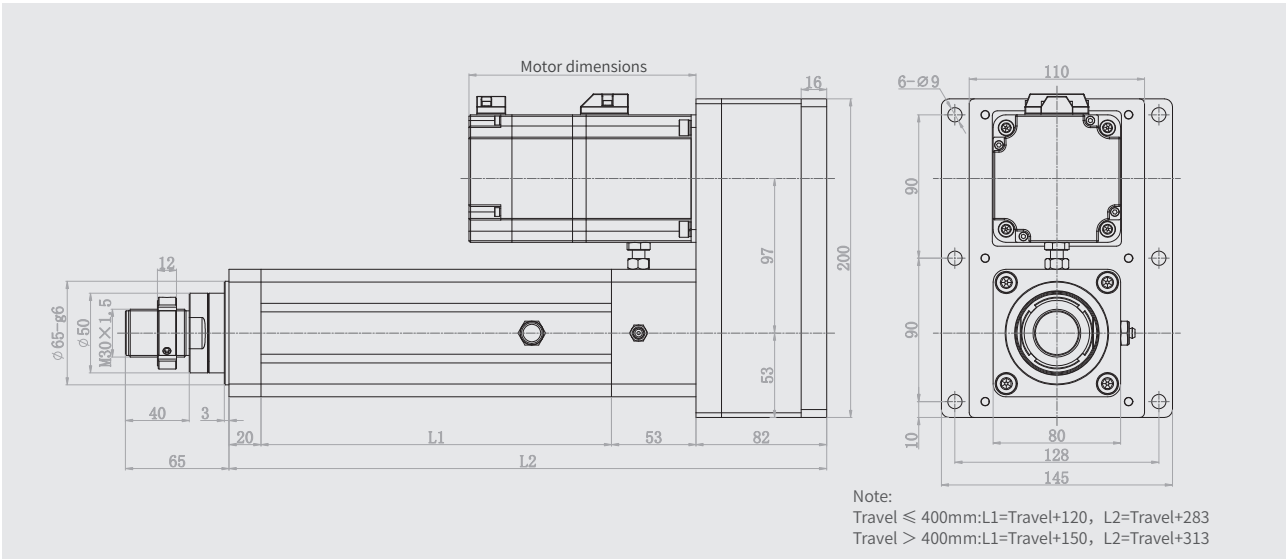
Load Type	ΦA	ΦB	ΦC	C	D	E	F	H	G	M
Standard external thread	Φ65	Φ50	-	40	65	3	12	-	46	M30 x 1.5
Internal thread	Φ65	Φ50	-	40	25	3	-	-	46	M20
I-shape joint	Φ65	Φ50	Φ30	-	150	3	30	51	46	-
Rod end bearing	Φ65	Φ50	Φ30	-	80	3	31	-	46	-
U-shape hinge	Φ65	Φ50	Φ30	-	150	3	35	73	70	-

Diagram of Standard Dimensions

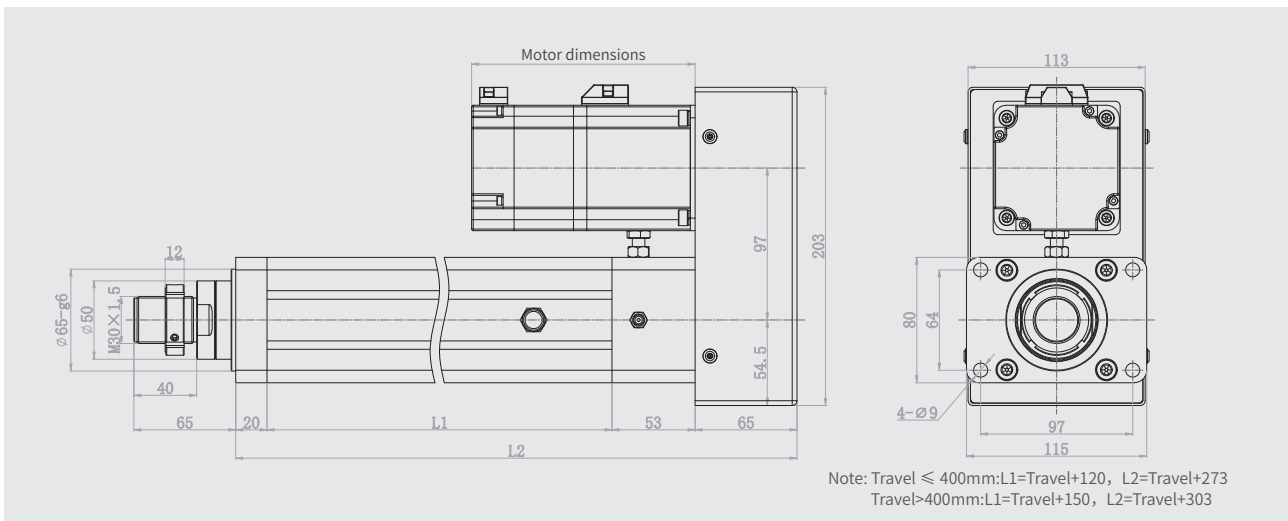
LY80-D-750W-CA



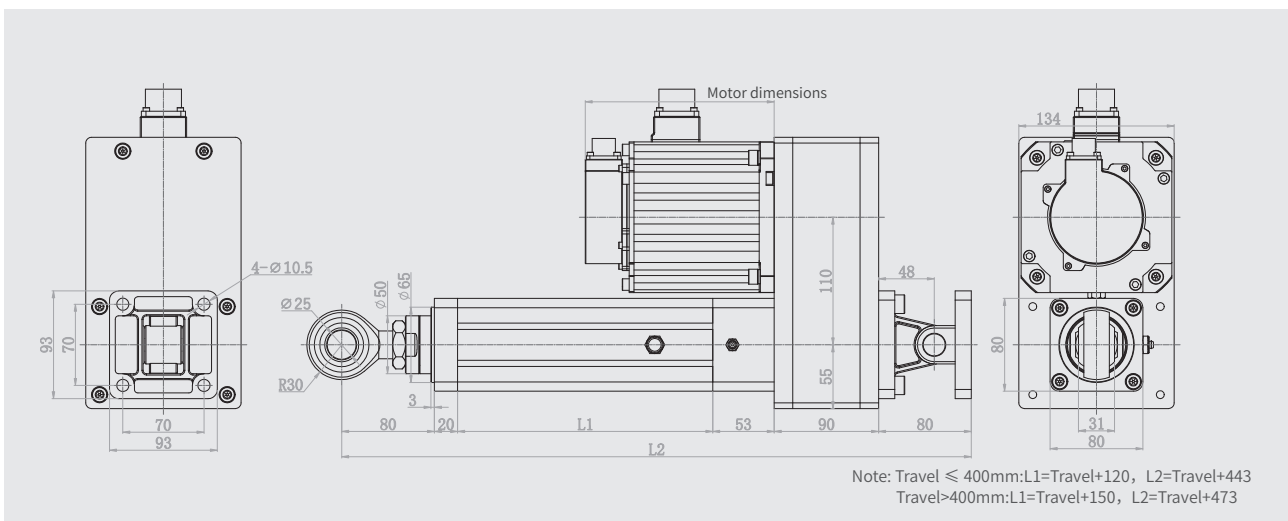
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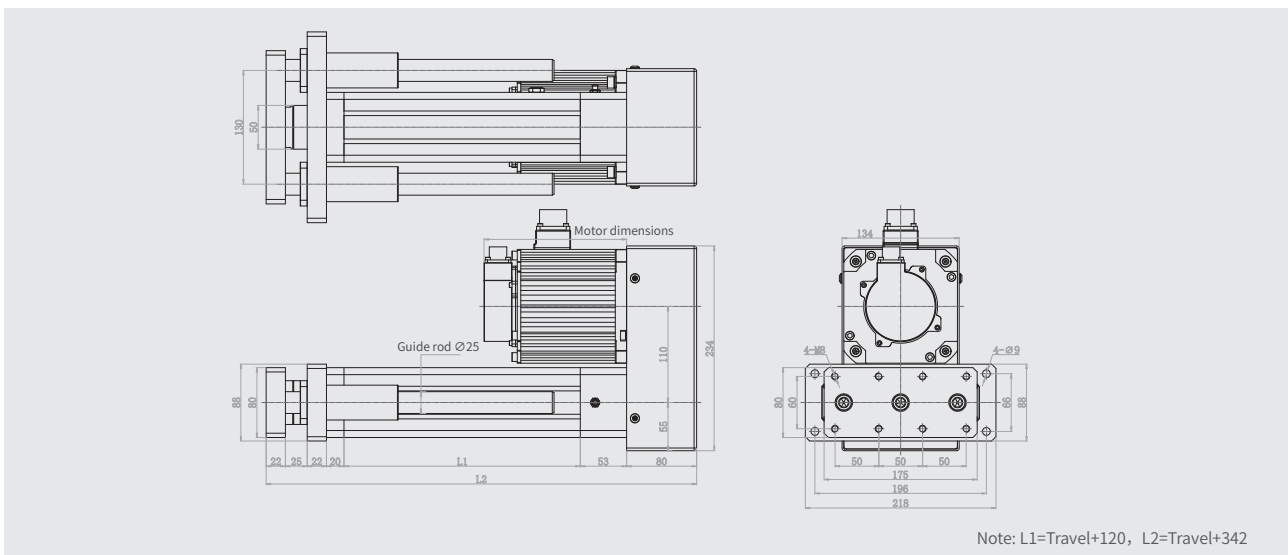
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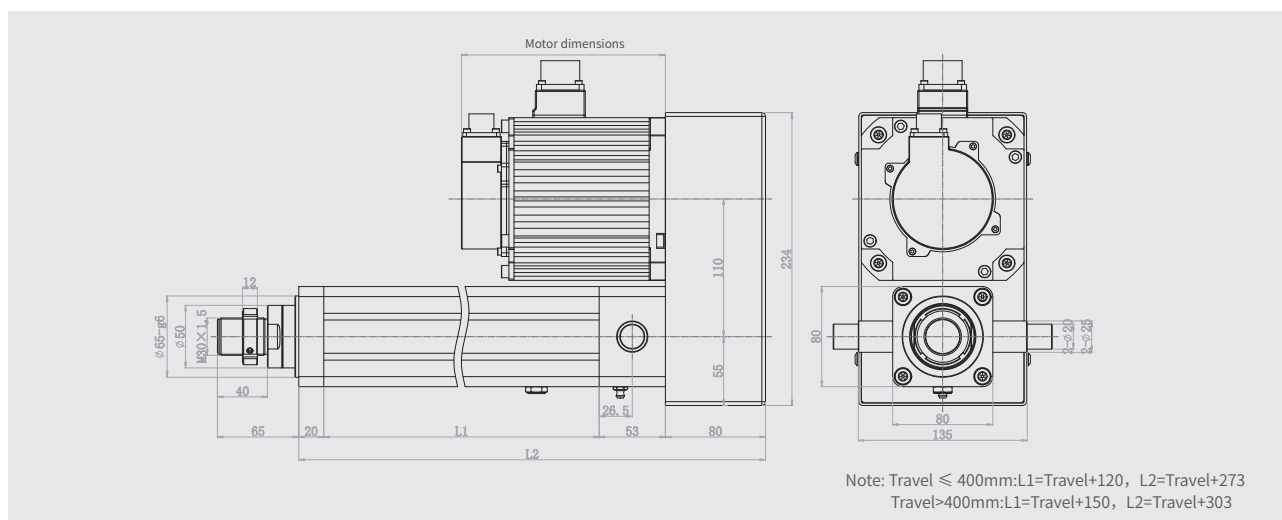
LY80-D-750W-JA



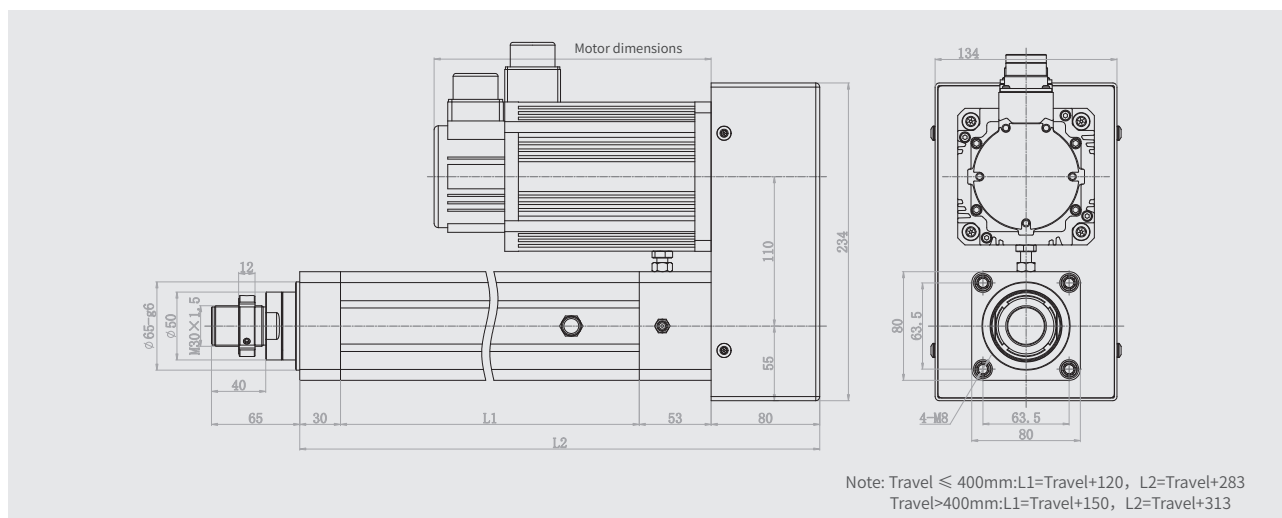
LY80-D-1500W-DL



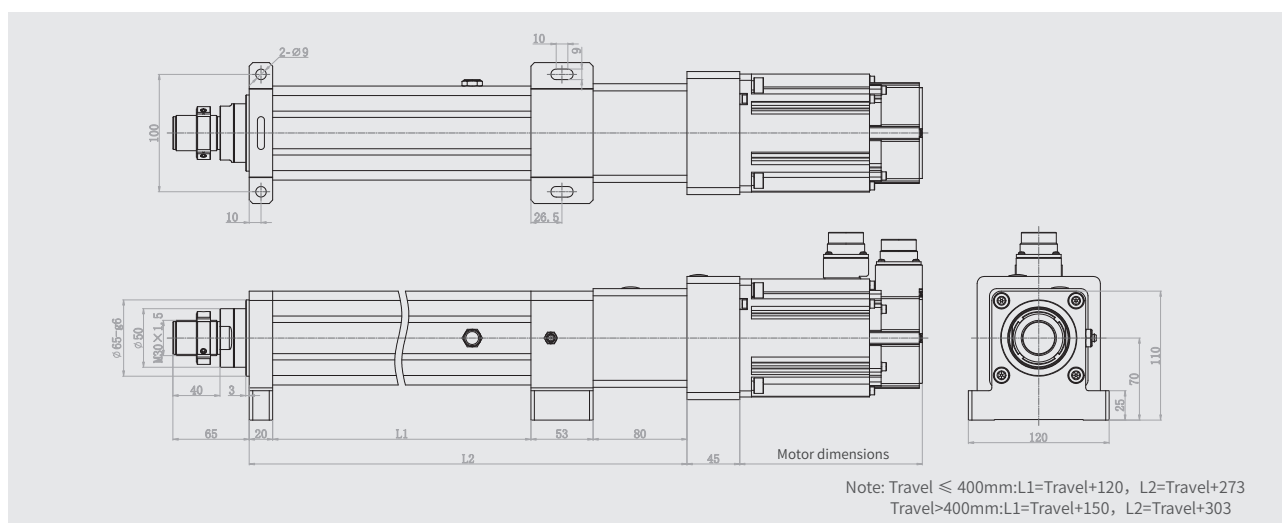
LY80-D-1500W-EA



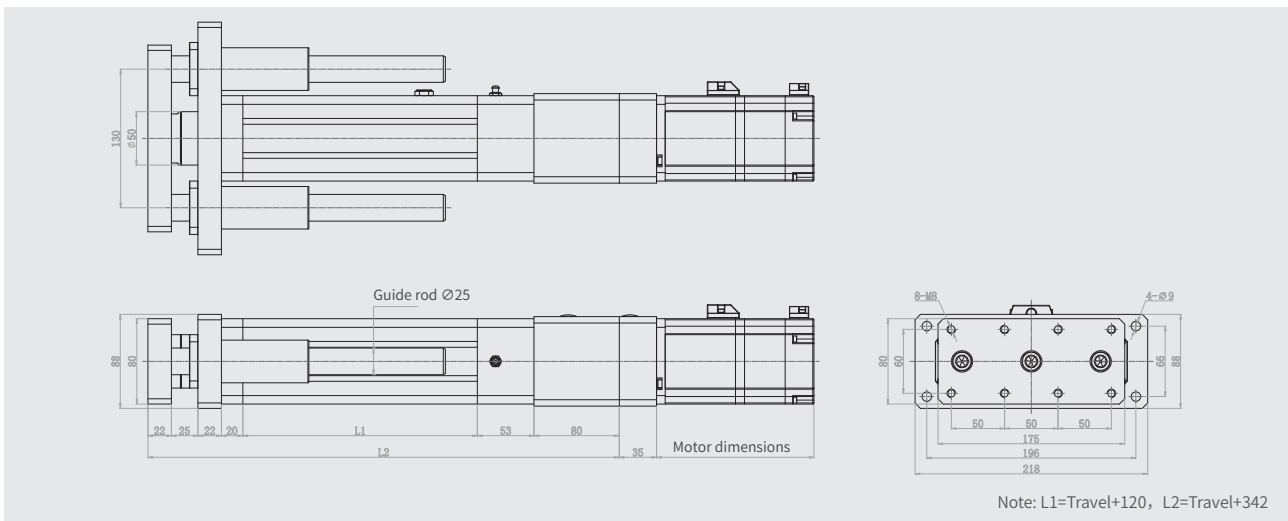
LY80-D-1500W-SA



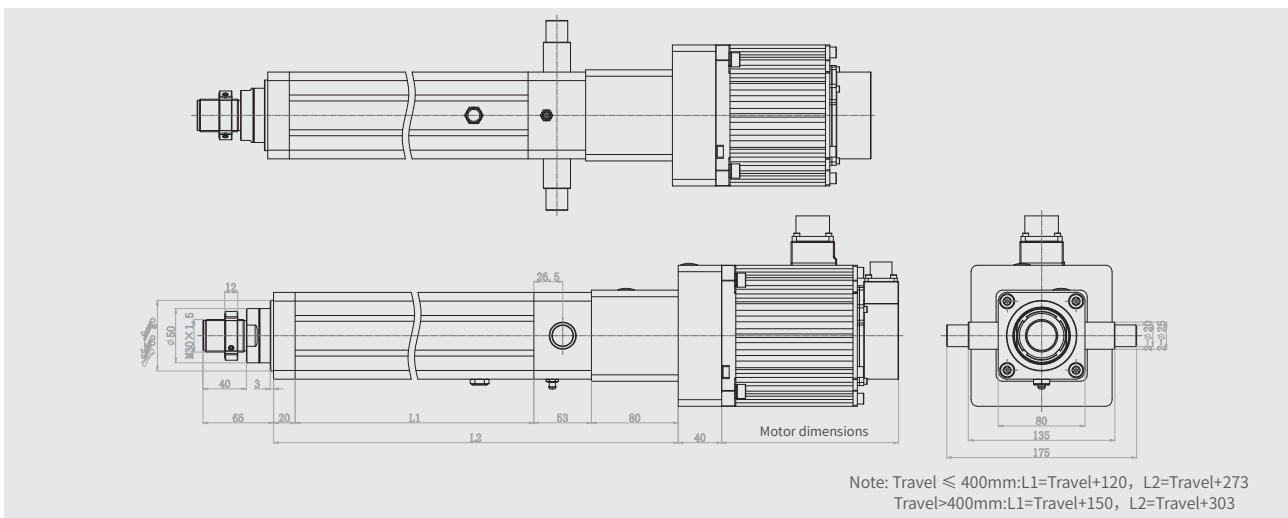
LY80-S-750W-CA



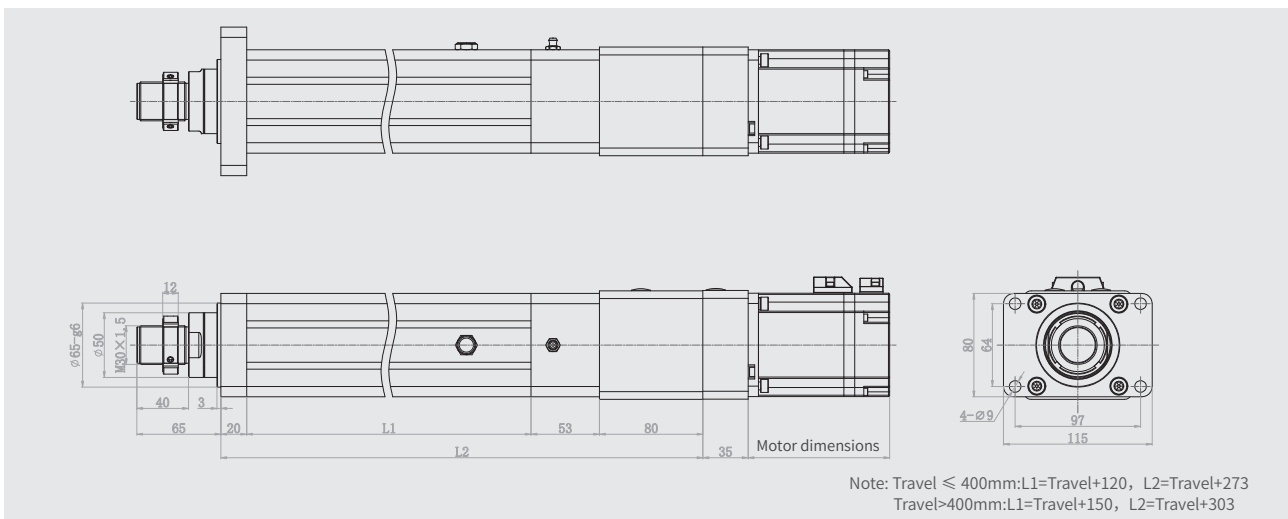
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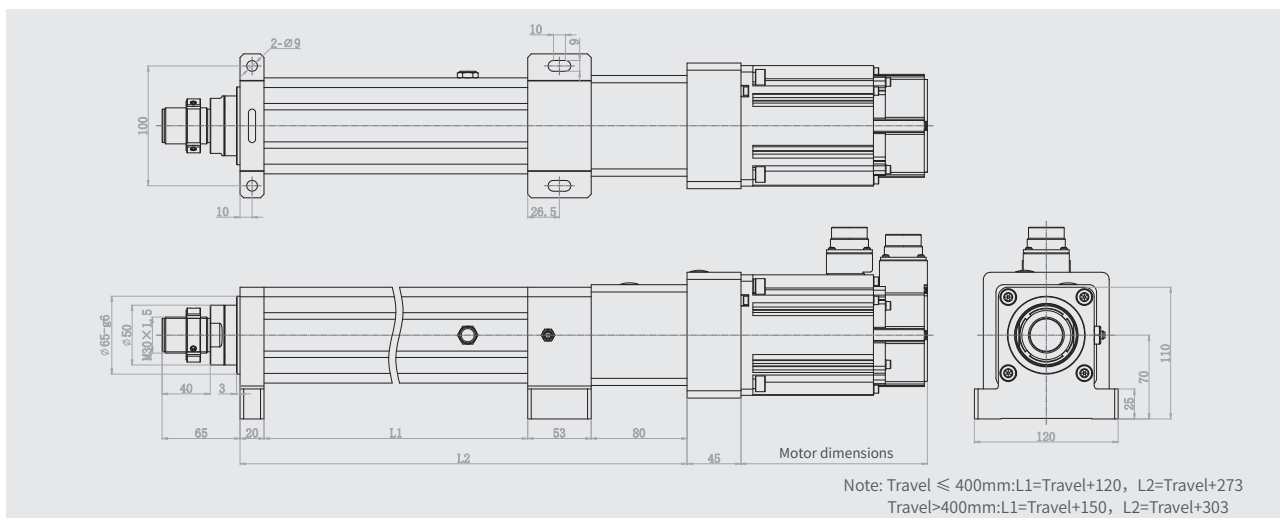
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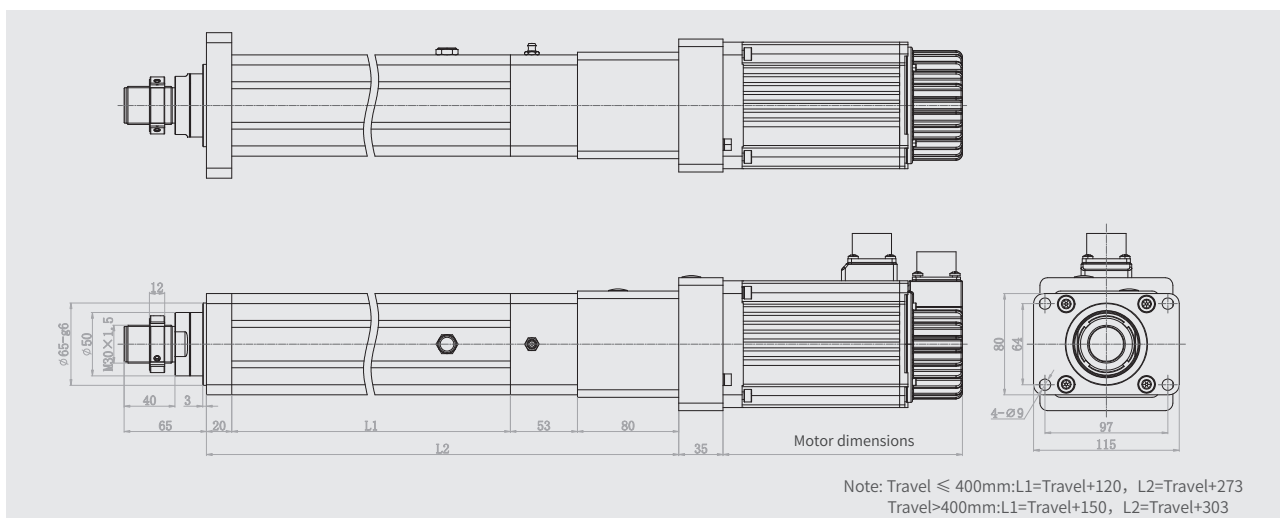
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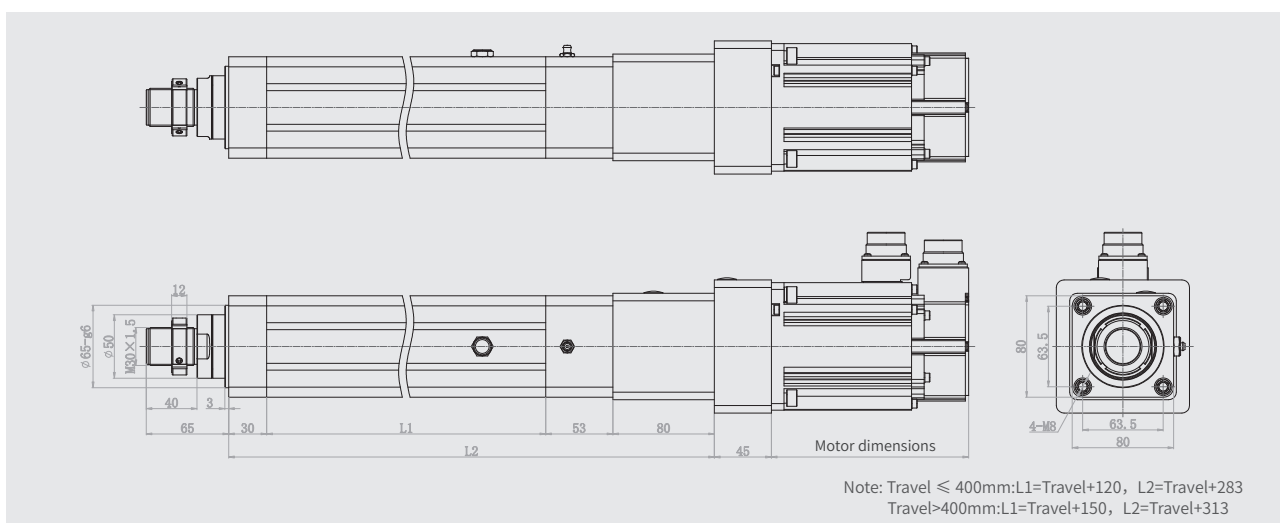
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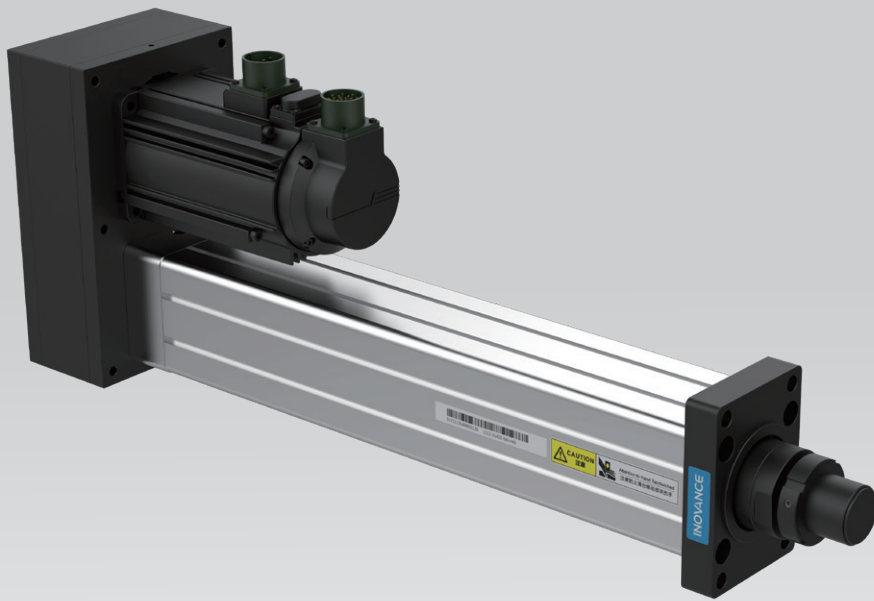
LY80-S-1500W-FA



LY80-S-1500W-SA



LY 94 Lead Screw-Driven Electric Cylinder



Max. travel	1,200 mm	Max. speed	800 mm/s
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Motor power	1,500 W	Ball screw	ø32 mm
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Model Description

L Y 94 - 10 S 100 - N 3 0 - 150 B D - 5 VP - FA - OS - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰

① Series number L	⑥ Travel 50 mm to 1,200 mm Interval of 50 mm	⑪ Brake None: No brake B: Brake	⑫ Motor voltage 380 V, not involved for LY75 and below
② Cylinder type Y: Lead Screw-Driven Electric Cylinder	⑦ Sensor type N: NPN sensor P: PNP sensor	⑬ Deceleration of reducer, reduction ratio of 5:1, not involved for LY75 and below	
③ Width 94: 94 mm	⑧ Number of NO switches 0: No 1: 1 2: 2 3: 3	⑭ Drive type VP: Standard SV660P drive VN: Standard SV660N drive	
④ Lead 10: 10 mm	⑨ Number of NC switches 0: No 1: 1 2: 2 3: 3	⑮ Installation method FA: Front flange-mounted DA: Rear flange-mounted CA: Horizontal mounting ¹ EA: Trunnion mounting	JA: Hinged support mounting DL: Guide pillar mounting SA: Front lock mounting HL: Backpack mounting
⑤ Motor position S: Direct connected D: Connected down	⑩ Motor power 150: 1,500 W	⑯ Rod head connection mode IS: Internal thread OS: External thread Y: Rod end bearing U: U-shape hinge I: I-shape joint	
		⑰ Customization	

Basic Parameters

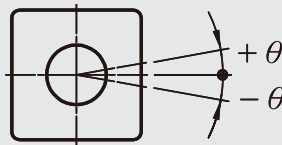
Item	Specification							
Standard Electromechanical Rated Power (kW)	1				1.5			
Electromechanical Rated Torque (N · m)	3.18				4.9			
Electromechanical Rated Speed (r/min)	3,000				3,000			
Screw Specification	3,205	3,210	3,220	3,232	3,205	3,210	3,220	3,232
Reduction Ratio	Frame size 90/115							
Repeatability (mm)	± 0.02							
Standard Electromechanical Rated Thrust (kN)	3.4	1.7	0.84	0.53	5.23	2.61	1.3	0.82
Standard Electromechanical Rated Speed (mm/s)	250	500	800	800	250	500	800	800
Maximum Effective Travel (mm)	1,200							
Maximum Load Thrust (kN)	25							
Maximum Telescopic Speed (mm/s)	800							
Magnetic Switch	DGHON-TN				NPN			
	DGHON-TP				PNP			

Note: (1) For a travel over 1,200 mm, contact our business personnel.

(2) The motor acceleration/deceleration is set to 0.2s.

Anti-Backlash Precision

Anti-backlash precision of pushing rod



Anti-backlash precision θ

$\pm 0.3^\circ$

Note: Prevent rotational torque to the piston rod during use, as it may cause deformation of the anti-rotation block, response error of the automatic switch, and deformation of the internal slide rail, subsequently increasing the actuating resistance.

Standard Parameter Configuration

Basic Parameters

Cylinder Outer Diameter	Cylinder Inner Diameter	Allowed Maximum Thrust	Travel Range	Allowed Maximum Speed	Rotation Angle of Piston Rod	Limit Switch
94 mm x 94 mm	φ80 mm	≤ 25 kN	≤ 1,200 mm	≤ 800 mm/s	±0.3°	Magnetic induction switch

Optional Parameters

Screw Lead	Timing Pulley Speed Ratio (Input: Output)			Direct-Coupled Motor			Adapted Reducer/Input Flange (Servo)	
05 mm	1:1	1.5:1	2:1	80-frame servo motor	100-frame servo motor	130-frame servo motor	Frame size 60	Frame size 60/80
10 mm							Frame size 90	Frame size 60/80/100/130
25 mm							Frame size 115	Frame size 80/100/130/180

Screw Parameters

Screw Model	Screw Type	Screw Diameter	Screw Lead	Dynamic Load Ca (kN)	Static Load Coa (kN)	Stiffness kgf/μm	Ball Diameter	Lead Screw	Slenderness Ratio	Accuracy Class/ Positioning Precision
SFNU3205-4	Ball screw	32 mm	05 mm	18.8	62.2	54	3.175 mm	22K6	1:30	C5/±0.01
SFNU3210-4			10 mm	47.1	119.7	61	6.35 mm			C7/±0.02
SFA3220-2.8			20 mm	18.7	53.7	43	3.969 mm			
SFA3232-1.8			32 mm	12.3	33.5	27	3.969 mm			

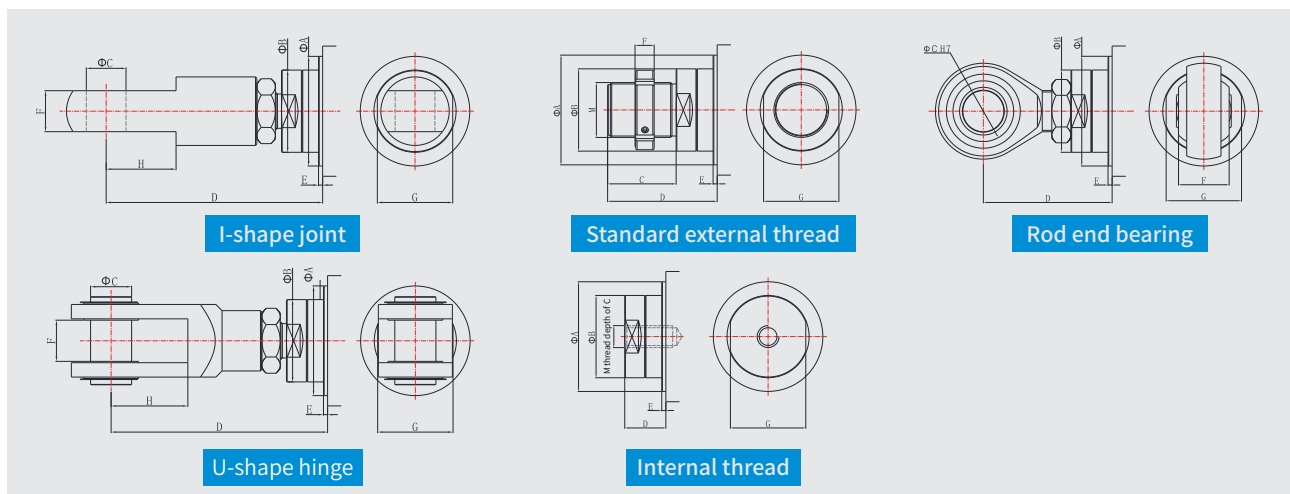
Bearing Parameters

Bearing Model	Dynamic Load Cr (kN)	Static Load Cor (kN)
Tapered roller bearing 31305 x 2	38	40

Timing Pulley and Timing Belt Parameters

Timing Pulley Speed Ratio	Driving Gear Specification	Driven Gear Specification	Number of Teeth in Driving Gear	Number of Teeth in Driven Gear	Timing Pulley Center Distance	Timing Belt Perimeter	Timing Belt Width
1:1	8M30T48	8M30T38	30	30	116 mm	472	30 mm
1.5:1			20	30		432	
2:1			20	40		480	

Dimensions of Front Connection

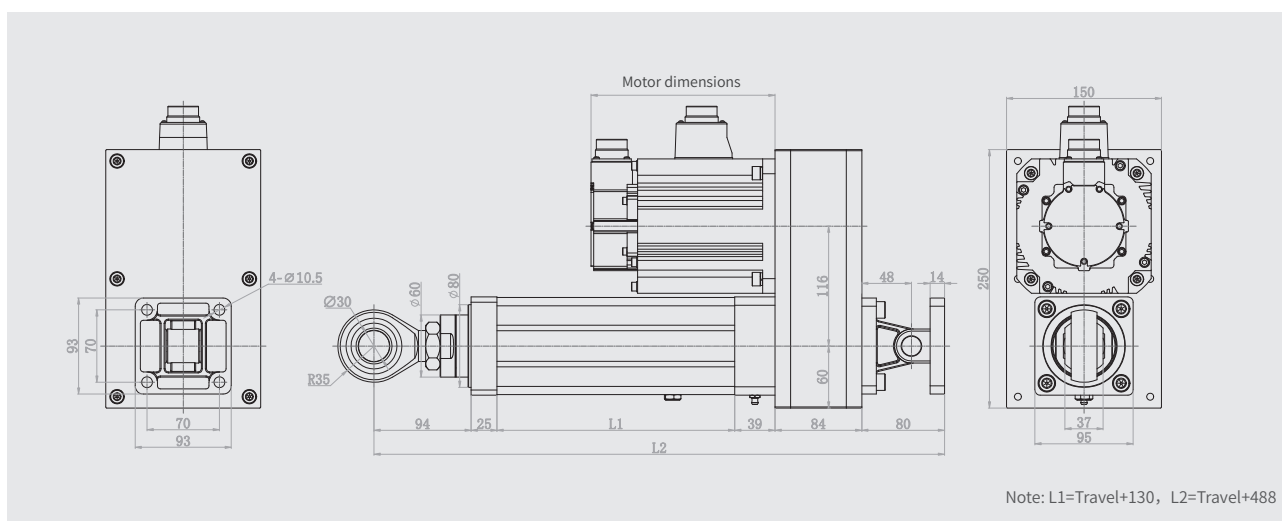


Dimension Table (Unit: mm)

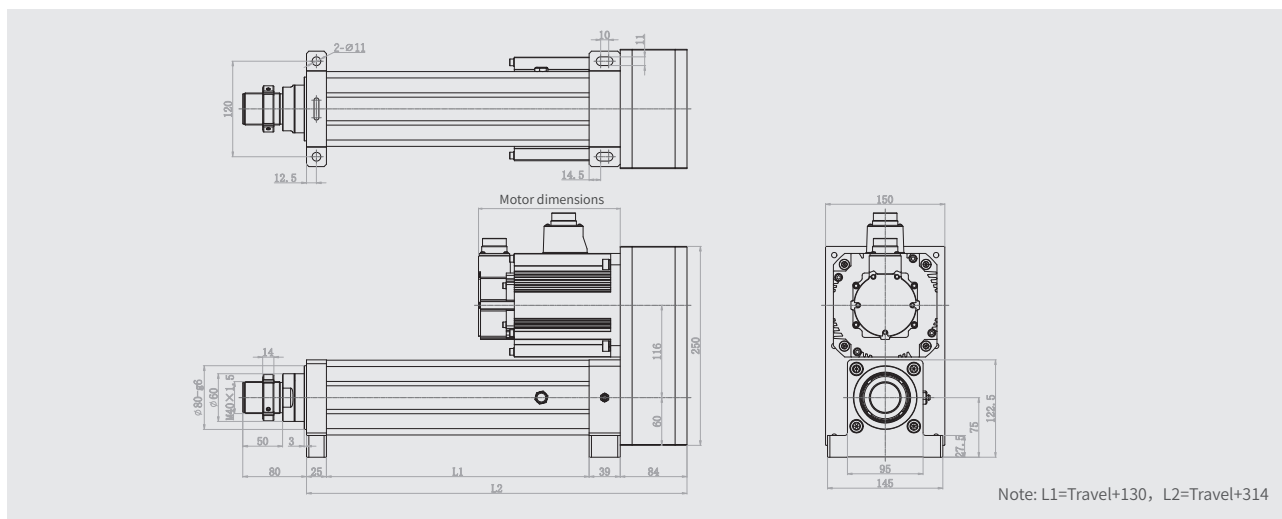
Load Type	ΦA	ΦB	ΦC	C	D	E	F	H	G	M
Standard external thread	Φ80	Φ60	-	50	80	3	14	-	55	M30 x 1.5
Internal thread	Φ80	Φ60	-	40	30	3	-	-	55	M24
I-shape joint	Φ80	Φ60	Φ35	-	195	3	35	55	55	-
Rod end bearing	Φ80	Φ60	Φ30	-	94	3	37	-	55	-
U-shape hinge	Φ80	Φ60	Φ35	-	195	3	35	73	70	-

Diagram of Standard Dimensions

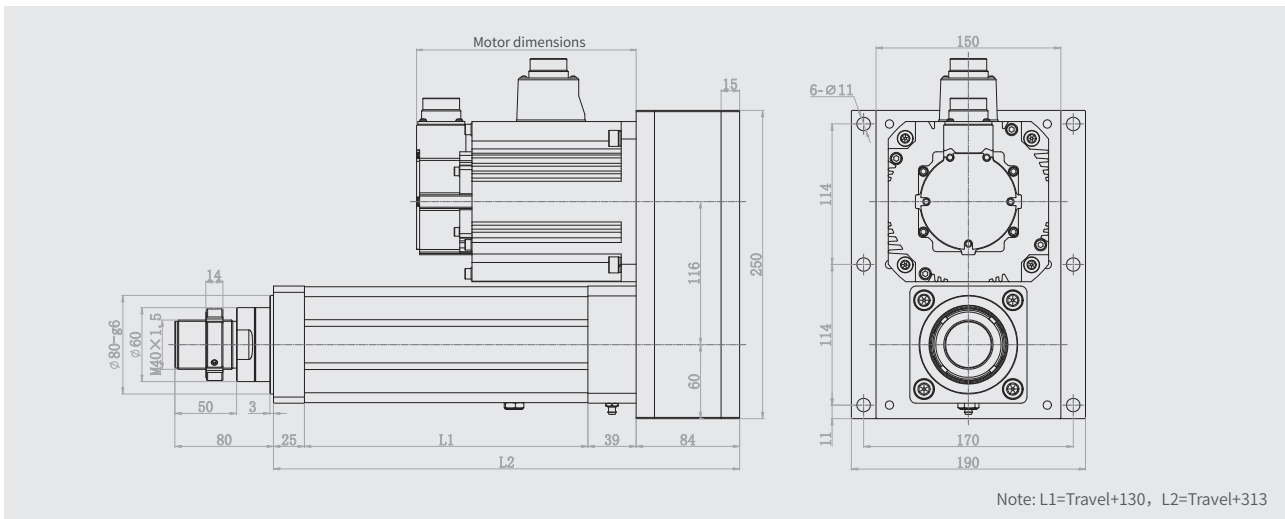
LY94-D-1500W-JA-Y



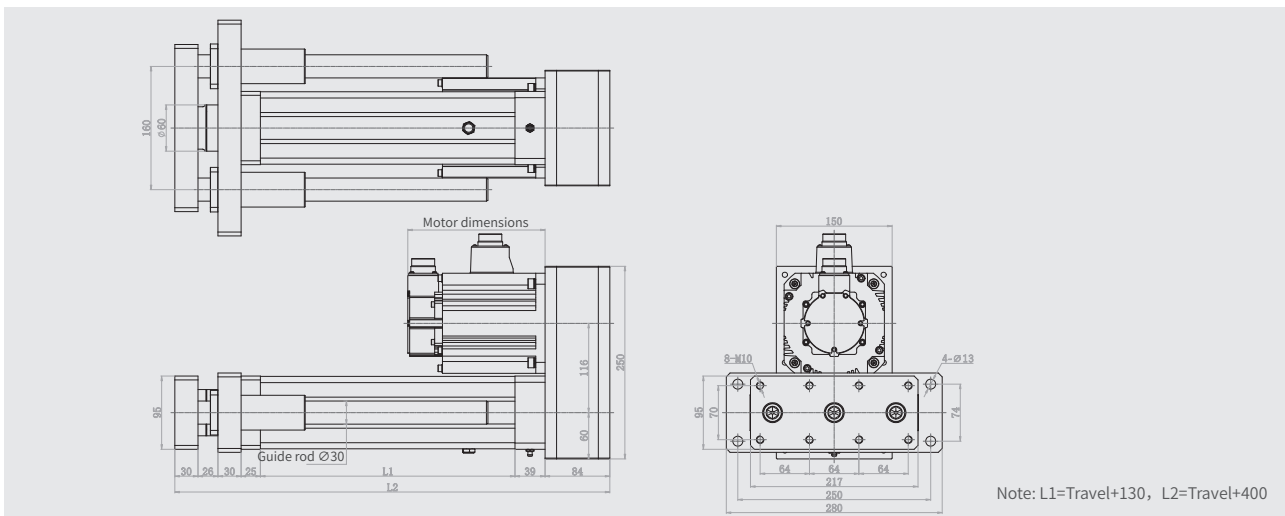
LY94-D-2000W-CA-OS



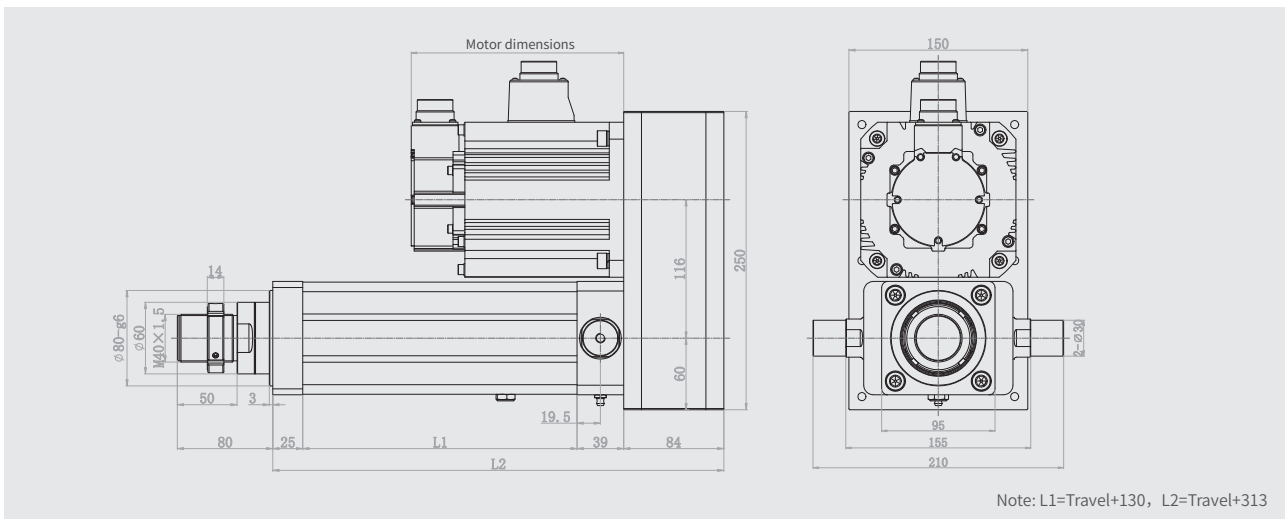
LY94-D-2000W-DA-OS



LY94-D-2000W-DL



LY94-D-2000W-FA-OS



LS Series

LSC Series

GS Series

LEB Series

LB Series

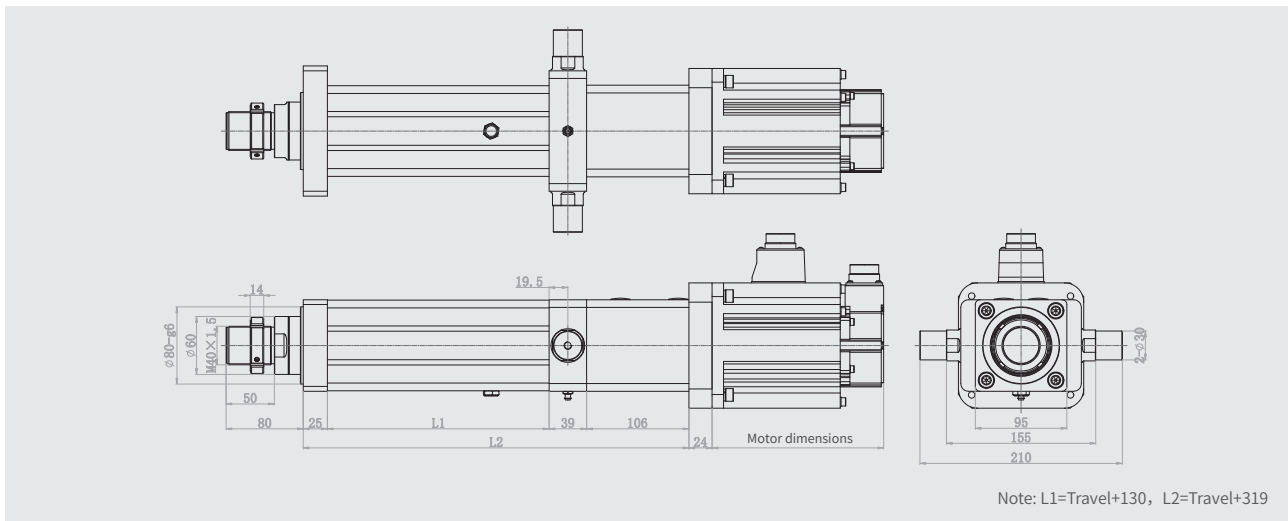
LBC Series

KS Series

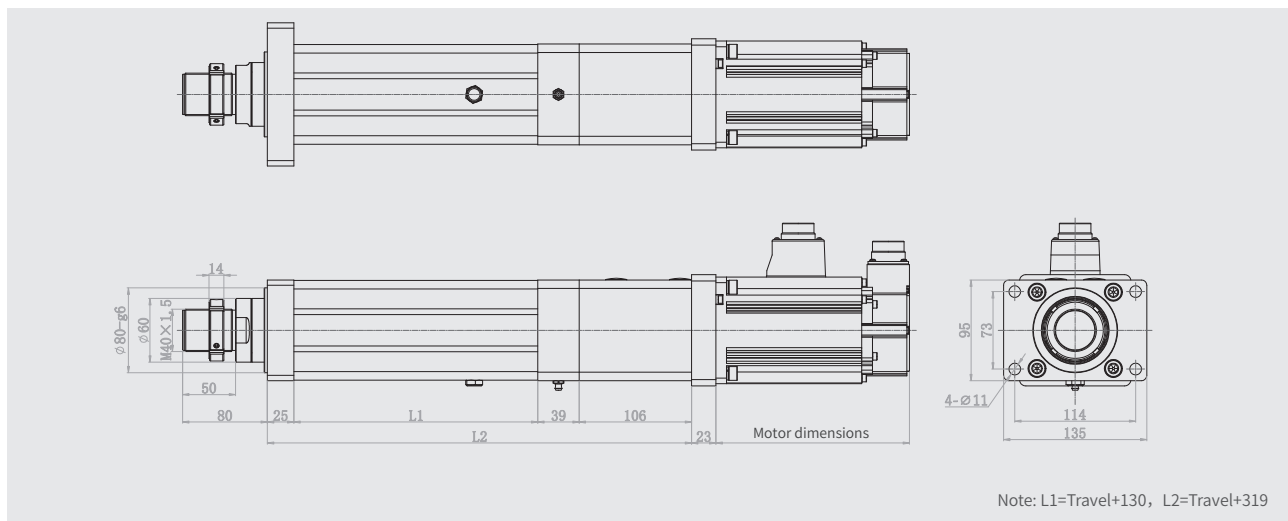
LY Series

GV Series

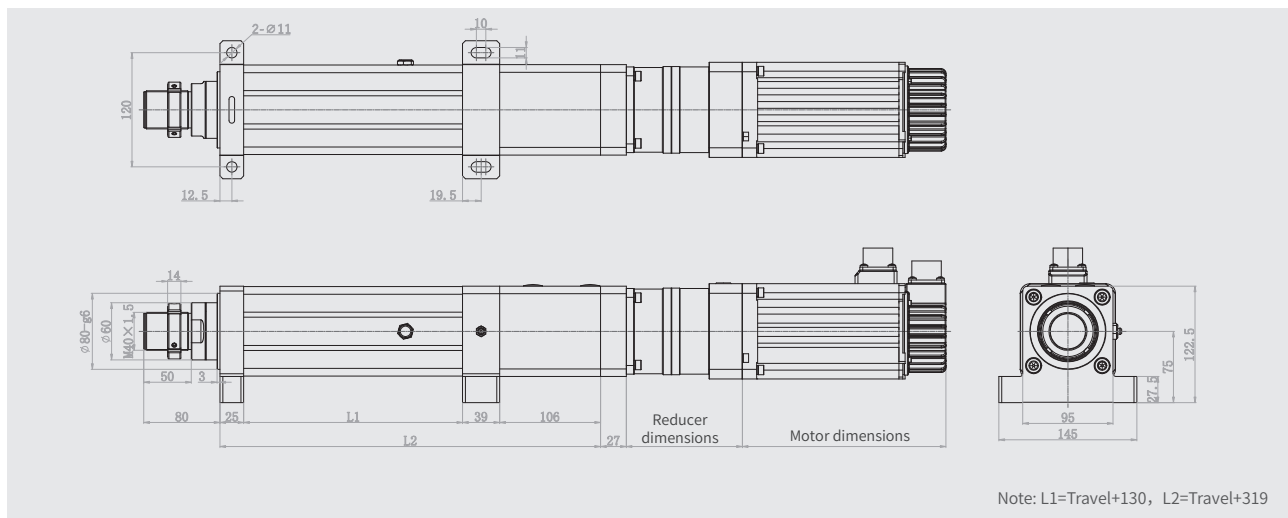
LY94-S-1500W-EA



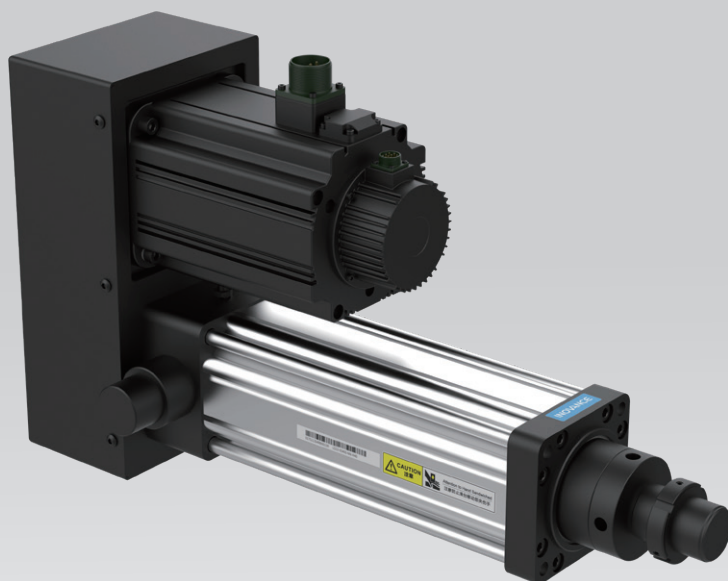
LY94-S-1500W-FA



LY94-S-2000W-CA



LY 110 Lead Screw-Driven Electric Cylinder



Max. travel	1,500 mm	Max. speed	800 mm/s
Motor power	2,000 W	Ball screw	ø40 mm

Model Description

L Y 110 - 10 S 100 - N 30 - 200 B D - 5 VP - FA - OS - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰

① Series number L	⑥ Travel 50 mm to 1,500 mm Interval of 50 mm	⑪ Brake None: No brake B: Brake	⑫ Motor voltage 380 V, not involved for LY75 and below
② Cylinder type Y: Lead Screw-Driven Electric Cylinder	⑦ Sensor type N: NPN sensor P: PNP sensor	⑬ Deceleration of reducer, reduction ratio of 5:1, not involved for LY75 and below	
③ Width 110: 112 mm	⑧ Number of NO switches 0: No 1: 1 2: 2 3: 3	⑭ Drive type VP: Standard SV660P drive VN: Standard SV660N drive	
④ Lead 10: 10 mm	⑨ Number of NC switches 0: No 1: 1 2: 2 3: 3	⑮ Installation method FA: Front flange-mounted DA: Rear flange-mounted CA: Horizontal mounting ¹ EA: Trunnion mounting	JA: Hinged support mounting DL: Guide pillar mounting SA: Front lock mounting HL: Backpack mounting
⑤ Motor position S: Direct connected D: Connected down	⑩ Motor power 200: 2,000 W	⑯ Rod head connection mode IS: Internal thread OS: External thread Y: Rod end bearing U: U-shape hinge I: I-shape joint	
		⑰ Customization	

Basic Parameters

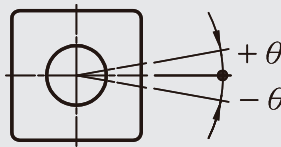
Item	Specification							
Standard Electromechanical Rated Power (kW)	1.8				7.5			
Electromechanical Rated Torque (N · m)	11.5				48			
Electromechanical Rated Speed (r/min)	1,500				1,500			
Screw Specification	4,005	4,010	4,020	4,040	4,005	4,100	4,020	4,040
Reduction Ratio	Frame size 115/142							
Repeatability (mm)	± 0.02							
Standard Electromechanical Rated Thrust (kN)	12.27	6.13	3.07	1.53	51.2	25.62	12.81	6.4
Standard Electromechanical Rated Speed (mm/s)	125	250	500	800	125	250	500	800
Maximum Effective Travel (mm)	1,500							
Maximum Load Thrust (kN)	50							
Maximum Telescopic Speed (mm/s)	800							
Magnetic Switch	DGHON-TN				NPN			
	DGHON-TP				PNP			

Note: (1) For a travel over 1,500 mm, contact our business personnel.

(2) The motor acceleration/deceleration is set to 0.2s.

Anti-Backlash Precision

■ Anti-backlash precision of pushing rod



Anti-backlash precision θ

$\pm 0.3^\circ$

Note: Prevent rotational torque to the piston rod during use, as it may cause deformation of the anti-rotation block, response error of the automatic switch, and deformation of the internal slide rail, subsequently increasing the actuating resistance.

Standard Parameter Configuration

Basic Parameters

Cylinder Outer Diameter	Cylinder Inner Diameter	Allowed Maximum Thrust	Travel Range	Allowed Maximum Speed	Rotation Angle of Piston Rod	Limit Switch
112 mm x 112 mm	φ100 mm	≤ 50 kN	≤ 1,500 mm	≤ 800 mm/s	± 0.3°	Magnetic induction switch

Optional Parameters

Screw Lead	Timing Pulley Speed Ratio (Input: Output)			Direct-Coupled Motor		Adapted Reducer/Input Flange (Servo)	
05 mm	1:1	1.5:1	2:1	13-frame servo motor	180-frame servo motor	Frame size 115	Frame size 80/100/130/180
10 mm							
20 mm						Frame size 142	Frame size 130/180
40 mm							

Screw Parameters

Screw Model	Screw Type	Screw Diameter	Screw Lead	Dynamic Load Ca (kN)	Static Load Coa (kN)	Stiffness kgf/μm	Ball Diameter	Lead Screw	Slenderness Ratio	Accuracy Class/ Positioning Precision
SFNU4005-4	Ball screw	40 mm	05 mm	20.6	78.3	63	3.175 mm	35K10	1:50	C5/±0.01 C7/±0.02
SFNU4010-4			10 mm	52.9	152	73	6.35 mm			
SFA4020-2.8			20 mm	38.8	105	54				
SFA4020-2.8			40 mm	25.3	65	34				
SFA4040-1.8			40 mm	37	101.4	52				

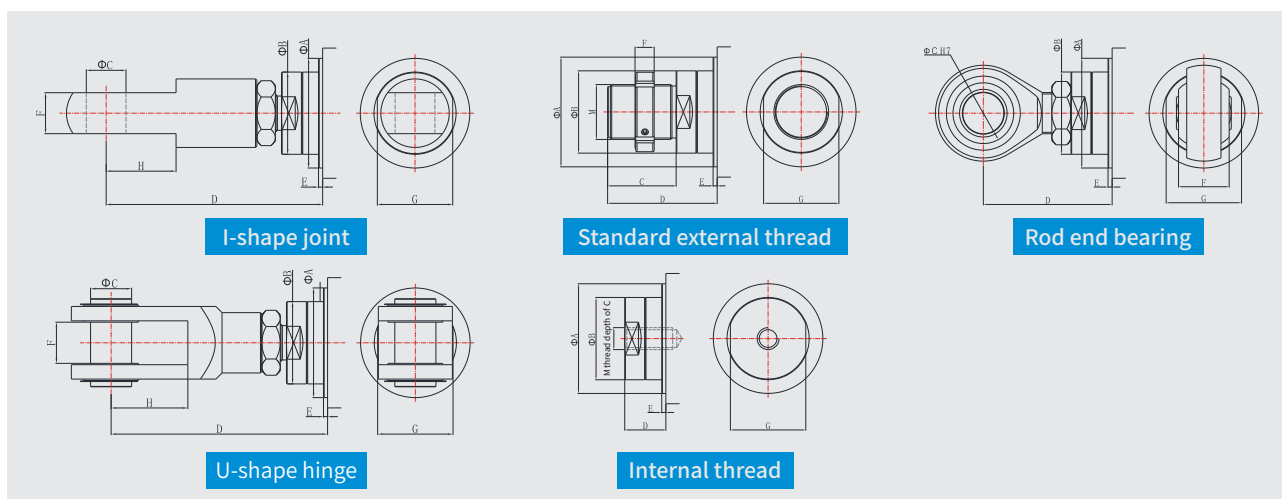
Bearing Parameters

Bearing Model	Dynamic Load Cr (kN)	Static Load Cor (kN)
Angular contact ball bearing 7009C/DT	24.4	19.3
Thrust bearing 51309	80	163

Timing Pulley and Timing Belt Parameters

Timing Pulley Speed Ratio	Driving Gear Specification	Driven Gear Specification	Number of Teeth in Driving Gear	Number of Teeth in Driven Gear	Timing Pulley Center Distance	Timing Belt Perimeter	Timing Belt Width
1:1	8M50T59	8M50T59	40	40	176 mm	672	50 mm
1.5:1			30	45		656	
2:1			30	60		720	

Dimensions of Front Connection

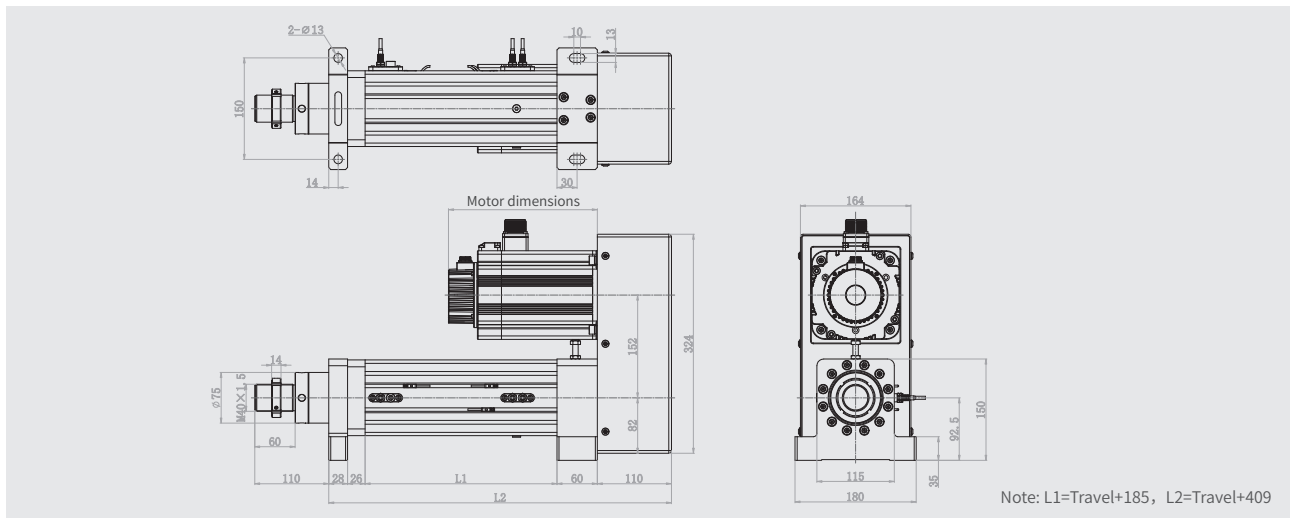


Dimension Table (Unit: mm)

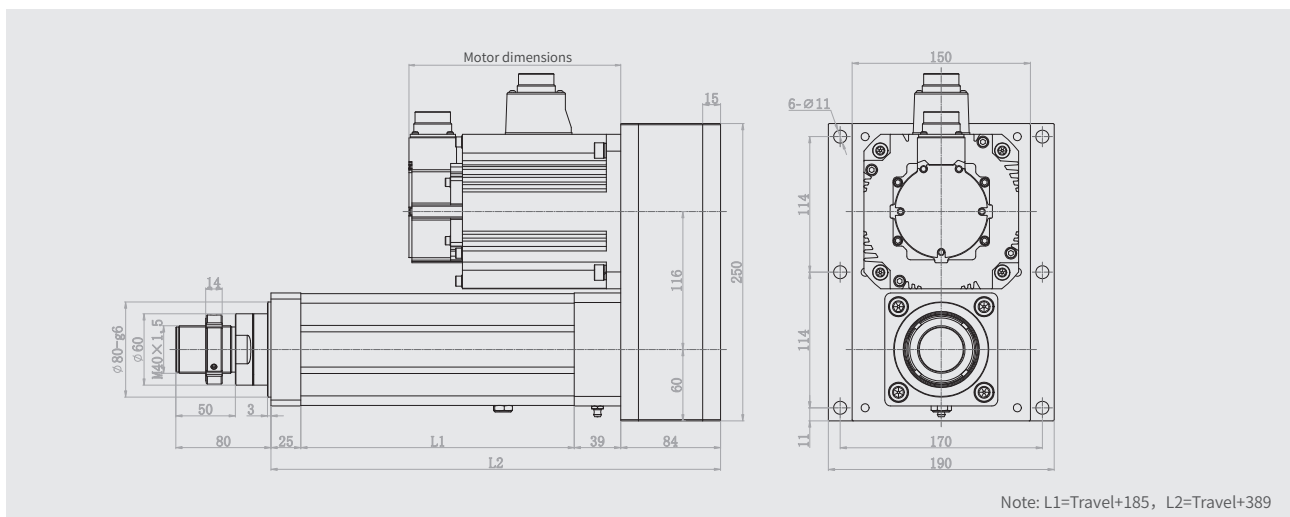
Load Type	ΦA	ΦB	ΦC	C	D	E	F	H	G	M
Standard external thread	Φ90	Φ75	-	60	110	5	14	-	-	M40 x 1.5
Internal thread	Φ90	Φ75	-	40	30	5	-	-	-	M24
I-shape joint	Φ90	Φ75	Φ35	-	215	5	35	55	-	-
Rod end bearing	Φ90	Φ75	Φ35	-	140	5	25	-	-	-
U-shape hinge	Φ90	Φ75	Φ35	-	215	5	35	73	70	-

Diagram of Standard Dimensions

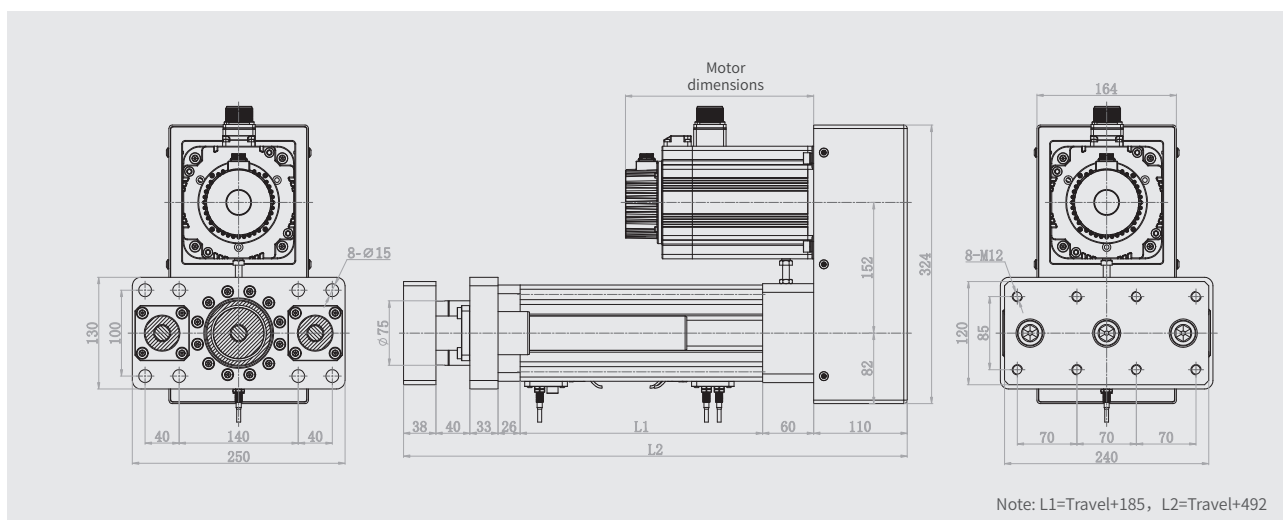
LY110-D-3000W-CA-OS



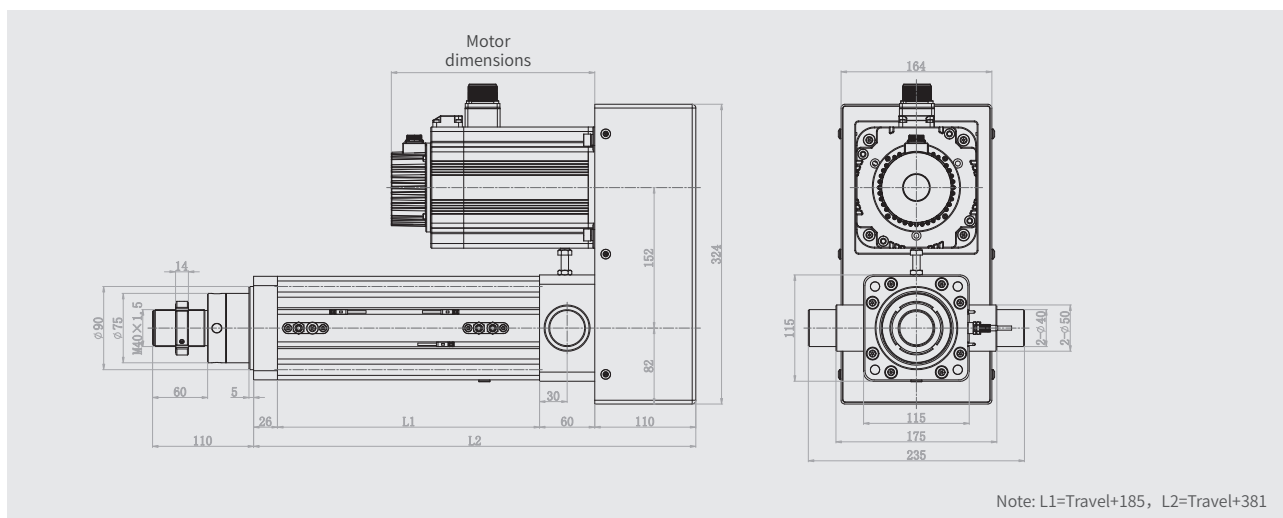
LY110-D-3000W-DA-OS



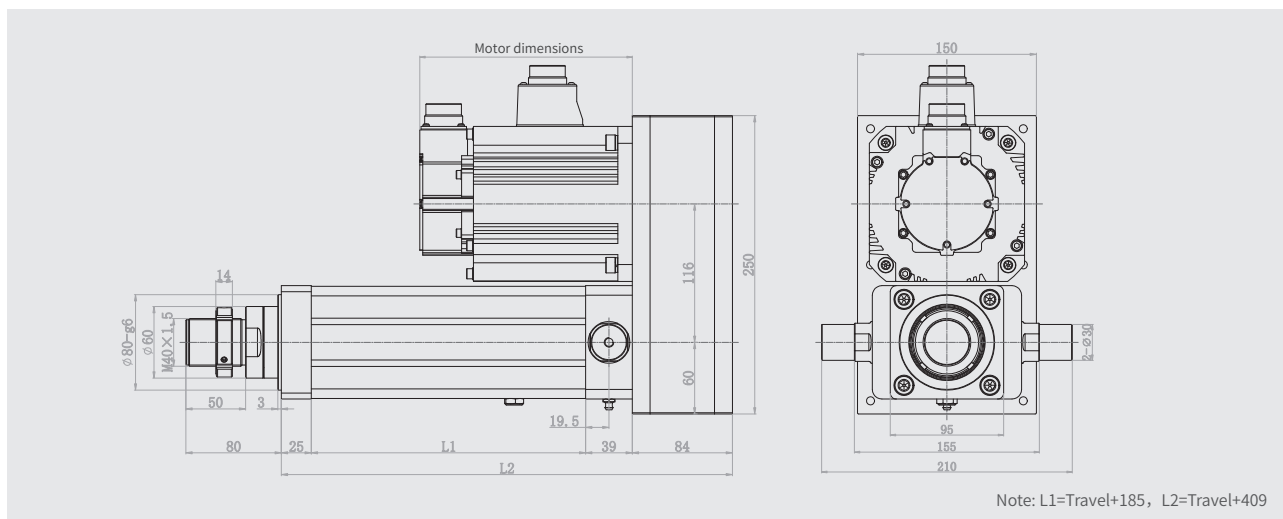
LY110-D-3000W-DL-OS



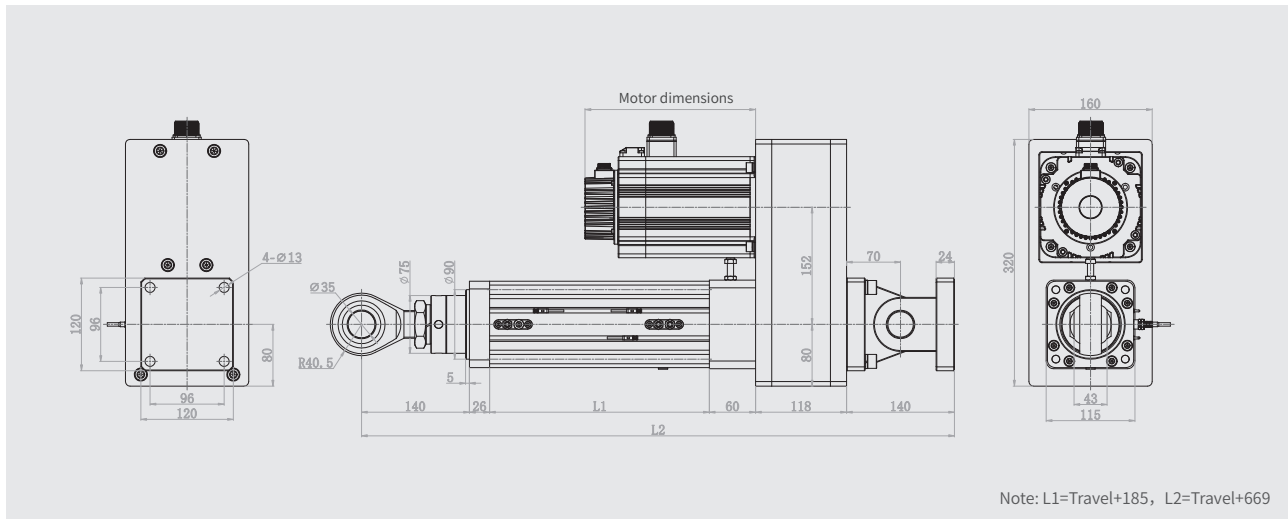
LY110-D-3000W-EA-OS



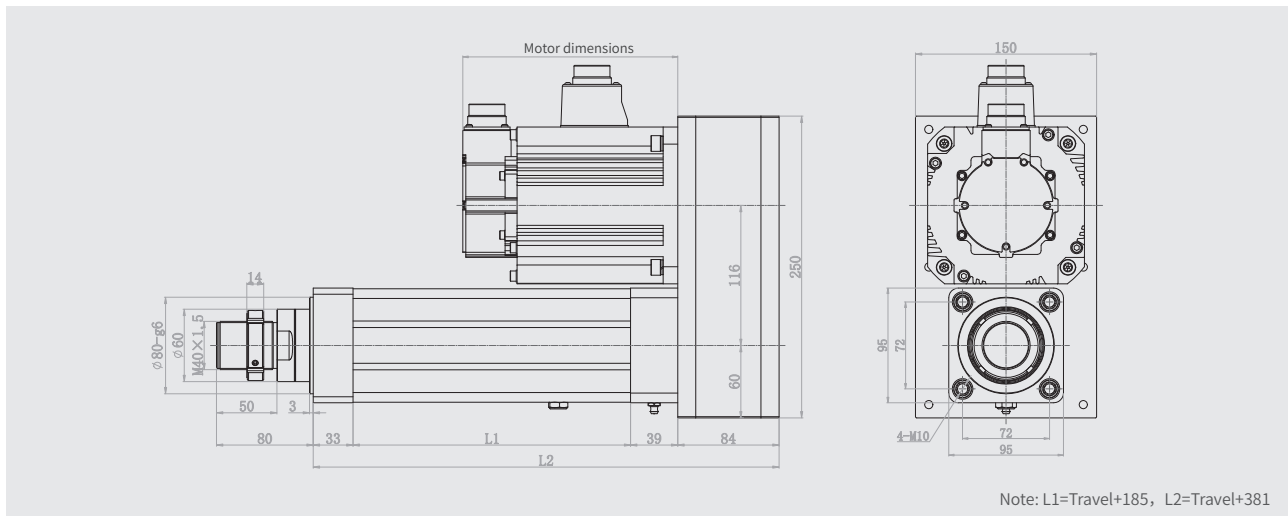
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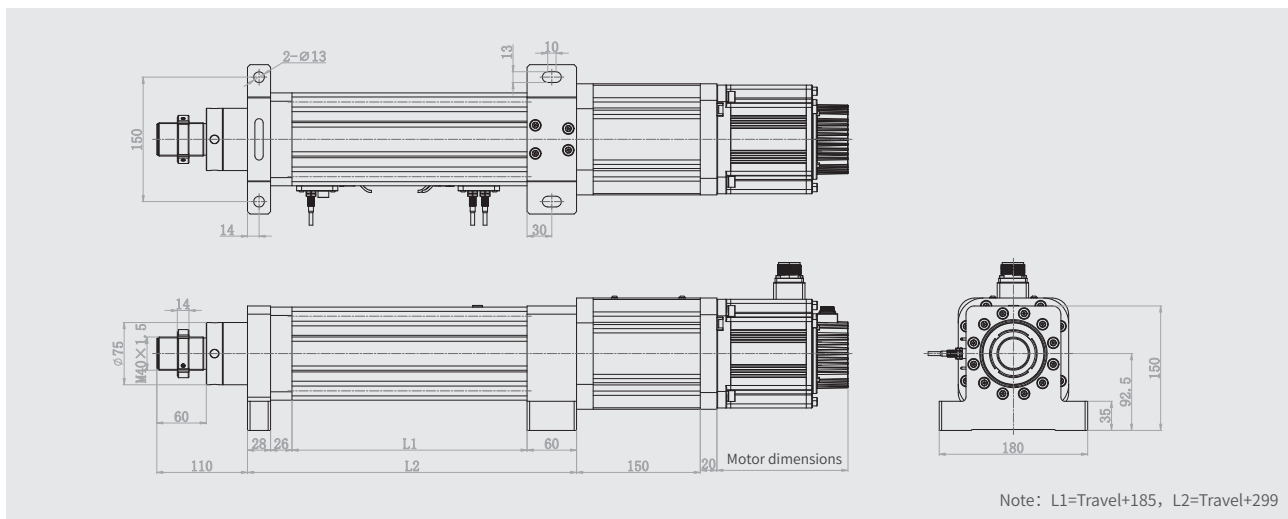
LY110-D-3000W-JA-Y

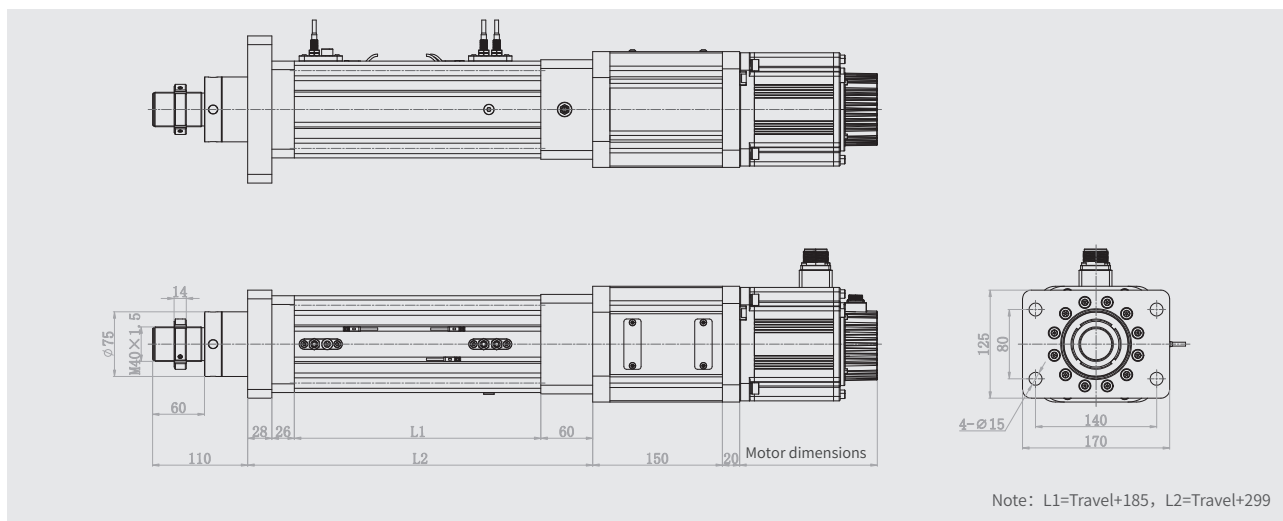
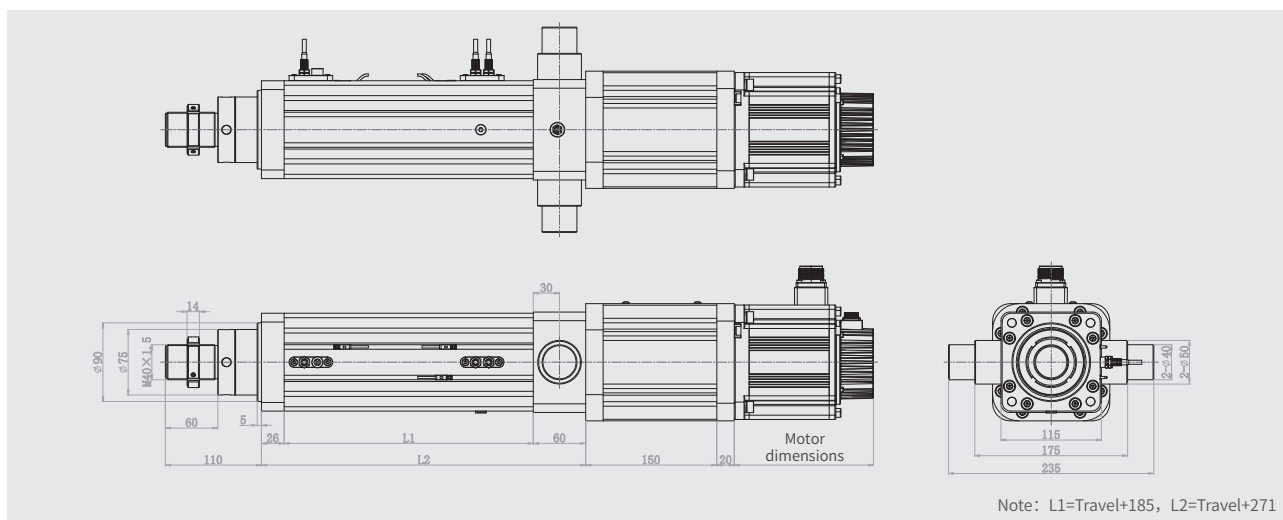
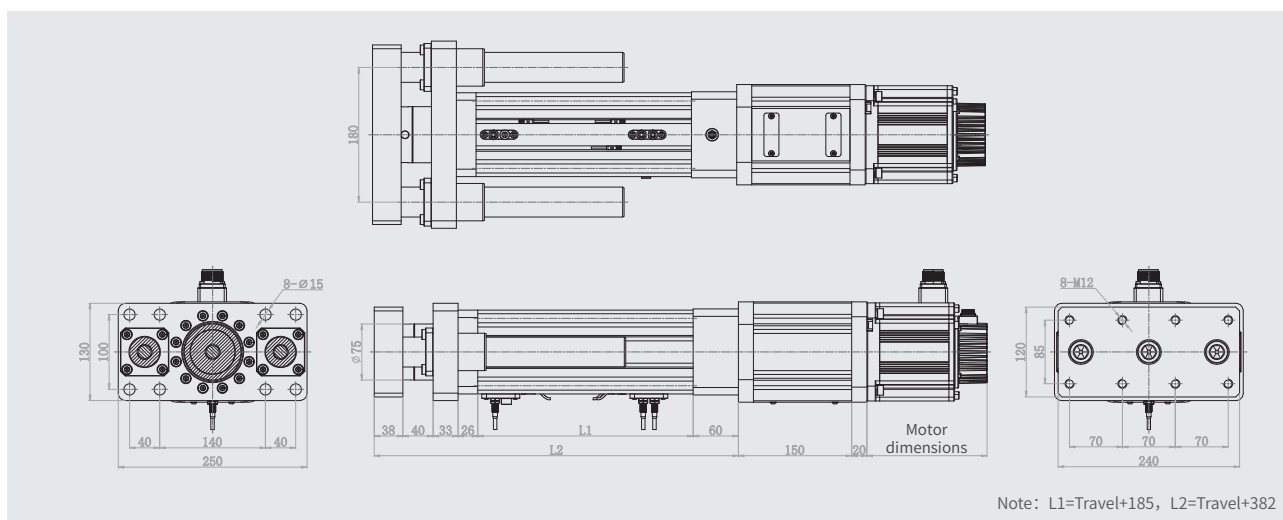


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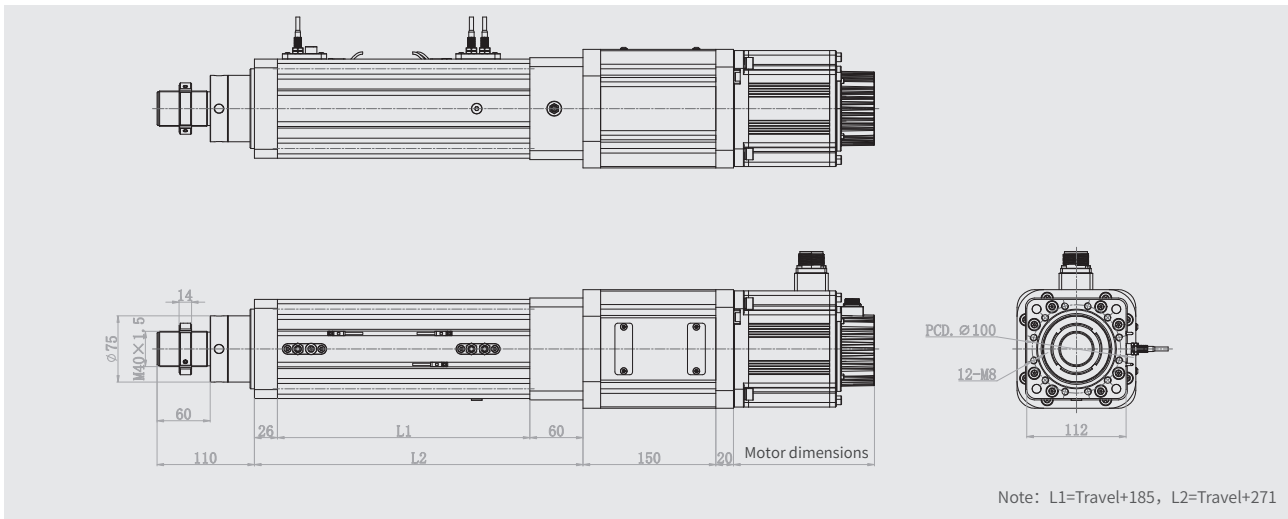


LY110-S-2000W-CA-OS





LY110-S-2000W-SA-OS



LS Series

LSC Series

GS Series

LEB Series

LB Series

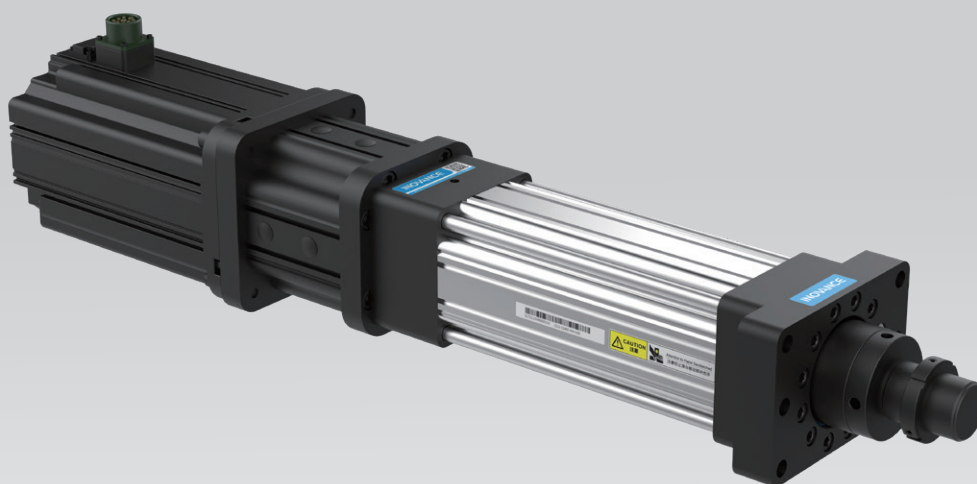
LBC Series

KS Series

LY Series

GY Series

LY 135 Lead Screw-Driven Electric Cylinder



Max. travel	1,800 mm	Max. speed	300 mm/s
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Motor power	3,000 W	Ball screw	ø50 mm
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Model Description

L Y 135 - 10 S 100 - N 30 - 300 B-D - 5 - VP - FA - OS - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰

① Series number L	⑥ Travel 50 mm to 1,800 mm Interval of 50 mm	⑪ Brake None: No brake B: Brake	⑫ Motor voltage 380 V, not involved for LY75 and below
② Cylinder type Y: Lead Screw-Driven Electric Cylinder	⑦ Sensor type N: NPN sensor P: PNP sensor	⑬ Deceleration of reducer, reduction ratio of 5:1, not involved for LY75 and below	
③ Width 135: 134 mm	⑧ Number of NO switches 0: No 1: 1 2: 2 3: 3	⑭ Drive type VP: Standard SV660P drive VN: Standard SV660N drive	
④ Lead 10: 10 mm	⑨ Number of NC switches 0: No 1: 1 2: 2 3: 3	⑮ Installation method FA: Front flange-mounted DA: Rear flange-mounted CA: Horizontal mounting ¹ EA: Trunnion mounting JA: Hinged support mounting DL: Guide pillar mounting SA: Front lock mounting HL: Backpack mounting	
⑤ Motor position S: Direct connected D: Connected down	⑩ Motor power 300: 3,000 W	⑯ Rod head connection mode IS: Internal thread OS: External thread Y: Rod end bearing U: U-shape hinge I: I-shape joint	
		⑰ Customization	

Basic Parameters

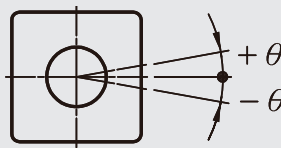
Item	Specification			
Standard Electromechanical Rated Power (kW)	1.8		7.5	
Electromechanical Rated Torque (N·m)	11.5		48	
Electromechanical Rated Speed (r/min)	1,500		1,500	
Screw Specification	5010	5020	5010	5020
Reduction Ratio	Frame size 115/142			
Repeatability (mm)	± 0.02			
Standard Electromechanical Rated Thrust (kN)	6.1	3.06	25.62	13
Standard Electromechanical Rated Speed (mm/s)	150	300	150	300
Maximum Effective Travel (mm)	1,800			
Maximum Load Thrust (kN)	100			
Maximum Telescopic Speed (mm/s)	300			
Magnetic Switch	DGHON-TN		NPN	
	DGHON-TP		PNP	

Note: (1) For a travel over 1,800 mm, contact our business personnel.

(2) The motor acceleration/deceleration is set to 0.2s.

Anti-Backlash Precision

■ Anti-backlash precision of pushing rod



Anti-backlash precision θ

$\pm 0.3^\circ$

Note: Prevent rotational torque to the piston rod during use, as it may cause deformation of the anti-rotation block, response error of the automatic switch, and deformation of the internal slide rail, subsequently increasing the actuating resistance.

Standard Parameter Configuration

Basic Parameters

Cylinder Outer Diameter	Cylinder Inner Diameter	Allowed Maximum Thrust	Travel Range	Allowed Maximum Speed	Rotation Angle of Piston Rod	Limit Switch	
134 mm x 134 mm	φ120 mm	≤ 100 kN	≤ 1,800 mm	≤ 300 mm/s	±0.3°	Magnetic induction switch	Proximity switch

Optional Parameters

Screw Lead	Timing Pulley Speed Ratio (Input: Output)			Direct-Coupled Motor		Adapted Reducer/Input Flange (Servo)	
10 mm	1:1	1.5:1	2:1	130-frame servo motor	180-frame servo motor	Frame size 115	Frame size 80/100/130/180
20 mm						Frame size 142	Frame size 130/180

Screw Parameters

Screw Model	Screw Type	Screw Diameter	Screw Lead	Dynamic Load Ca (kN)	Static Load Coa (kN)	Stiffness kgf/μm	Ball Diameter	Lead Screw	Slenderness Ratio	Accuracy Class/ Positioning Precision
PBSI5010-8	Ball screw	50 mm	10 mm	104.1	251.2	/	7.144 mm	40K12	1:50	C5/±0.01
SFS5020-3.8			20 mm	13.7	130.7	66	6.35 mm			C7/±0.02

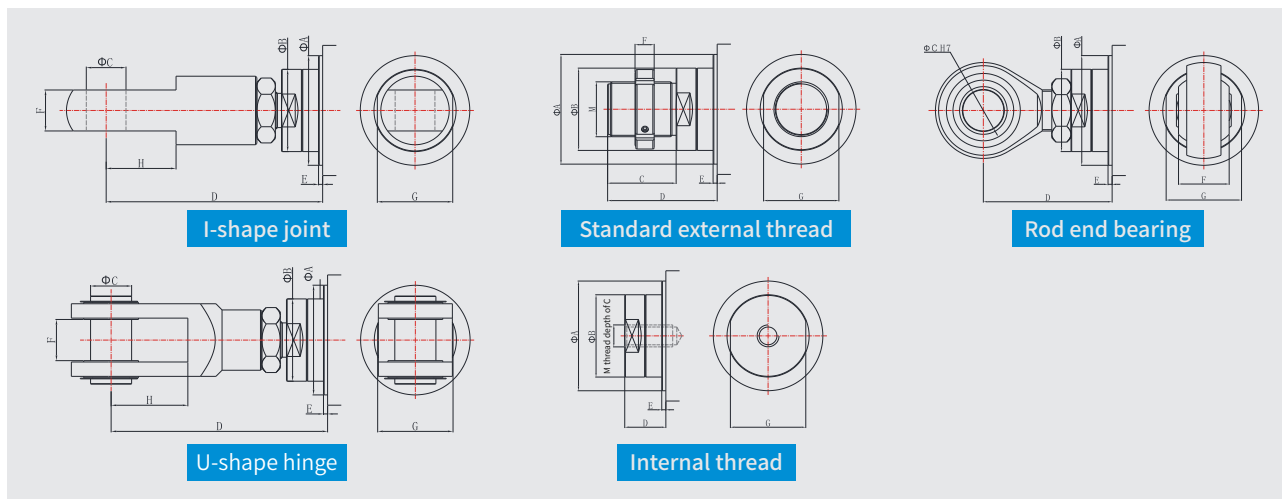
Bearing Parameters

Bearing Model	Dynamic Load Cr (kN)	Static Load Cor (kN)
Deep groove ball bearing 6211 x 2	43.4	29.2
Thrust bearing 51311	119	246

Timing Pulley and Timing Belt Parameters

Timing Pulley Speed Ratio	Driving Gear Specification	Driven Gear Specification	Number of Teeth in Driving Gear	Number of Teeth in Driven Gear	Timing Pulley Center Distance	Timing Belt Perimeter	Timing Belt Width
1:1	14M50T72	14M50T62	28	28	196 mm	784	50 mm
1.5:1			24	36		812	
2:1			18	36		784	

Dimensions of Front Connection

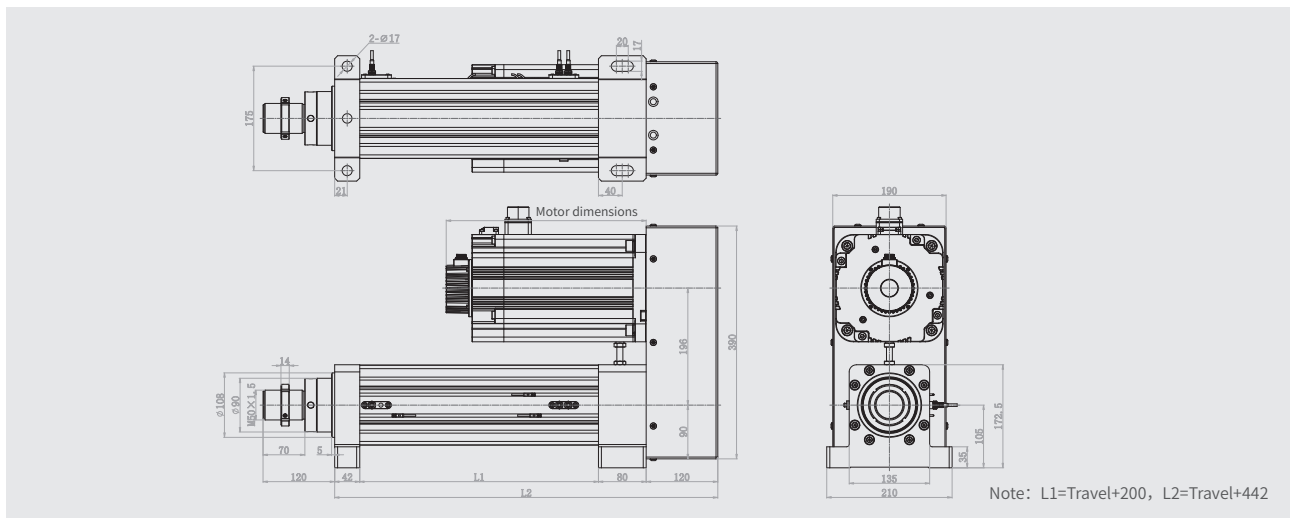


Dimension Table (Unit: mm)

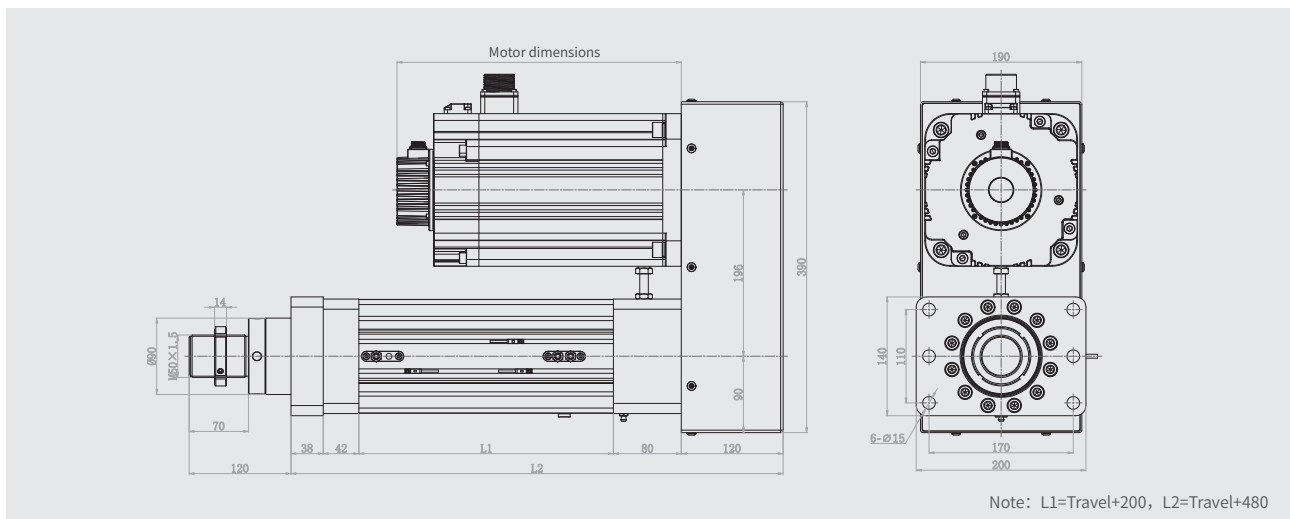
Load Type	ΦA	ΦB	ΦC	C	D	E	F	H	G	M
Standard external thread	Φ110	Φ90	-	70	120	10	14	-	-	M50 x 2
Internal thread	Φ110	Φ90	-	45	50	10	-	-	-	M30 x 1.5
I-shape joint	Φ110	Φ90	Φ40	-	245	10	40	85	-	-
Rod end bearing	Φ110	Φ90	Φ50	-	165	10	60	-	-	-
U-shape hinge	Φ110	Φ90	Φ40	-	248	10	40	86	85	-

Diagram of Standard Dimensions

LY135-D-7500W-CA-OS



LY135-D-7500W-FA-OS



LS Series

LSC Series

GS Series

LEB Series

LB Series

LBC Series

KS Series

LY Series

GY Series

Technical drawing of the M2000 motor showing side and front views with dimensions.

Side View Dimensions:

- Total length: 505
- Motor dimensions: 25
- Shaft diameter: $\phi 90$
- Shaft length: 14
- Shaft mounting flange: $M20 \times 1.5$
- Shaft mounting flange diameter: 70
- Motor body diameter: 120
- Motor body length: 38
- Motor body diameter: 42
- Motor body length: L1
- Motor body diameter: 80
- Motor body length: 145
- Motor body diameter: 25

Front View Dimensions:

- Motor body diameter: 170
- Motor body length: 200
- Motor body diameter: 140
- Motor body length: 110
- Motor body diameter: 6- $\phi 15$

Note: L1=Travel+200, L2=Travel+505

Note: $L1 = \text{Travel} + 200$, $L2 = \text{Travel} + 505$

LS Series

GS Series

LEB Series

LB Series

LBC Series

KS Series

LY Series

GY Series

Basic Parameters

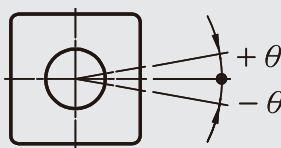
Item	Specification			
Standard Electromechanical Rated Power (kW)	7.5		11.8	
Electromechanical Rated Torque (N·m)	48		75	
Electromechanical Rated Speed (r/min)	1,500		1,500	
Screw Specification	5010	5020	5010	5020
Reduction Ratio	Frame size 115/142			
Repeatability (mm)	± 0.02			
Standard Electromechanical Rated Thrust (kN)	25.62	12.81	40.3	20.2
Standard Electromechanical Rated Speed (mm/s)	150	300	150	300
Maximum Effective Travel (mm)	1,800			
Maximum Load Thrust (kN)	130			
Maximum Telescopic Speed (mm/s)	300			
Proximity switch	MT08N02-02-40		NPN	
	MT08P02-02-40		PNP	

Note: (1) For a travel over 1,800 mm, contact our business personnel.

(2) The motor acceleration/deceleration is set to 0.2s.

Anti-Backlash Precision

Anti-backlash precision of pushing rod



Anti-backlash precision θ

$\pm 0.3^\circ$

Note: Prevent rotational torque to the piston rod during use, as it may cause deformation of the anti-rotation block, response error of the automatic switch, and deformation of the internal slide rail, subsequently increasing the actuating resistance.

Standard Parameter Configuration

Basic Parameters

Cylinder Outer Diameter	Cylinder Inner Diameter	Allowed Maximum Thrust	Travel Range	Allowed Maximum Speed	Rotation Angle of Piston Rod	Limit Switch	
φ132 mm	φ110 mm	≤ 130 kN	≤ 1,800 mm	≤ 300 mm/s	±0.3°	Magnetic induction switch	Proximity switch

Optional Parameters

Screw Lead	Timing Pulley Speed Ratio (Input: Output)			Direct-Coupled Motor	Adapted Reducer/Input Flange (Servo)	
10 mm	1:1	/	/	No	Frame size 142	Frame size 130/180
20 mm						

Screw Parameters

Screw Model	Screw Type	Screw Diameter	Screw Lead	Dynamic Load Ca (kN)	Static Load Coa (kN)	Stiffness kgf/μm	Ball Diameter	Lead Screw	Slenderness Ratio	Accuracy Class/ Positioning Precision
PBSI5010-8	Ball screw	50 mm	10 mm	104.1	251.2	/	7.144 mm	40K12	1:50	C7/±0.02
SFU5010-8				104.1	251.2	/				
PBSI5020-7			20 mm	230.7	251.2	/				

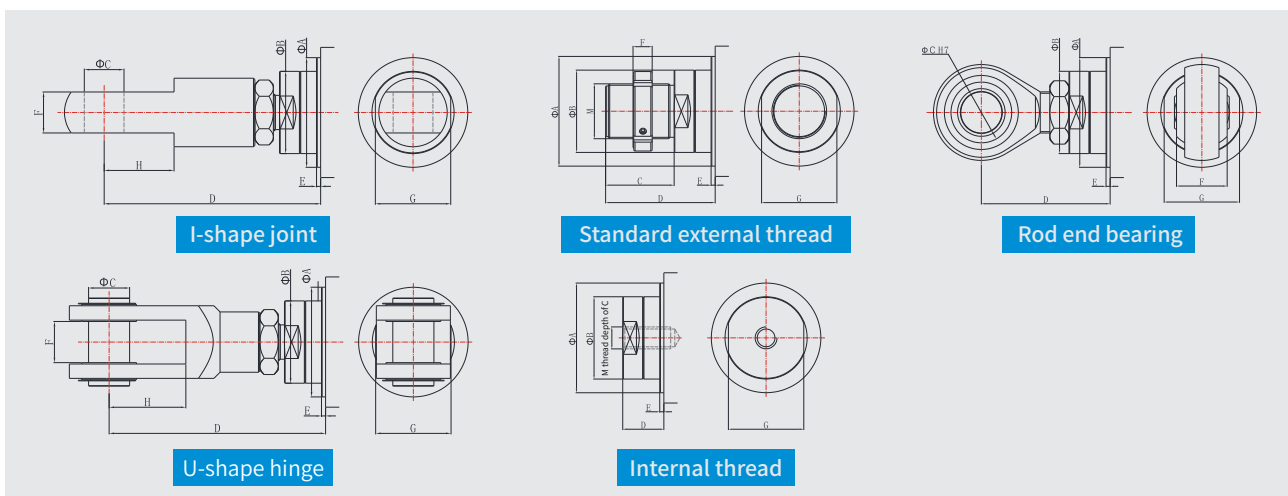
Bearing Parameters

Bearing Model	Dynamic Load Cr (kN)	Static Load Cor (kN)
Deep groove ball 6009-ZZ x 2	19.9	14
Thrust bearing 51212	73.5	179

Timing Pulley and Timing Belt Parameters

Timing Pulley Speed Ratio	Driving Gear Specification	Driven Gear Specification	Number of Teeth in Driving Gear	Number of Teeth in Driven Gear	Timing Pulley Center Distance	Timing Belt Perimeter	Timing Belt Width
1:1	14M65T77	14M65T77	28	28	196 mm	784	50 mm

Dimensions of Front Connection

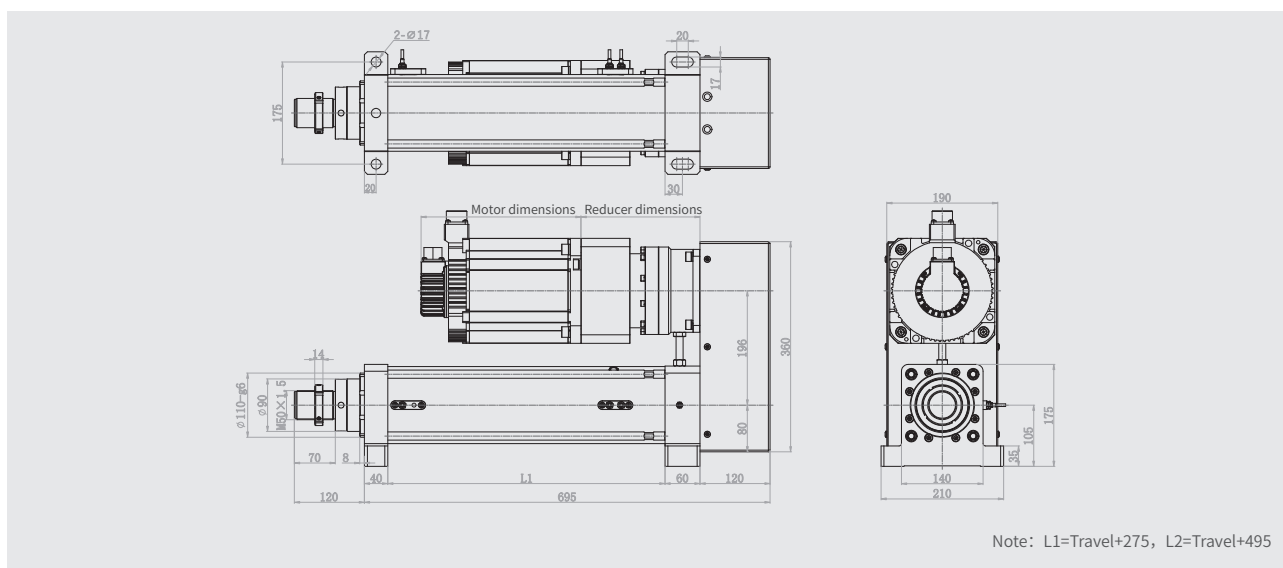


Dimension Table (Unit: mm)

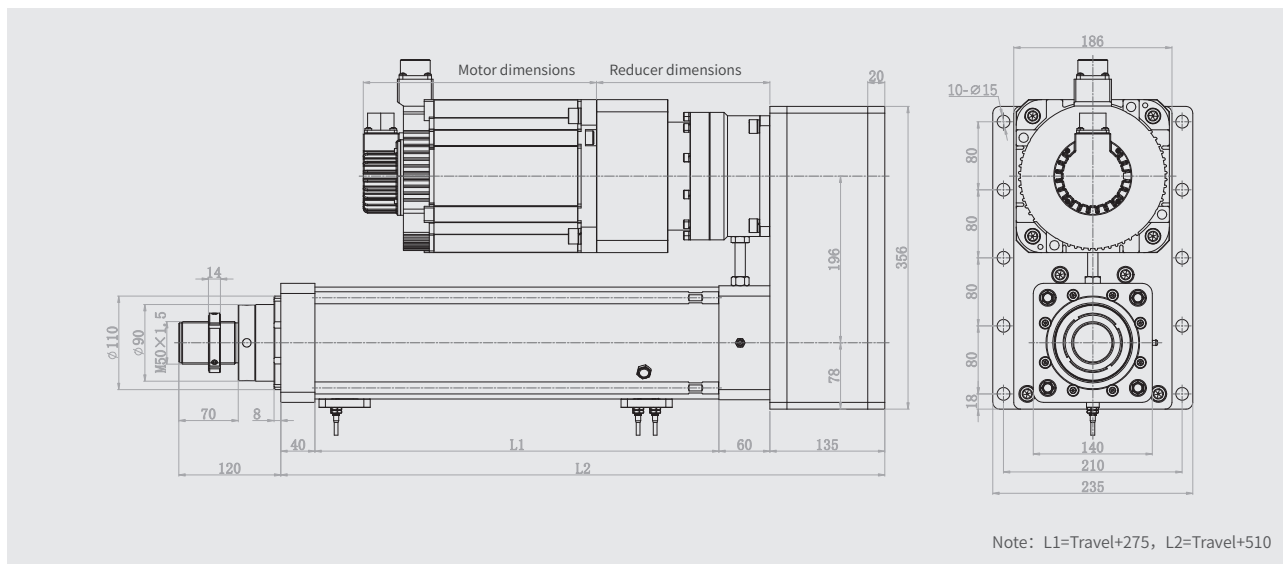
Load Type	ΦA	ΦB	ΦC	C	D	E	F	H	G	M
Standard external thread	Φ110	Φ90	-	70	120	10	14	-	-	M50 x 2
Internal thread	Φ110	Φ90	-	45	50	10	-	-	-	M30 x 1.5
I-shape joint	Φ110	Φ90	Φ40	-	245	10	40	85	-	-
Rod end bearing	Φ110	Φ90	Φ50	-	165	10	60	-	-	-
U-shape hinge	Φ110	Φ90	Φ40	-	245	10	40.3	86	85	-

Diagram of Standard Dimensions

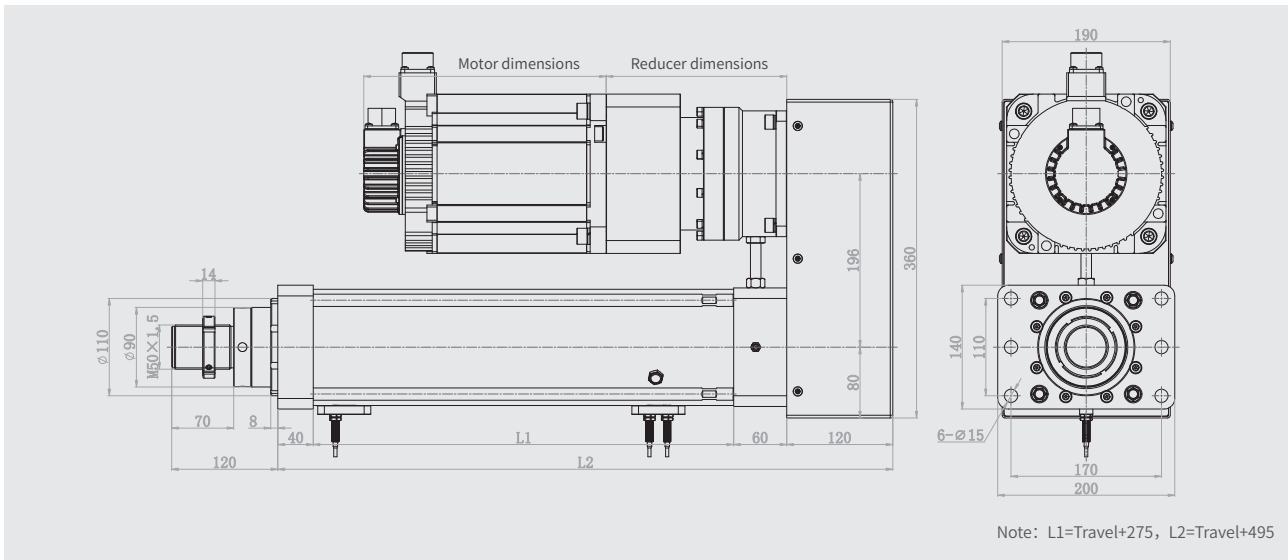
LY140-D-5500W-5-CA-OS



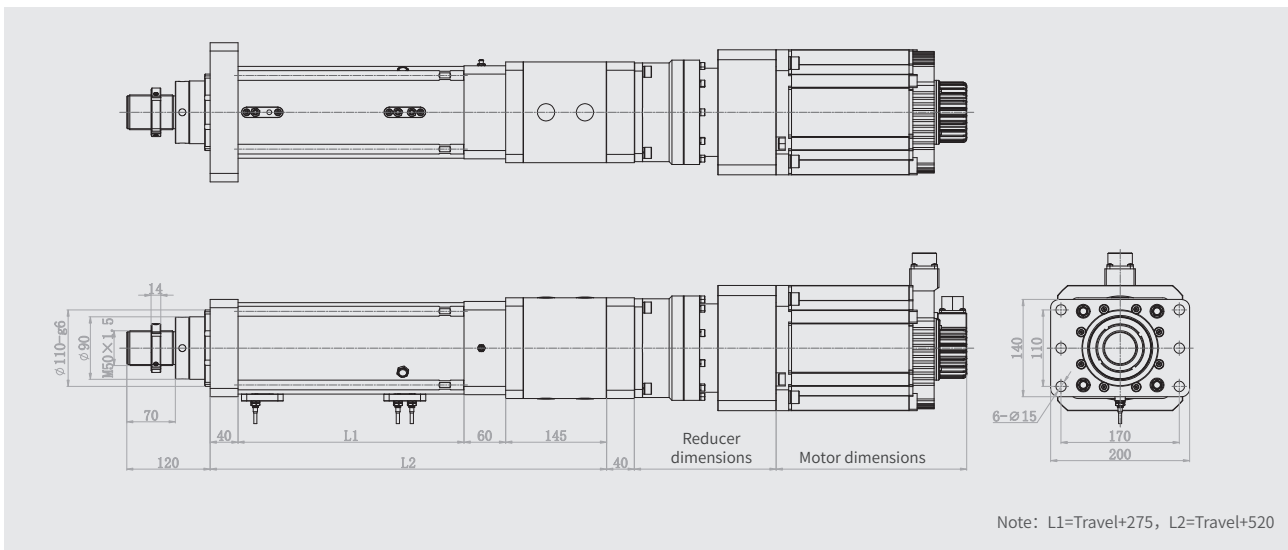
LY140-D-5500W-5-DA-OS



LY140-D-5500W-5-FA-OS



LY140-S-5500W-5-FA-OS



LS Series

LSC Series

GS Series

LEB Series

LB Series

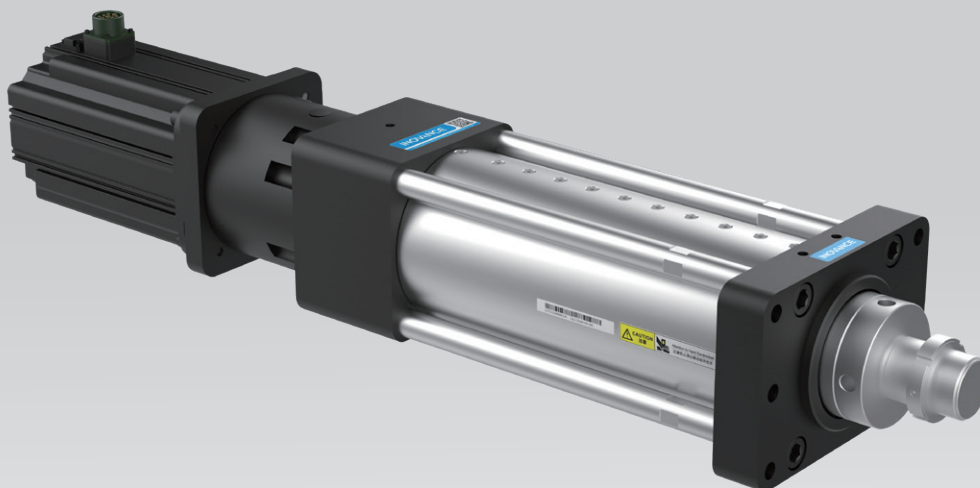
LBC Series

KS Series

LY Series

GY Series

LY 180 Lead Screw-Driven Electric Cylinder



Max. travel	2,000 mm	Max. speed	250 mm/s
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Motor power	7,500 W	Ball screw	ø63 mm
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Model Description

L Y 180 - 20 S 100 - N 30 - 750 B D - 5 VP - FA - OS - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰

① Series number L	⑥ Travel 50 mm to 2,000 mm Interval of 50 mm	⑪ Brake None: No brake B: Brake	⑫ Motor voltage 380 V, not involved for LY75 and below
② Cylinder type Y: Lead Screw-Driven Electric Cylinder	⑦ Sensor type N: NPN sensor P: PNP sensor	⑬ Deceleration of reducer, reduction ratio of 5:1, not involved for LY75 and below	
③ Width 180: φ180	⑧ Number of NO switches 0: No 1: 1 2: 2 3: 3	⑭ Drive type VP: Standard SV660P drive VN: Standard SV660N drive	
④ Lead 20: 20 mm	⑨ Number of NC switches 0: No 1: 1 2: 2 3: 3	⑮ Installation method FA: Front flange-mounted DA: Rear flange-mounted CA: Horizontal mounting ¹ EA: Trunnion mounting JA: Hinged support mounting DL: Guide pillar mounting SA: Front lock mounting HL: Backpack mounting	
⑤ Motor position S: Direct connected D: Connected down	⑩ Motor power 750: 7,500 W	⑯ Rod head connection mode IS: Internal thread OS: External thread Y: Rod end bearing U: U-shape hinge I: I-shape joint	
		⑰ Customization	

Basic Parameters

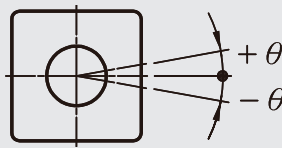
Item	Specification	
Standard Electromechanical Rated Power (kW)	7.5	18.1
Electromechanical Rated Torque (N·m)	48	115
Electromechanical Rated Speed (r/min)	1,500	1,500
Screw Specification	6,320	6,320
Reduction Ratio	Frame size 142/180	
Repeatability (mm)	± 0.02	
Standard Electromechanical Rated Thrust (kN)	12.81	30.7
Standard Electromechanical Rated Speed (mm/s)	250	250
Maximum Effective Travel (mm)	2,000	
Maximum Load Thrust (kN)	200	
Maximum Telescopic Speed (mm/s)	250	
Proximity switch	MT08N02-02-40	NPN
	MT08P02-02-40	PNP

Note: (1) For a travel over 2,000 mm, contact our business personnel.

(2) The motor acceleration/deceleration is set to 0.2s.

Anti-Backlash Precision

Anti-backlash precision of pushing rod



Anti-backlash precision θ

$\pm 0.3^\circ$

Note: Prevent rotational torque to the piston rod during use, as it may cause deformation of the anti-rotation block, response error of the automatic switch, and deformation of the internal slide rail, subsequently increasing the actuating resistance.

Standard Parameter Configuration

Basic Parameters

Cylinder Outer Diameter	Cylinder Inner Diameter	Allowed Maximum Thrust	Travel Range	Allowed Maximum Speed	Rotation Angle of Piston Rod	Limit Switch
φ180 mm	φ160 mm	≤ 200 kN	≤ 2,000 mm	≤ 250 mm/s	±0.3°	Proximity switch

Optional Parameters

Screw Lead	Timing Pulley Speed Ratio (Input: Output)			Direct-Coupled Motor	Adapted Reducer/Input Flange (Servo)	
20 mm	1:1	/	/	No	Frame size 142	Frame size 130/180
					Frame size 180	Frame size 130/200/220

Screw Parameters

Screw Model	Screw Type	Screw Diameter	Screw Lead	Dynamic Load Ca (kN)	Static Load Coa (kN)	Stiffness kgf/μm	Ball Diameter	Lead Screw	Slenderness Ratio	Accuracy Class/ Positioning Precision
G6320-8	Ball screw	63 mm	20 mm	224	774.7	663	12.7 mm	50K14	1:50	C7/±0.02 C7/±0.02

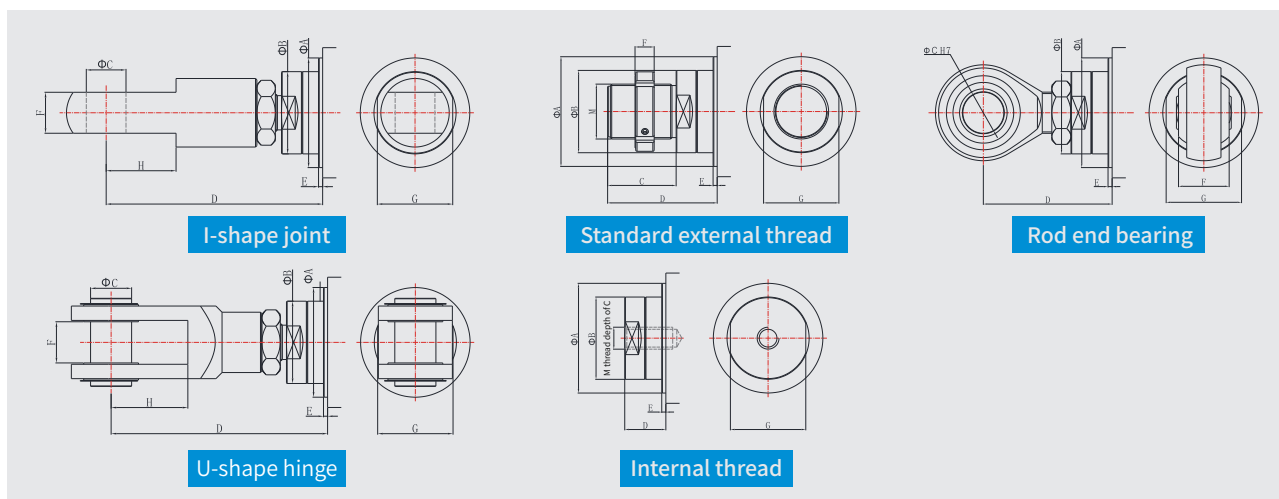
Bearing Parameters

Bearing Model	Dynamic Load Cr (kN)	Static Load Cor (kN)
Tapered roller bearing HR 32312 J x 2	233	295

Timing Pulley and Timing Belt Parameters

Timing Pulley Speed Ratio	Driving Gear Specification	Driven Gear Specification	Number of Teeth in Driving Gear	Number of Teeth in Driven Gear	Timing Pulley Center Distance	Timing Belt Perimeter	Timing Belt Width
1:1	14M65T86.5	14M65T76.5	36	36	231 mm	966	65 mm

Dimensions of Front Connection

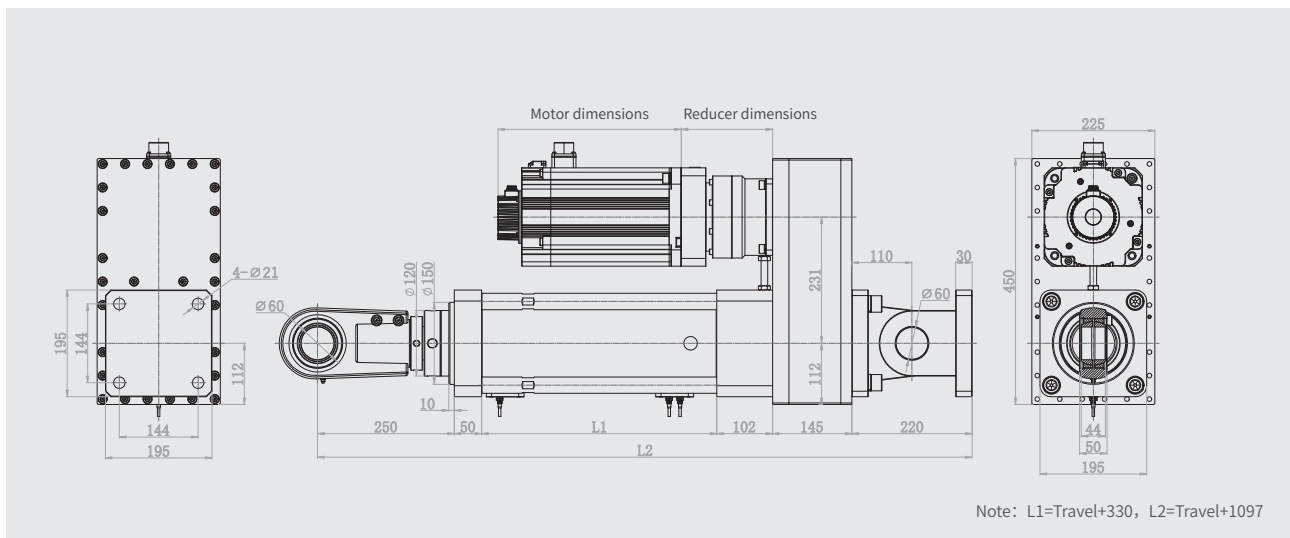


Dimension Table (Unit: mm)

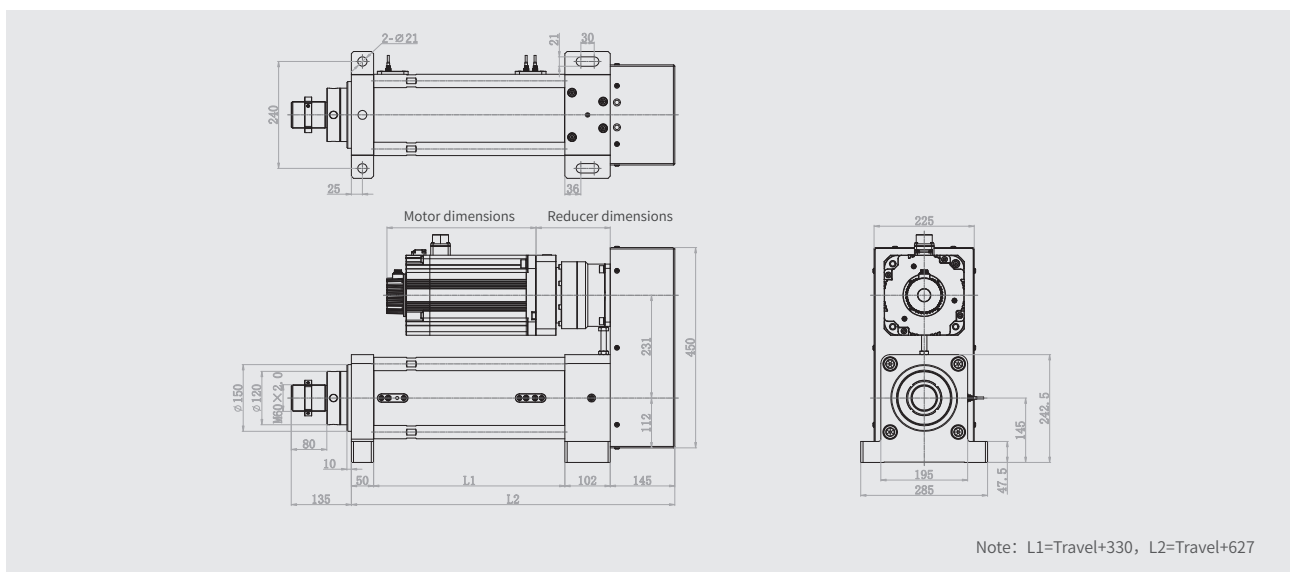
Load Type	ΦA	ΦB	ΦC	C	D	E	F	H	G	M
Standard external thread	Φ150	Φ120	-	80	135	10	16	-	-	M60 x 2
Rod end bearing	Φ150	Φ120	Φ60	-	245	10	50	-		

Diagram of Standard Dimensions

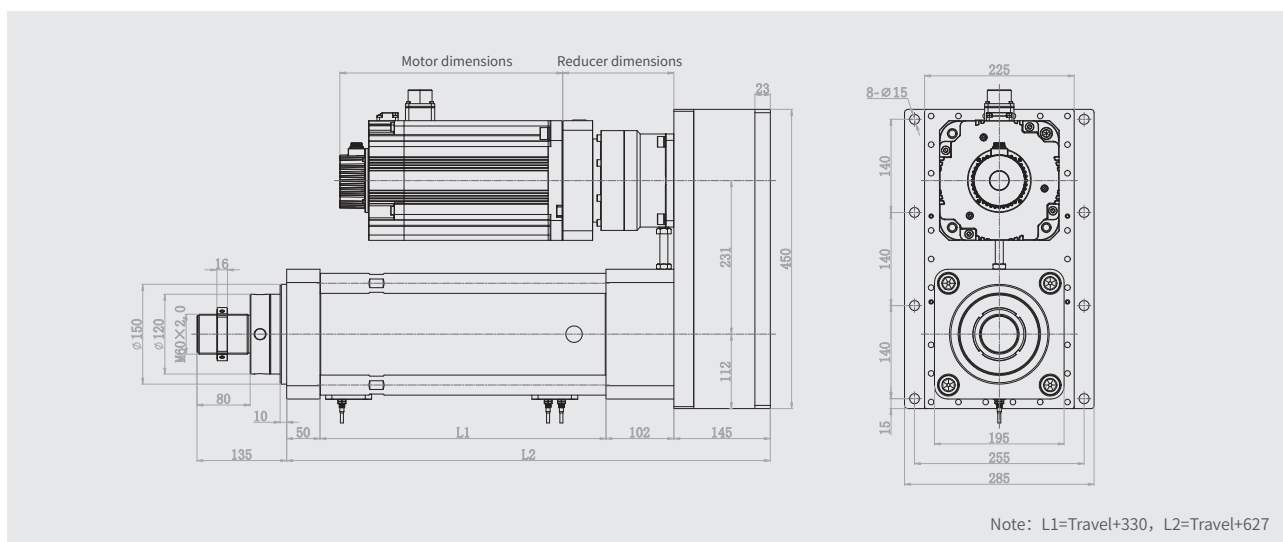
LY180-D-7500W-5-JA-Y



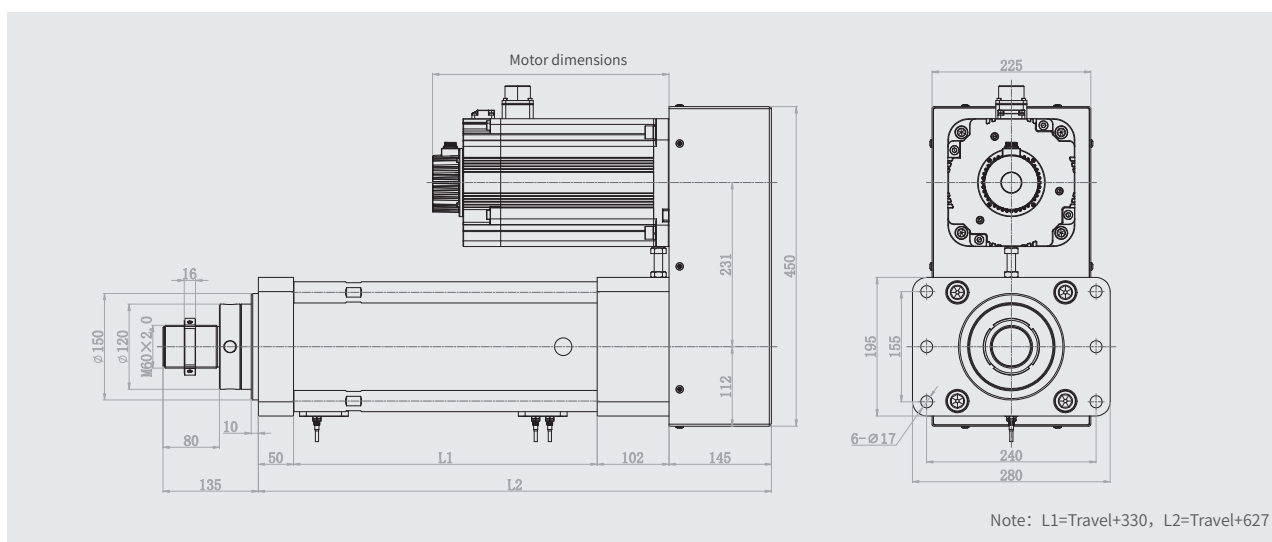
LY180-D-7500W-8-CA-OS



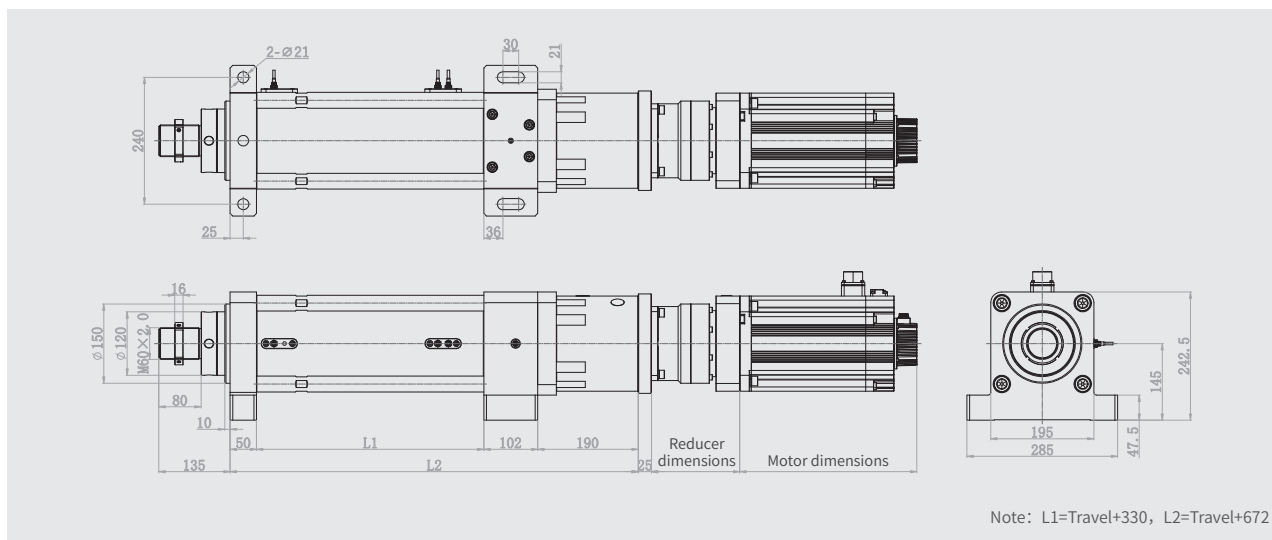
LY180-D-7500W-8-DA-OS



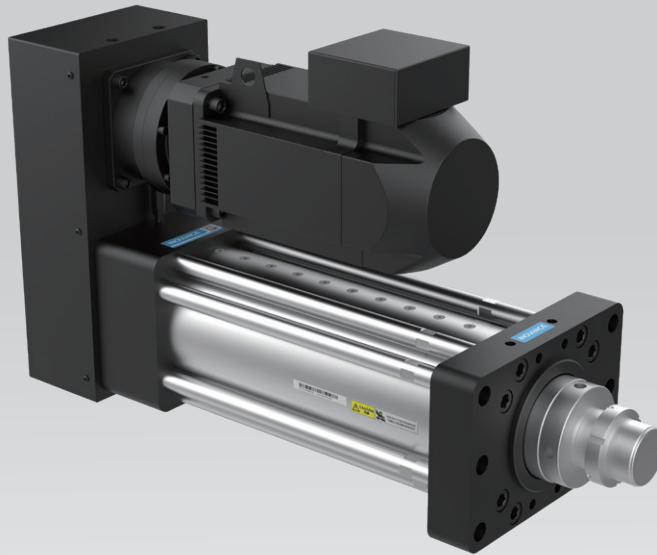
LY180-D-7500W-FA-OS



LY180-S-7500W-5-CA-OS



LY 245 Lead Screw-Driven Electric Cylinder



Max. travel 2,400 mm

Max. speed 200 mm/s

Motor power 11,800 W

Ball screw ø80 mm

Model Description

L Y 245 - 20 S 100 - N 30 - 1180B-D - 5 - VP - FA - OS - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰

① Series number L	⑥ Travel 50 mm to 2,400 mm Interval of 50 mm	⑪ Brake None: No brake B: Brake	⑫ Motor voltage 380 V, not involved for LY75 and below
② Cylinder type Y: Lead Screw-Driven Electric Cylinder	⑦ Sensor type N: NPN sensor P: PNP sensor	⑬ Deceleration of reducer, reduction ratio of 5:1, not involved for LY75 and below	
③ Width 245: φ210	⑧ Number of NO switches 0: No 1: 1 2: 2 3: 3	⑭ Drive type VP: Standard SV660P drive VN: Standard SV660N drive	
④ Lead 20: 20 mm	⑨ Number of NC switches 0: No 1: 1 2: 2 3: 3	⑮ Installation method FA: Front flange-mounted DA: Rear flange-mounted CA: Horizontal mounting ¹ EA: Trunnion mounting	JA: Hinged support mounting DL: Guide pillar mounting SA: Front lock mounting HL: Backpack mounting
⑤ Motor position S: Direct connected D: Connected down	⑩ Motor power 1180: 11,800 W	⑯ Rod head connection mode IS: Internal thread OS: External thread Y: Rod end bearing U: U-shape hinge I: I-shape joint	
		⑰ Customization	

Basic Parameters

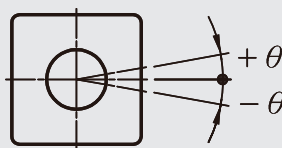
Item	Specification	
Standard Electromechanical Rated Power (kW)	7.5	27
Electromechanical Rated Torque (N · m)	48	180
Electromechanical Rated Speed (r/min)	1,500	1,500
Screw Specification	8,020	8,020
Reduction Ratio	Frame size 180/220	
Repeatability (mm)	±0.02	
Standard Electromechanical Rated Thrust (kN)	12.81	48.04
Standard Electromechanical Rated Speed (mm/s)	500	500
Maximum Effective Travel (mm)	2,400	
Maximum Load Thrust (kN)	400	
Maximum Telescopic Speed (mm/s)	250	
Proximity switch	MT08N02-02-40	NPN (NO)
	MT08P02-02-40	PNP (NC)

Note: (1) For a travel over 2,400 mm, contact our business personnel.

(2) The motor acceleration/deceleration is set to 0.2s.

Anti-Backlash Precision

Anti-backlash precision of pushing rod



Anti-backlash precision θ

±0.3°

Note: Prevent rotational torque to the piston rod during use, as it may cause deformation of the anti-rotation block, response error of the automatic switch, and deformation of the internal slide rail, subsequently increasing the actuating resistance.

Standard Parameter Configuration

Basic Parameters

Cylinder Outer Diameter	Cylinder Inner Diameter	Allowed Maximum Thrust	Travel Range	Allowed Maximum Speed	Rotation Angle of Piston Rod	Limit Switch
Φ210 mm	Φ180 mm	≤ 400 kN	≤ 2,400 mm	≤ 200 mm/s	±0.3°	Proximity switch

Optional Parameters

Screw Lead	Timing Pulley Speed Ratio (Input: Output)			Direct-Coupled Motor	Adapted Reducer/Input Flange (Servo)	
20 mm	1:1	/	/	No	Frame size 180	Frame size 180/200/220
					Frame size 220	Frame size 180/200/220

Screw Parameters

Screw Model	Screw Type	Screw Diameter	Screw Lead	Dynamic Load Ca (kN)	Static Load Coa (kN)	Stiffness kgf/μm	Ball Diameter	Lead Screw	Slenderness Ratio	Accuracy Class/ Positioning Precision
PBSI8020-8	Ball screw	80 mm	20 mm	403.3	1,210.7	/	12.7 mm	70K20	1:50	C5/±0.01 C7/±0.02

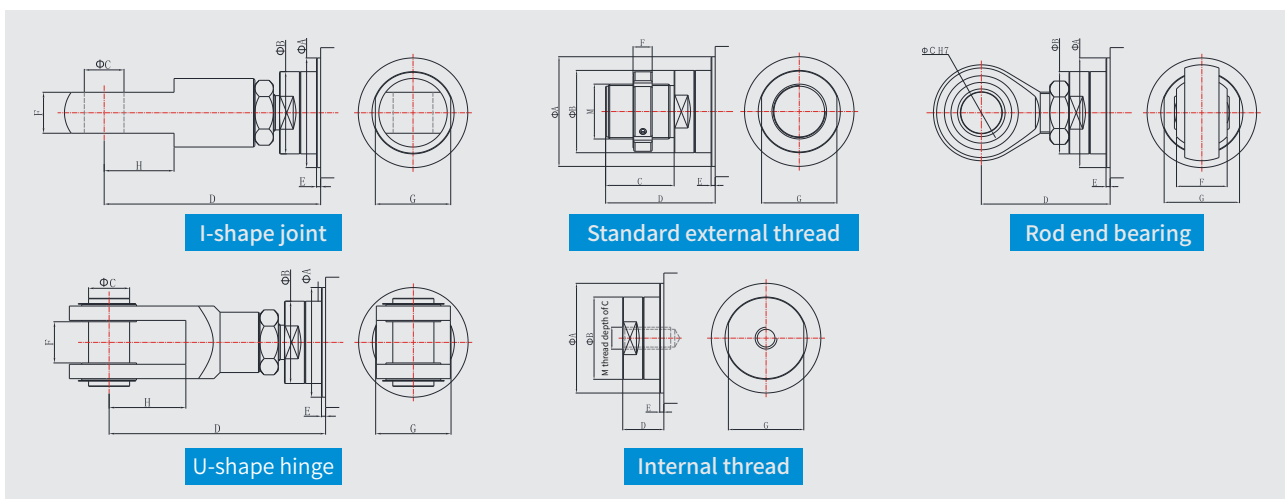
Bearing Parameters

Bearing Model	Dynamic Load Cr (kN)	Static Load Cor (kN)
Tapered roller bearing HR 32312 J x 2	233	295

Timing Pulley and Timing Belt Parameters

Timing Pulley Speed Ratio	Driving Gear Specification	Driven Gear Specification	Number of Teeth in Driving Gear	Number of Teeth in Driven Gear	Timing Pulley Center Distance	Timing Belt Perimeter	Timing Belt Width
1:1	14M65T86.5	14M65T76.5	36	36	231 mm	966	65 mm

Dimensions of Front Connection

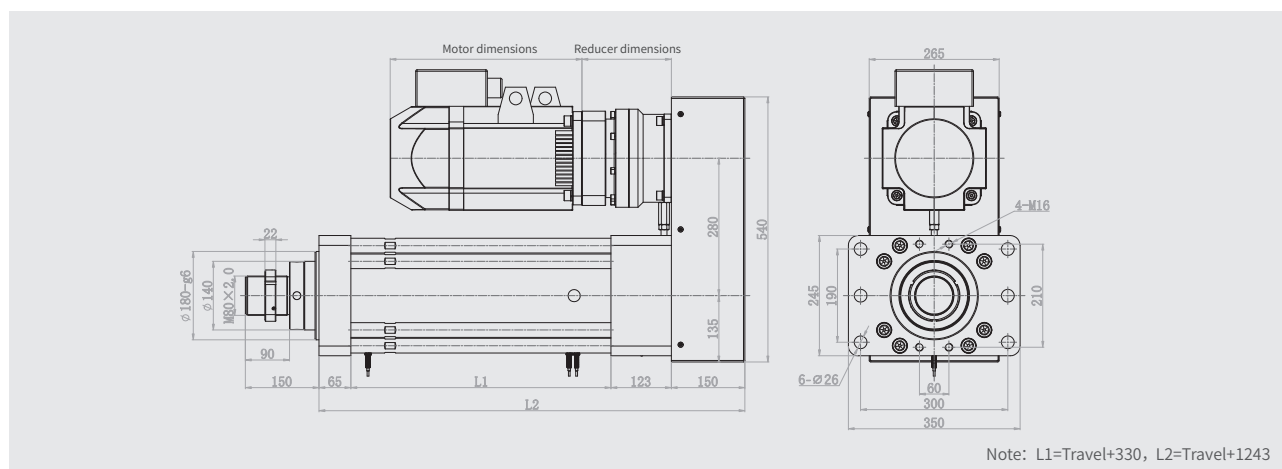


Dimension Table (Unit: mm)

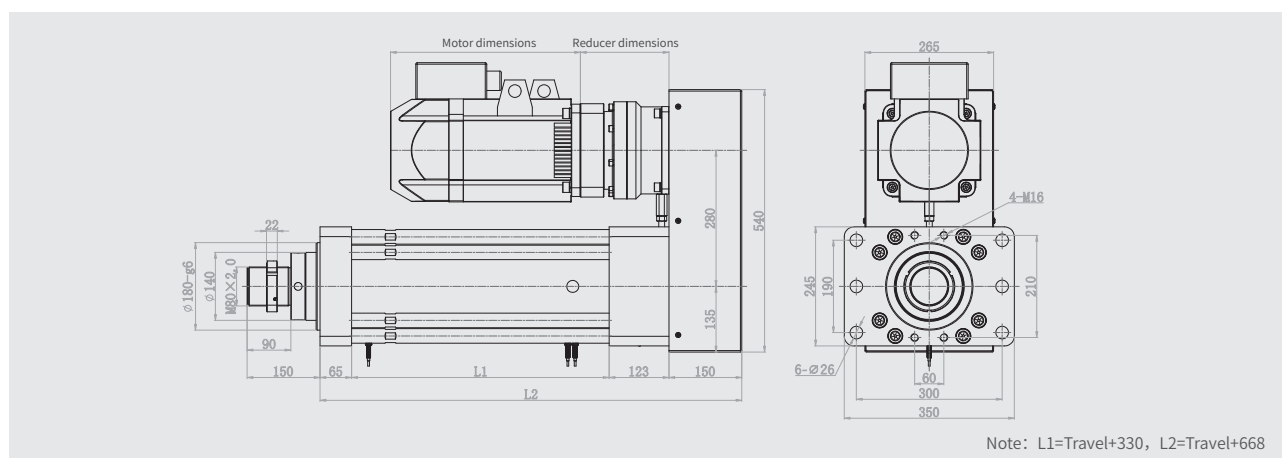
Load Type	ΦA	ΦB	ΦC	C	D	E	F	H	G	M
Standard external thread	Φ180	Φ140	-	90	150	8	24	-	-	M80 x 2
Rod end bearing	Φ180	Φ140	Φ70	-	285	8	55	-	-	-

Diagram of Standard Dimensions

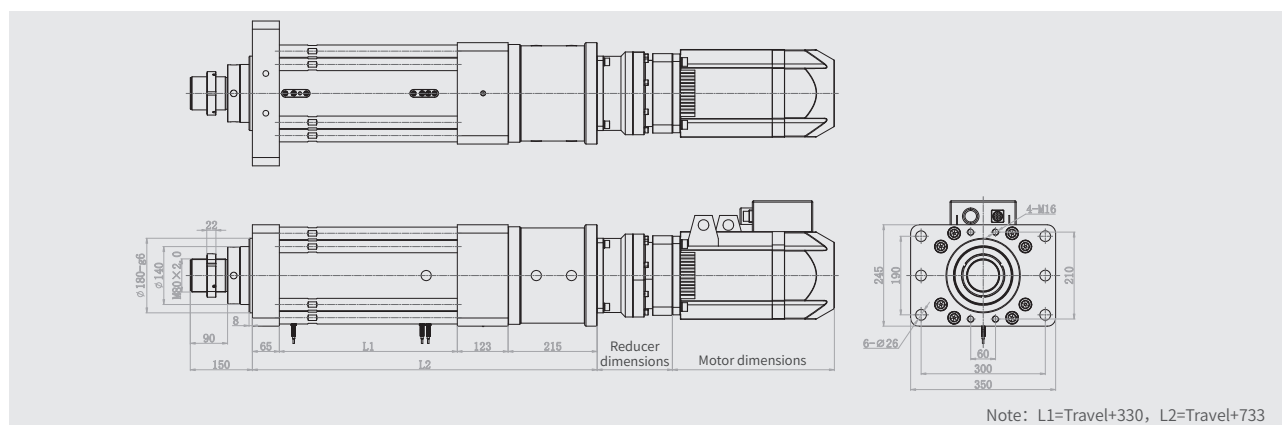
LY245-D-7500W-JA-Y



LY245-D-13000W-10-FA-OS



LY245-S-7500W-10-FA-OS

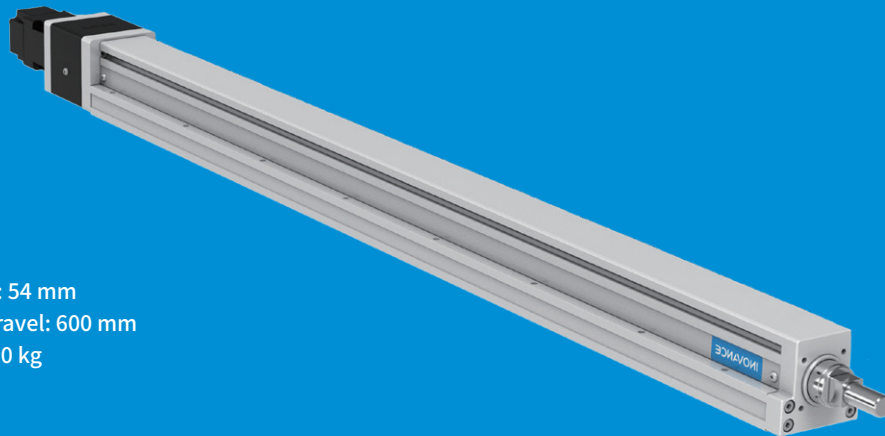


Sliding Table Series

GY Series

General Environment/Track-Embedded Rod-Type Ball Screw Sliding Table Electric Cylinder

Small GY5



Body width: 54 mm
Maximum travel: 600 mm
Max. load: 30 kg

Medium GY8



Body width: 82 mm
Maximum travel: 800 mm
Max. load: 50 kg

Specifications Index

Embedded Lead Screw-Driven Electric Cylinder

Working Environment	Transmission Mode	Specification	Motor Power	Body Width	Repeatability	Lead Screw Specification		Max. Load Capacity	
						Outer Diameter	Lead	Horizontal Axis	Vertical Axis
General environment	Ball screw	GY5	100 W	54	± 0.01	12	2	30	10
							5	30	10
							10	15	5
							20	10	2.5
		GY8	200 W	82	± 0.01	16	5	50	15
							10	30	8
							20	12	2.5

Specification	Max. Speed ¹	Standard Travel and Max. Operating Speed																		
		50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
GY5	100	100																		
	250	250																		
	500	500																		
	1,000	1,000																		
GY8	250	250																		
	500	500																		
	1,000	1,000																		

 Speed

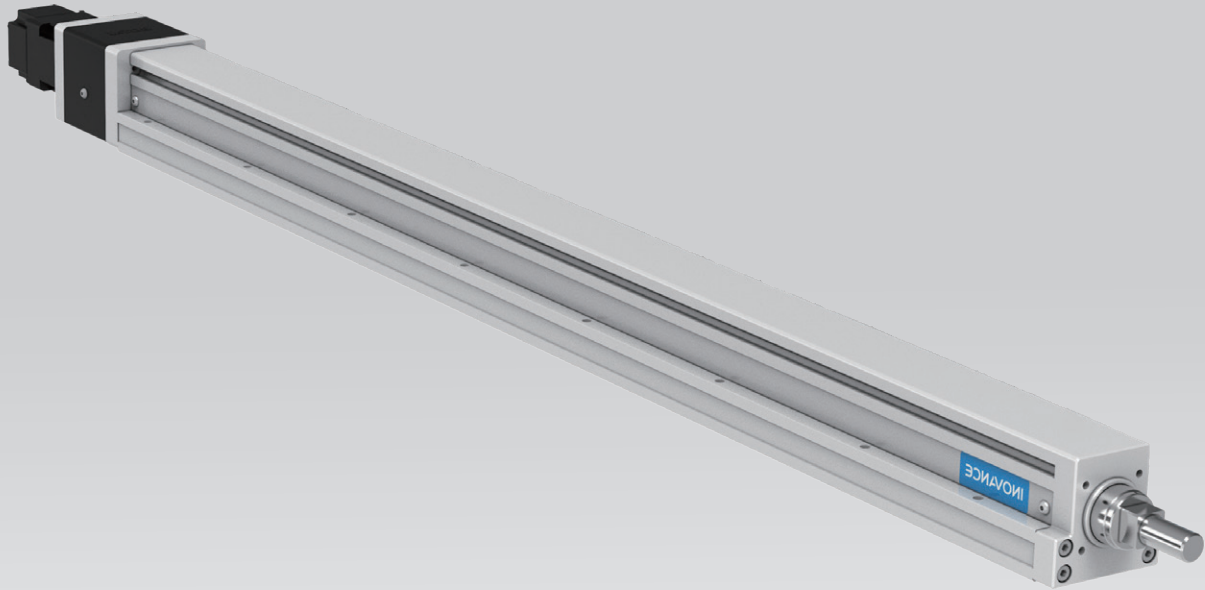
Note 1: The maximum speed (mm/s) is set based on the rated speed of 3,000 rpm of the servo motor.

Note 2: Black numbers in the standard travel columns indicate the maximum safe speeds for corresponding travels. Exceeding the maximum speeds may cause severe resonance in the sliding table.

Note 3: Under the load conditions, an external auxiliary slide rail is required to bear radial loads.

GY 5

Track-Embedded Rod-Type Electric Cylinder



Max. travel	600 mm	Max. speed	1,000 mm/s
Motor power	100 W	Ball screw	ø12 mm

Model Description

G Y 5 - 10 S 100 - N 3 - 10 B - VP - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

① Series number G	⑤ Motor position S: Direct connected D: Connected down L: Connected on the left R: Connected on the right	⑧ Sensor quantity N: No sensor 1: 1 2: 2 3: 3
② Cylinder type Y: Lead Screw-Driven Electric Cylinder		⑨ Motor power 10: 100 W
③ Width 5: 54 mm	⑥ Travel 50 mm to 600 mm Interval of 50 mm	⑩ Brake None: No brake B: Brake
④ Lead 2: 2 mm 5: 5 mm 10: 10 mm 20: 20 mm		⑪ Drive type VP: Standard SV660P drive VN: Standard SV660N drive
	⑦ Sensor type N: NPN sensor P: PNP sensor	⑫ Customization

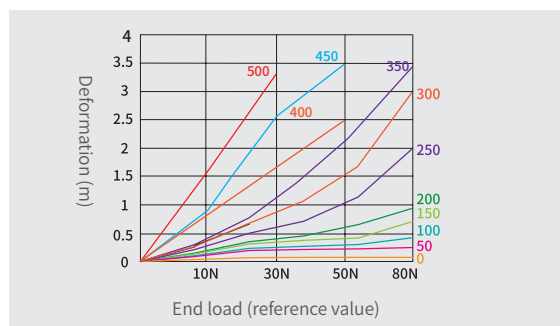
Basic Parameters

Item		Specification			
Repeatability (mm)		± 0.01			
Screw Lead (mm)		2	5	10	20
Max. Speed (mm/s)		100	250	500	1,000
Max. Load Capacity	Horizontal Axis (kg) ^(Note 1)	30	30	15	10
	Vertical Axis (kg)	10	10	5	2.5
Rated Force (N)		845	341	170	85
Standard Travel (mm)		50 mm to 600 mm, with an interval of 50 mm			
Power of AC Servo Motor (W)		100			
Ball Screw Outer Diameter (mm)		C7 $\Phi 12$			
Coupling (mm)		7 x 8			
Origin Sensor	External	SGY-NH(NPN)/SGY-PH(PNP)			

Note: The motor acceleration/deceleration is set to 0.2s.

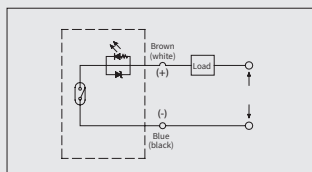
Note 1: Under the load conditions, an external auxiliary slide rail is required to bear radial loads.

Output Shaft Deformation

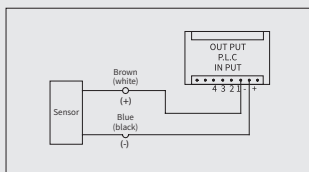


Sensor Connection Diagram (Home and Extreme Point)

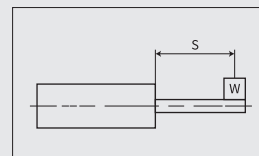
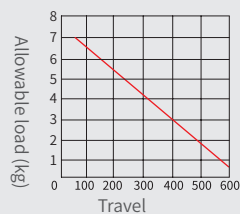
General load, such as the relay or other resistive loads



Programmable controller connection diagram

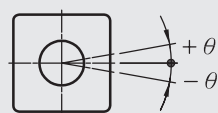


Allowed Installation Load



No external auxiliary mechanism is installed and the load extension distance is 0.

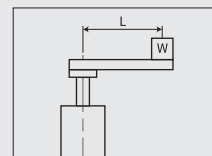
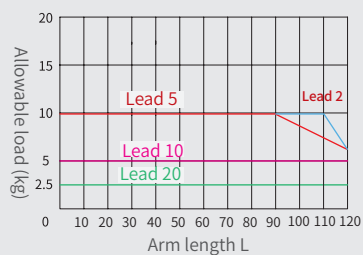
Anti-Backlash Precision of Pushing Rod



The internal slide rail deforms, increasing the actuating resistance.

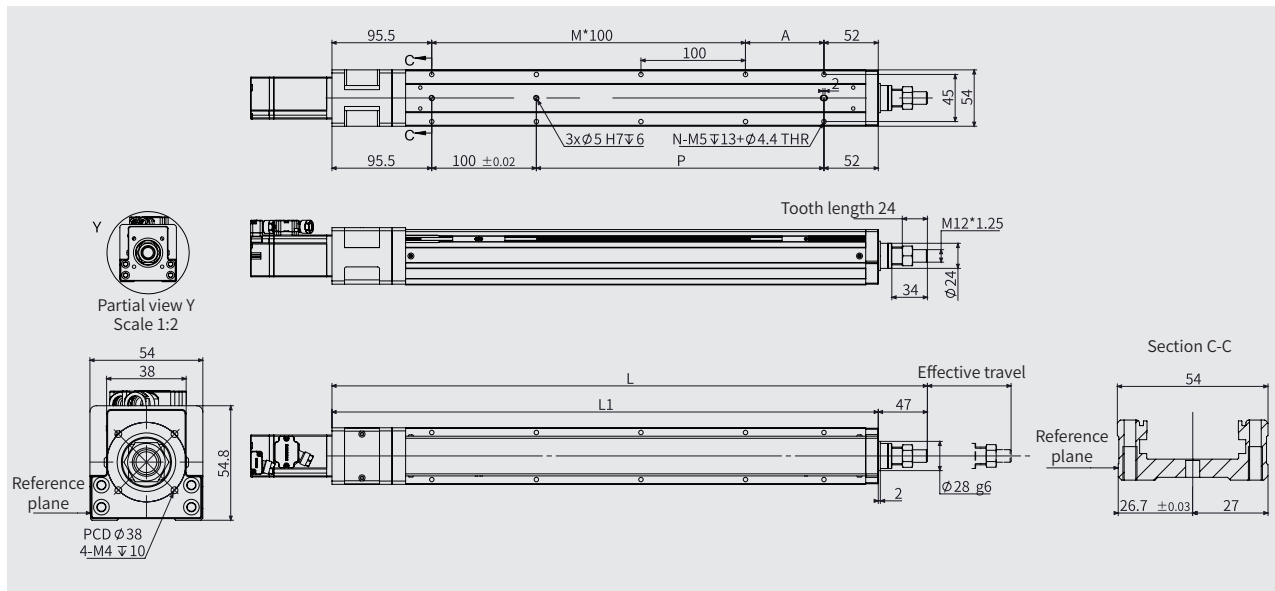
Anti-backlash precision θ
 $\pm 0^\circ$

Vertical Mounting Load

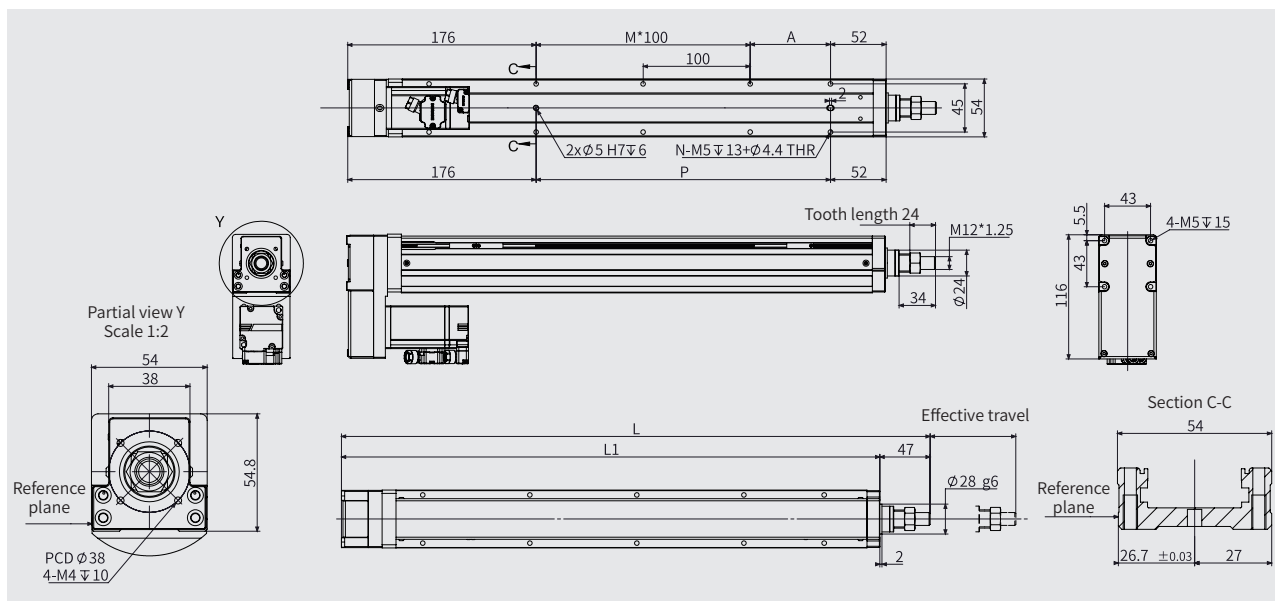


Travel

S	Motor Direct Connected											
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600
L	319.5	369.5	419.5	469.5	519.5	569.5	619.5	669.5	719.5	769.5	819.5	869.5
L1	272.5	322.5	372.5	422.5	472.5	522.5	572.5	622.5	672.5	722.5	772.5	822.5
A	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6
N	6	6	8	8	10	10	12	12	14	14	16	16
P	25	75	125	175	225	275	325	375	425	475	525	575
KG	2.17	2.36	2.56	2.76	2.96	3.15	3.35	3.54	3.74	3.94	4.13	4.33



D	Motor Connected Down											
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600
L	300	350	400	450	500	550	600	650	700	750	800	850
L1	253	303	353	403	453	503	553	603	653	703	753	803
A	25	75	25	75	25	75	25	75	25	75	25	75
M	0	0	1	1	2	2	3	3	4	4	5	5
N	4	4	6	6	8	8	10	10	12	12	14	14
P	25	75	125	175	225	275	325	375	425	475	525	575
KG	2.34	2.53	2.73	2.93	3.12	3.32	3.52	3.71	3.91	4.11	4.3	4.5



LS Series

LSC Series

GS Series

LEB Series

LB Series

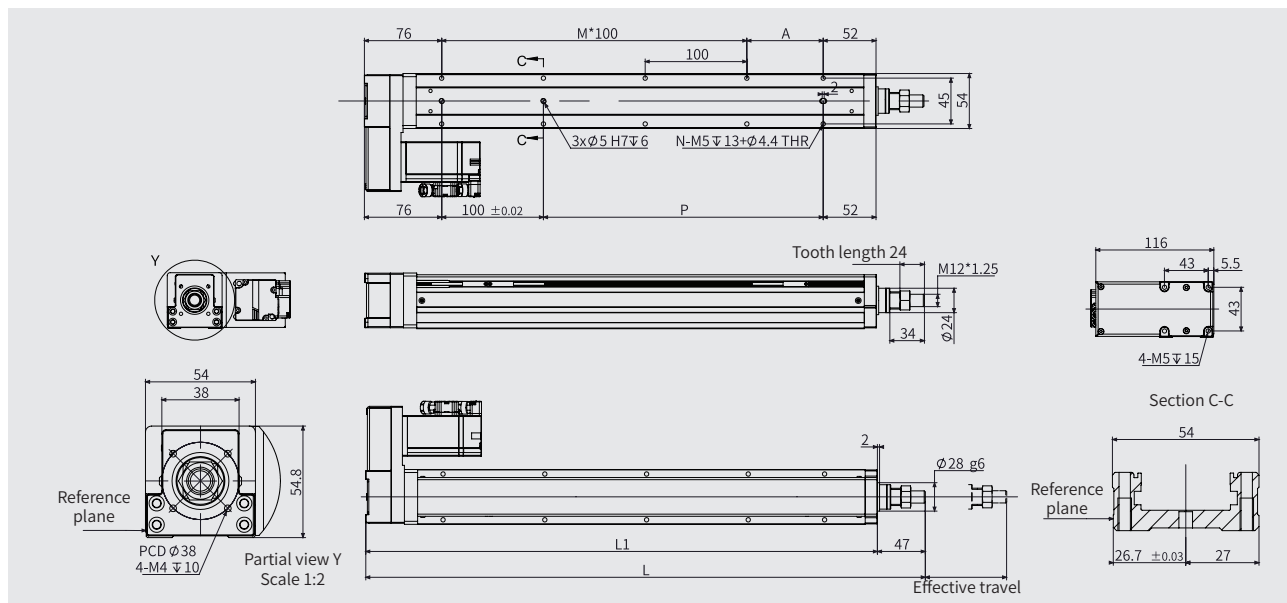
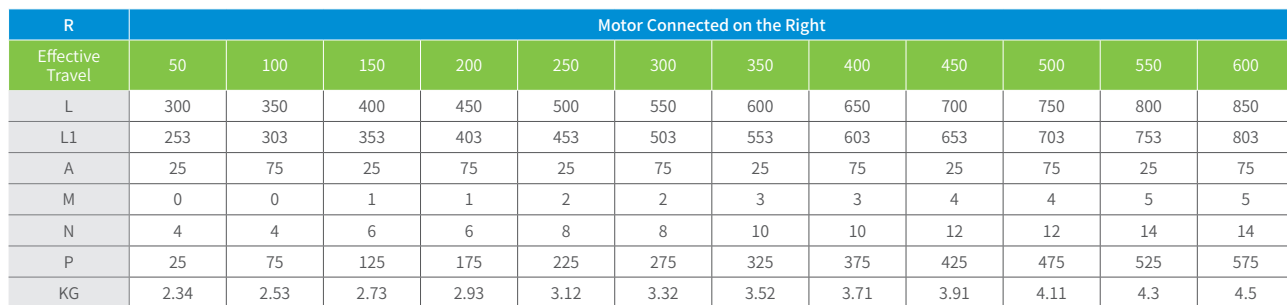
LBC Series

KS Series

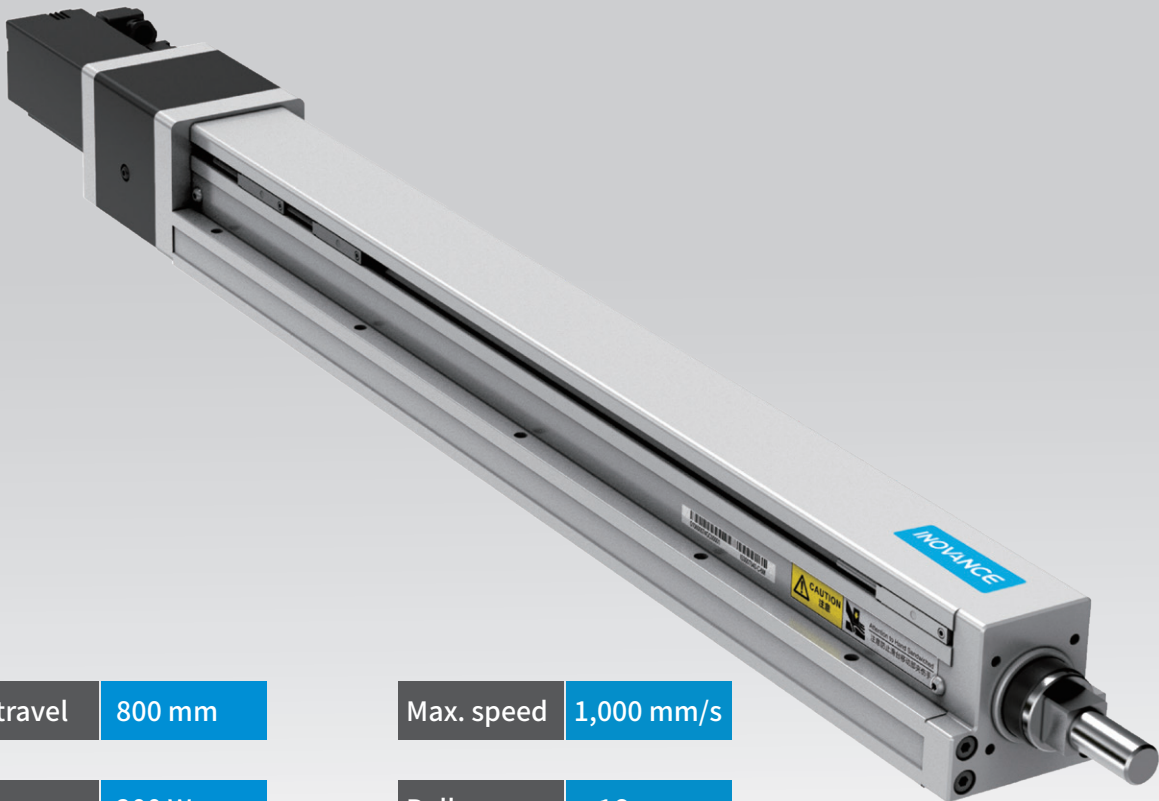
LY Series

GV Series

L	Motor Connected on the Left											
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600
L	300	350	400	450	500	550	600	650	700	750	800	850
L1	253	303	353	403	453	503	553	603	653	703	753	803
A	25	75	25	75	25	75	25	75	25	75	25	75
M	0	0	1	1	2	2	3	3	4	4	5	5
N	4	4	6	6	8	8	10	10	12	12	14	14
P	25	75	125	175	225	275	325	375	425	475	525	575
KG	2.34	2.53	2.73	2.93	3.12	3.32	3.52	3.71	3.91	4.11	4.3	4.5



GY 8 Track-Embedded Rod-Type Electric Cylinder



Max. travel 800 mm

Max. speed 1,000 mm/s

Motor power 200 W

Ball screw $\varnothing 16$ mm

Model Description

G Y 8 - 10 S 100 - N 3 - 40 B - VP - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

① Series number Y	⑤ Motor position S: Direct connected D: Connected down L: Connected on the left R: Connected on the right	⑧ Sensor quantity None: No sensor 1: 1 2: 2 3: 3
② Cylinder type Y: Lead Screw-Driven Electric Cylinder		
③ Width 8: 84 mm	⑥ Travel 50 mm to 800 mm Interval of 50 mm	⑨ Motor power 40: 400 W
		⑩ Brake None: No brake B: Brake
④ Lead 5: 5 mm 10: 10 mm 20: 20 mm	⑦ Sensor type N: No sensor N: NPN sensor P: PNP sensor	⑪ Drive type VP: Standard SV660P drive VN: Standard SV660N drive
		⑫ Customization

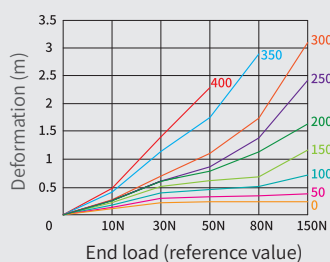
Basic Parameters

Item		Specification		
Repeatability (mm)		± 0.01		
Screw Lead (mm)		5	10	20
Max. Speed (mm/s)		250	500	1,000
Max. Load Capacity	Horizontal Axis (kg) ^(Note 1)	50	30	12
	Vertical Axis (kg)	15	8	2.5
Rated Force (N)		683	341	174
Standard Travel (mm)		50 mm to 800 mm, with an interval of 50 mm		
Power of AC Servo Motor (W)		200		
Ball Screw Outer Diameter (mm)		C7Φ16		
Coupling (mm)		10 x 14		
Origin Sensor	External	SGY-NH(NPN)/SGY-PH(PNP)		

Note: When the travel exceeds 750, the lead screw may deflect and vibrate. In this case, reduce the speed. The motor acceleration/deceleration is set to 0.2s.

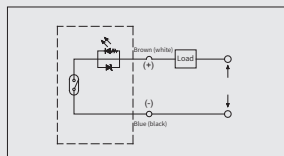
Note 1: Under the load conditions, an external auxiliary slide rail is required to bear radial loads.

Output Shaft Deformation

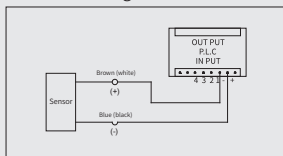


Sensor Connection Diagram (Home and Extreme Point)

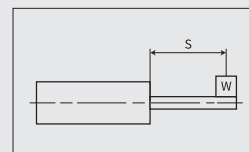
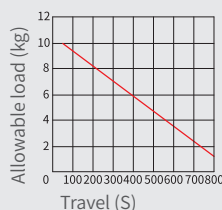
General load, such as the relay or other resistive loads



Programmable controller connection diagram

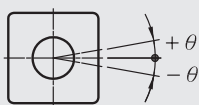


Allowed Installation Load



No external auxiliary mechanism is installed

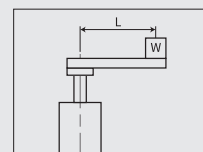
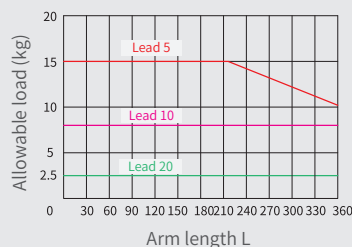
Anti-Backlash Precision of Pushing Rod



The internal slide rail deforms, increasing the actuating resistance.

Anti-backlash precision θ
$\pm 0^\circ$

Vertical Mounting Load



Travel

LS Series

LSC Series

GS Series

LEB Series

LB Series

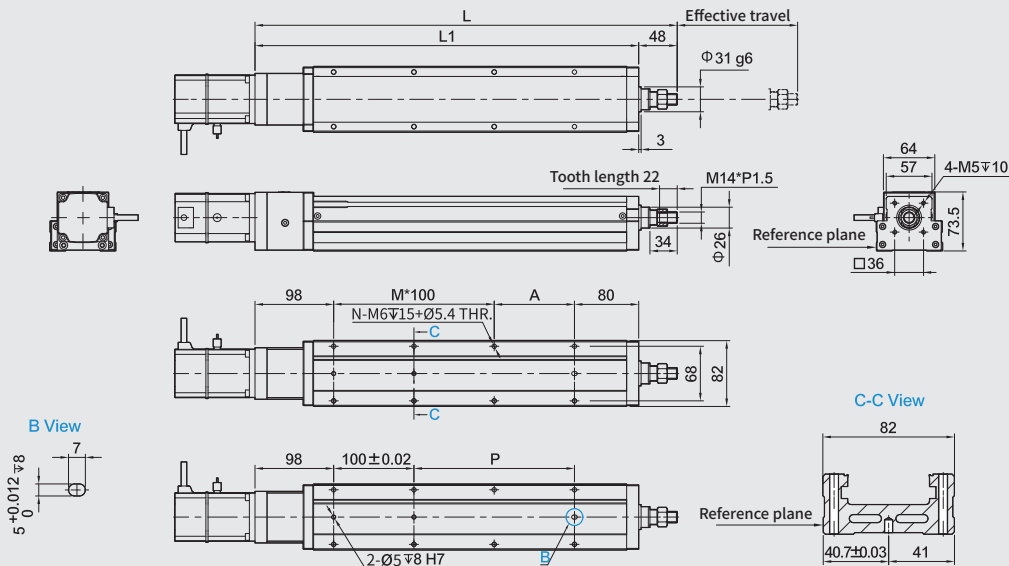
LBC Series

KS Series

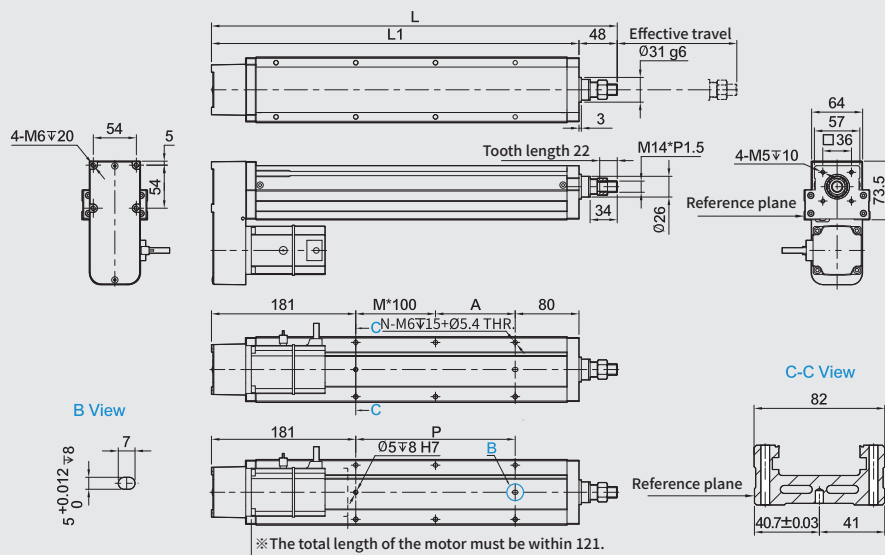
LY Series

GV Series

S	Motor Direct Connected															
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	376	426	476	526	576	626	676	726	776	826	876	926	976	1,026	1,076	1,126
L1	328	378	428	478	528	578	628	678	728	778	828	878	928	978	1,028	1,078
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
KG	5.08	5.44	5.81	6.17	6.54	6.9	7.27	7.63	8	8.36	8.73	9.09	9.46	9.82	10.19	10.55



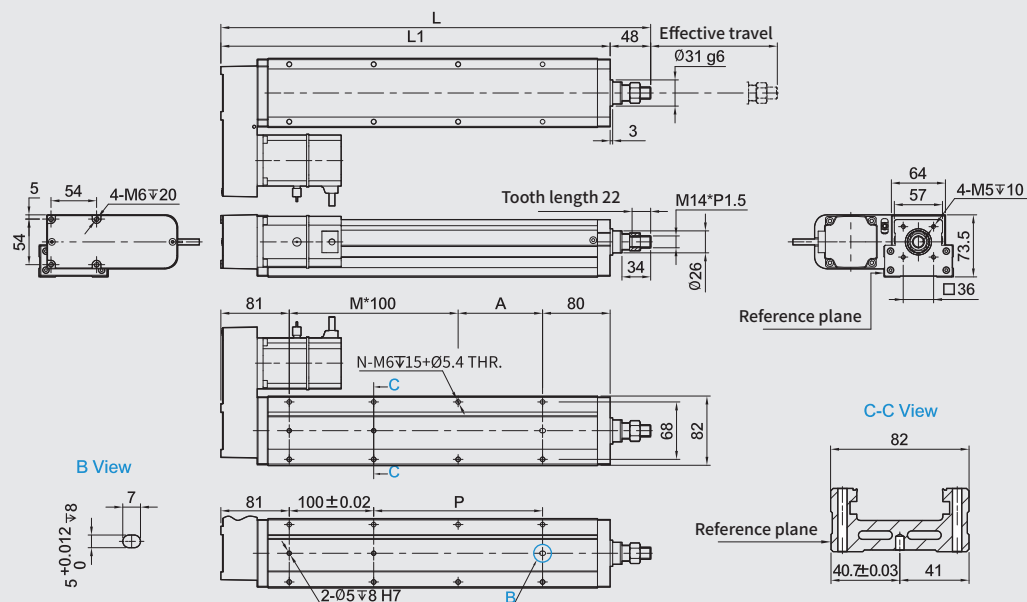
D	Motor Connected Down															
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	359	409	459	509	559	609	659	709	759	809	859	909	959	1,009	1,059	1,109
L1	311	361	411	461	511	561	611	661	711	761	811	861	911	961	1,011	1,061
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7
N	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
KG	5.82	6.17	6.53	6.88	7.24	7.59	7.95	8.03	8.66	9.01	9.37	9.72	10.08	10.43	10.79	11.14



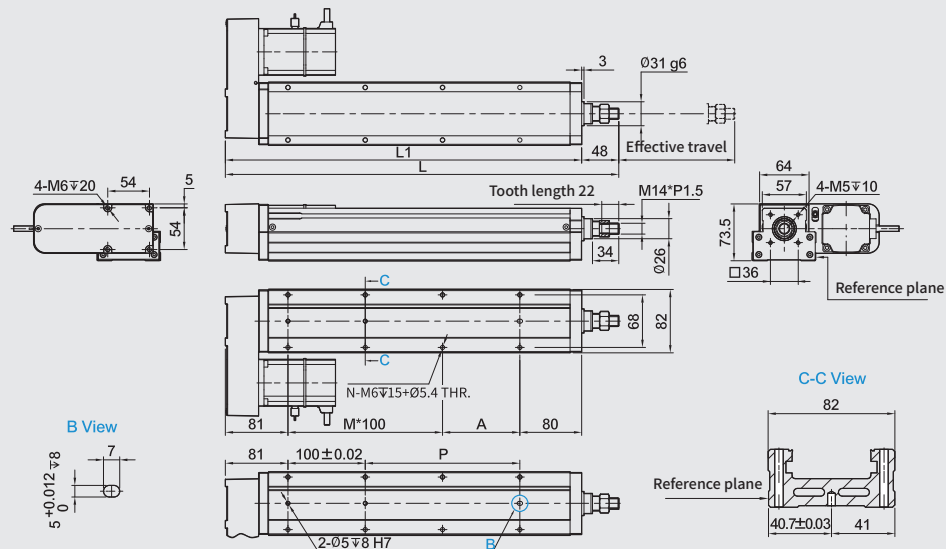
※ When the motor is connected downward and a motor with brake is selected or the total length of the motor exceeds the limit, standard PIN holes cannot be used. If needed, contact our business personnel.

Travel

L	Motor Connected on the Left															
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	359	409	459	509	559	609	659	709	759	809	859	909	959	1,009	1,059	1,109
L1	311	361	411	461	511	561	611	661	711	761	811	861	911	961	1,011	1,061
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
KG	5.82	6.17	6.53	6.88	7.24	7.59	7.95	8.03	8.66	9.01	9.37	9.72	10.08	10.43	10.79	11.14



R	Motor Connected on the Right															
Effective Travel	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	359	409	459	509	559	609	659	709	759	809	859	909	959	1,009	1,059	1,109
L1	311	361	411	461	511	561	611	661	711	761	811	861	911	961	1,011	1,061
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
KG	5.82	6.17	6.53	6.88	7.24	7.59	7.95	8.03	8.66	9.01	9.37	9.72	10.08	10.43	10.79	11.14



Motor Model Naming Rules

MS1 H1 - 75B 30C B A3 3 1 R - *

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

① MS1 series servo motor	② Inertia and capacity H1: Low inertia, small capacity H2: Low inertia, medium capacity H3: Medium inertia, medium capacity H4: Medium inertia, small capacity	③ Rated power (W) Comprised of one letter and one digit B: x 10 C: x 100 For example: 75B: 750 W
④ Rated speed (rpm) Comprised of one letter and one digit B: x 10 C: x 100 For example: 30C: 3,000 rpm	⑤ Voltage class (V) B: 220 D: 380	⑥ Encoder type (Comprised of one letter and one digit) A6: 26-bit multi-turn absolute encoder S6: Functional safety type 26-bit multi-turn absolute encoder A3: 23-bit multi-turn absolute encoder T3: 18-bit multi-turn absolute encoder
⑦ Shaft connection method 3: Solid shaft, with key and threaded hole	⑧ Brake, reducer and oil seal ^[1] 0: No oil seal or brake 1: With oil seal but no brake 2: With brake but no oil seal 4: With oil seal and brake	⑨ Sub-series No. R: R version ⑩ Customized function Blank: Standard S: Flying leads type -**: Other non-standard function

[1] The standard configuration of the motor in flange size 40 does not include the oil seal. Motors of other models carry the oil seal as standard.

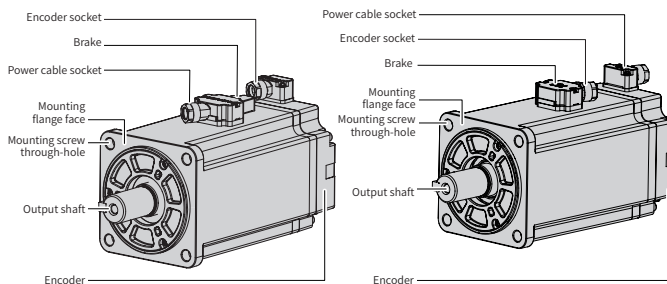
Motor Models

Motor Code	Description	Example
H	Inovance motor interface	H10: Inovance 100 W interface
EX	Explosion-proof motor	10-EX: 100 W explosion-proof motor
S6	Functional safety type	20-S6: 200 W functional safety type 26-bit motor
D	380 V	100B-D: 380 V 1,000 W motor with brake

Component Description

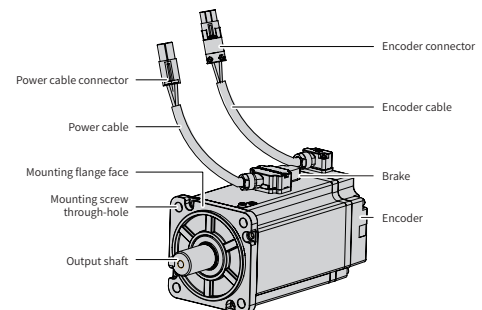
Motor (Frame size 40, 60, and 80)

• Terminal-type servo motor



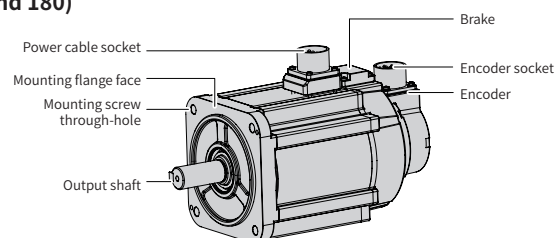
Components of terminal-type servo motor (left: cable front outlet; right: cable rear outlet)

• Cable-type servo motor



Components of cable-type servo motor

Motor (Frame size 100, 130, and 180)



Components of servo motor (frame size 100, 130, and 180)

Naming Rules of Servo Drives

SV660 P S 5R5 I - **

① ② ③ ④ ⑤ ⑥

① Series number Servo drive	③ Voltage class S: 220 V T: 380 V	⑤ Installation mode I: Baseplate-mounted
② Product type P: Pulse type A: CANlink bus C: CANopen bus B: EtherCAT bus	④ Rated output current 1R6: 1.6 A ... 021: 21 A 026: 26 A	⑥ Customized specification Blank: Standard -FH: High protection model -FS: STO functional safety

Models of Drives

Drive Code	Description	Drive Code	Description
VN	SV660N drive	VP	SV660P drive
VN-FS	SV660N drive (STO function)	VP3	SV630P drive
VN3	SV630N drive	VP-FS	SV660P drive (STO function)
VN8	SV680N drive	F	IS620F series drive
V/f	SV660F drive	FRT	IS620F-RT series drive
VF-FS	SV660F drive (STO function)		

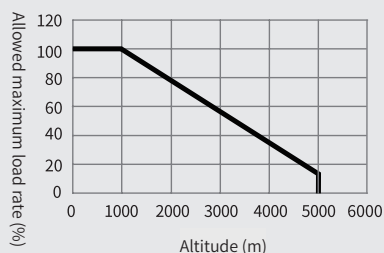
Electrical Specifications of Servo Drive

Structure Dimensions	Size-A	Size-B	Size-C
Drive model SV660N	SIR6	S2R8	S5R5
Continuous output current (A)	1.6	2.8	5.5
Maximum output current (A)	5.8	10.1	16.9
Main circuit power supply	Single-phase, 200 VAC to 240 VAC, -10% to +10%, 50 Hz/60 Hz		Single-phase/Three-phase, 200 VAC to 240 VAC, -10% to +10%, 50 Hz/60 Hz
Control circuit power supply	Powered up by the bus, sharing the same power supply and rectification part with the main circuit		Single-phase, 220 VAC to 240 VAC, -10% to +10%, 50 Hz/60 Hz
Braking resistor	External braking resistor		Built-in braking resistor

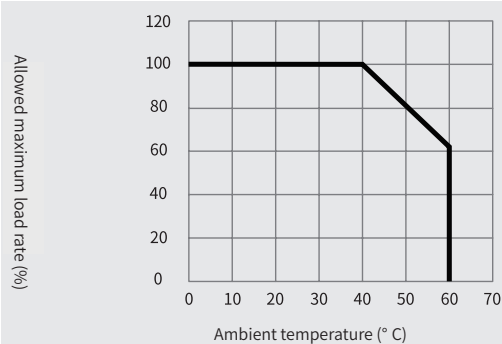
Flexible Cables for MS1 Terminal-type (Z) Motors with Front Cable Outlet

Cable Type	Cable Length (m)		
	3.0	5.0	10.0
Power cable (without brake)	S6-L-M107-3.0-T	S6-L-M107-5.0-T	S6-L-M107-10.0-T
Power cable (with brake)	S6-L-B107-3.0-T	S6-L-B107-5.0-T	S6-L-B107-10.0-T
Absolute encoder cable	S6-L-P124-3.0-T	S6-L-P124-5.0-T	S6-L-P124-10.0-T

Altitude-based Derating Curve

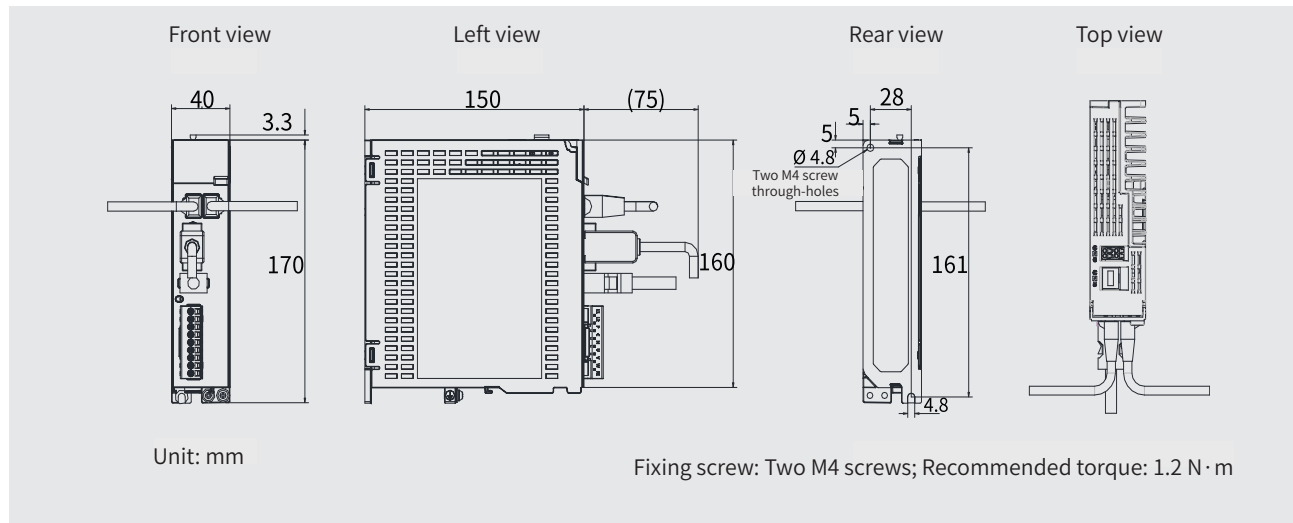


High Temperature-based Derating Curve

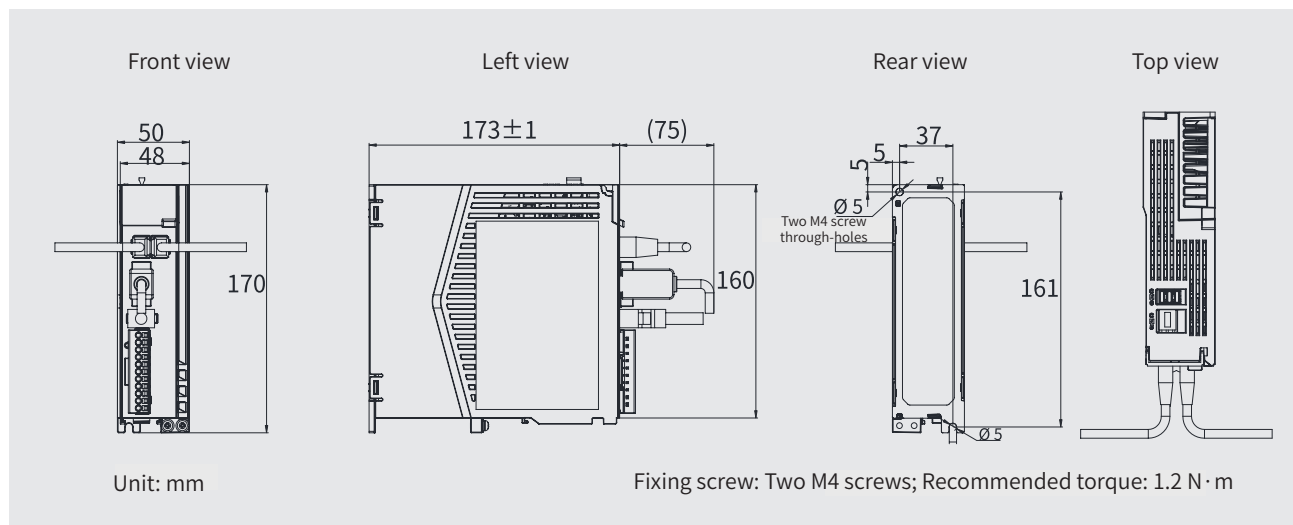


Outline Dimensions of SV660N Drive

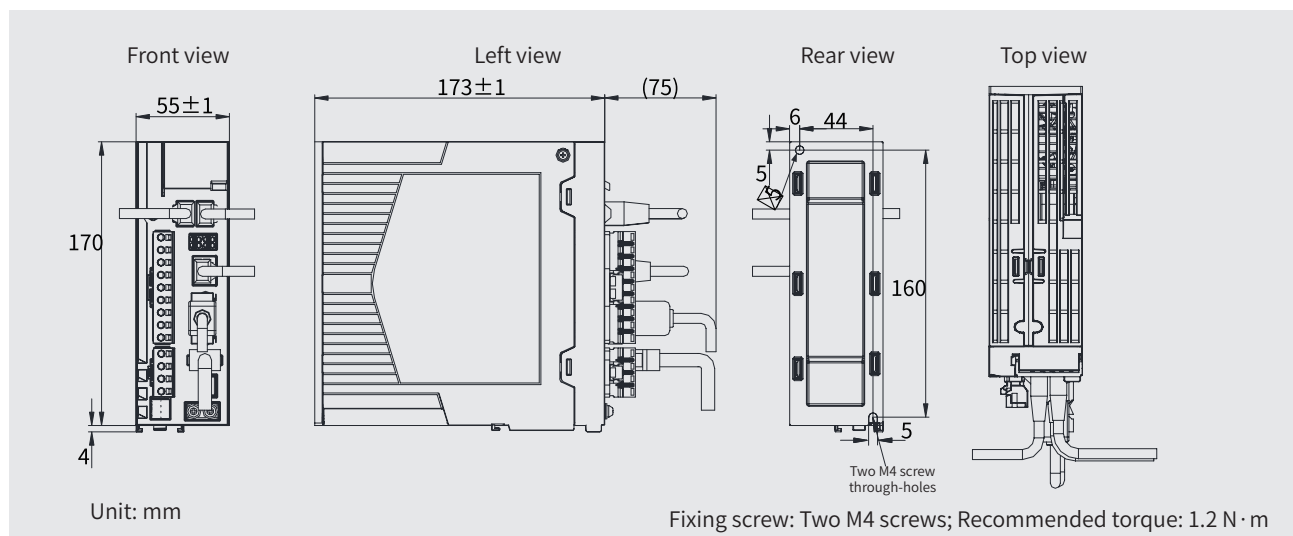
Size A



Size B

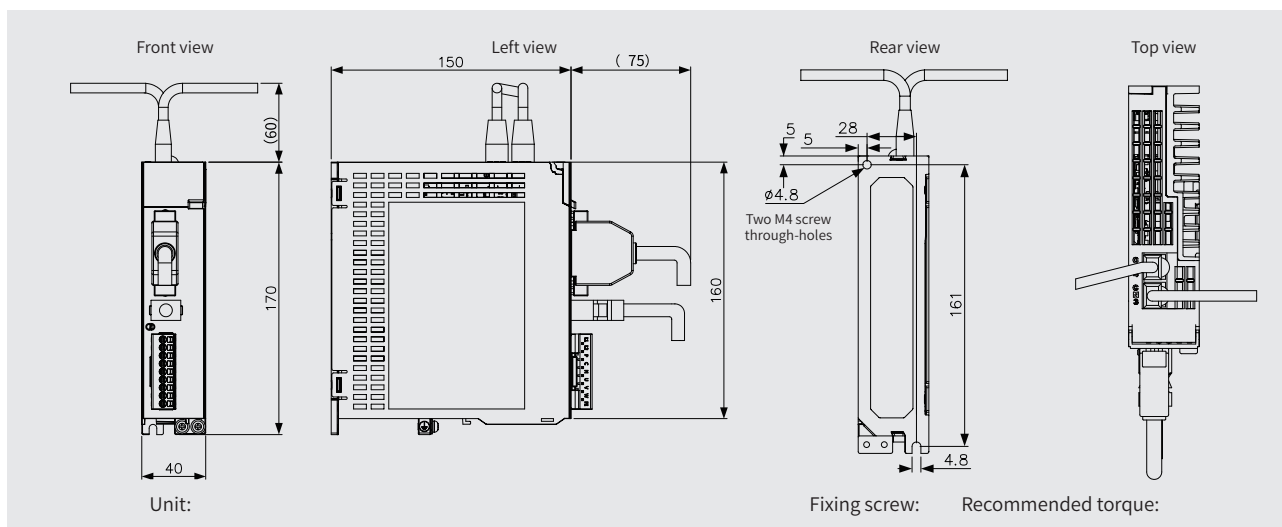


Size C

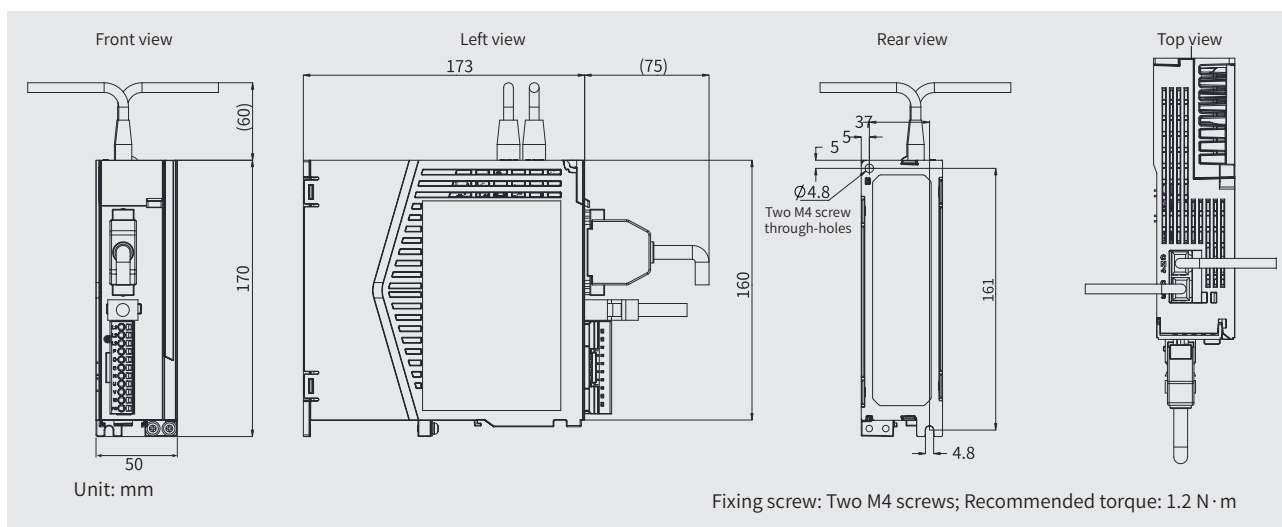


Outline Dimensions of SV660P/A/C Drive

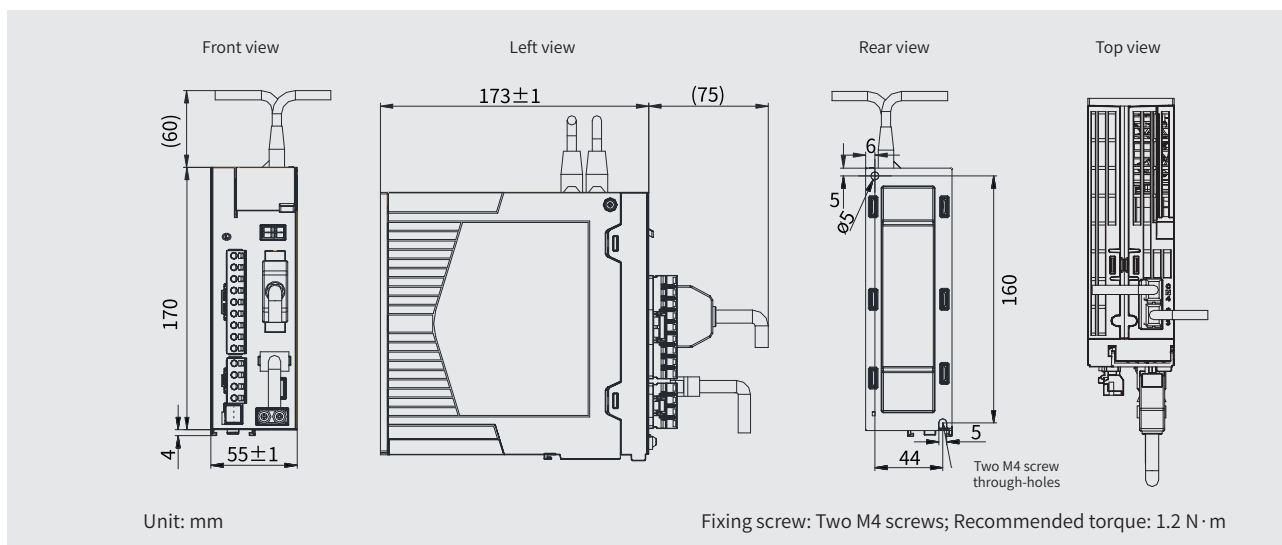
Size A

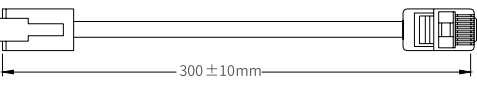
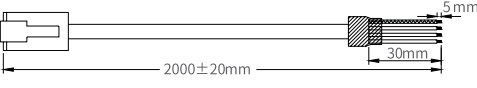
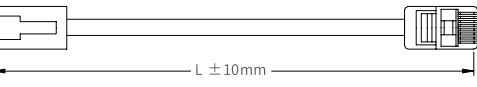
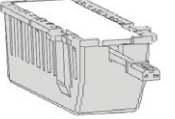
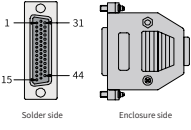
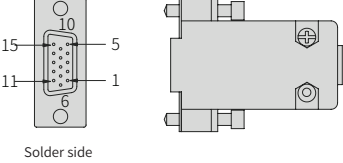


Size B



Size C



Cable Name	Cable Model	Cable Length L (mm)	Drawing
SV660P/SV660N Servo drive-to-PC communication cable	S6-L-T00-3.0	3,000	
SV660P Multi-drive communication cable (CANlink and RS485)	S6-L-T01-0.3	300	
SV660P Servo drive to PLC communication cable (CANlink and RS485)	S6-L-T02-2.0	2,000	
SV660P Servo drive termination resistor (CANlink and RS485)	S6-L-T03-0.0	-	
SV660N Multi-drive communication cable	S6-L-T04-0.3	300	
SV660N Servo drive to host controller communication cable	S6-L-T04-3.0	3,000	
Battery kit	S6-C4	-	
SV660P CN1 terminal (DB44)	S6-C8	-	 Remarks: DB44 (MS1 motor is separately purchased.)
SV660N CN1 terminal (DB15)	S6-C6	-	 Solder side

[illegible]

