

Electric Actuator Controller Built-in LRX Series

LRXE-BS (Slider Type)

LRXG-STG (Guided Type)



A Brighter Way to Automation Electrification, Simplification



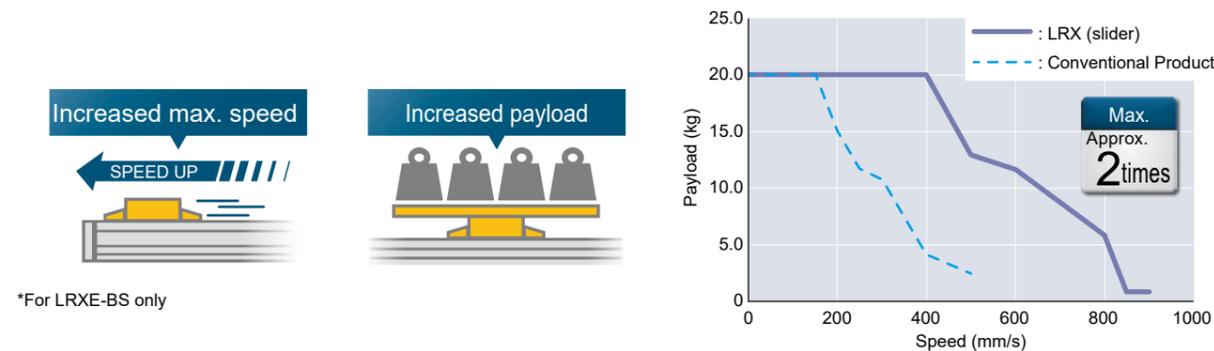
Built-in High-Output Controller

Improved Productivity and Space Savings



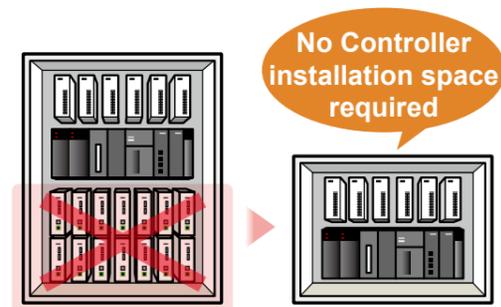
Contributes to Faster Cycle Times

Payload capacity, maximum speed, and acceleration/deceleration have been improved, contributing to shorter positioning times. The fundamental performance of the actuator has been significantly enhanced.



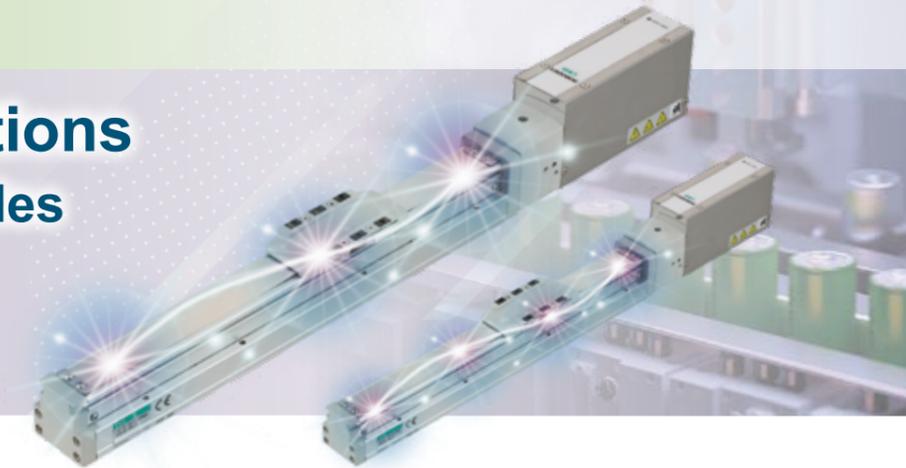
Achieves Control Panel Space Savings

The integration of the actuator and controller eliminates the need to install a controller inside the control panel, resulting in significant space savings.



Expanded Options

•3 operation modes

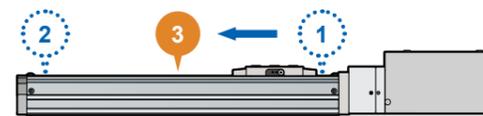


Achieves positioning at up to 4 points

Simple 3-Point Mode (Default Setting)

The actuator moves when the move command signal for the target point is turned ON. If turned OFF mid-move, it will decelerate to a stop.

Example: Moving to Point 3



Input	Number	Code	Name
	0	P1ST	Move to Point 1 Command
	1	P2ST	Move to Point 2 Command
	2	P3ST	Move to Point 3 Command
	3	ALMRST	Alarm Reset

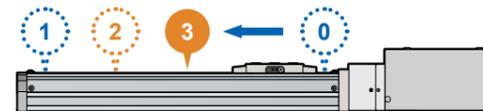
Input 2 is ON

4-Point Mode

After specifying the point number with the point selection bits, the actuator moves when the point move command signal is turned ON. If turned OFF mid-move, it will decelerate to a stop.

Example: Moving to Point 4

- Specify input numbers 0, 1.
- Turn ON point move command.

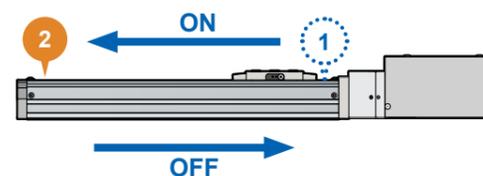


Input	Number	Code	Name
	0	PSB0	Point Selection Bit 0
	1	PSB1	Point Selection Bit 1
	2	PST	Point Move Command
	3	ALMRST	Alarm Reset

Input 0 is Specified, Input 2 is ON

Solenoid Valve Mode (Single)

Moves between two points by turning a single input signal OFF/ON.

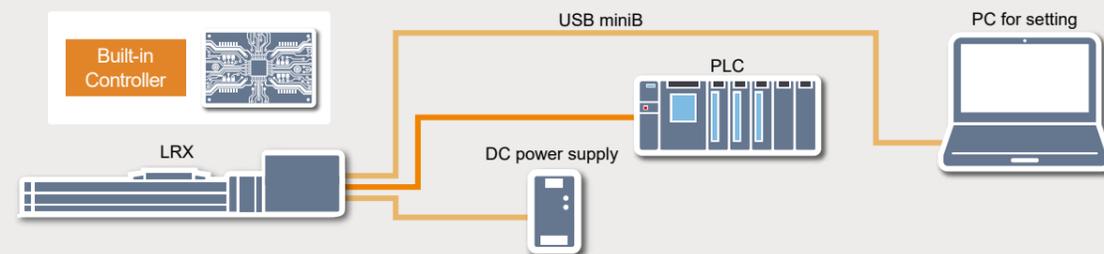


Input	Number	Code	Name
	0	-	-
	1	VST	Solenoid Valve Move Command
	2	-	-
	3	ALMRST	Alarm Reset

Input 1 is ON

System Configuration

- Easy setup with the common configuration tool S-Tools (free download from our website)
- Configuration PC can be connected via USB mini-B (to be provided by the customer)

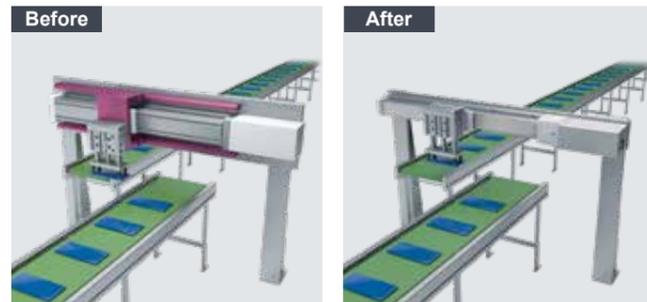
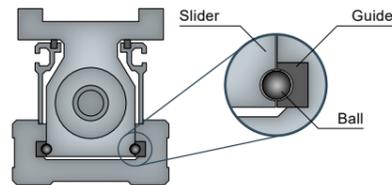


LRXE-BS (Slider Type)



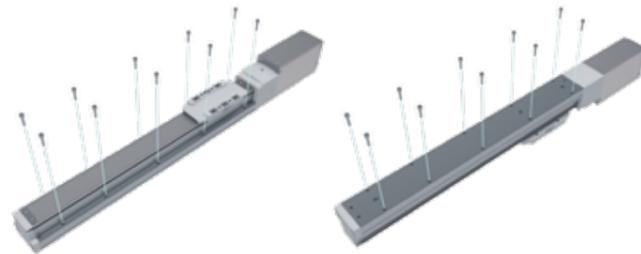
Compact, High-Rigidity Body

An outer rail system is used for the guide that supports the load, achieving both high rigidity and space savings simultaneously.



Mounting is possible from both top and bottom surfaces

The structure allows for direct installation from both the top and bottom surfaces without disassembling the product. Top-surface mounting, in particular, can significantly reduce work time.

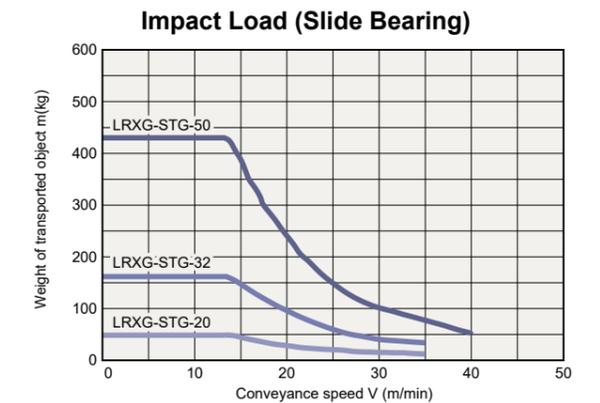


LRXG-STG (Guided Type)



Inherits the High Rigidity of Pneumatic Equipment

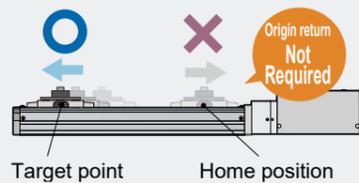
By using the same body as our pneumatic equipment, we have achieved a level of rigidity not found in conventional electric actuators.



Common Specifications

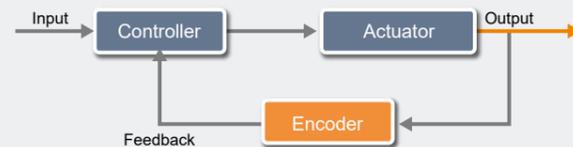
Battery-less Absolute Specification

Equipped with an absolute encoder that retains current position data. Being a battery-less design, it requires no battery replacement maintenance.



Closed-Loop Control

Closed-loop control enables precise operation by providing feedback on the current position and velocity.



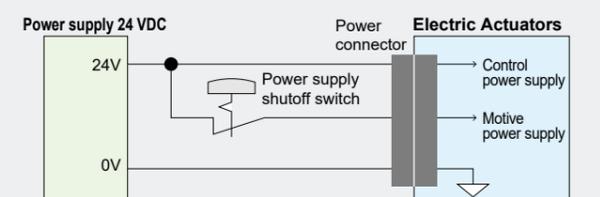
LED Indicates Operating Status

The operating status can be checked externally via the state of the LED.



Separate Main and Control Power Supplies

Separating the control and motor power supplies allows the motor power to be shut off independently.



Electric Actuator LRX Series



CONTENTS

Product Introduction	Opening Section	
■ Slider Type	LRXE-BS	3
■ Guided Type	LRXG-STG	43
■ Built-in Controller		57
▲ Precautions for Use		62
Model Selection Checklist		66

Controller Built-in
Electric Actuator

LRXE-BS

Slider Type



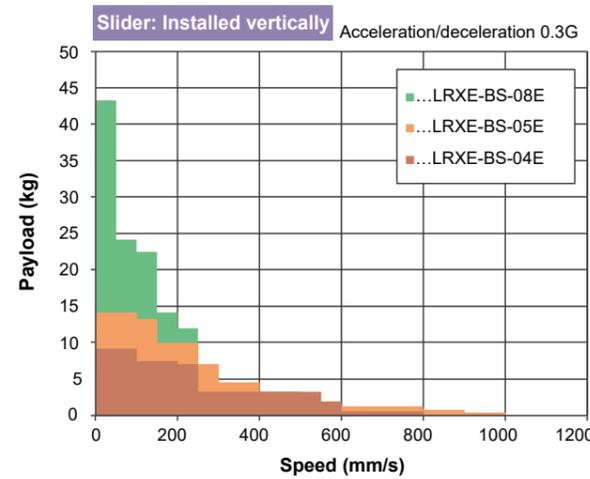
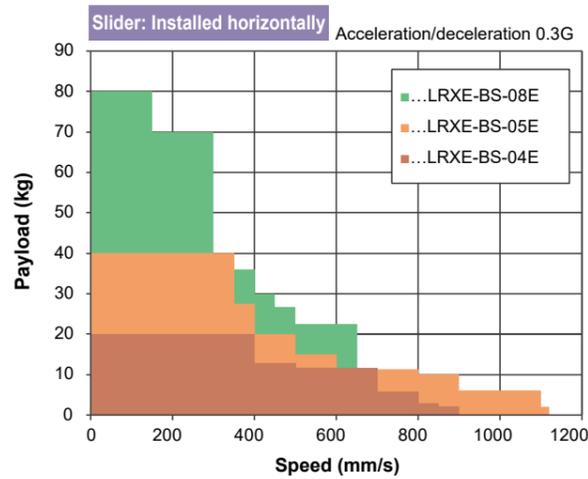
CONTENTS

Product Introduction	Opening Section
System Chart	4
● Specifications/Model No. Notation/Dimensions	
● LRXE-BS-04-□	6
● LRXE-BS-05-□	16
● LRXE-BS-08-□	26
● Model Selection	34
● Technical Data	36
⚠ Precautions for Use	62
Model Selection Checklist	66

System Chart

Actuator Model No.	Motor Size	Motor Mounting Direction	Body Width (mm)	Screw Lead (mm)	Max. Payload (kg)		Max. Pressing Force (N)	Stroke (mm) and maximum speed (mm/s)																			Published page			
					Horizontal	Vertical		50 mm	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800							
					450mm/s																									
	□35	Inline	44	6	20.0	9.2	155	450mm/s																			6			
					Reverse Parallel	12		15.0	3.3	77	900																			
						6		20.0	9.2		155	375																		
					12	15.0		3.3	77	500																				
	□42	Inline	54	5	40.0	14.2	220	375																			16			
				Reverse Parallel	10	27.5		7.1	110	750																				
					20	18.3		2.5		55	1120																			
		Reverse Parallel	5	40.0	10.0	220	325																			22				
			10	27.5	3.3		110	635																						
			20	18.3	0.8			55	1120																					
	□56	Inline	82	5	80.0	43.3	965		230																			26		
				Reverse Parallel	10	70.0		28.3	482	430																				
					20	30.0		3.3		241	650																			
		Reverse Parallel	5	80.0	33.3	965	200																			30				
			10	70.0	21.7		482	430																						
			20	30.0	3.3			241	650																					

* This data is for an acceleration of 0.3 G.
* For wall-mounted installations, the payload capacity is the same as for horizontal installations.





Electric Actuator Slider Type LRXE-BS-04E

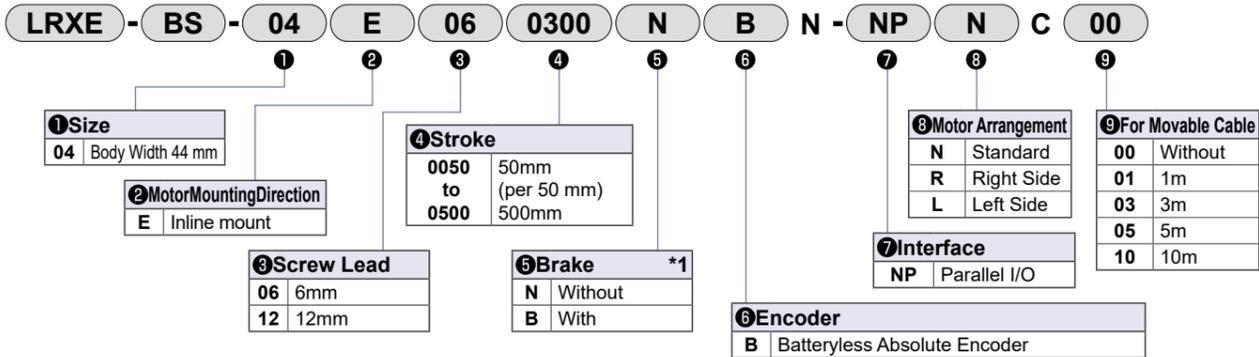
Motor Inline Mount Type
□35 Stepping Motor



LRXE-BS-04E

Specifications

Model No. Notation



*1 Select "With" for vertical use.

Specifications

Motor	□35 Stepping Motor	
Encoder Type	Batteryless Absolute Encoder	
Driving Method	Ball Screw ø10	
Controller	Built-in	
Stroke	mm 50 to 500	
Screw Lead	mm 6	12
Max. Payload (kg) *1	Horizontal 20.0	Vertical 15.0
	Horizontal 9.2	Vertical 3.3
Operating Speed Range *2 (mm/s)	7 to 450	15 to 900
Max. Acceleration/Deceleration (G)	Horizontal 1.0	Vertical 0.5
Max. Pressing Force	N 155	77
Pressing Operation Speed Range (mm/s)	5 to 20	
Repeatability (mm)	±0.01	
Lost Motion (mm)	0.1 or less	
Static Allowable Moment (N·m)	MP: 62 MY: 62 MR: 92	
Setting Tool	Setting Software (S-Tools) Connection Cable: USB Cable (mini-B)	
External Interface	Parallel I/O Spec.	24 VDC ±10% Max. 4 points each for I/O, Cable length Max. 10 m
Power Supply Voltage *3	24 VDC ±10%	
Current Consumption	Control A	0.12
	Motive A	4.0
Brake	Model, Power supply voltage *3	Non-Excitation-Actuated Type, 24 VDC ±10%
	Power Consumption (W)	6.1
	Holding Force (N)	140 70
Insulation Resistance	10 MΩ or more at 500 VDC	
Withstand Voltage	500 VAC for 1 minute	
Ambient Temperature and Humidity	10 to 40°C (with no freezing) 35 to 80%RH (with no condensation)	
Storage Ambient Temperature and Humidity	-10 to 50°C (with no freezing) 35 to 80%RH (with no condensation)	
Atmosphere	No corrosive gas, explosive gas, or dust	
Protection Structure	IP20	

*1 Payload capacity varies depending on acceleration/deceleration and speed. For details, please refer to P. 7.

*2 Maximum speed may decrease depending on conditions.

*3 If the cable length exceeds 5 m, the power supply voltage must be 24 VDC ±5%, the power supply voltage must be 24 VDC ±5%.

Stroke and Max. Speed

Screw Lead (mm)	Stroke (mm)	
	50 to 450	500
6	450	400
12	900	800

Speed and Payload

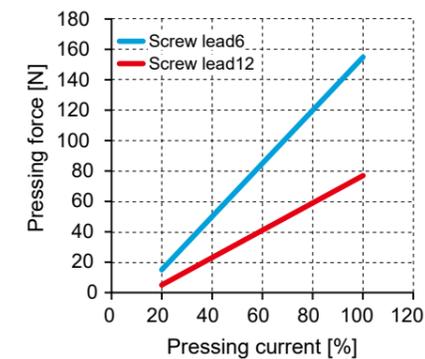
[For Horizontal Installation]

Speed (mm/s)	Screw Lead (mm)							
	6				12			
	Acceleration/Deceleration (G)							
	0.3	0.5	0.7	1.0	0.3	0.5	0.7	1.0
7	20.0	20.0	20.0	16.7				
15	20.0	20.0	20.0	16.7	15.0	15.0	14.2	5.4
100	20.0	20.0	20.0	16.7	15.0	15.0	14.2	5.4
150	20.0	20.0	18.3	15.0	15.0	10.0	8.3	5.4
200	20.0	20.0	15.0	14.2	15.0	10.0	8.3	5.4
300	20.0	20.0	15.0	12.1	15.0	10.0	8.3	5.4
350	20.0	20.0	13.3	12.1	15.0	10.0	8.3	5.4
400	20.0	20.0	13.3	9.2	15.0	10.0	8.3	5.4
450	11.7	11.7	11.7	8.3	12.9	10.0	8.3	5.4
500					12.9	10.0	8.3	5.4
600					11.7	9.2	7.5	5.4
700					11.7	8.3	5.8	5.4
800					5.8	5.8	5.8	2.5
850					2.9	2.5	2.5	1.7
900					2.1	1.7	1.7	0.8

[For Vertical Installation]

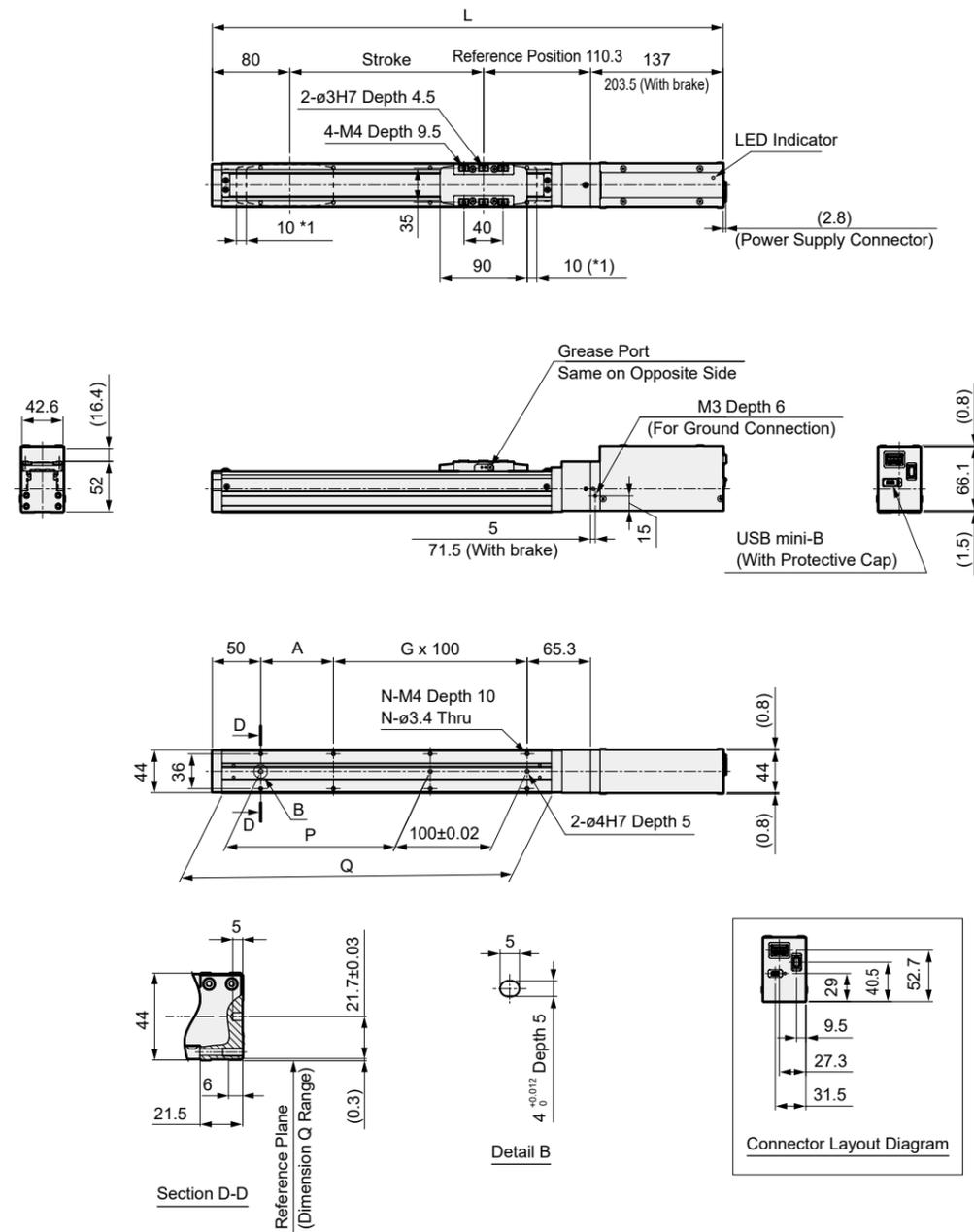
Speed (mm/s)	Screw Lead (mm)			
	6		12	
	Acceleration/Deceleration (G)			
	0.3	0.5	0.3	0.5
7	9.2	9.2		
15	9.2	9.2	3.3	3.3
200	7.5	7.5	3.3	3.3
250	7.1	5.8	3.3	3.3
300	5.4	4.2	3.3	3.3
350	2.5	1.7	3.3	3.3
400	1.7		3.3	3.3
500			3.3	3.3
600			2.0	2.0
800			0.8	0.8

Pressing Force



* The Pressing Force values above are for reference only. They may vary depending on conditions such as the pushing speed.

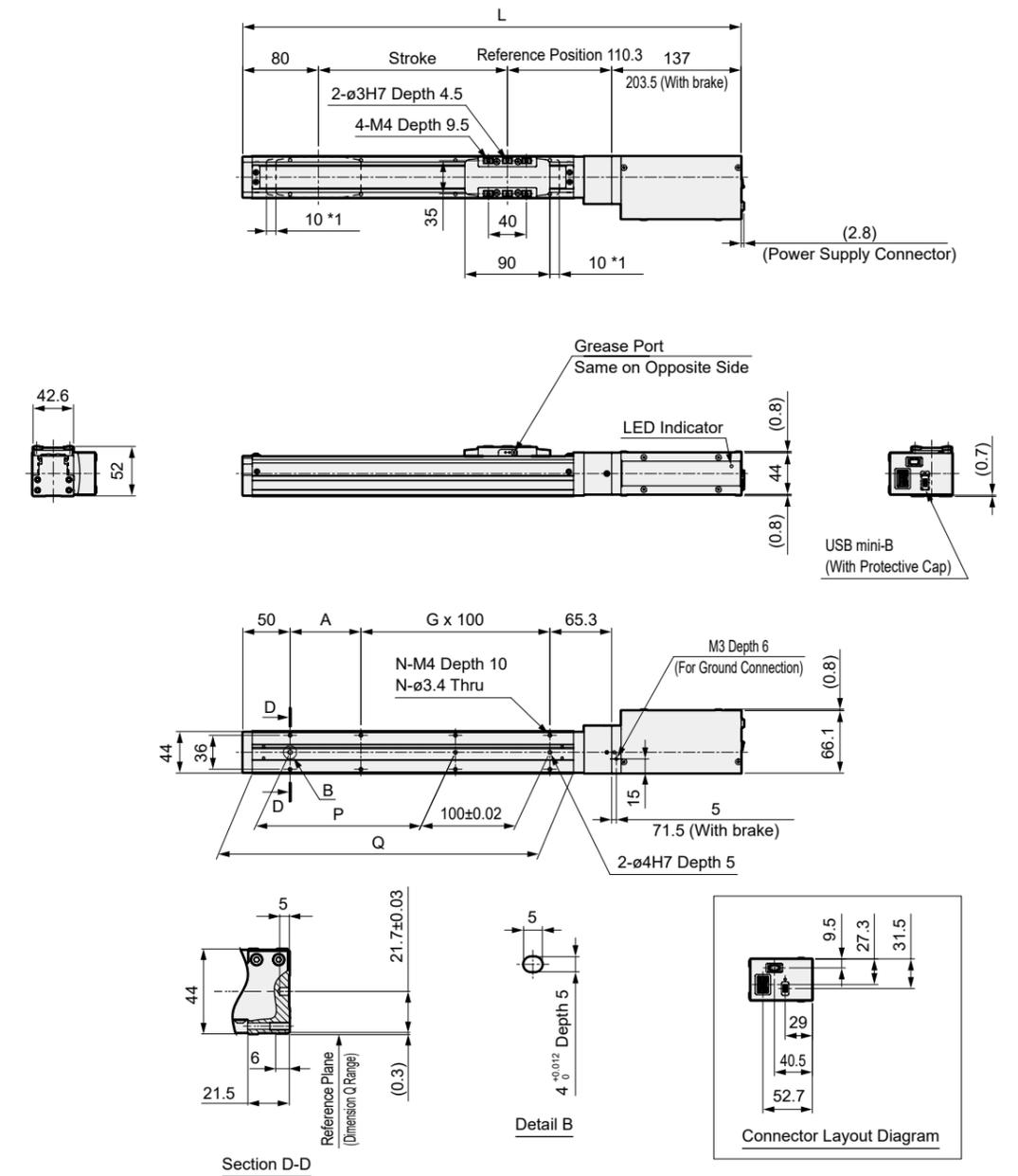
● LRXE-BS-04E-N



*1: Operating range to the mechanical stopper.

Stroke Code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500
Stroke (mm)	50	100	150	200	250	300	350	400	450	500
L	Without brake	377.3	427.3	477.3	527.3	577.3	627.3	677.3	727.3	827.3
	With brake	443.8	493.8	543.8	593.8	643.8	693.8	743.8	793.8	893.8
A	25	75	25	75	25	75	25	75	25	75
G	1	1	2	2	3	3	4	4	5	5
N	6	6	8	8	10	10	12	12	14	14
P	25	75	125	175	225	275	325	375	425	475
Q	190	240	290	340	390	440	490	540	590	640
Weight (kg)	Without brake	1.7	1.8	1.9	2.0	2.1	2.3	2.4	2.6	2.7
	With brake	2.1	2.2	2.3	2.4	2.6	2.7	2.8	2.9	3.0

● LRXE-BS-04E-R



*1: Operating range to the mechanical stopper.

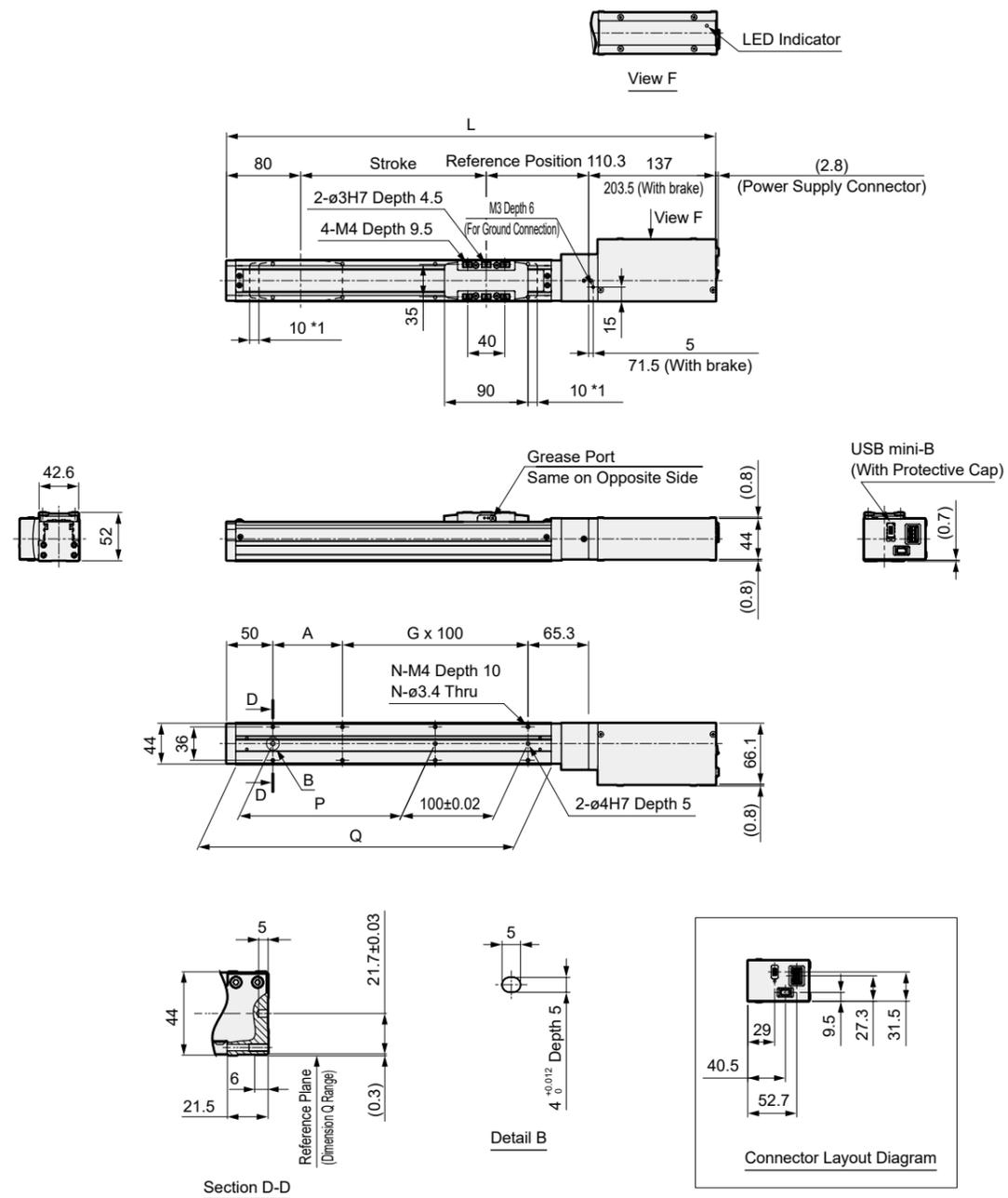
Stroke Code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500
Stroke (mm)	50	100	150	200	250	300	350	400	450	500
L	Without brake	377.3	427.3	477.3	527.3	577.3	627.3	677.3	727.3	827.3
	With brake	443.8	493.8	543.8	593.8	643.8	693.8	743.8	793.8	893.8
A	25	75	25	75	25	75	25	75	25	75
G	1	1	2	2	3	3	4	4	5	5
N	6	6	8	8	10	10	12	12	14	14
P	25	75	125	175	225	275	325	375	425	475
Q	190	240	290	340	390	440	490	540	590	640
Weight (kg)	Without brake	1.7	1.8	1.9	2.0	2.1	2.3	2.4	2.6	2.7
	With brake	2.1	2.2	2.3	2.4	2.6	2.7	2.8	2.9	3.0

LRXE-BS-04E

External Dimensions Drawing: Inline Motor / Left-Side Motor Arrangement

MEMO

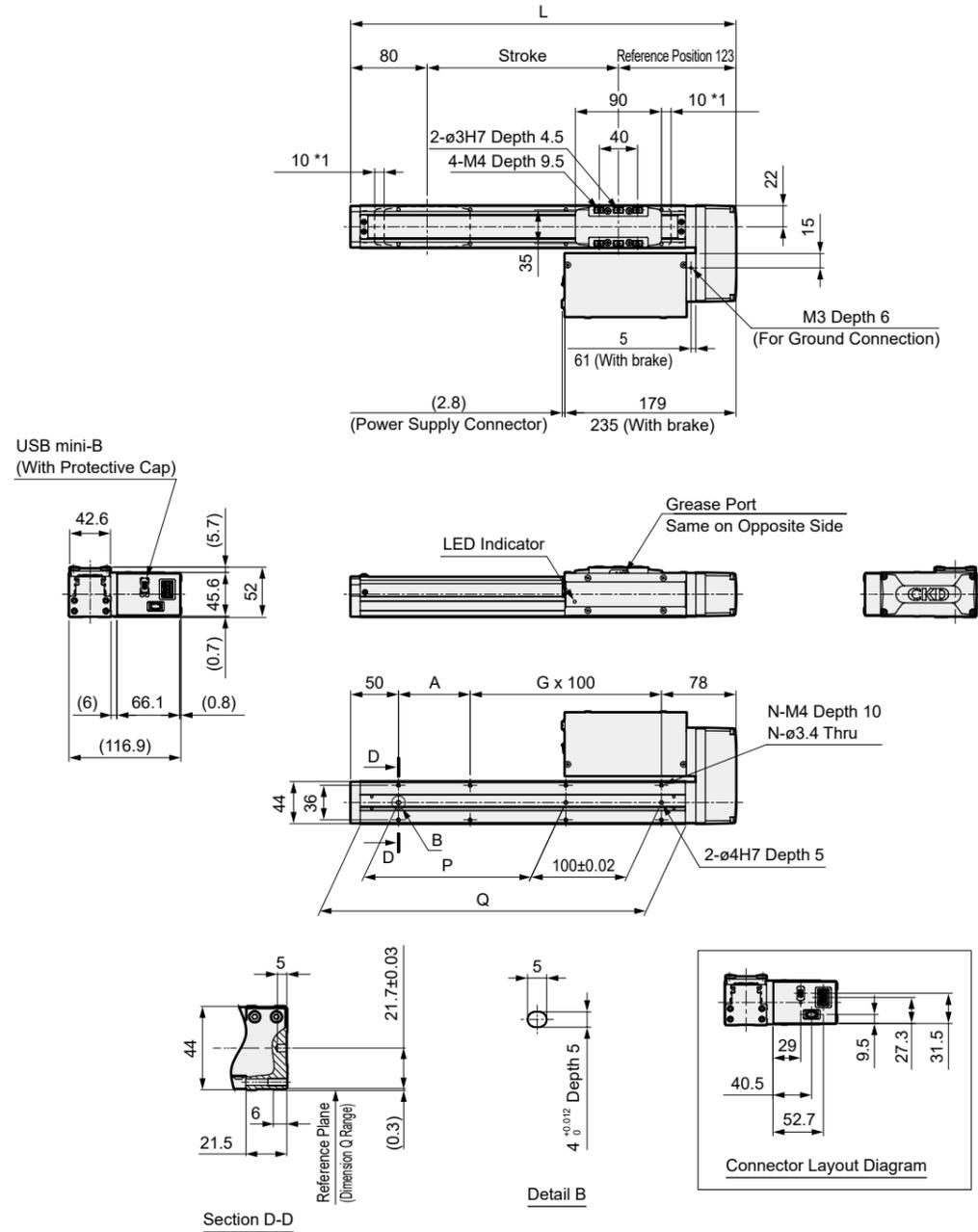
● LRXE-BS-04E-L



*1: Operating range to the mechanical stopper

Stroke Code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	
Stroke (mm)	50	100	150	200	250	300	350	400	450	500	
L	Without brake	377.3	427.3	477.3	527.3	577.3	627.3	677.3	727.3	777.3	827.3
	With brake	443.8	493.8	543.8	593.8	643.8	693.8	743.8	793.8	843.8	893.8
A	25	75	25	75	25	75	25	75	25	75	
G	1	1	2	2	3	3	4	4	5	5	
N	6	6	8	8	10	10	12	12	14	14	
P	25	75	125	175	225	275	325	375	425	475	
Q	190	240	290	340	390	440	490	540	590	640	
Weight (kg)	Without brake	1.7	1.8	1.9	2.0	2.1	2.3	2.4	2.5	2.6	2.7
	With brake	2.1	2.2	2.3	2.4	2.6	2.7	2.8	2.9	3.0	3.2

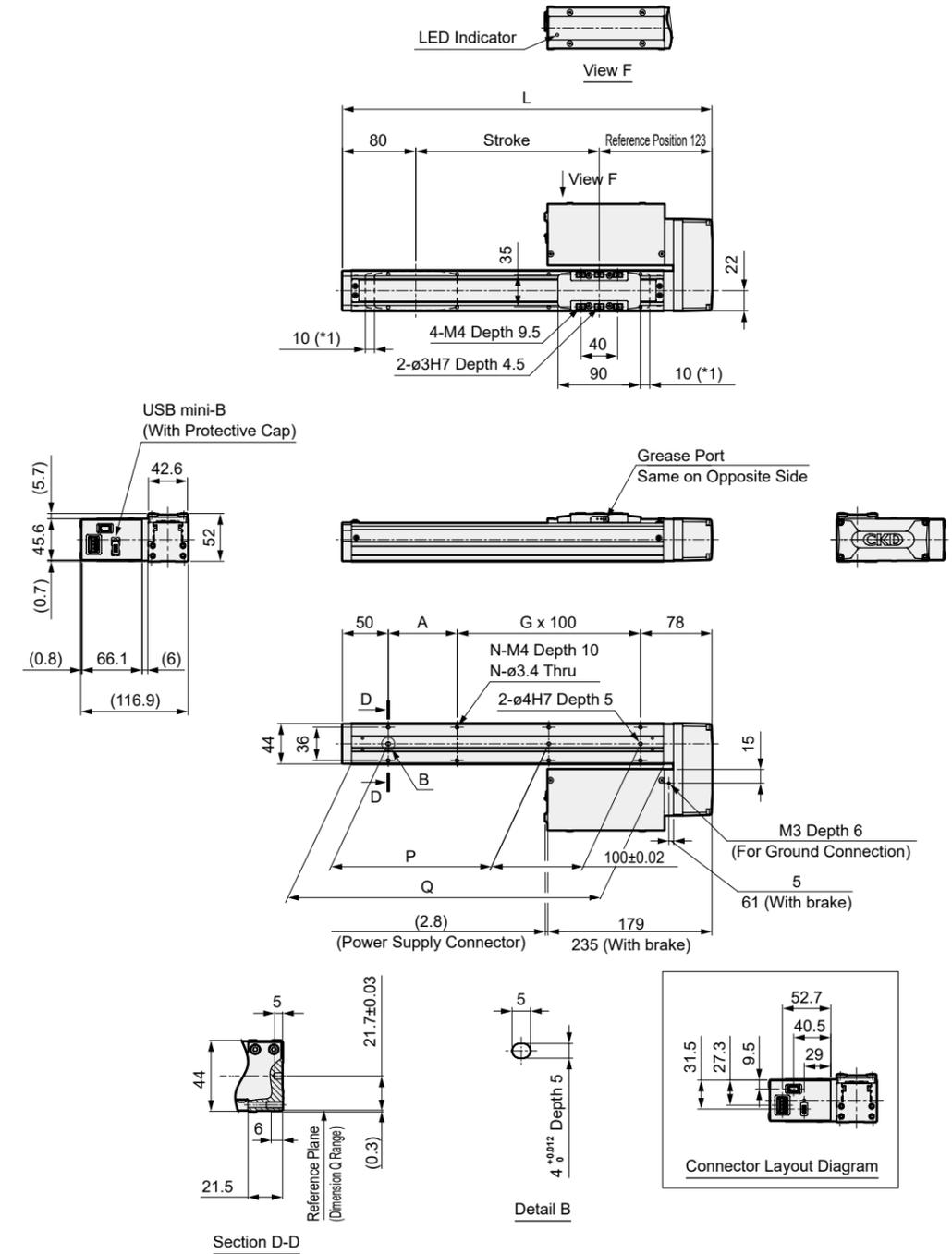
● LRXE-BS-04R



*1: Operating range to the mechanical stopper

Stroke Code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	
Stroke (mm)	50	100	150	200	250	300	350	400	450	500	
L	253	303	353	403	453	503	553	603	653	703	
A	25	75	25	75	25	75	25	75	25	75	
G	1	1	2	2	3	3	4	4	5	5	
N	6	6	8	8	10	10	12	12	14	14	
P	25	75	125	175	225	275	325	375	425	475	
Q	190	240	290	340	390	440	490	540	590	640	
Weight (kg)	Without brake	1.8	1.9	2.0	2.1	2.3	2.4	2.5	2.6	2.7	2.9
	With brake	2.2	2.3	2.4	2.6	2.7	2.8	2.9	3.0	3.2	3.3

● LRXE-BS-04L



*1: Operating range to the mechanical stopper

Stroke Code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	
Stroke (mm)	50	100	150	200	250	300	350	400	450	500	
L	253	303	353	403	453	503	553	603	653	703	
A	25	75	25	75	25	75	25	75	25	75	
G	1	1	2	2	3	3	4	4	5	5	
N	6	6	8	8	10	10	12	12	14	14	
P	25	75	125	175	225	275	325	375	425	475	
Q	190	240	290	340	390	440	490	540	590	640	
Weight (kg)	Without brake	1.8	1.9	2.0	2.1	2.3	2.4	2.5	2.6	2.7	2.9
	With brake	2.2	2.3	2.4	2.6	2.7	2.8	2.9	3.0	3.2	3.3



Electric Actuator Slider Type LRXE-BS-05E

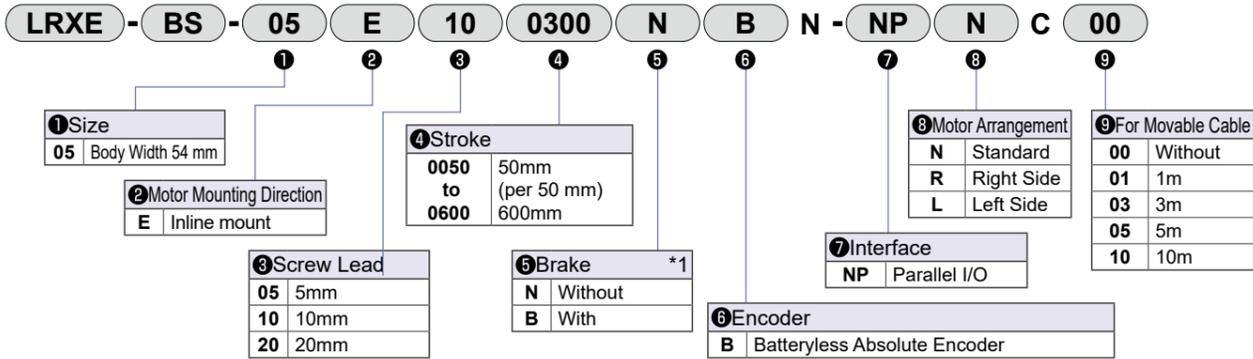
Motor Inline Mount Type
□42 Stepping Motor



LRXE-BS-05E

Specifications

Model No. Notation



*1 Select "With" for vertical use.

Specifications

Motor	□42 Stepping Motor		
Encoder Type	Batteryless Absolute Encoder		
Driving Method	Ball Screw ø12		
Controller	Built-in		
Stroke	mm 50 to 600		
Screw Lead mm	5	10	20
Max. Payload (kg) *1	Horizontal	40.0	27.5
	Vertical	14.2	7.1
Operating Speed Range *2 (mm/s)	6 to 375	12 to 750	25 to 1120
Max. Acceleration/ Deceleration (G)	Horizontal	1.0	
	Vertical	0.5	
Max. Pressing Force (N)	220	110	55
Pressing Operation Speed Range (mm/s)	5 to 20		
Repeatability (mm)	±0.01		
Lost Motion (mm)	0.1 or less		
Static Allowable Moment (N·m)	MP: 103 MY: 103 MR: 144		
Setting Tool	Setting Software (S-Tools) Connection Cable: USB Cable (mini-B)		
External Interface	Parallel I/O Spec.	24 VDC ±10% Max. 4 points each for I/O, Cable length Max. 10 m	
Power Supply Voltage *3	24 VDC ±10%		
Current Consumption	Control	0.12 A	
	Motive	4.5 A	
Brake	Model, Power supply voltage *3	Non-Excitation-Actuated Type, 24 VDC ±10%	
	Power Consumption (W)	6.1	
	Holding Force (N)	168	84
Insulation Resistance	10 MΩ or more at 500 VDC		
Withstand Voltage	500 VAC for 1 minute		
Ambient Temperature and Humidity	10 to 40°C (with no freezing) 35 to 80%RH (with no condensation)		
Storage Ambient Temperature and Humidity	-10 to 50°C (with no freezing) 35 to 80%RH (with no condensation)		
Atmosphere	No corrosive gas, explosive gas, or dust		
Protection Structure	IP20		

*1 Payload capacity varies depending on acceleration/deceleration and speed. For details, refer to P. 17.

*2 Maximum speed may decrease depending on conditions.

*3 If the cable length exceeds 5 m, the power supply voltage must be 24 VDC ±5%, the power supply voltage should be 24 V ±5%.

Stroke and Max. Speed

Screw Lead (mm)	Stroke (mm)			
	50 to 450	500	550	600
5	375	360	300	260
10	750	720	615	525
20	1120			1050

Speed and Payload

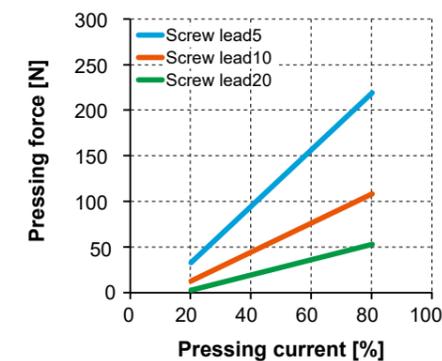
[For Horizontal Installation]

Speed (mm/s)	Screw Lead (mm)											
	5				10				20			
	Acceleration/Deceleration (G)											
	0.3	0.5	0.7	1.0	0.3	0.5	0.7	1.0	0.3	0.5	0.7	1.0
6	40.0	40.0	40.0	40.0								
12	40.0	40.0	40.0	40.0	27.5	25.0	23.3	22.9				
25	40.0	40.0	40.0	40.0	27.5	25.0	23.3	22.9	9.5	11.7	8.7	8.3
100	40.0	40.0	40.0	40.0	27.5	25.0	23.3	22.9	18.3	11.7	10.0	7.5
200	40.0	40.0	40.0	30.4	27.5	25.0	18.3	14.2	18.3	11.7	10.0	6.7
250	40.0	40.0	33.3	20.4	27.5	25.0	18.3	12.9	15.0	11.7	8.3	6.3
300	40.0	40.0	24.2	13.8	27.5	25.0	18.3	12.9	15.0	11.7	8.3	6.3
350	40.0	35.8	24.2	9.2	27.5	25.0	18.3	12.9	15.0	11.7	8.3	6.3
375	20.0	20.0	17.5	7.9	27.5	25.0	18.3	12.9	15.0	11.7	8.3	6.3
400					27.5	25.0	18.3	12.9	15.0	11.7	8.3	6.3
500					20.4	20.4	18.3	10.8	13.3	10.0	8.3	6.3
600					15.0	15.0	15.0	6.3	13.3	10.0	8.3	6.3
700					6.7	6.7	6.7	3.3	11.3	8.3	6.7	5.0
750					2.9	2.9	2.9	2.9	11.3	7.5	6.7	4.2
800									11.3	7.5	6.7	4.2
900									10.0	7.5	6.7	4.2
1000									6.3	6.3	5.0	2.9
1100									6.3	4.2	2.5	1.7
1120									2.1	2.1	2.1	1.7

[For Vertical Installation]

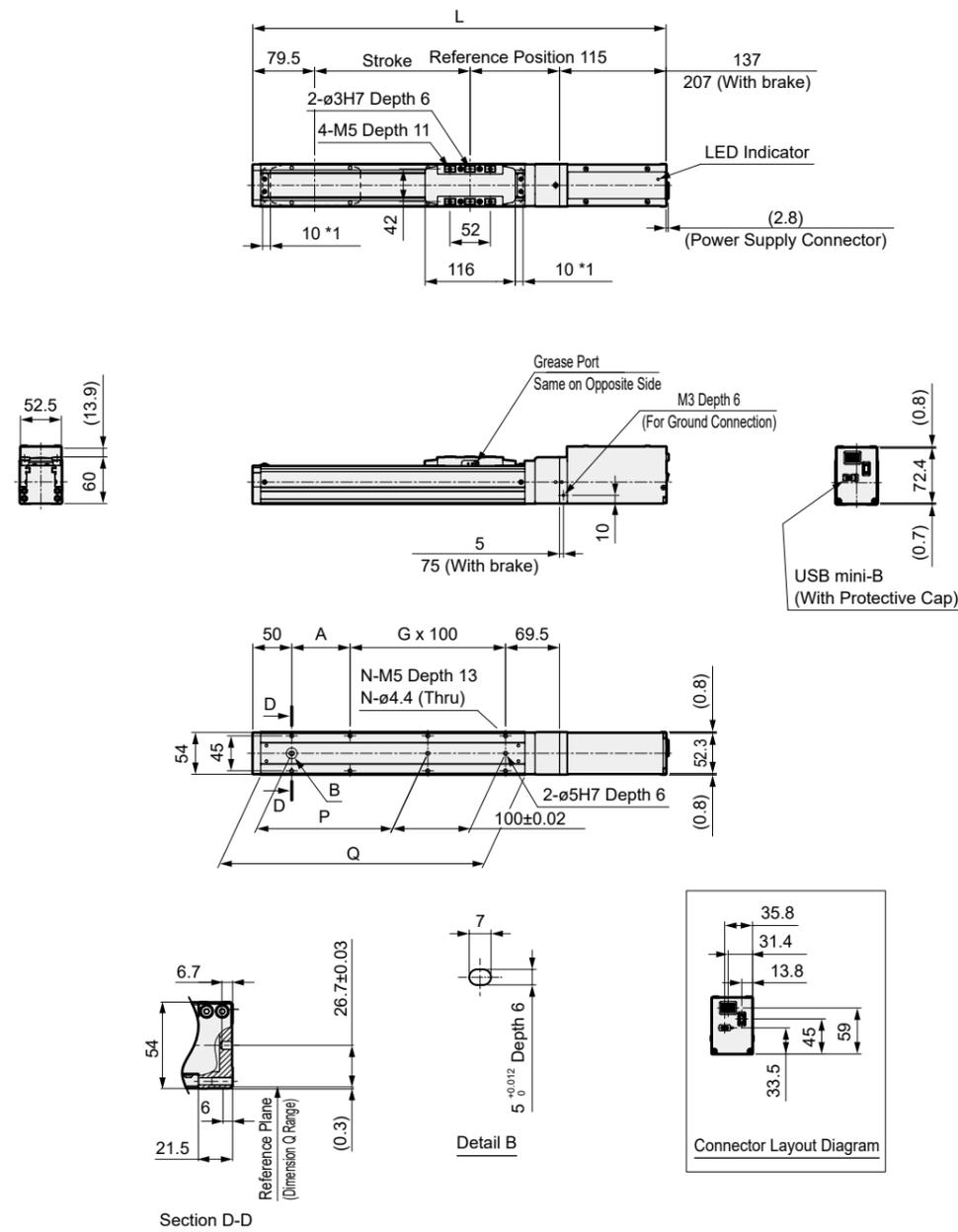
Speed (mm/s)	Screw Lead (mm)					
	5		10		20	
	Acceleration/Deceleration (G)					
	0.3	0.5	0.3	0.5	0.3	0.5
6	14.2	14.2				
12	14.2	14.2	7.1	7.1		
25	14.2	14.2	7.1	7.1	0.8	1.25
100	14.2	14.2	7.1	7.1	2.5	2.5
150	13.3	12.5	7.1	7.1	2.5	2.5
250	10.0	9.1	7.1	7.1	2.5	2.5
300	6.3	6.3	7.1	7.1	2.5	2.5
350	2.9	2.9	4.6	3.8	2.5	2.5
375	1.3	1.3	4.6	3.8	2.5	2.5
400			4.6	3.8	2.5	2.5
500			2.5	1.7	1.3	1.3
600			1.7	0.8	1.3	1.3
650			0.8		1.3	1.3
800					1.3	1.3
900					0.8	0.8
1000					0.4	

Pressing Force



* The Pressing Force values above are for reference only. They may vary depending on conditions such as the pushing speed.

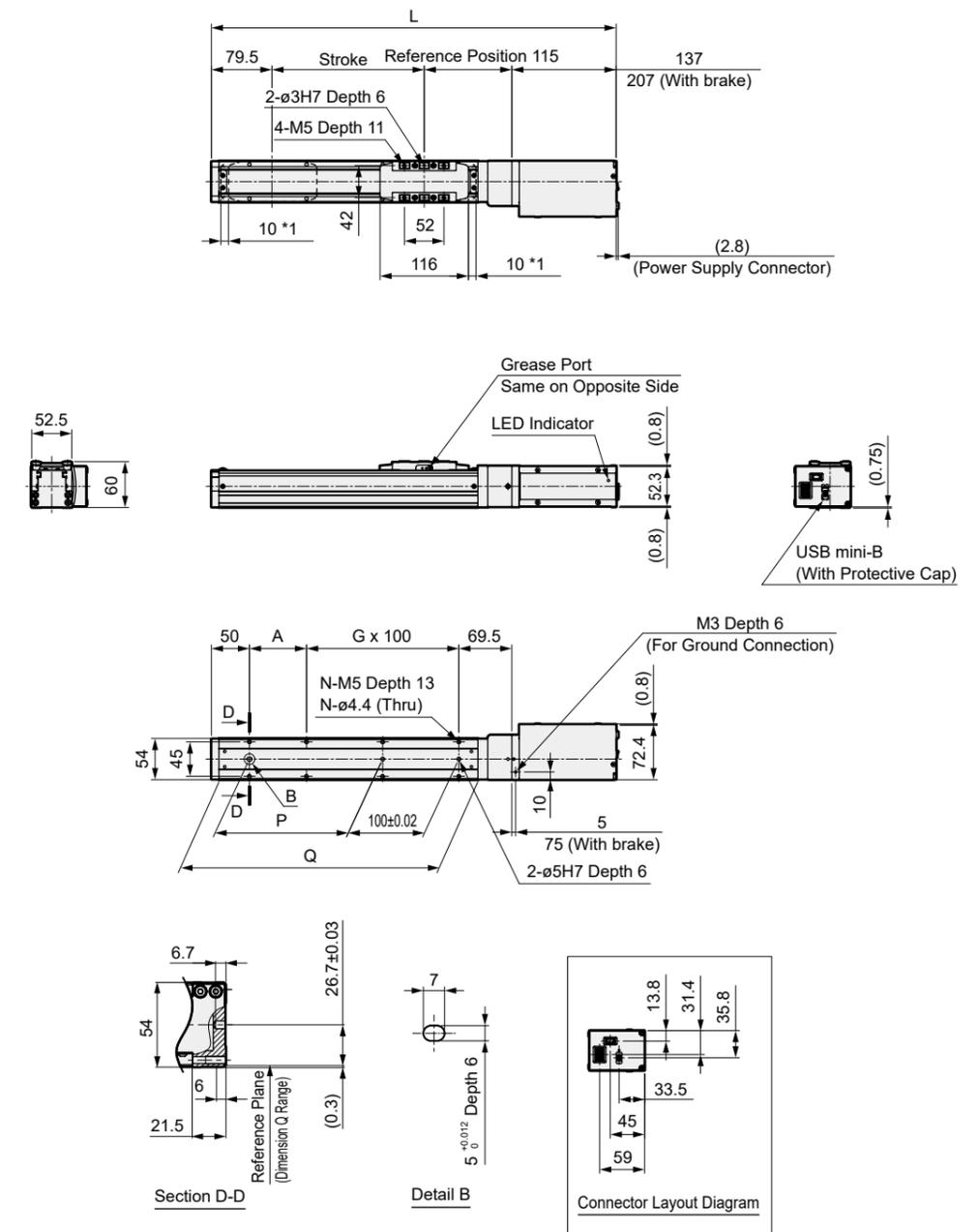
● LRXE-BS-05E-N



*1: Operating range to the mechanical stopper

Stroke Code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	0550	0600	
Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	
L	Without brake	381.5	431.5	481.5	531.5	581.5	631.5	681.5	731.5	781.5	831.5	881.5	931.5
	With brake	451.5	501.5	551.5	601.5	651.5	701.5	751.5	801.5	851.5	901.5	951.5	1001.5
A	25	75	25	75	25	75	25	75	25	75	25	75	
G	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	
Q	190	240	290	340	390	440	490	540	590	640	690	740	
Weight (kg)	Without brake	2.6	2.8	2.9	3.0	3.2	3.3	3.5	3.6	3.7	3.9	4.0	4.2
	With brake	3.4	3.5	3.7	3.8	3.9	4.1	4.2	4.4	4.5	4.6	4.8	4.9

● LRXE-BS-05E-R



*1: Operating range to the mechanical stopper

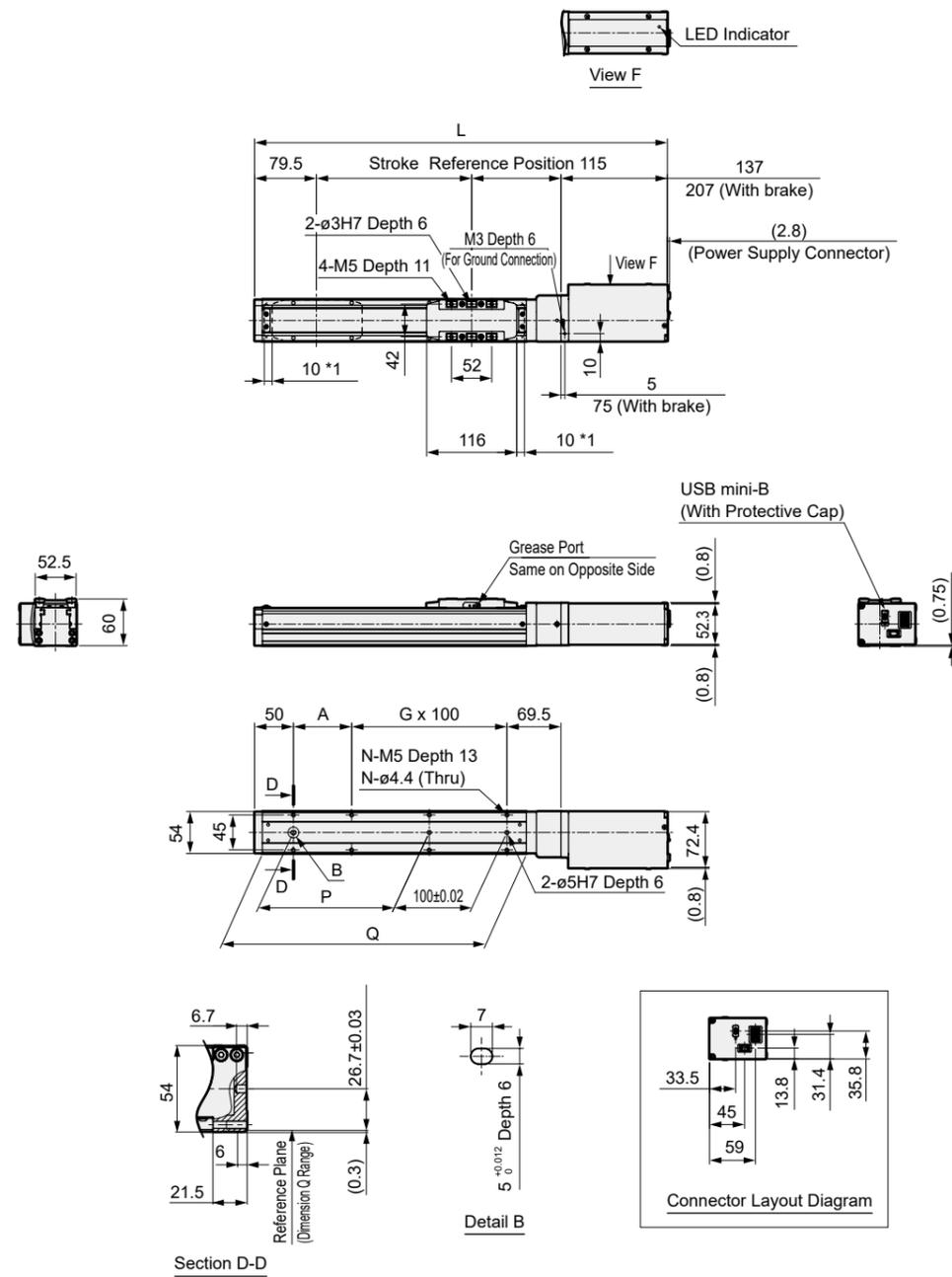
Stroke Code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	0550	0600	
Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	
L	Without brake	381.5	431.5	481.5	531.5	581.5	631.5	681.5	731.5	781.5	831.5	881.5	931.5
	With brake	451.5	501.5	551.5	601.5	651.5	701.5	751.5	801.5	851.5	901.5	951.5	1001.5
A	25	75	25	75	25	75	25	75	25	75	25	75	
G	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	
Q	190	240	290	340	390	440	490	540	590	640	690	740	
Weight (kg)	Without brake	2.6	2.8	2.9	3.0	3.2	3.3	3.5	3.6	3.7	3.9	4.0	4.2
	With brake	3.4	3.5	3.7	3.8	3.9	4.1	4.2	4.4	4.5	4.6	4.8	4.9

LRXE-BS-05E

External Dimensions Drawing: Inline Motor / Left-side Motor Arrangement

MEMO

- LRXE-BS-05E-L



*1: Operatical rapping

Stroke Code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	0550	0600	
Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	
L	Without brake	381.5	431.5	481.5	531.5	581.5	631.5	681.5	731.5	781.5	831.5	881.5	931.5
	With brake	451.5	501.5	551.5	601.5	651.5	701.5	751.5	801.5	851.5	901.5	951.5	1001.5
A	25	75	25	75	25	75	25	75	25	75	25	75	
G	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	
Q	190	240	290	340	390	440	490	540	590	640	690	740	
Weight (kg)	Without brake	2.6	2.8	2.9	3.0	3.2	3.3	3.5	3.6	3.7	3.9	4.0	4.2
	With brake	3.4	3.5	3.7	3.8	3.9	4.1	4.2	4.4	4.5	4.6	4.8	4.9



Electric Actuator Slider Type LRXE-BS-05

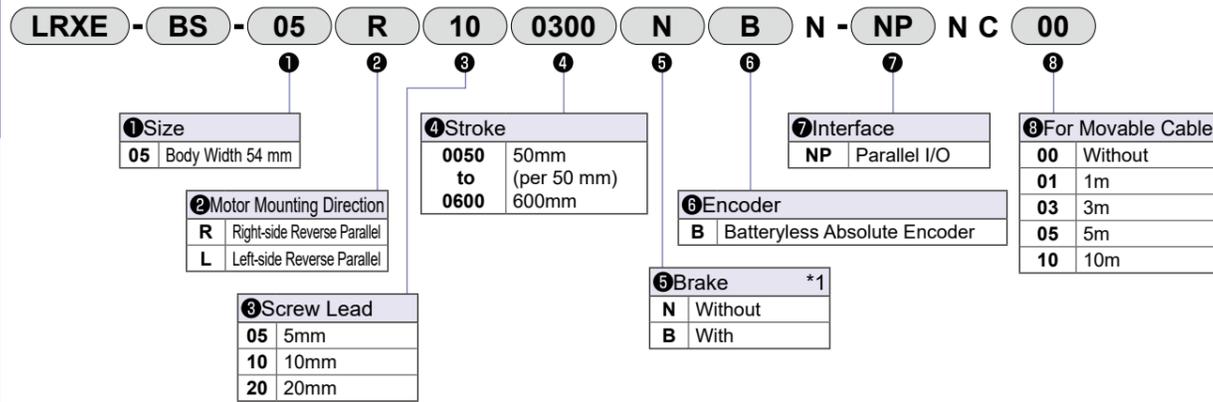
Motor Reverse Parallel Mount Type
□42 Stepping Motor



LRXE-BS-05

Specifications

Model No. Notation



*1 Select "With" for vertical use.

Specifications

Motor	□42 Stepping Motor		
Encoder Type	Batteryless Absolute Encoder		
Driving Method	Ball Screw ø12		
Controller	Built-in		
Stroke	mm 50 to 600		
Screw Lead mm	5	10	20
Max. Payload (kg) *1	Horizontal	40.0	27.5
	Vertical	10.0	3.3
Operating Speed Range *2 (mm/s)	6 to 325	12 to 635	25 to 1120
Max. Acceleration/ Deceleration (G)	Horizontal	1.0	
	Vertical	0.5	
Max. Pressing Force (N)	220	110	55
Pressing Operation Speed Range (mm/s)	5 to 20		
Repeatability (mm)	±0.01		
Lost Motion (mm)	0.1 or less		
Static Allowable Moment (N·m)	MP: 103 MY: 103 MR: 144		
Setting Tool	Setting Software (S-Tools) Connection Cable: USB Cable (mini-B)		
External Interface	Parallel I/O Specs.	24 VDC ±10% Max. 4 points each for I/O, Cable length Max. 10 m	
Power Supply Voltage *3	24 VDC ±10%		
Current Consumption	Control	A 0.12	
	Motive	A 4.5	
Brake	Model, Power supply voltage *3	Non-Excitation-Actuated Type, 24 VDC ±10%	
	Power Consumption (W)	6.1	
	Holding Force (N)	168	84
Insulation Resistance	10 MΩ or more at 500 VDC		
Withstand Voltage	500 VAC for 1 minute		
Ambient Temperature and Humidity	10 to 40°C (with no freezing) 35 to 80%RH (with no condensation)		
Storage Ambient Temperature and Humidity	-10 to 50°C (with no freezing) 35 to 80%RH (with no condensation)		
Atmosphere	No corrosive gas, explosive gas, or dust		
Protection Structure	IP20		

*1 Payload capacity varies depending on acceleration/deceleration and speed. For details, please refer to P. 23.

*2 Maximum speed may decrease depending on conditions.

*3 If the cable length exceeds 5 m, the power supply voltage must be 24 VDC ±5%, the power supply voltage must be 24 VDC ±5%.

Stroke and Max. Speed

Screw Lead (mm)	Stroke (mm)		
	50 to 500	550	600
5	325	300	260
10	635	615	525
20	1120	1050	

Speed and Payload

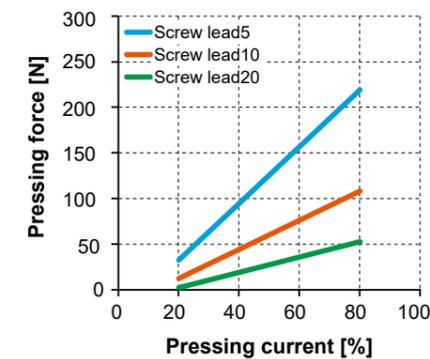
[For Horizontal Installation]

Speed (mm/s)	Screw Lead (mm)											
	5			10			20					
	Acceleration/Deceleration (G)											
	0.3	0.5	0.7	1.0	0.3	0.5	0.7	1.0	0.3	0.5	0.7	1.0
6	40.0	40.0	40.0	40.0								
12	40.0	40.0	40.0	40.0	27.5	25.0	23.3	22.9				
25	40.0	40.0	40.0	40.0	27.5	25.0	23.3	22.9	18.3	11.7	10.0	8.3
100	40.0	40.0	40.0	40.0	27.5	25.0	23.3	22.9	18.3	11.7	10.0	7.5
150	40.0	40.0	40.0	23.3	27.5	20.0	18.3	14.2	15.0	11.7	10.0	6.7
200	40.0	40.0	32.5	18.3	27.5	20.0	18.3	14.2	15.0	11.7	10.0	6.7
250	40.0	40.0	25.8	13.3	27.5	20.0	18.3	12.9	15.0	11.7	8.3	6.3
300	19.2	19.2	19.2		27.5	20.0	18.3	12.9	15.0	11.7	8.3	6.3
325	19.2	19.2	16.7		27.5	20.0	18.3	12.9	15.0	11.7	8.3	6.3
400					27.5	20.0	18.3	12.9	15.0	11.7	8.3	6.3
500					20.4	17.5	15.0	10.8	13.3	10.0	8.3	6.3
600					15.0	13.3	13.3	6.3	13.3	10.0	8.3	6.3
635					4.6	4.6	4.6	3.3	11.3	8.3	6.7	5.0
700									11.3	8.3	6.7	5.0
800									11.3	7.5	6.7	4.2
900									10.0	7.5	6.7	4.2
1000									6.3	6.3	5.0	2.5
1100									6.3	4.2	2.5	1.7
1120									1.3	1.3	1.3	

[For Vertical Installation]

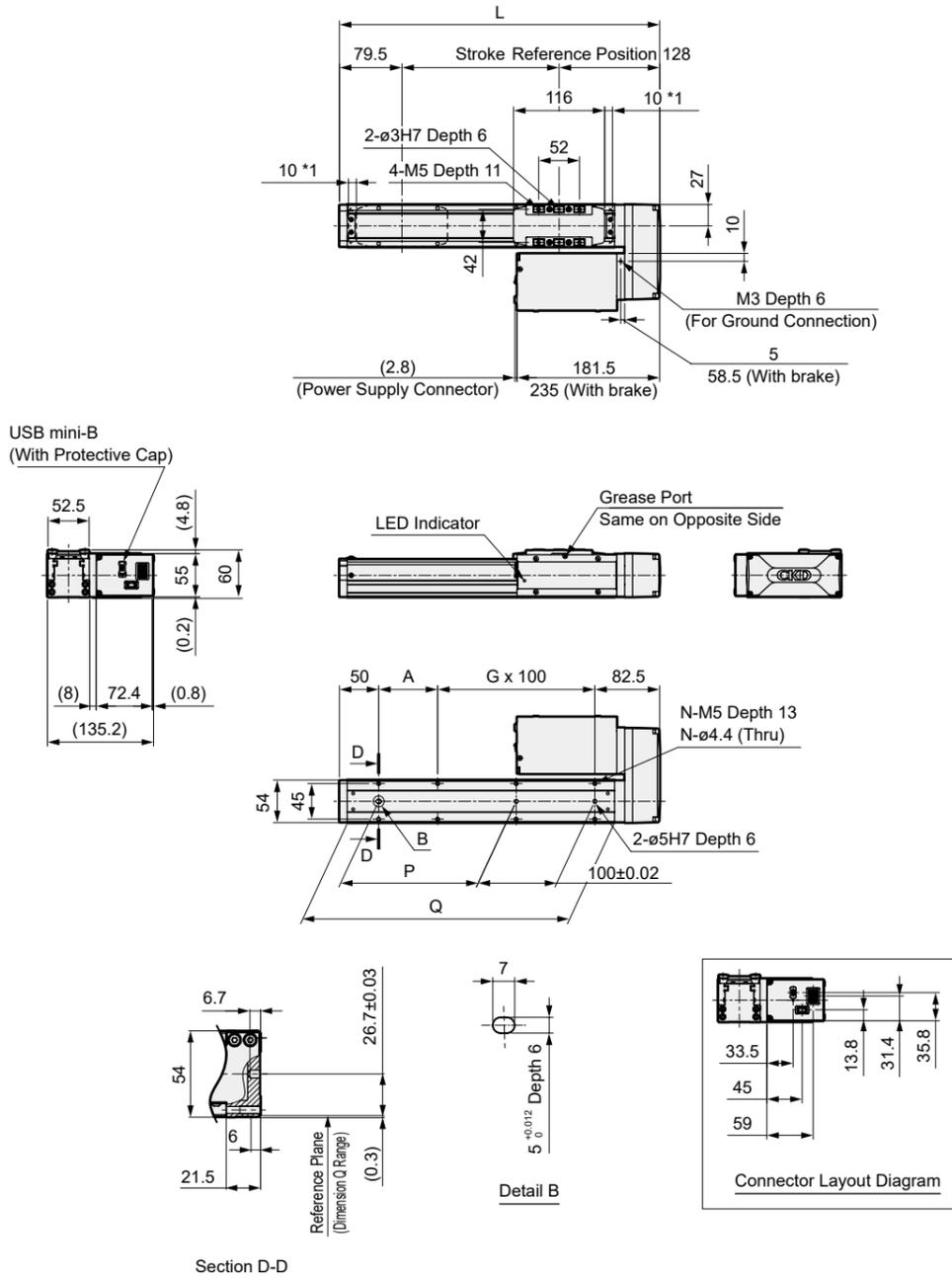
Speed (mm/s)	Screw Lead (mm)					
	5		10		20	
	Acceleration/Deceleration (G)					
	0.3	0.5	0.3	0.5	0.3	0.5
6	10.0	10.0				
12	10.0	10.0	3.3	3.3		
25	10.0	10.0	3.3	3.3	0.8	0.8
200	10.0	10.0	3.3	3.3	0.8	0.8
250	7.5	5.8	3.3	3.3	0.8	0.8
300	3.8	1.7	3.3	3.3	0.8	0.8
325	0.8		3.3	2.9	0.8	0.8
400			3.3	2.9	0.8	0.8
500			2.5	1.7	0.8	0.8
600			0.8	0.8	0.8	0.8
900					0.8	0.8

Pressing Force



* The Pressing Force values above are for reference only. They may vary depending on conditions such as the pushing speed.

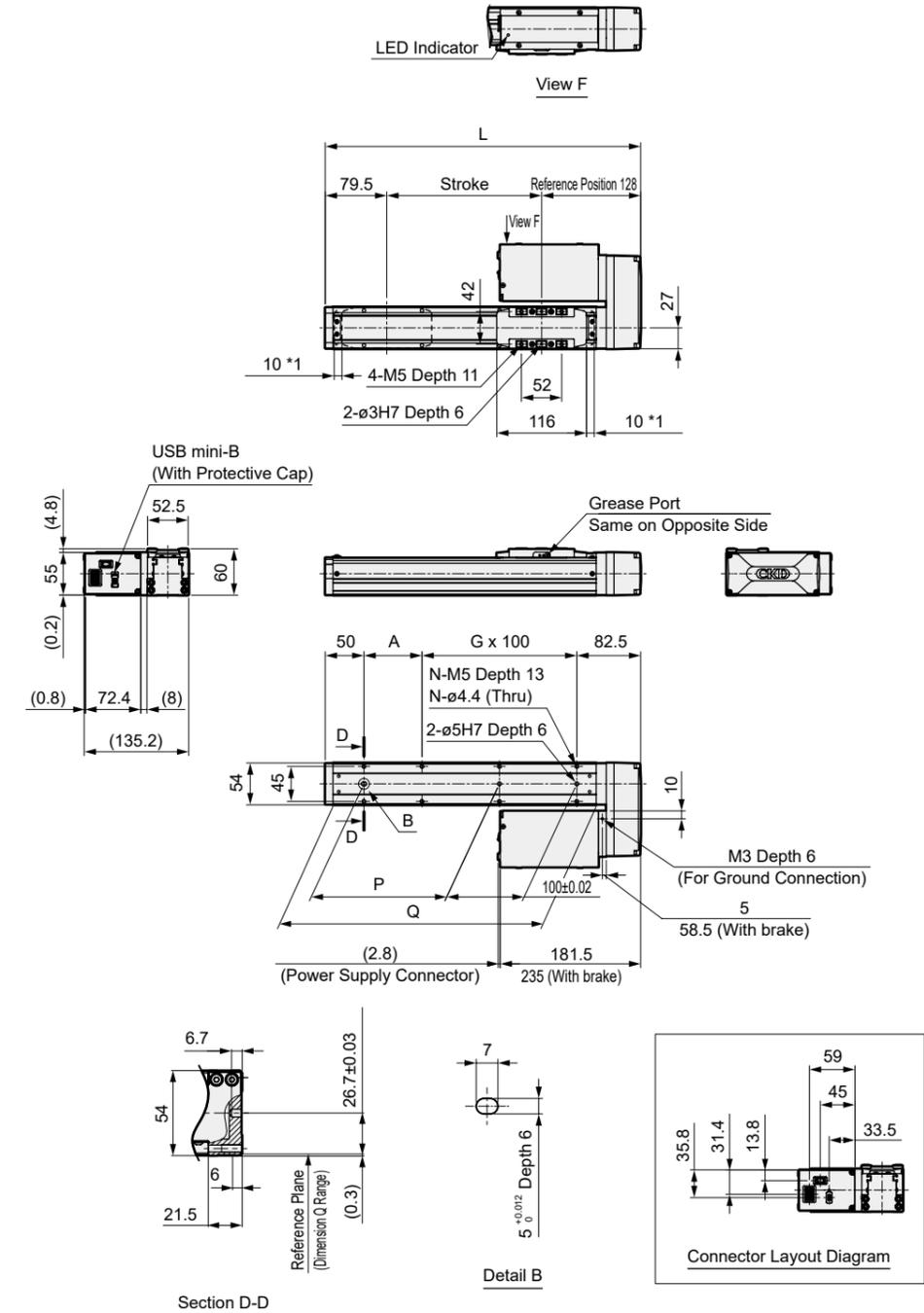
- LRXE-BS-05R



*1: Operating range to the mechanical stopper

Stroke Code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	0550	0600	
Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	
L	257.5	307.5	357.5	407.5	457.5	507.5	557.5	607.5	657.5	707.5	757.5	807.5	
A	25	75	25	75	25	75	25	75	25	75	25	75	
G	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	
Q	190	240	290	340	390	440	490	540	590	640	690	740	
Weight (kg)	Without brake	2.8	2.9	3.0	3.2	3.3	3.5	3.6	3.7	3.9	4.0	4.1	4.3
	With brake	3.5	3.7	3.8	3.9	4.1	4.2	4.4	4.5	4.6	4.8	4.9	5.1

- LRXE-BS-05L



*1: Operating range to the mechanical stopper

Stroke Code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	0550	0600	
Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	
L	257.5	307.5	357.5	407.5	457.5	507.5	557.5	607.5	657.5	707.5	757.5	807.5	
A	25	75	25	75	25	75	25	75	25	75	25	75	
G	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	
Q	190	240	290	340	390	440	490	540	590	640	690	740	
Weight (kg)	Without brake	2.8	2.9	3.0	3.2	3.3	3.5	3.6	3.7	3.9	4.0	4.1	4.3
	With brake	3.5	3.7	3.8	3.9	4.1	4.2	4.4	4.5	4.6	4.8	4.9	5.1



Electric Actuator Slider Type LRXE-BS-08E

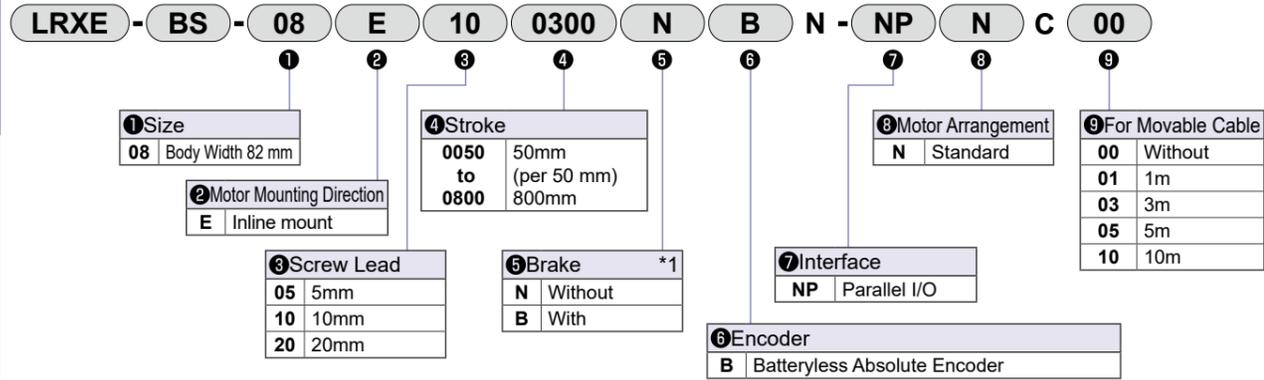
Motor Inline Mount Type
□56 Stepping Motor



LRXE-BS-08E

Specifications

Model No. Notation



*1 Select "With" for vertical use.

Specifications

Motor	□56 Stepping Motor			
Encoder Type	Batteryless Absolute Encoder			
Driving Method	Ball Screw ø15			
Controller	Built-in			
Stroke	mm	50 to 800		
Screw Lead	mm	5	10	20
Max. Payload (kg) *1	Horizontal	80.0	70.0	30.0
	Vertical	43.3	28.3	3.3
Operating Speed Range *2	mm/s	6 to 230	12 to 430	25 to 650
Max. Acceleration/ Deceleration (G)	Horizontal	1.0		
	Vertical	0.5		
Max. Pressing Force	N	965	482	241
Pressing Operation Speed Range	mm/s	5 to 20		
Repeatability	mm	±0.01		
Lost Motion	mm	0.1 or less		
Static Allowable Moment	N·m	MP:203 MY:203 MR:336		
Setting Tool	Setting Software (S-Tools) Connection Cable: USB Cable (mini-B)			
External Interface	Parallel I/O Spec.	24 VDC ±10% Max. 4 points each for I/O, Cable length Max. 10 m		
Power Supply Voltage	*3	24 VDC ±10%		
Current Consumption	Control	A 0.12		
	Motive	A 4.5		
Brake	Model, Power supply voltage *3	Non-Excitation-Actuated Type, 24 VDC ±10%		
	Power Consumption	W 7.2		
Holding Force	N	768	384	192
Insulation Resistance	10 MΩ or more at 500 VDC			
Withstand Voltage	500 VAC for 1 minute			
Ambient Temperature and Humidity	10 to 40°C (with no freezing)			
	35 to 80%RH (with no condensation)			
Storage Ambient Temperature and Humidity	-10 to 50°C (with no freezing)			
	35 to 80%RH (with no condensation)			
Atmosphere	No corrosive gas, explosive gas, or dust			
Protection Structure	IP20			

*1 Payload capacity varies depending on acceleration/deceleration and speed. For details, please refer to P. 27.

*2 Maximum speed may decrease depending on conditions.

*3 If the cable length exceeds 5 m, the power supply voltage must be 24 VDC ±5%, the power supply voltage must be 24 VDC ±5%.

Stroke and Max. Speed

Screw Lead (mm)	Stroke (mm)		
	50 to 700	750	800
5	230	220	200
10	430		400
20	650		

Speed and Payload

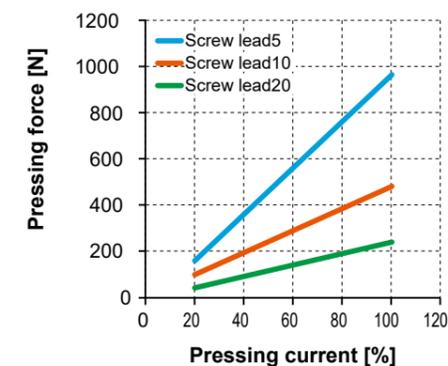
[For Horizontal Installation]

Speed (mm/s)	Screw Lead(mm)											
	5				10				20			
	Acceleration/Deceleration (G)											
	0.3	0.5	0.7	1.0	0.3	0.5	0.7	1.0	0.3	0.5	0.7	1.0
6	80.0	80.0	80.0	80.0								
12	80.0	80.0	80.0	80.0	70.0	70.0	70.0	70.0				
25	80.0	80.0	80.0	80.0	70.0	70.0	70.0	70.0	30.0	30.0	30.0	30.0
100	80.0	80.0	80.0	80.0	70.0	70.0	70.0	70.0	30.0	30.0	30.0	30.0
150	80.0	80.0	80.0	50.0	70.0	70.0	70.0	70.0	30.0	30.0	26.7	26.7
200	51.0	51.0	51.0	18.3	70.0	70.0	70.0	40.0	30.0	30.0	26.7	26.7
230	18.3	18.3	18.3		70.0	70.0	43.3	40.0	30.0	26.7	26.7	23.0
250					70.0	70.0	43.3	40.0	30.0	26.7	26.7	23.0
300					70.0	51.0	36.0	15.0	30.0	26.7	26.7	23.0
350					36.0	36.0	26.0	3.5	30.0	26.7	26.7	16.0
400					36.0	28.0	18.0		30.0	26.7	23.0	16.0
430					12.5	12.5	12.5		30.0	26.7	23.0	16.0
500									26.7	26.7	16.0	16.0
600									22.5	22.5	16.0	6.5
650									22.5	22.5	8.0	2.5

[For Vertical Installation]

Speed (mm/s)	Screw Lead(mm)					
	5		10		20	
	Acceleration/Deceleration (G)					
	0.3	0.5	0.3	0.5	0.3	0.5
6	43.3	43.3				
12	43.3	43.3	28.3	28.3		
25	43.3	43.3	28.3	28.3	3.3	3.3
50	43.3	43.3	28.3	28.3	3.3	3.3
100	16.7	16.7	24.2	12.1	3.3	3.3
150	16.7	16.7	22.5	12.1	3.3	3.3
200	5.0	5.0	14.2	12.1	3.3	3.3
230	0.8		12.0	12.0	3.3	3.3
250			12.0	12.0	3.3	3.3
300			5.4	2.1	3.3	3.3
350			2.1	2.1	3.3	3.3
400			2.1	2.1	3.3	3.3
500					3.3	3.3
600					0.8	0.8
650					0.8	0.8

Pressing Force



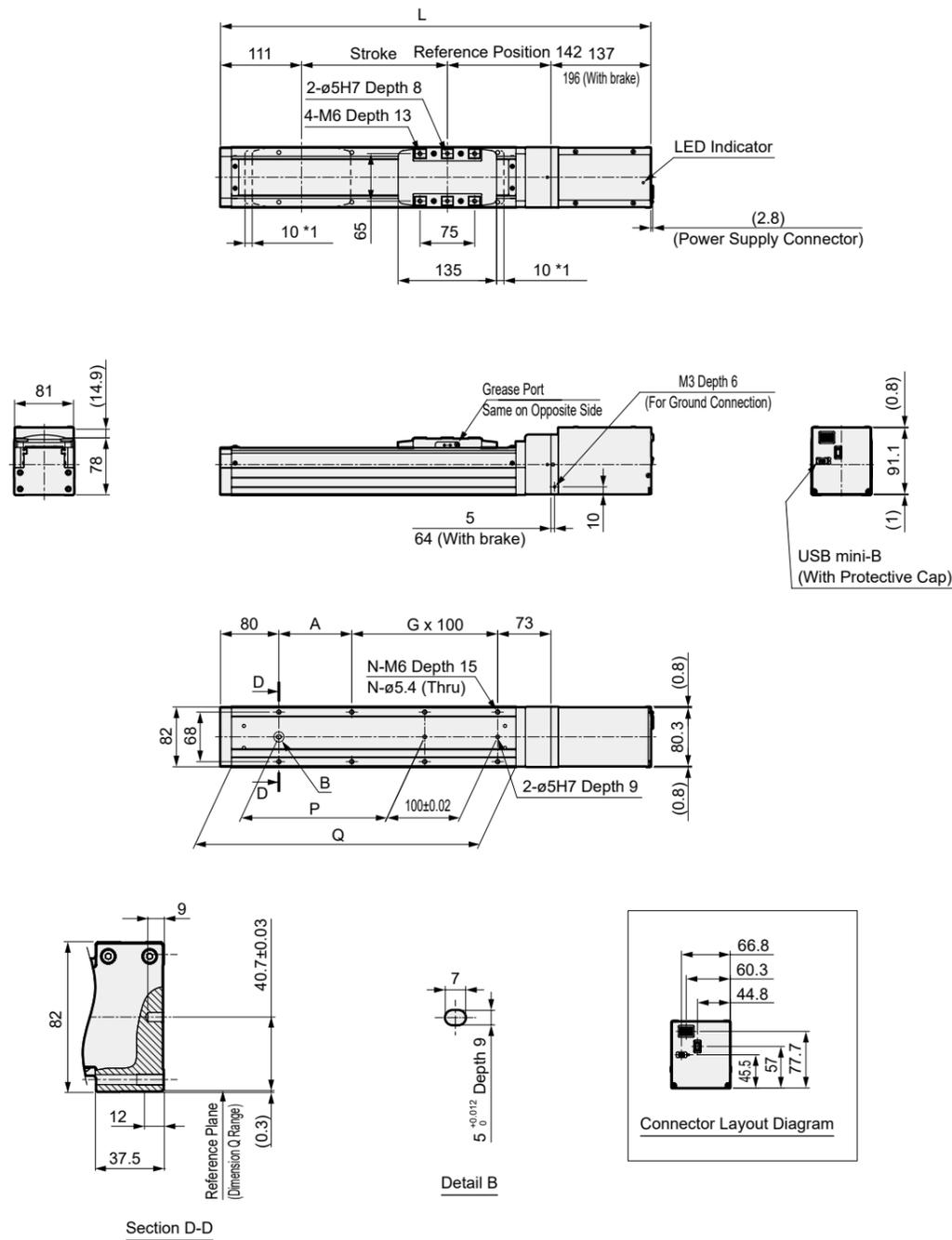
* The Pressing Force values above are for reference. They may vary depending on conditions such as pressing speed.

LRXE-BS-08E

External Dimensions Drawing: Inline Motor / Standard Motor Arrangement

MEMO

● LRXE-BS-08E-N



*1: Operating range to the mechanical stopper

Stroke Code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700	0750	0800	
Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	
L	Without brake	440	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190
	With brake	499	549	599	649	699	749	799	849	899	949	999	1049	1099	1149	1199	1249
A	150	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	
G	0	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	
N	4	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	
Q	240	290	340	390	440	490	540	590	640	690	740	790	840	890	940	990	
Weight (kg)	Without brake	6.0	6.3	6.7	7.0	7.3	7.7	8.0	8.3	8.7	9.0	9.3	9.7	10.0	10.3	10.7	11.0
	With brake	7.0	7.4	7.7	8.0	8.4	8.7	9.0	9.4	9.7	10.0	10.4	10.7	11.0	11.4	11.7	12.1



Electric Actuator Slider Type LRXE-BS-08

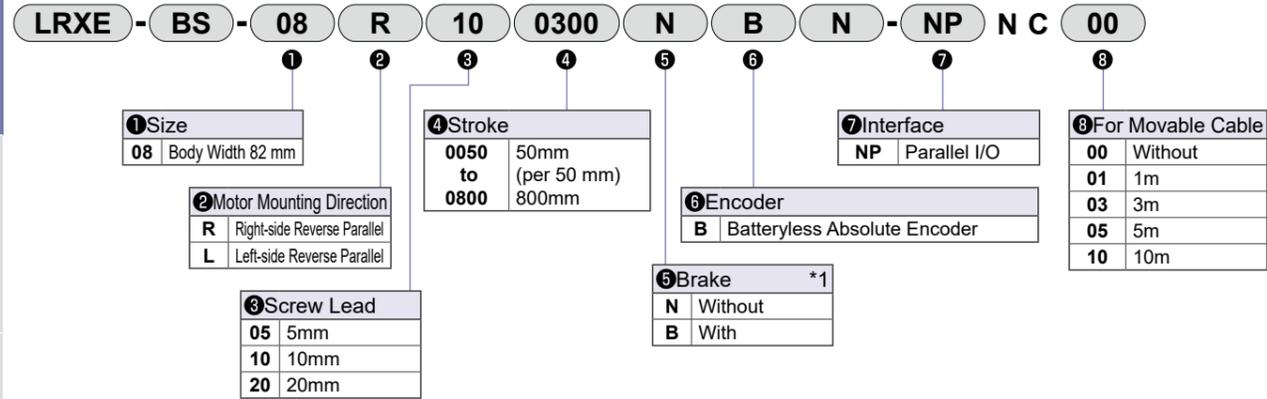
Motor Reverse Parallel Mount Type
□56 Stepping Motor



LRXE-BS-08

Specifications

Model No. Notation



*1 Select "With" for vertical use.

Specifications

Motor	□56 Stepping Motor		
Encoder Type	Batteryless Absolute Encoder		
Driving Method	Ball Screw ø15		
Controller	Built-in		
Stroke	mm 50 to 800		
Screw Lead	mm 5	10	20
Max. Payload (kg) *1	Horizontal	80.0	70.0
	Vertical	33.3	21.7
Operating Speed Range *2	mm/s 6 to 200	12 to 430	25 to 650
Max. Acceleration/Deceleration (G)	Horizontal	1.0	
	Vertical	0.5	
Max. Pressing Force	N 965	482	241
Pressing Operation Speed Range	mm/s 5 to 20		
Repeatability	mm ±0.01		
Lost Motion	mm 0.1 or less		
Static Allowable Moment	N·m MP:203 MY:203 MR:336		
Setting Tool	Setting Software (S-Tools) Connection Cable: USB Cable (mini-B)		
External Interface	Parallel I/O Spec.	24 VDC ±10% Max. 4 points each for I/O, Cable length Max. 10 m	
Power Supply Voltage	*3 24 VDC ±10%		
Current Consumption	Control	A 0.12	
	Motive	A 4.5	
Brake	Model, Power supply voltage *3	Non-Excitation-Actuated Type, 24 VDC ±10%	
	Power Consumption	W 7.2	
Holding Force	N 768	384	192
	Insulation Resistance	10 MΩ or more at 500 VDC	
Withstand Voltage	500 VAC for 1 minute		
Ambient Temperature and Humidity	10 to 40°C (with no freezing)		
	35 to 80%RH (with no condensation)		
Storage Ambient Temperature and Humidity	-10 to 50°C (with no freezing)		
	35 to 80%RH (with no condensation)		
Atmosphere	No corrosive gas, explosive gas, or dust		
Protection Structure	IP20		

*1 Payload capacity varies depending on acceleration/deceleration and speed. For details, please refer to P. 31.

*2 Maximum speed may decrease depending on conditions.

*3 If the cable length exceeds 5 m, the power supply voltage must be 24 VDC ±5%, the power supply voltage must be 24 VDC ±5%.

Stroke and Max. Speed

Screw Lead (mm)	Stroke (mm)	
	50 to 750	800
5	200	
10	430	400
20	650	

Speed and Payload

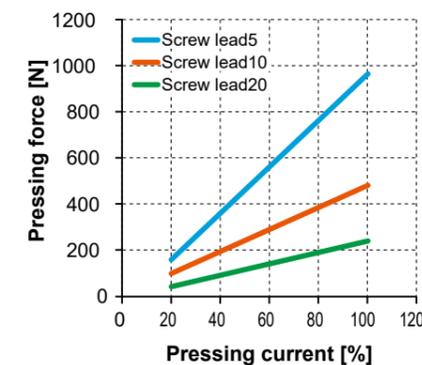
[For Horizontal Installation]

Speed (mm/s)	Screw Lead(mm)											
	5				10				20			
	Acceleration/Deceleration (G)											
	0.3	0.5	0.7	1.0	0.3	0.5	0.7	1.0	0.3	0.5	0.7	1.0
6	80.0	80.0	80.0	80.0								
12	80.0	80.0	80.0	80.0	70.0	70.0	70.0	70.0				
25	80.0	80.0	80.0	80.0	70.0	70.0	70.0	70.0	30.0	30.0	30.0	30.0
50	80.0	80.0	80.0	80.0	70.0	70.0	70.0	70.0	30.0	30.0	30.0	30.0
100	80.0	80.0	80.0	40.0	70.0	70.0	70.0	70.0	30.0	30.0	30.0	30.0
150	80.0	16.7	16.7	8.8	70.0	70.0	70.0	70.0	30.0	30.0	26.7	26.7
200	51.0	16.7	16.7		70.0	70.0	70.0	40.0	30.0	30.0	26.7	26.7
250					70.0	68.3	43.3	40.0	30.0	26.7	26.7	23.0
300					70.0	51.0	36.0	15.0	30.0	26.7	26.7	23.0
350					36.0	36.0	26.0	3.5	30.0	26.7	26.7	16.0
400					36.0	28.0	18.0		30.0	26.7	23.0	16.0
430					12.5	12.5	12.5		26.5	26.7	23.0	15.8
500									22.5	26.7	16.0	15.8
600									16.7	16.7	16.0	6.6
650									16.7	16.7	8.0	2.5

[For Vertical Installation]

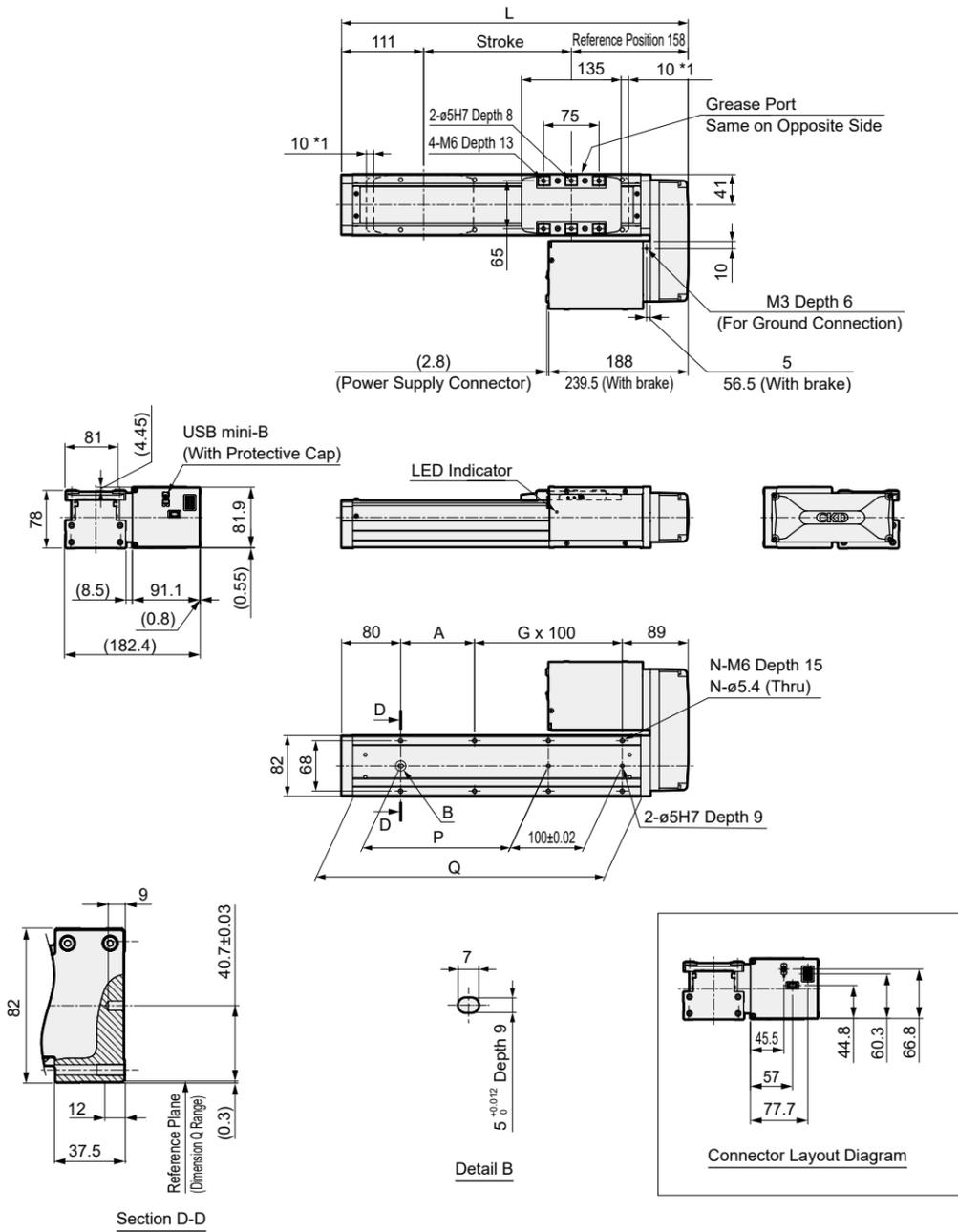
Speed (mm/s)	Screw Lead(mm)					
	5		10		20	
	Acceleration/Deceleration (G)					
	0.3	0.5	0.3	0.5	0.3	0.5
6	33.3	33.3				
12	33.3	33.3	21.7	21.7		
25	33.3	33.3	21.7	21.7	3.3	3.3
50	33.3	33.3	21.7	21.7	3.3	3.3
100	16.7	16.7	21.7	12.1	3.3	3.3
150	8.3	8.3	20.8	12.1	3.3	3.3
200	3.3	3.3	12.5	12.1	3.3	3.3
230			12.0	11.7	3.3	3.3
250			12.0	11.7	3.3	3.3
300			5.4	2.1	3.3	3.3
350			2.1	2.1	3.3	3.3
400			0.8		3.3	3.3
500					3.3	3.3
600					0.8	0.8
650					0.8	0.8

Pressing Force



* The Pressing Force values above are for reference only. They may vary depending on conditions such as the pushing speed.

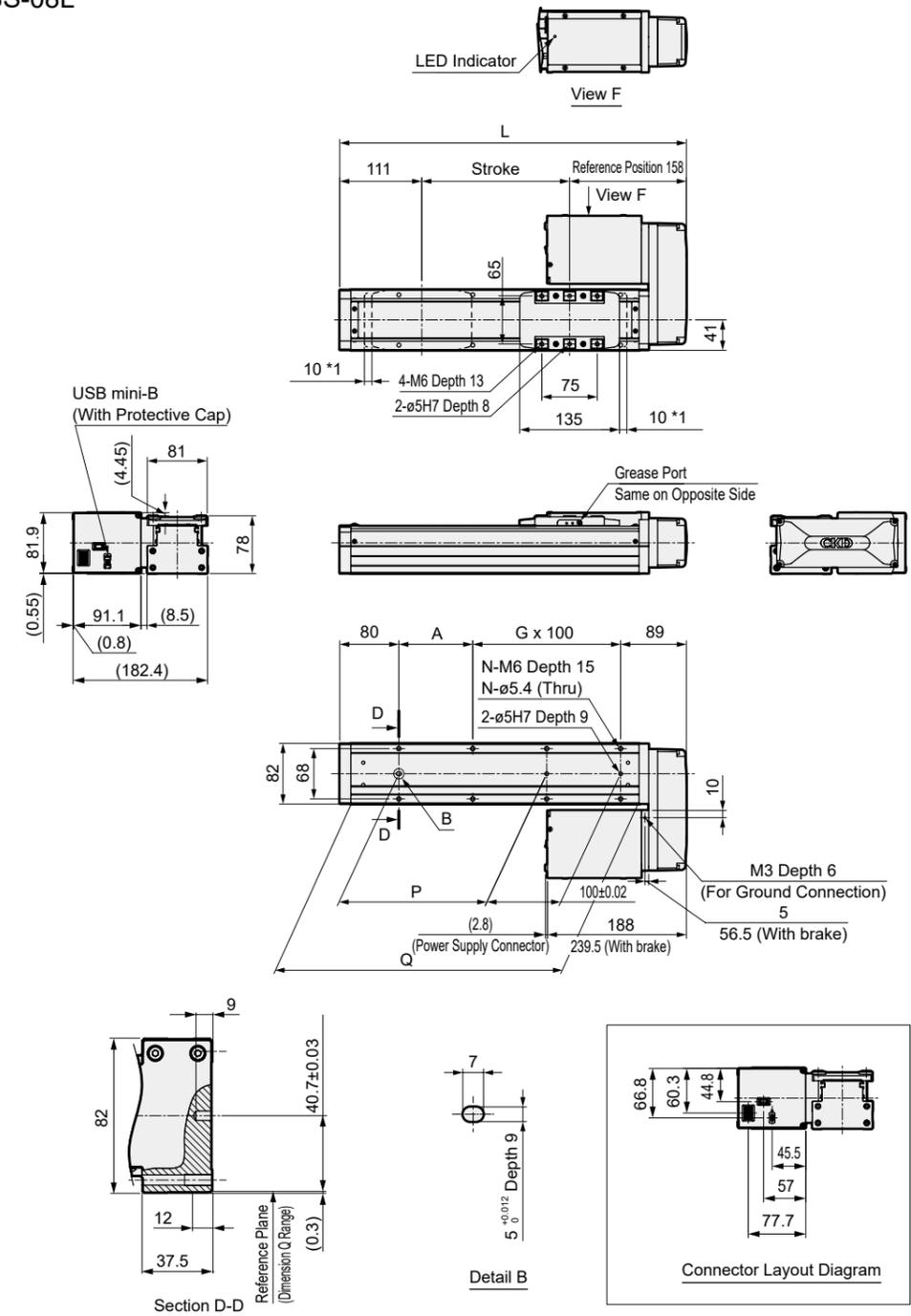
• LRXE-BS-08R



*1: Operating range to the mechanical stopper

Stroke Code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700	0750	0800	
Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	
L	319	369	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069	
A	150	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	
G	0	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	
N	4	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	
Q	240	290	340	390	440	490	540	590	640	690	740	790	840	890	940	990	
Weight (kg)	Without brake	6.2	6.5	6.9	7.2	7.5	7.9	8.2	8.5	8.9	9.2	9.5	9.9	10.2	10.5	10.9	11.2
	With brake	7.2	7.6	7.9	8.2	8.6	8.9	9.2	9.6	9.9	10.2	10.6	10.9	11.2	11.6	11.9	12.3

• LRXE-BS-08L



*1: Operating range to the mechanical stopper

Stroke Code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700	0750	0800	
Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	
L	319	369	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069	
A	150	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	
G	0	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	
N	4	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	
Q	240	290	340	390	440	490	540	590	640	690	740	790	840	890	940	990	
Weight (kg)	Without brake	6.2	6.5	6.9	7.2	7.5	7.9	8.2	8.5	8.9	9.2	9.5	9.9	10.2	10.5	10.9	11.2
	With brake	7.2	7.6	7.9	8.2	8.6	8.9	9.2	9.6	9.9	10.2	10.6	10.9	11.2	11.6	11.9	12.3

Model Selection

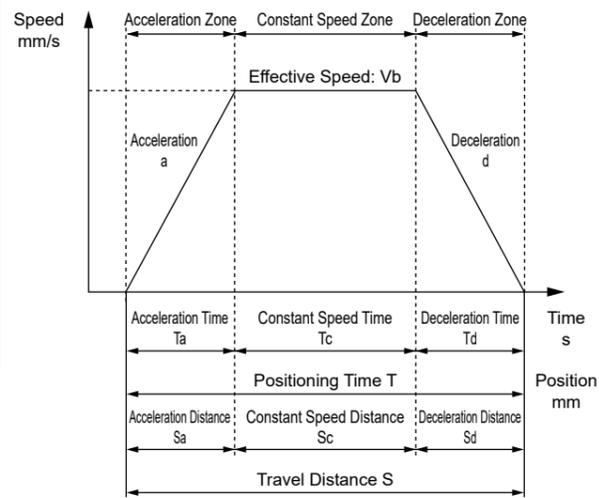
STEP1 Check Payload Capacity

Payload capacity changes depending on the mounting orientation, screw lead, transport speed, and acceleration/deceleration. Select the size and screw lead by referring to the System Table (P. 4), the specifications table for each model, and the payload capacity table by speed and acceleration/deceleration.

STEP2 Check Positioning Time

Calculate the positioning time for the selected product according to the example below, and check if it meets the required cycle time.

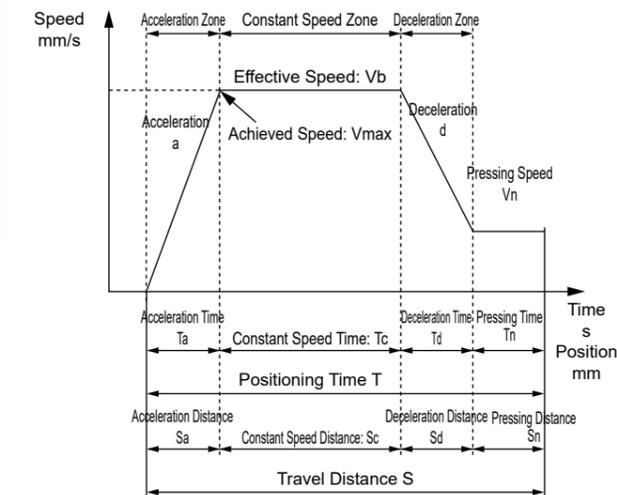
Positioning Time for General Transport Operation



	Contents	Code	Unit	Remarks
Set Value	Set Speed	V	mm/s	
	Set Acceleration	a	mm/s ²	
	Set Deceleration	d	mm/s ²	
	Travel Distance	S	mm	
Calculated Value	Achieved Speed	Vmax	mm/s	$= \{2 \times a \times d \times S / (a + d)\}^{1/2}$
	Effective Speed	Vb	mm/s	The smaller of V and Vmax
	Acceleration Time	Ta	s	$=Vb/a$
	Deceleration Time	Td	s	$=Vb/d$
	Constant Speed Time	Tc	s	$=Sc/Vb$
	Acceleration Distance	Sa	mm	$=(a \times Ta^2)/2$
	Deceleration Distance	Sd	mm	$=(d \times Td^2)/2$
	Constant Speed Distance	Sc	mm	$=S - (Sa + Sd)$
Positioning Time	T	s	$=Ta + Tc + Td$	

- * Do not use at speeds exceeding the specifications.
- * Depending on the acceleration/deceleration and stroke, a trapezoidal velocity profile may not be formed (the set speed may not be reached). In that case, for the effective speed (Vb), choose the lesser of the set speed (V) and the achieved speed (Vmax).
- * Acceleration and deceleration vary depending on the product and operating conditions. For details, please refer to the specifications page for each model.
- * Settling time varies depending on operating conditions but may take approximately 0.2 s.
- * 1 G ≈ 9.8 m/s².

Positioning Time for Pushing Operation



	Contents	Code	Unit	Remarks
Set Value	Set Speed	V	mm/s	
	Set Acceleration	a	mm/s ²	
	Set Deceleration	d	mm/s ²	
	Travel Distance	S	mm	
	Pressing Speed	Vn	mm/s	
Calculated Value	Achieved Speed	Vmax	mm/s	$= \{2 \times a \times d \times (S - Sn + Vn^2 / 2d) / (a + d)\}^{1/2}$
	Effective Speed	Vb	mm/s	The smaller of V and Vmax
	Acceleration Time	Ta	s	$=Vb/a$
	Deceleration Time	Td	s	$=(Vb - Vn)/d$
	Constant Speed Time	Tc	s	$=Sc/Vb$
	Pressing Time	Tn	s	$=Sn/Vn$
	Acceleration Distance	Sa	mm	$=(a \times Ta^2)/2$
	Deceleration Distance	Sd	mm	$=(Vb + Vn) \times Td / 2$
	Constant Speed Distance	Sc	mm	$=S - (Sa + Sd + Sn)$
Positioning Time	T	s	$=Ta + Tc + Td + Tn$	

- * Do not use at speeds exceeding the specifications.
- * The pressing speed varies by product.
- * Depending on the acceleration/deceleration and stroke In that case
- * Acceleration/deceleration varies depending on the product and operating conditions. For details, refer to the specifications page for each model.
- * Settling time varies depending on operating conditions but may take approximately 0.2 s.
- * 1 G ≈ 9.8 m/s².

STEP3 Check Allowable Overhang Length

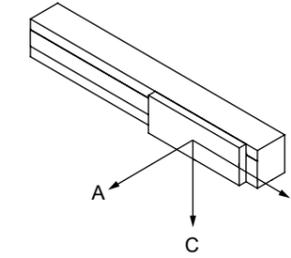
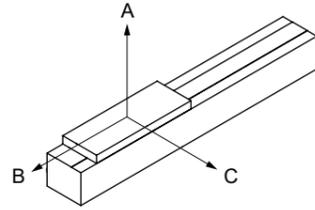
Confirm that the overhang length of the load during operation is within the allowable range (P. 36-38). For details on selection, please contact our sales representative.

Allowable Overhang Length (LRXE Series)

Allowable Overhang Length (LRXE Series)

[For Horizontal Installation]

[Wall Mounting]



[Allowable Overhang Length]

[Allowable Overhang Length]

• LRXE-BS-04□

Motor Mounting	Acceleration/Deceleration G	Screw Lead	Load Weight kg	Max. Speed mm/s	Overhang (mm)		
					A	B	C
Inline	0.3	6	10	450	390	70	90
			15	400	270	45	55
			20	400	185	30	40
		12	5	800	480	130	135
			10	700	245	60	65
			15	400	270	45	55
	1.0	6	9	400	205	80	90
			12	350	160	60	70
			16	100	295	60	85
		12	1	850	800	680	615
			3	700	415	230	220
			5	700	230	135	120

• LRXE-BS-05□

Motor Mounting	Acceleration/Deceleration G	Screw Lead	Load Weight kg	Max. Speed mm/s	Overhang (mm)		
					A	B	C
Inline	0.3	5	20	375	345	55	65
			30	350	220	30	40
			40	350	140	20	25
			6	700	745	180	195
		10	15	600	300	65	75
			27	400	215	35	40
			6	1100	495	160	145
			13	600	355	80	90
		20	18	200	735	70	95
			20	250	205	55	70
			13	600	355	80	90
			18	200	735	70	95
	1.0	5	20	250	205	55	70
			30	200	160	35	45
			40	100	125	30	45
			10	500	240	110	115
		10	15	100	560	105	145
			20	100	385	75	105
			2	1000	730	510	405
			5	700	385	220	200
		20	7	100	1000	205	285

• LRXE-BS-08□

Motor Mounting	Acceleration/Deceleration G	Screw Lead	Load Weight kg	Max. Speed mm/s	Overhang (mm)		
					A	B	C
Inline	0.3	5	40	200	1000	95	155
			60	200	635	60	95
			80	150	450	40	65
			30	400	715	115	165
		10	50	300	515	65	100
			70	300	340	40	65
			10	650	1000	335	420
			20	650	645	160	195
		20	30	400	575	110	150
			40	150	580	105	165
			60	100	370	70	115
			80	100	235	50	80
	1.0	5	30	250	465	125	180
			50	150	450	80	130
			70	150	295	55	85
			10	500	600	335	340
		10	20	300	480	180	235
			30	100	915	160	260

• LRXE-BS-04□

Motor Mounting	Acceleration/Deceleration G	Screw Lead	Load Weight kg	Max. Speed mm/s	Overhang (mm)		
					A	B	C
Inline	0.3	6	5	450	160	120	760
			10	450	55	40	290
			15	400	20	15	155
		12	5	800	105	95	390
			10	700	35	30	145
			15	400	20	15	155
	1.0	6	9	400	60	50	170
			12	350	40	30	125
			16	100	45	30	325
		12	1	850	595	645	800
			3	700	200	200	385
			5	700	100	100	200

• LRXE-BS-05□

Motor Mounting	Acceleration/Deceleration G	Screw Lead	Load Weight kg	Max. Speed mm/s	Overhang (mm)		
					A	B	C
Inline	0.3	5	5	375	280	215	1000
			10	375	110	85	650
			20	375	25	15	190
			6	700	160	140	630
		10	10	600	80	70	370
			15	600	35	30	170
			6	1100	110	110	380
			13	600	50	40	235
		20	18	200	50	35	580
			5	375	260	215	675
			10	300	110	90	360
			20	250	30	20	150
	1.0	5	15	100	100	70	615
			20	100	55	40	440
			2	1000	380	465	700
			5	700	175	180	350
		10	7	100	240	170	1000

• LRXE-BS-08□

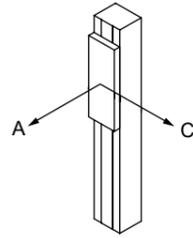
Motor Mounting	Acceleration/Deceleration G	Screw Lead	Load Weight kg	Max. Speed mm/s	Overhang (mm)		
					A	B	C
Inline	0.3	5	40	200	105	65	880
			60	200	45	25	480
			80	150	15	10	240
			30	400	120	80	600
		10	50	300	55	35	380
			70	300	15	10	165
			10	650	380	295	1000
			20	650	155	120	540
		20	30	400	105	75	460
			40	150	120	75	535
			50	150	80	50	400
			80	100	30	20	305
	1.0	5	30	250	140	90	425
			50	150	80	50	400
			70	150	35	20	235
			10	500	315	295	570
		10	20	300	195	145	445
			30	100	210	125	1000

* Value is based on an actuator running life of 5,000 km.
 * Load is for a single overhang direction only.
 * Dimensions A, B, and C are from the center of the top table surface.
 * Values are for a stroke of 350 mm at the maximum speed for each respective payload capacity.
 * Values may differ depending on the motor mounting direction.
 * For acceleration/deceleration and payload capacity, please refer to the payload capacity table by speed and acceleration/deceleration (on the specifications page for each model).

* Value is based on an actuator running life of 5,000 km.
 * Load is for a single overhang direction only.
 * Dimensions A, B, and C are from the center of the top table surface.
 * Values are for a stroke of 350 mm at the maximum speed for each respective payload capacity.
 * Values may differ depending on the motor mounting direction.
 * For acceleration/deceleration and payload capacity, please refer to the payload capacity table by speed and acceleration/deceleration (on the specifications page for each model).

Allowable Overhang Length (LRXE Series)

[For Vertical Installation]



[Allowable Overhang Length]

• LRXE-BS-04□

Motor Mounting	Acceleration / Deceleration G	Screw Lead	Load Weight kg	Max. Speed mm/s	Overhang (mm)	
					A	C
Inline	0.3	6	3	300	240	235
			6	250	100	100
			7	200	60	60
	12	1	600	690	635	
		2	600	325	300	
		3	500	215	200	
0.5	6	3	300	240	235	
		6	200	100	100	
		7	200	60	60	
	12	1	600	680	625	
		2	600	320	295	
		3	500	210	200	

• LRXE-BS-05□

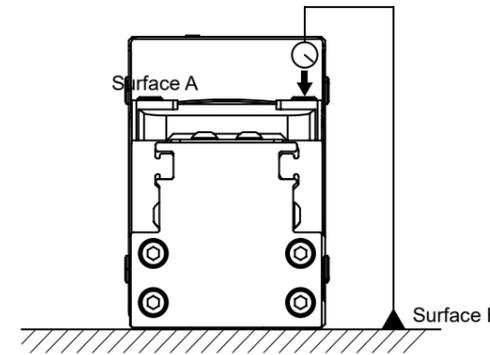
Motor Mounting	Acceleration / Deceleration G	Screw Lead	Load Weight kg	Max. Speed mm/s	Overhang (mm)	
					A	C
Inline	0.3	5	6	300	175	170
			10	250	90	90
			14	100	75	75
		10	2	500	565	535
			4	400	275	265
			7	300	145	140
	20	0.5	900	1000	1000	
		1	800	1000	895	
		2.5	400	470	450	
		0.5	6	300	175	170
			10	150	90	85
			14	100	75	75
10	2	400	590	570		
	4	300	290	280		
	7	300	145	140		
20	0.5	900	1000	1000		
	1	800	985	870		
	2.5	400	465	445		

• LRXE-BS-08□

Motor Mounting	Acceleration / Deceleration G	Screw Lead	Load Weight kg	Max. Speed mm/s	Overhang (mm)	
					A	C
Inline	0.3	5	15	150	270	265
			30	50	135	135
			43	50	80	80
		10	13	200	265	265
			20	150	185	185
			28	50	150	150
	20	0.8	600	1000	1000	
		2	500	1000	1000	
		3	300	1000	1000	
		0.5	15	150	270	265
			30	50	135	135
			43	50	80	80
10	12	250	290	290		
	20	50	230	230		
	28	50	150	150		
20	0.8	600	1000	1000		
	2	500	1000	1000		
	3	300	1000	1000		

- * Value is based on an actuator running life of 5,000 km.
- * Load is for a single overhang direction only.
- * Dimensions A, B, and C are from the center of the top table surface.
- * Values are for a stroke of 350 mm at the maximum speed for each respective payload capacity.
- * Values may differ depending on the motor mounting direction.
- * For acceleration/deceleration and payload capacity, please refer to the payload capacity table by speed and acceleration/deceleration (on the specifications page for each model).

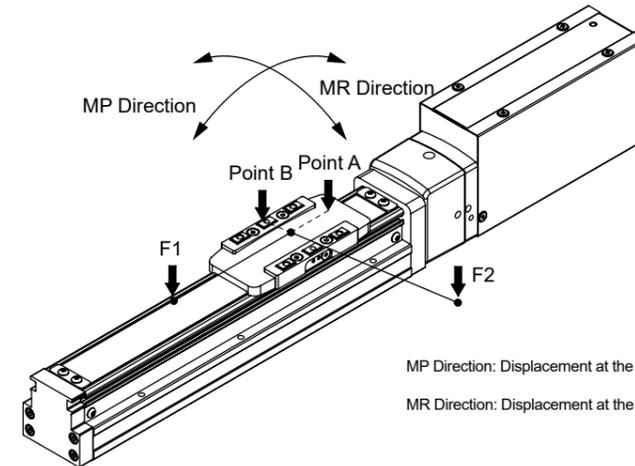
Slider Parallelism (Reference Value)



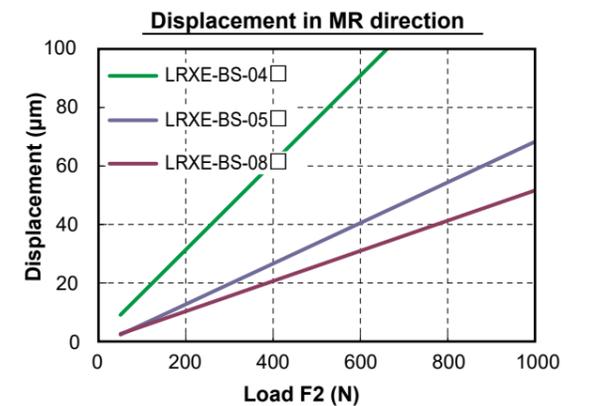
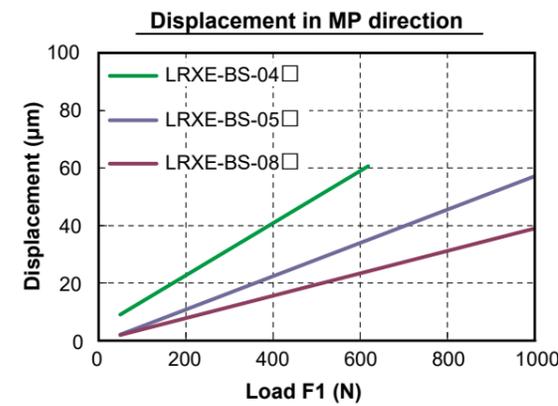
	Parallelism Surface A with respect to Surface B
LRXE-BS-04 Series	0.03
LRXE-BS-05 Series	
LRXE-BS-08 Series	

* Parallelism when the product is fixed to a surface plate.

Table Displacement (Reference Value)



MP Direction: Displacement at the table edge (Point A) when a load (F1) is applied at a position 100 mm from the table center.
MR Direction: Displacement at the table edge (Point B) when a load (F2) is applied at a position 100 mm from the table center.



Maintenance Parts

■ Maintenance Parts / Motor Mounting Direction: Right-, Bottom-, Left-side Reverse Parallel (Timing Belt)

Model Number	Applicable Models
	
EJSG-04R-BELT	LRXE-BS-04R/L
EJSG-05R-BELT	LRXE-BS-05R/L
EJSG-08R-BELT	LRXE-BS-08R/L

■ Maintenance Parts (Steel Belt)

Model Number	Applicable Models
	
EJSG-04-STEELBELT (4-digit stroke code)	LRXE-BS-04 (Applicable Stroke Product)
EJSG-05-STEELBELT (4-digit stroke code)	LRXE-BS-05 (Applicable Stroke Product)
EJSG-08-STEELBELT (4-digit stroke code)	LRXE-BS-08 (Applicable Stroke Product)

MEMO

LRXE

LRXG

Built-in Controller

Precautions

Model Selection Check Sheet

LRXE

LRXG

Built-in Controller

Precautions

Model Selection Check Sheet

LRXG-STG

Electric Actuator with
Built-in Controller

Guided Type



CONTENTS

Product Introduction	Opening Section
● Specifications/Model No. Notation/Dimensions	
● LRXG-STG-M-20	44
● LRXG-STG-M-32	46
● LRXG-STG-M-50	48
● Model Selection	
⚠ Precautions for Use	62
Model Selection Checklist	67

LRXG-STG System Chart

Actuator Model No.	Motor Size	Screw Lead (mm)	Max. Payload (kg)		Stroke (mm) and Max. Speed (mm/s)					Max. Pressing Force (N)
			Horizontal	Vertical	20	25	50	75	100	
LRXG-STG-M-20	□35	6	4.4	6.4	250	250				100
		9	3.2	4	400	400	300			70
LRXG-STG-M-32	□42	6	9	11.6	250					220
		12	4.8	4.8	500					90
LRXG-STG-M-50	□56	6	14.8	19.6	250	200				590
		12	14.8	13.2	400	350				425

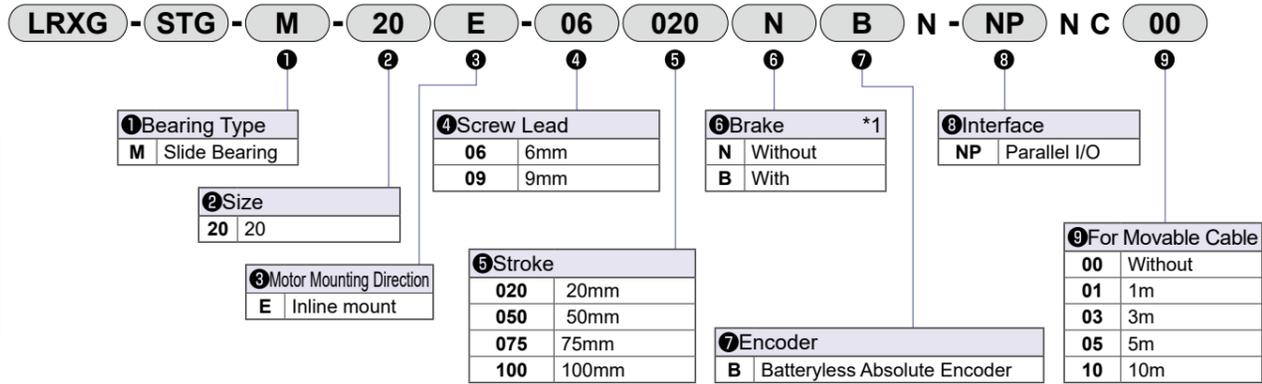


Electric Actuator Guided Type LRXG-STG-M-20

□35 Stepping Motor



Model No. Notation



*1 For vertical use, select "With".

Specifications

Motor	□35 Stepping Motor	
Encoder Type	Batteryless Absolute Encoder	
Driving Method	Slide Screw ø6	
Controller	Built-in	
Stroke	mm 20 to 100	
Screw Lead	mm 6 9	
Max. Payload (kg) *1	Horizontal	4.4 3.2
	Vertical	6.4 4.0
Operating Speed Range	mm/s 10~250 12~400	
Max. Acceleration/ Deceleration G	Horizontal	0.7
	Vertical	0.3
Max. Pressing Force	N 100 70	
Pressing Operation Speed Range	mm/s 10~20 12~20	
Repeatability	mm ±0.02	
Lost Motion	mm 0.3 or less	
Setting Tool	Setting Software (S-Tools) Connection Cable: USB Cable (mini-B)	
External Interface	Parallel I/O Spec.	24 VDC ±10% Max. 4 points each for I/O, Cable length Max. 10 m
Power Supply Voltage	*3	24 VDC ±10%
Current Consumption	Control	A 0.12
	Motive	A 1.8
Brake	Model, Power supply voltage*3	Non-Excitation-Actuated Type, 24 VDC ±10%
	Power Consumption/W Holding Force/N	6.1 140 93
Insulation Resistance	10 MΩ or more at 500 VDC	
Withstand Voltage	500 VAC for 1 minute	
Ambient Temperature and Humidity	0 to 40°C (with no freezing) 35 to 80%RH (with no condensation)	
Storage Ambient Temperature and Humidity	-10 to 50°C (with no freezing) 35 to 80%RH (with no condensation)	
Atmosphere	No corrosive gas, explosive gas, or dust	
Protection Structure	IP20	

*1 Payload capacity varies depending on acceleration/deceleration and speed.
*2 Maximum speed may decrease depending on conditions.
*3 If the cable length exceeds 5 m, the power supply voltage must be 24 VDC ±5%.
*4 Due to backlash, if stopping accuracy is required, please use an external stopper, etc., and complete the positioning with a pushing operation.

Speed and Payload

[For Horizontal Installation] (kg)

Speed (mm/s)	Screw Lead			
	6mm		9mm	
	Acceleration/Deceleration 0.3/0.7 G			
	Stroke (mm)			
	50 or less	100 or less	50 or less	100 or less
10	0.8	0.3		
12	0.8	0.3	1.5	1.1
50	4.4	3.9	3.2	2.0
70	4.4	3.9	3.2	2.7
100	4.4	3.9	3.2	2.7
150	4.4	3.9	3.2	2.7
200	2.0	1.5	3.2	2.7
250	2.0	1.5	2.4	1.9
300			0.4	1.9
350			0.4	
400			0.4	

[For Vertical Installation] (kg)

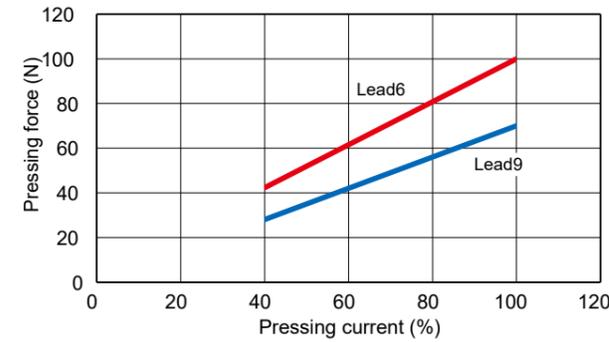
Speed (mm/s)	Screw Lead			
	6mm		9mm	
	Acceleration/Deceleration 0.3 G			
	Stroke (mm)			
	50 or less	100 or less	50 or less	100 or less
10	6.4	5.9		
12	6.4	5.9	4.0	3.5
50	6.4	5.9	4.0	3.5
70	4.0	3.5	4.0	3.5
100	4.0	3.5	4.0	3.5
150	1.6	1.1	3.2	2.7
200	0.8	0.3	3.0	2.7
250			0.8	0.3
300			0.8	0.3
350			0.4	

* Value under the condition that no moment is applied to the end plate section. For details such as the flatness of the mounting surface, please refer to the instruction manual.

LRXG-STG-M-20 Series

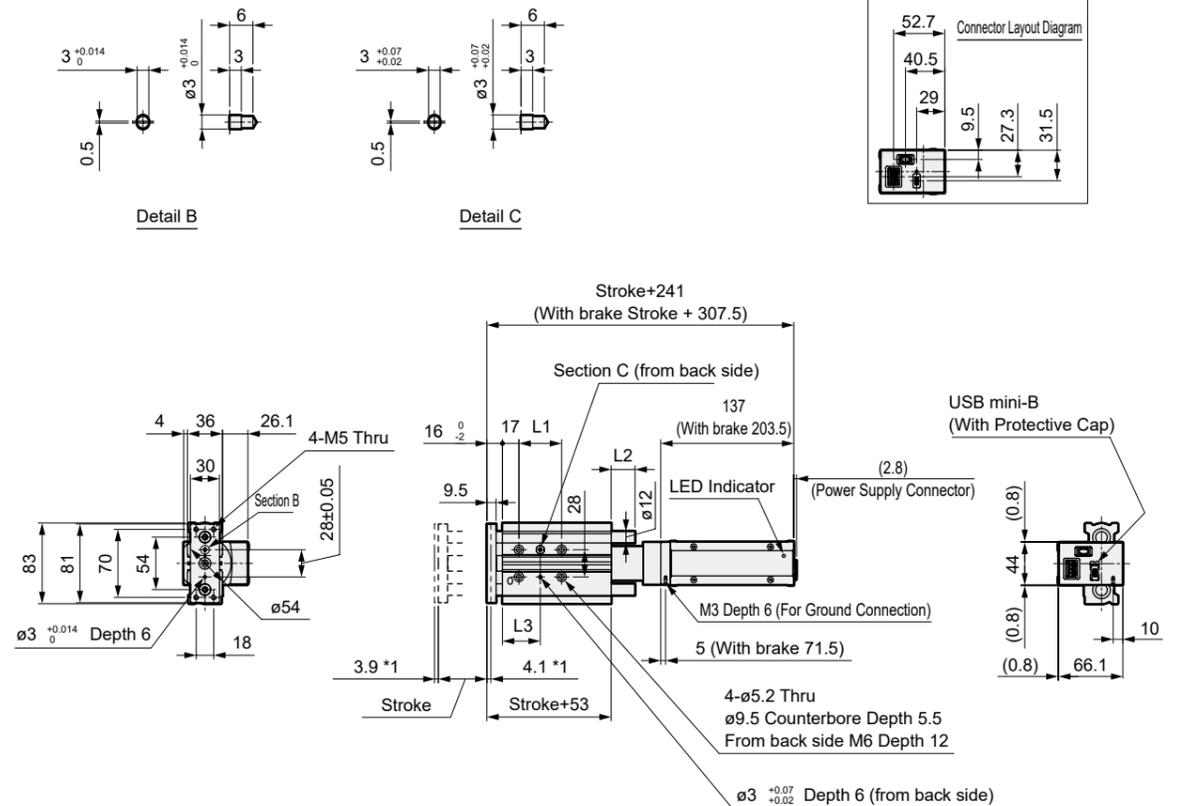
Pressing Force/Dimensions

Pressing Force



* The upper Pressing Force values are for reference only. They may vary depending on conditions such as the pushing speed.

Dimensions



*1: Operating range to the mechanical stopper

Stroke Code	020	050	075	100	
Stroke (mm)	20	50	75	100	
L1	24	44	44	44	
L2	0	0	24.5	24.5	
L3	29	39	39	39	
Weight (kg)	Without brake	1.4	1.6	1.9	2.1
	With brake	1.8	2.1	2.3	2.5

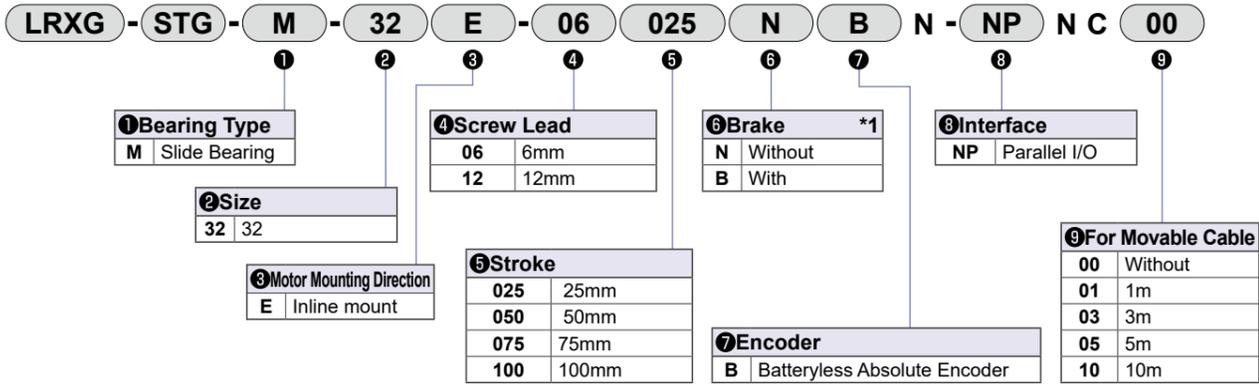


Electric Actuator Guided Type LRXG-STG-M-32

□42 Stepping Motor



Model No. Notation



*1 For vertical use, select "With".

Specifications

Motor	□42 Stepping Motor	
Encoder Type	Batteryless Absolute Encoder	
Driving Method	Slide Screw ø8	
Controller	Built-in	
Stroke	mm 25 to 100	
Screw Lead	mm 6 12	
Max. Payload (kg) *1	Horizontal	9 4.8
	Vertical	11.6 4.8
Operating Speed Range	mm/s 10~250 15~500	
Max. Acceleration/ Deceleration G	Horizontal	0.7
	Vertical	0.3
Max. Pressing Force	N 220 90	
Pressing Operation Speed Range	mm/s 10~20 15~20	
Repeatability	mm ±0.02	
Lost Motion	mm 0.3 or less	
Setting Tool	Setting Software (S-Tools) Connection Cable: USB Cable (mini-B)	
External Interface	Parallel I/O Spec. 24 VDC ±10% Max. 4 points each for I/O, Cable length Max. 10 m	
Power Supply Voltage	*3 24 VDC ±10%	
Current Consumption	Control	A 0.12
	Motive	A 2.0
Brake	Model, Power supply voltage*3	Non-Excitation-Actuated Type, 24 VDC ±10%
	Power Consumption	W 6.1
Holding Force	N	140 70
	N	140 70
Insulation Resistance	10 MΩ or more at 500 VDC	
Withstand Voltage	500 VAC for 1 minute	
Ambient Temperature and Humidity	0 to 40°C (with no freezing) 35 to 80%RH (with no condensation)	
Storage Ambient Temperature and Humidity	-10 to 50°C (with no freezing) 35 to 80%RH (with no condensation)	
Atmosphere	No corrosive gas, explosive gas, or dust	
Protection Structure	IP20	

*1 Payload capacity varies depending on acceleration/deceleration and speed.
 *2 Maximum speed may decrease depending on conditions.
 *3 If the cable length exceeds 5 m, the power supply voltage must be 24 VDC ±5%, the power supply voltage should be 24 V ±5%.
 *4 Due to backlash, if stopping accuracy is required, please use an external stopper, etc., and complete the positioning with a pushing operation.

Speed and Payload

[For Horizontal Installation] (kg)

Speed (mm/s)	Screw Lead			
	6mm		12mm	
	Acceleration/Deceleration 0.3 G/0.7G			
Stroke (mm)	50 or less	100 or less	50 or less	100 or less
	10	1.6	1.1	
15	1.6	1.1	1.2	0.7
50	6.8	6.3	4.8	4.3
70	6.8	6.3	4.8	4.3
100	9.0	8.7	4.8	4.3
150	6.8	6.3	3.6	3.1
200	2.8	2.3	3.6	3.1
250	0.8	0.3	3.6	3.1
300			3.6	3.1
350			1.6	1.1
400			1.6	1.1
500			0.8	0.3

[For Vertical Installation] (kg)

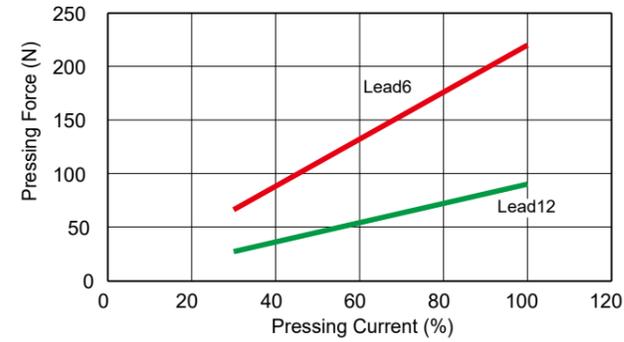
Speed (mm/s)	Screw Lead			
	6mm		12mm	
	Acceleration/Deceleration 0.3 G			
Stroke (mm)	50 or less	100 or less	50 or less	100 or less
	10	8.8	8.3	
15	8.8	8.3	4.4	3.9
50	11.6	11.1	4.8	4.3
70	5.2	4.7	4.8	4.3
100	5.2	4.7	4.8	4.3
150	2.0	1.5	4.8	4.3
200	0.8	0.3	4.5	4.3
250			1.2	0.7
300			1.2	0.7

* This is the value when no moment is applied to the end plate.
 For details such as the flatness of the mounting surface, please refer to the instruction manual.

LRXG-STG-M-32 Series

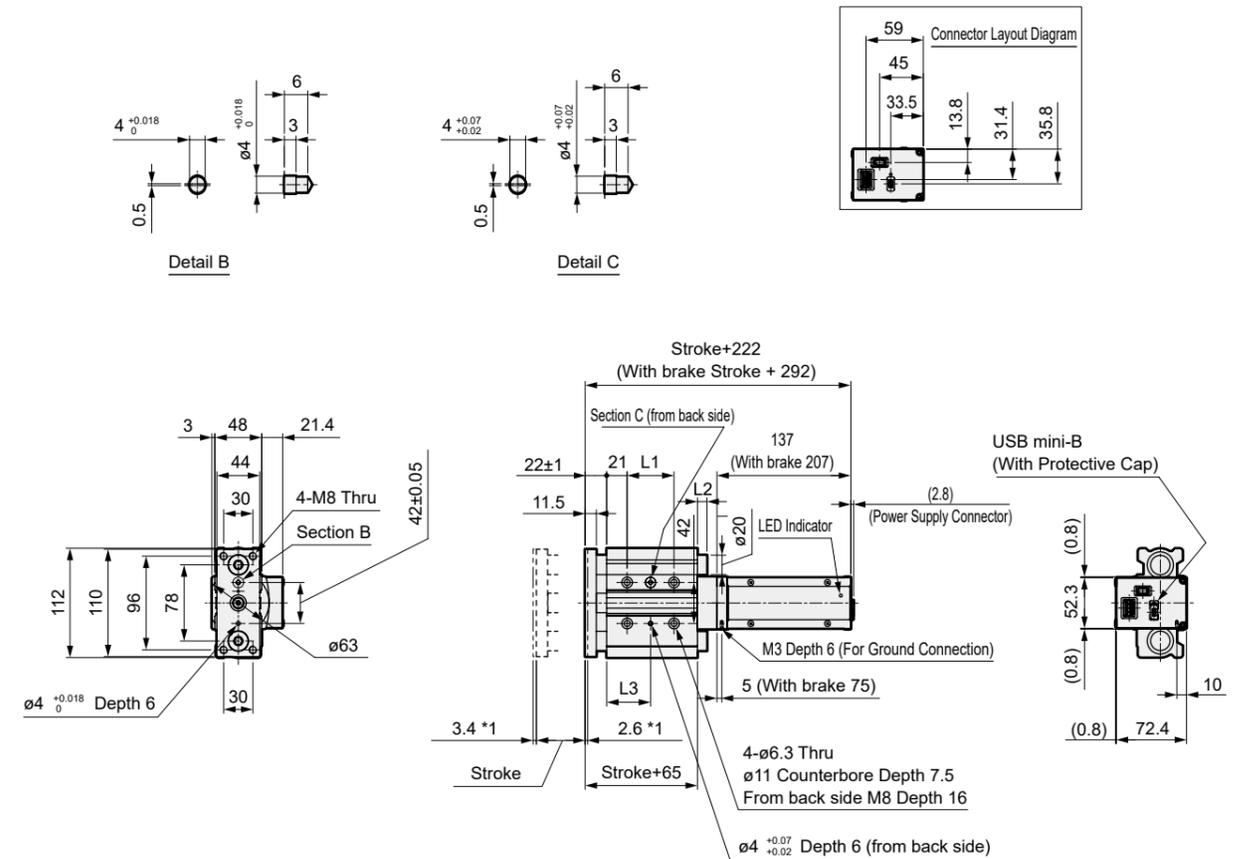
Pressing Force/Dimensions

Pressing Force



* The upper Pressing Force values are for reference only.
 They may vary depending on conditions such as the pushing speed.

Dimensions



*1: Operating range to the mechanical stopper

Stroke Code	025	050	075	100	
Stroke (mm)	25	50	75	100	
L1	24	48	48	48	
L2	13.5	13.5	34.5	34.5	
L3	33	45	45	45	
Weight (kg)	Without brake	2.8	3.2	3.7	4.0
	With brake	3.4	3.8	4.3	4.6

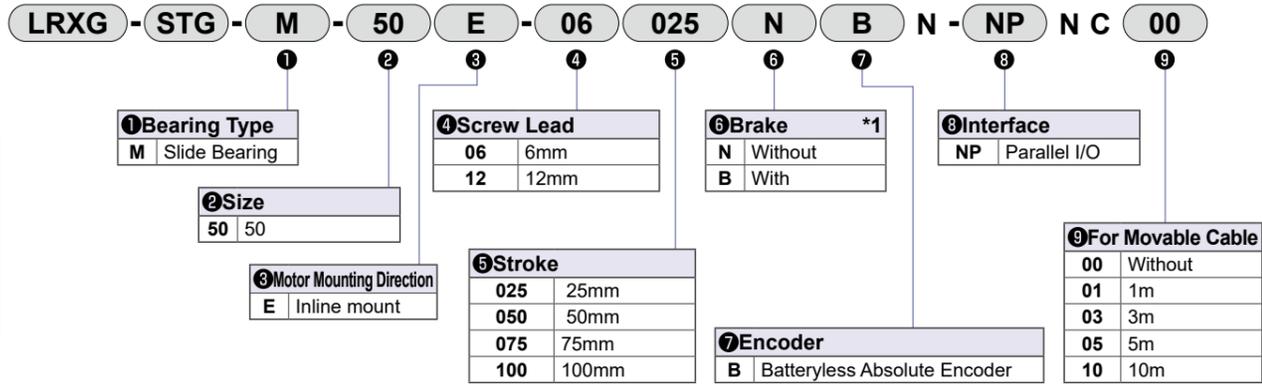


Electric Actuator Guided Type LRXG-STG-M-50

□56 Stepping Motor



Model No. Notation



*1 For vertical use, select "With".

Specifications

Motor	□56 Stepping Motor	
Encoder Type	Batteryless Absolute Encoder	
Driving Method	Slide Screw ø12	
Controller	Built-in	
Stroke	mm 25 to 100	
Screw Lead	mm 6 12	
Max. Payload (kg) *1	Horizontal	Vertical
	14.8	13.2
	19.6	13.2
Operating Speed Range	mm/s 20~250 20~500	
Max. Acceleration/Deceleration G	Horizontal 0.7	
	Vertical 0.3	
Max. Pressing Force	N 590 425	
Pressing Operation Speed Range	mm/s 20	
Repeatability	mm ±0.02	
Lost Motion	mm 0.3 or less	
Setting Tool	Setting Software (S-Tools) Connection Cable: USB Cable (mini-B)	
External Interface	Parallel I/O Spec. 24 VDC ±10% Max. 4 points each for I/O, Cable length Max. 10 m	
Power Supply Voltage *3	24 VDC ±10%	
Current Consumption	Control	Motive
	A 0.12	A 3.1
Brake	Model, Power supply voltage*3 Non-Excitation-Actuated Type, 24 VDC ±10%	
	Power Consumption	W 7.2
	Holding Force	N 640 320
Insulation Resistance	10 MΩ or more at 500 VDC	
Withstand Voltage	500 VAC for 1 minute	
Ambient Temperature and Humidity	0 to 40°C (with no freezing) 35 to 80%RH (with no condensation)	
Storage Ambient Temperature and Humidity	-10 to 50°C (with no freezing) 35 to 80%RH (with no condensation)	
Atmosphere	No corrosive gas, explosive gas, or dust	
Protection Structure	IP20	

*1 Payload capacity varies depending on acceleration/deceleration and speed.
 *2 Maximum speed may decrease depending on conditions.
 *3 If the cable length exceeds 5 m, the power supply voltage must be 24 VDC ±5%, the power supply voltage should be 24 V ±5%.
 *4 Due to backlash, if stopping accuracy is required, please use an external stopper, etc., and complete the positioning with a pushing operation.

Speed and Payload

[For Horizontal Installation] (kg)

Speed (mm/s)	Screw Lead			
	6mm		12mm	
	Acceleration/Deceleration 0.3 G/0.7G			
	Stroke (mm)			
	50 or less	100 or less	50 or less	100 or less
20	14.8	12.8	4.4	2.4
50	9.6	7.6	9.6	7.6
70	9.6	7.6	9.6	7.6
100	9.6	7.6	14.8	12.8
150	6.0	4.0	10.8	8.8
200	4.0	2.0	10.8	8.8
250	0.4		6.0	4.0
300			6.0	4.0
350			2.8	0.8
400			0.7	

[For Vertical Installation] (kg)

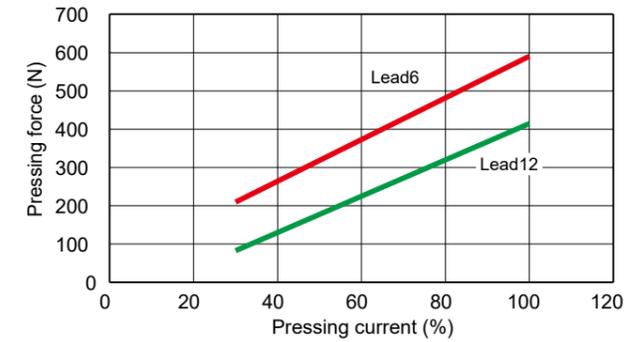
Speed (mm/s)	Screw Lead			
	6mm		12mm	
	Acceleration/Deceleration 0.3 G			
	Stroke (mm)			
	50 or less	100 or less	50 or less	100 or less
20	19.6	18.6	3.6	2.6
50	14.0	13.0	13.2	12.2
70	4.8	3.8	12.0	11.0
100	4.8	3.8	10.5	11.0
150	0.8		4.0	3.0
200			4.0	3.0
250			2.0	1.5
300			0.7	

* Value under the condition that no moment is applied to the end plate section. For details such as the flatness of the mounting surface, please refer to the instruction manual.

LRXG-STG-M-50 Series

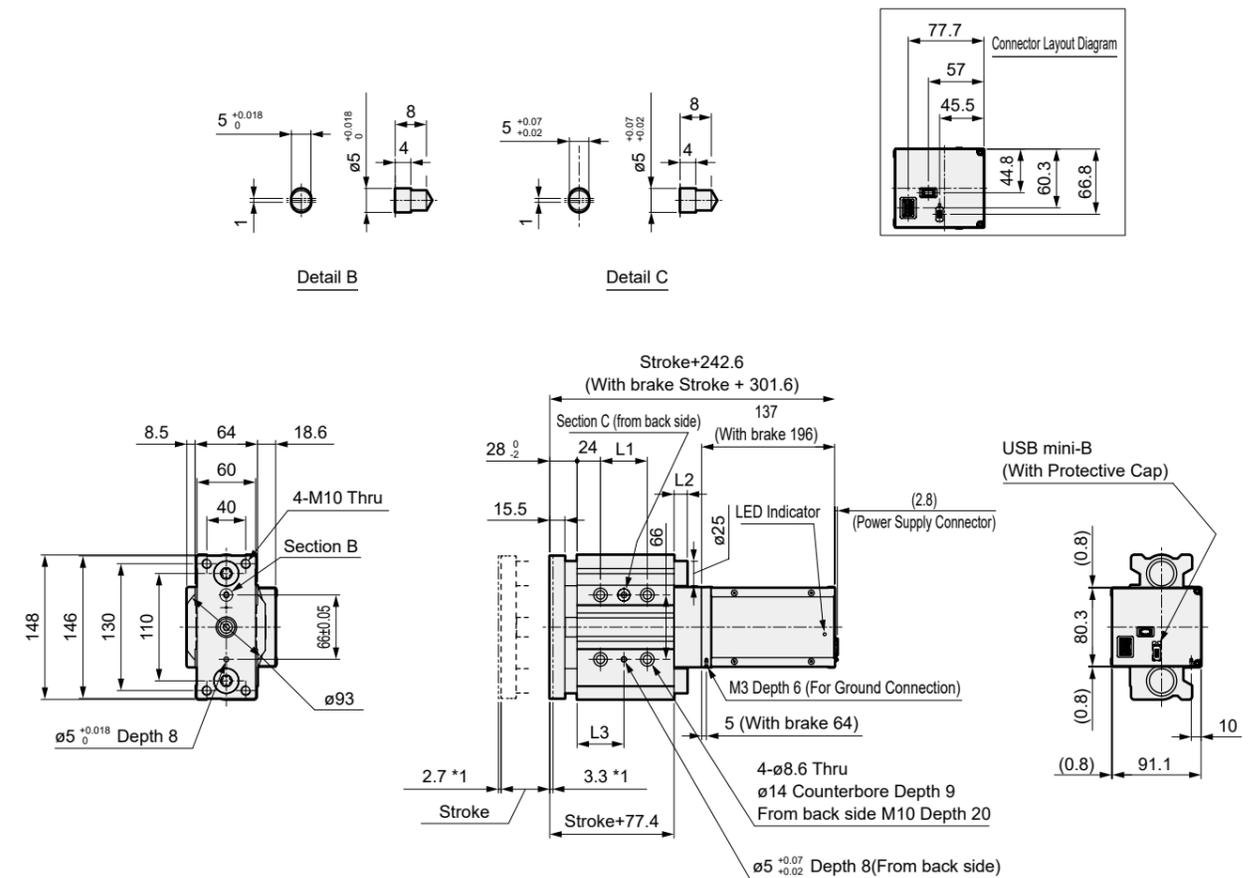
Pressing Force/Dimensions

Pressing Force



* The upper Pressing Force values are for reference only. They may vary depending on conditions such as the pushing speed.

Dimensions



*1: Operating range to the mechanical stopper

Stroke Code	025	050	075	100
Stroke (mm)	25	50	75	100
L1	24	48	48	48
L2	13.1	13.1	38.1	38.1
L3	36	48	48	48
Weight (kg)	Without brake	5.2	5.8	6.6
	With brake	6.5	7.1	7.9

Model Selection

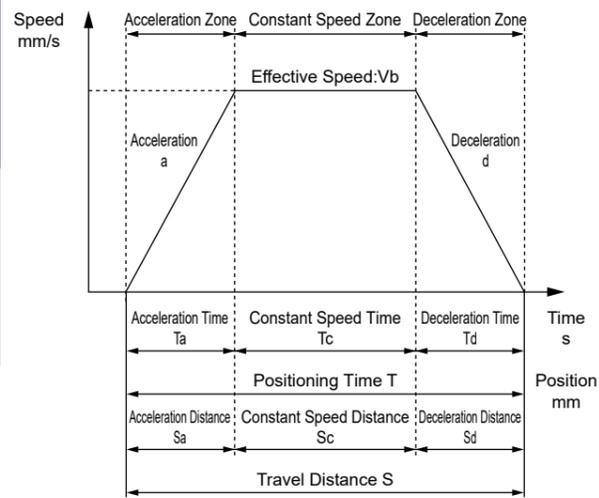
STEP1 Check Payload Capacity

Payload capacity changes depending on the mounting orientation, screw lead, transport speed, and acceleration/deceleration. Select the size and screw lead by referring to the System Table (P. 43), the specifications table for each model, and the payload capacity table by speed and acceleration/deceleration.

STEP2 Check Positioning Time

Calculate the positioning time for the selected product according to the example below, and check if it meets the required cycle time.

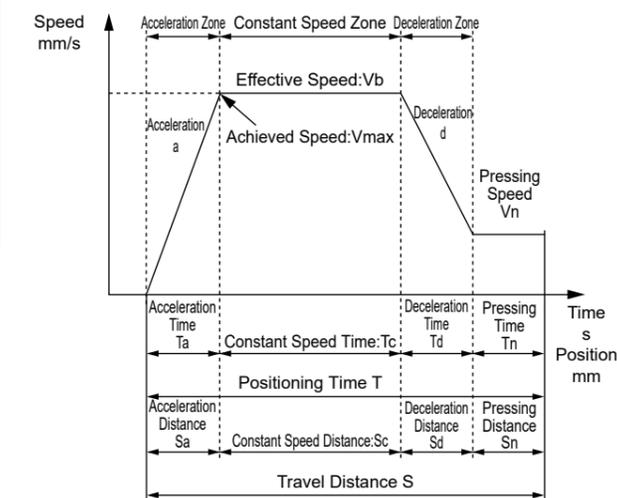
Positioning Time for General Transport Operation



	Contents	Code	Unit	Remarks
Set Value	Set Speed	V	mm/s	
	Set Acceleration	a	mm/s ²	
	Set Deceleration	d	mm/s ²	
	Travel Distance	S	mm	
Calculated Value	Achieved Speed	Vmax	mm/s	$= \{2 \times a \times d \times S / (a + d)\}^{1/2}$
	Effective Speed	Vb	mm/s	The smaller of V and Vmax
	Acceleration Time	Ta	s	$= Vb/a$
	Deceleration Time	Td	s	$= Vb/d$
	Constant Speed Time	Tc	s	$= Sc/Vb$
	Acceleration Distance	Sa	mm	$= (a \times Ta^2) / 2$
	Deceleration Distance	Sd	mm	$= (d \times Td^2) / 2$
	Constant Speed Distance	Sc	mm	$= S - (Sa + Sd)$
	Positioning Time	T	s	$= Ta + Tc + Td$

- * Do not use at speeds exceeding the specifications.
- * Depending on the acceleration/deceleration and stroke, a trapezoidal velocity profile may not be formed (the set speed may not be reached). In that case, for the effective speed (Vb), choose the lesser of the set speed (V) and the achieved speed (Vmax).
- * Acceleration and deceleration vary depending on the product and operating conditions. For details, please refer to P. 44, 46, and 48.
- * Settling time varies depending on operating conditions but may take approximately 0.2 s.
- * 1 G ≈ 9.8 m/s².

Positioning Time for Pushing Operation



	Contents	Code	Unit	Remarks
Set Value	Set Speed	V	mm/s	
	Set Acceleration	a	mm/s ²	
	Set Deceleration	d	mm/s ²	
	Travel Distance	S	mm	
Calculated Value	Achieved Speed	Vmax	mm/s	$= \{2 \times a \times d \times (S - Sn + V^2 / 2 / d) / (a + d)\}^{1/2}$
	Effective Speed	Vb	mm/s	The smaller of V and Vmax
	Acceleration Time	Ta	s	$= Vb/a$
	Deceleration Time	Td	s	$= (Vb - Vn)/d$
	Constant Speed Time	Tc	s	$= Sc/Vb$
	Pressing Time	Tn	s	$= Sn/Vn$
	Acceleration Distance	Sa	mm	$= (a \times Ta^2) / 2$
	Deceleration Distance	Sd	mm	$= ((Vb + Vn) \times Td) / 2$
	Constant Speed Distance	Sc	mm	$= S - (Sa + Sd + Sn)$
	Positioning Time	T	s	$= Ta + Tc + Td + Tn$

- * Do not use at speeds exceeding the specifications.
- * Depending on the acceleration/deceleration and stroke, a trapezoidal velocity profile may not be formed (the set speed may not be reached). In that case, for the effective speed (Vb), choose the lesser of the set speed (V) and the achieved speed (Vmax).
- * Acceleration and deceleration vary depending on the product and operating conditions. For details, please refer to P. 44, 46, and 48.
- * Settling time varies depending on operating conditions but may take approximately 0.2 s.
- * 1 G ≈ 9.8 m/s².

STEP3 Check Static Allowable Load and Static Allowable Moment

Calculate the load and moment generated when the end plate is stopped. Confirm that the lateral load (W) and torsional moment (MY) are as follows. Following the calculation formula below, confirm that the combined moment (MT) satisfies the formula below.

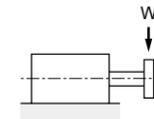
Combined Moment

$$M_T = \frac{MP}{MP_{max}} + \frac{MR}{MR_{max}} \leq 1.0$$

Static Allowable Load/Static Allowable Moment

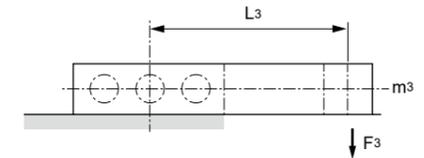
Model Number	Stroke (mm)	Lateral Load W(N)	Bending Moment MPmax (N·m)	Torsional Moment MYmax (N·m)	Lateral Bending Moment MRmax (N·m)
LRXG-STG-M-20	20	67	35.3	0.9	35.3
	50	46		0.62	
	75	60		0.8	
	100	51		0.69	
LRXG-STG-M-32	25	223	171.5	4.35	171.5
	50	180		3.5	
	75	179		3.48	
	100	156		3.04	
LRXG-STG-M-50	25	348	294	9.56	294
	50	296		7.86	
	75	292		8.02	
	100	257		7.07	

• Lateral Load W (N)



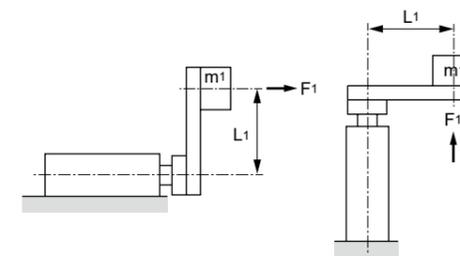
• Torsional Moment MY (N·m)

$$MY = F_3 \times L_3 = 10 \times m_3 \times L_3$$



• Bending Moment MP (N·m)

$$MP = F_1 \times L_1 = 10 \times m_1 \times G \times L_1$$



- m1: Load (kg)
- m2: Load (kg)
- m3: Load (kg)
- L1: Offset Distance (m)
- L2: Offset Distance (m)
- L3: Offset Distance (m)
- G: Inertia Force Coefficient

• Lateral Bending Moment MR (N·m)

$$MR = F_2 \times L_2 = 10 \times m_2 \times G \times L_2$$

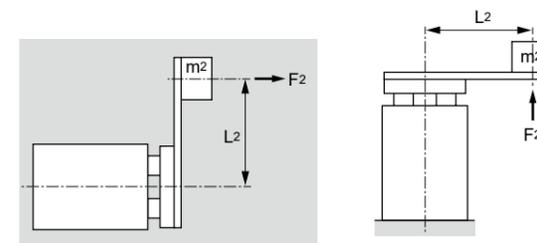
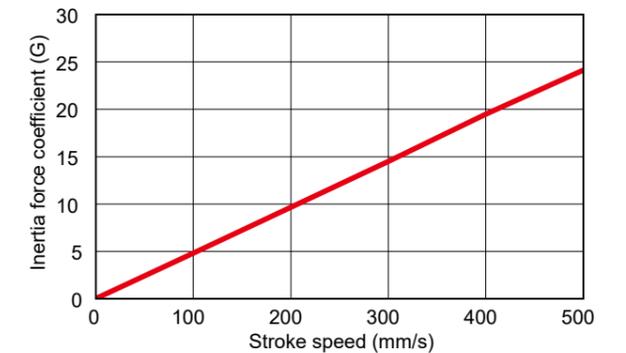


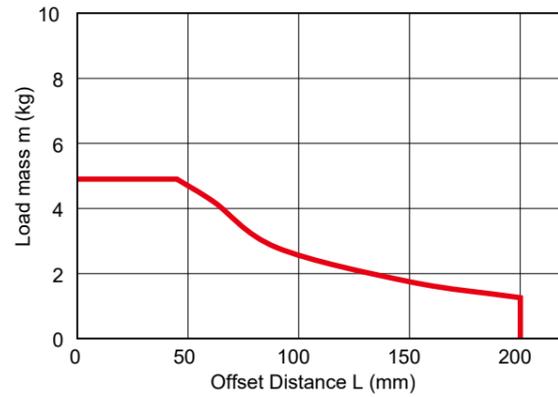
Fig.1 Trend of Inertia Force Coefficient for Guided Type



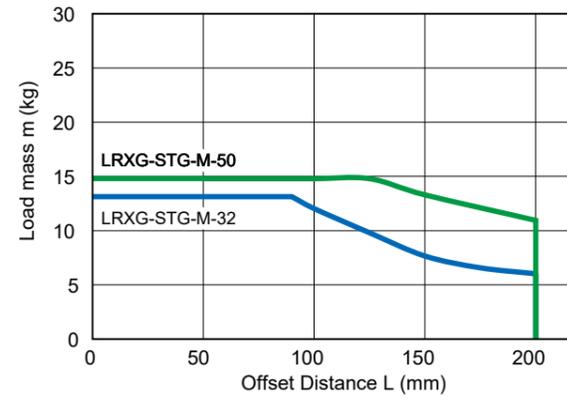
STEP4 Check Allowable Overhang Length

Confirm that the overhang length during operation is within the allowable range.

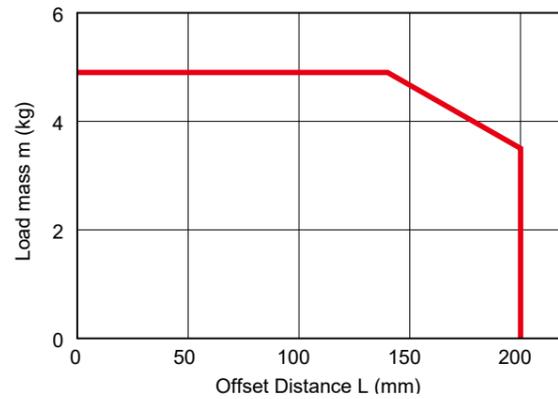
- LRXG-STG-M-20
· Stroke 50 mm or less



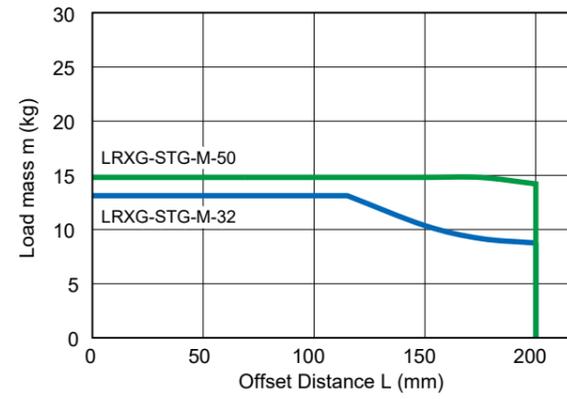
- LRXG-STG-M-32, 50
· Stroke 50 mm or less



- LRXG-STG-M-20
· Stroke exceeds 50 mm

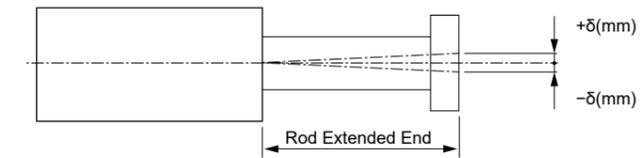


- LRXG-STG-M-32, 50
· Stroke exceeds 50 mm

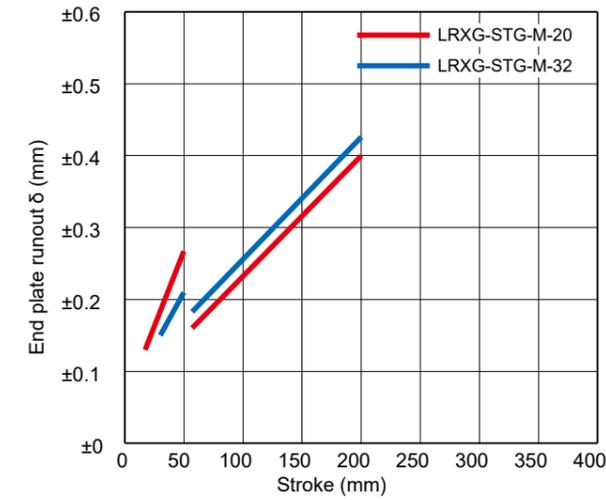


Runout Accuracy

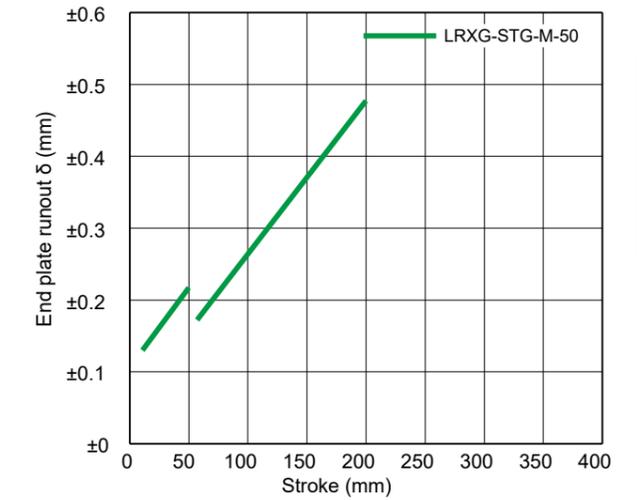
The runout amount δ that occurs at the tip of the end plate under no load can be estimated from the values in the graph below. (Excludes deflection of the guide rod)



- LRXG-STG-M-20, 32

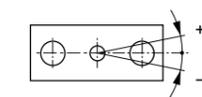


- LRXG-STG-M-50



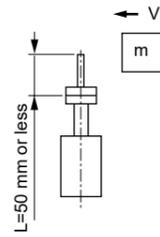
Non-rotating Accuracy

(Reference value)



Size	Non-rotating Accuracy $\theta(^{\circ})$
LRXG-STG-M-20	±0.07
LRXG-STG-M-32	±0.06
LRXG-STG-M-50	±0.05

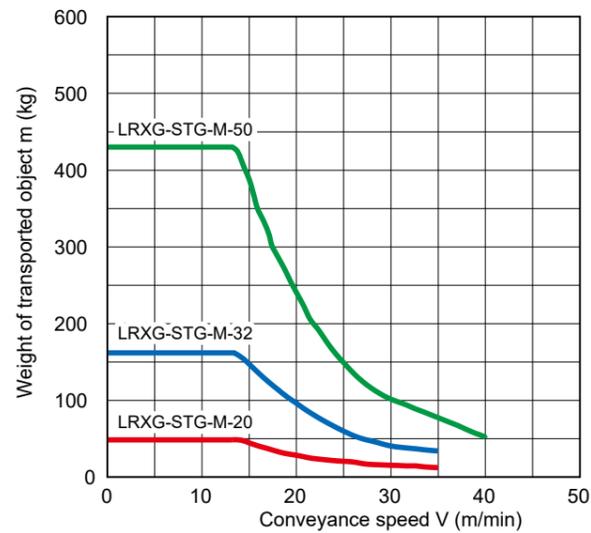
Operating Range When Used as a Stopper



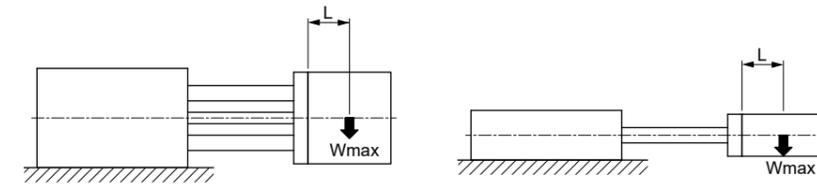
- *1 When using as a stopper, please select a model with a stroke of 50 or less.
- *2 The total length of the stopper section should be $l = 50$ mm or less.
- *3 When securing the actuator body, ensure the bolt screwing depth is $2d$ or more and consider measures to prevent loosening (adhesive, spring washer, etc.).
- *4 For the calculation of the required operating thrust force, please refer to the following.
- *5 Please calculate the actuator thrust force using the formula below.
Thrust Force = Vertical Payload Capacity $\times 10$ (N)

Impact Load

LRXG-STG-M (Slide Bearing)

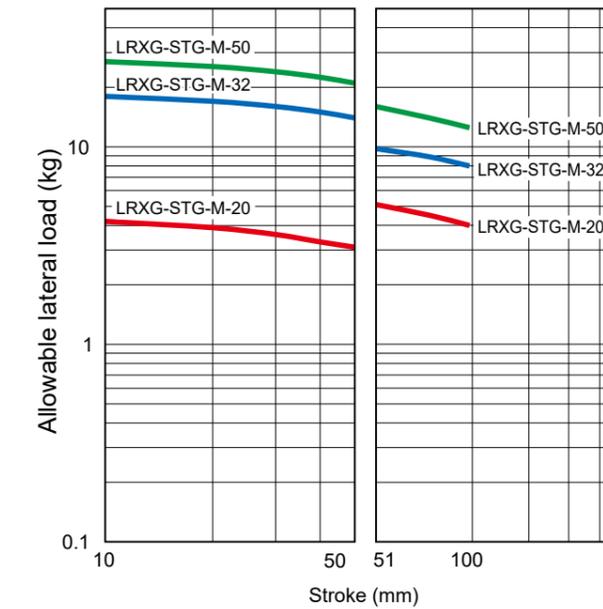


Allowable Lateral Load Slide Bearing

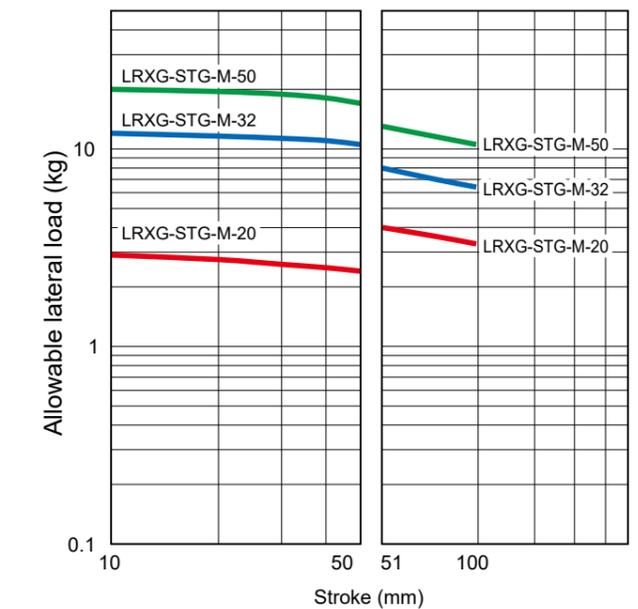


W_{max} : Lateral load (kg)
 L : Center of Gravity of the Load (mm)

• When L = 50 mm



• When L = 100 mm



The required operating thrust force is confirmed, as the thrust force during rod retraction differs depending on the magnitude of the lateral load applied to the rod end.

1. Determine the lateral load (F) applied to the rod end.

$$F = 10 \cdot m \cdot n \cdot \mu_1$$

F: Lateral Load (N)

m: Transported Mass (kg)

n: Quantity of Transported Objects

μ_1 : Coefficient of friction between the transport pallet and the conveyor

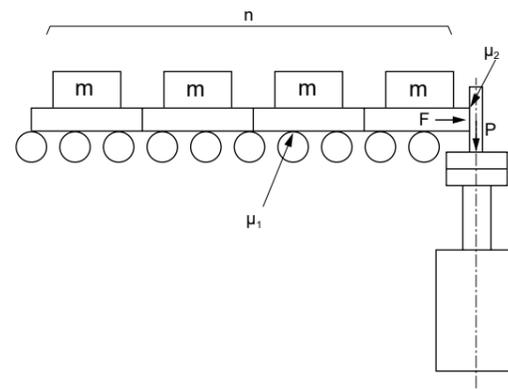
2. Determine the thrust force (P) required for rod retraction.

$$P = F \cdot \mu_2$$

P: Required Thrust Force (N)

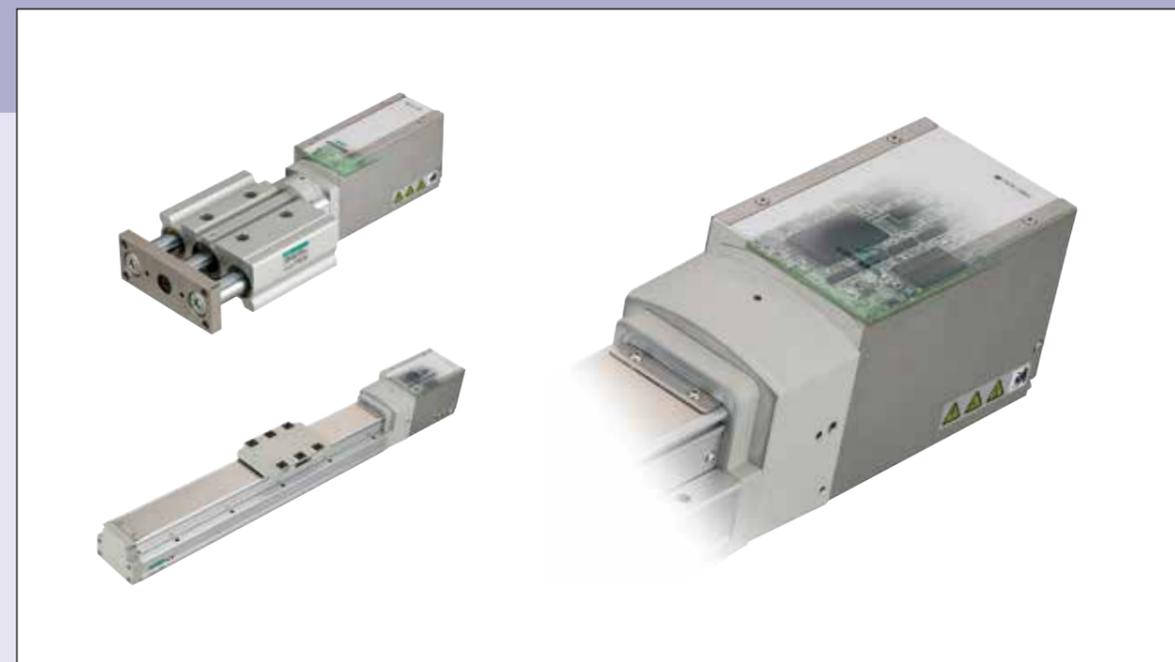
μ_2 : Coefficient of friction between the transported object and the rod

Note) The coefficient of friction differs depending on the material of the transported object, so please refer to the coefficients in the table below.



Material of Transferred Object	Steel	Aluminum	Urethane
μ_2	0.5	0.8	2.0

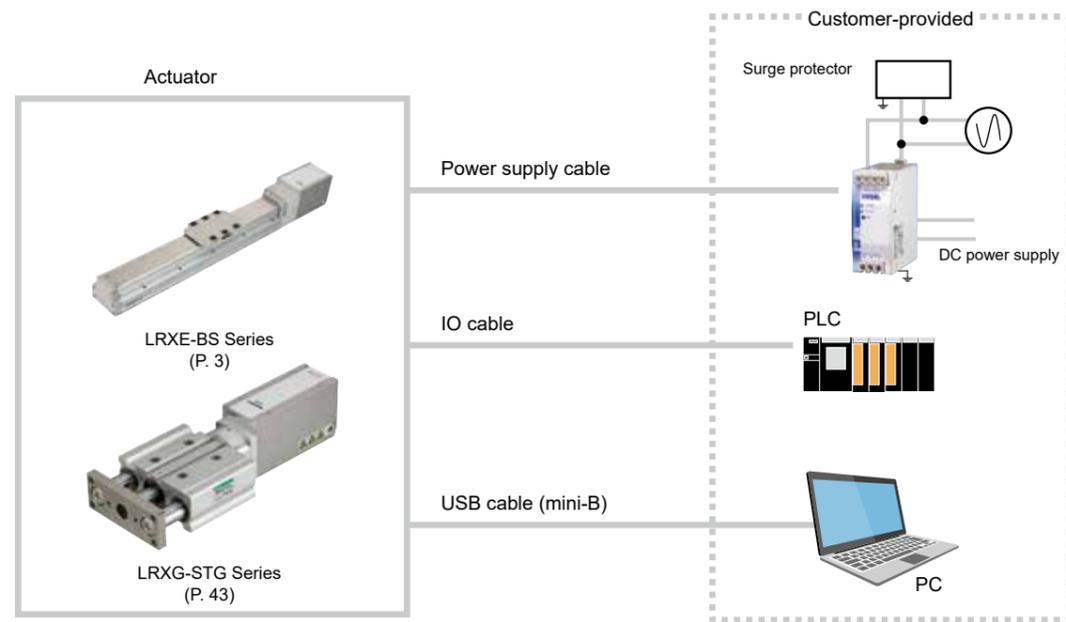
Built-in Controller



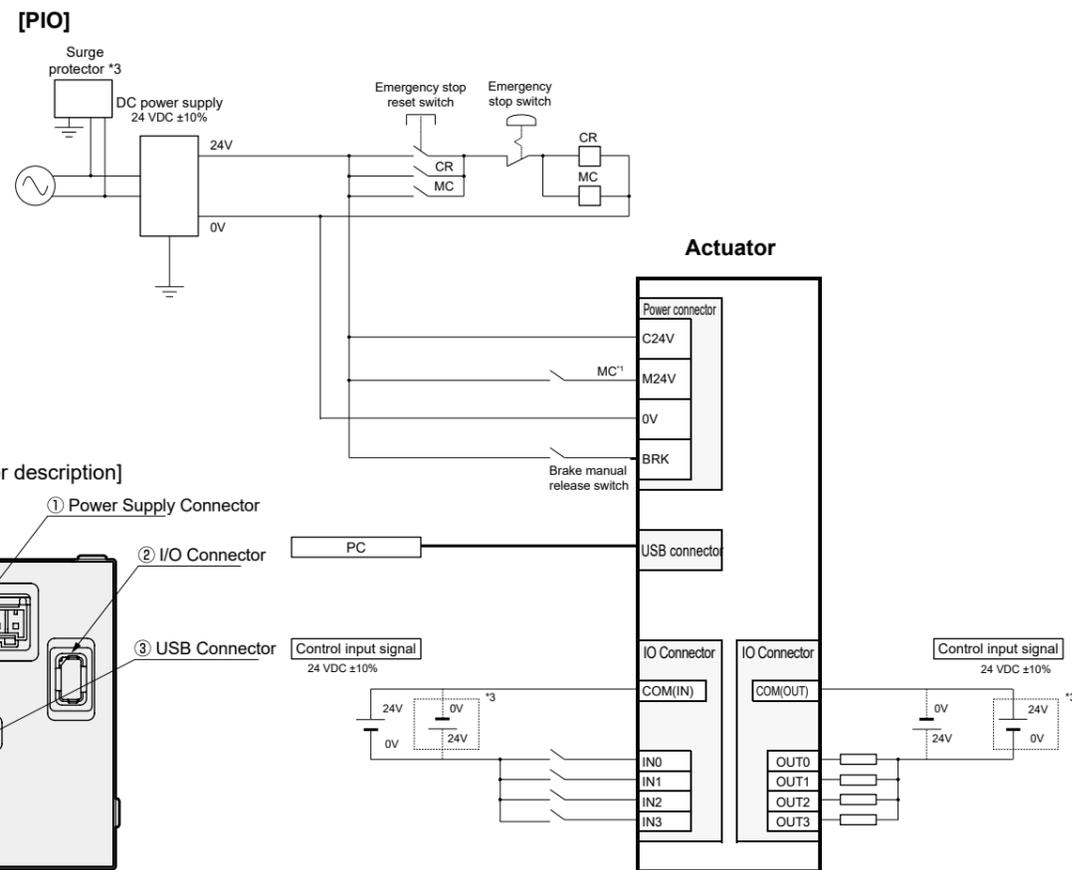
CONTENTS

• System Configuration Diagram	58
• Parallel I/O Connection Diagram	58
• Parallel I/O Input/Output Circuit	59
• Parallel I/O Operation Mode	59
• Power Supply Cable/I/O Cable	60
• Related Parts	61
⚠ Precautions for Use	62

System Configuration Diagram



Parallel I/O (PIO) Connection Diagram



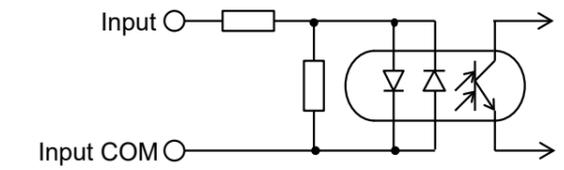
*1: To shut off the motor drive source externally, for compliance with safety categories for instance, connect the contacts of an electromagnetic switch, etc.
 *2: A surge protector is required for compliance with CE Marking.
 *3: Can be used even if the polarity is reversed.

Parallel I/O (PIO) Input/Output Circuit

Input Specifications

Item	Contents
Number of Input Points	4 points
Input Voltage	24 VDC ±10%
Input Current	4 mA/point
Input Voltage when ON	19 V or more
Input Current when OFF	0.2 mA or less

Input Circuit

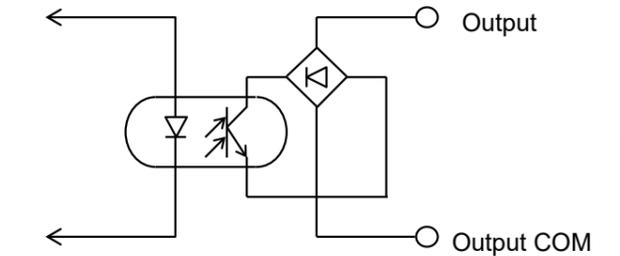


The input is non-polar.
 (Input COM can be used as either + or -)

Output Specifications

Item	Contents
Number of Output Points	4 points
Load Voltage	24 VDC ±10%
Load Current	20 mA or less/point
Internal Voltage Drop when ON	3 V or less
Leakage Current when OFF	0.1 mA or less
Output Short-Circuit Protection Circuit	Yes
Connected Load	PLC, etc.

Output Circuit



The output is non-polar.
 (Output COM can be used as either + or -)

Parallel I/O (PIO) Operation Mode

Operation Mode	Number of Positioning Points	Overview
Simple 3-Point Mode	3 points	· Point number n move complete output · Alarm output
4-Point Mode	4 points	· Point number confirmation bit n · Alarm output
Solenoid Valve Mode Single Type	2 points	· Point number n move complete output · Alarm output

Parallel I/O (PIO) Signal Abbreviation List

Input Signal

Abbreviation	Name	Abbreviation	Name
PST	Point Move Command	PnST	Point Number n Move Command
PSBn	Point Number Selection Bit n	VST	Solenoid Valve Move Command
ALMRST	Alarm Reset		

Output Signal

Abbreviation	Name	Abbreviation	Name
PEND	Point Move Complete	ALM	Alarm
PCBn	Point Number Confirmation Bit n	SWn	Switch n
PnEND	Point Number n Move Complete		

Parallel I/O (PIO) Operation Mode and Signal Assignment

The signal assignment for each operation mode is as shown in the table below.

Operation Mode	Simple 3-Point Mode	4-Point Mode	Solenoid Valve Mode Single Type
Number of Positioning Points	3	4	2
Input	IN0	P1ST	PSB0
	IN1	P2ST	PSB1
	IN2	P3ST	PST
	IN3	ALMRST	ALMRST
Output	OUT0	P1END/SW1	PCB0
	OUT1	P2END/SW2	PCB1
	OUT2	P3END/SW3	PEND
	OUT3	ALM#	ALM#

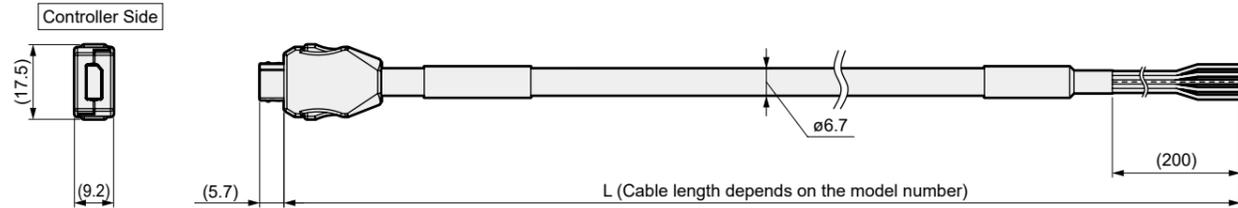
* # is a negative logic signal.

I/O Cable

I/O Cable (Movable)

EA - CBLNP3 - 01

① Cable Length	
01	1m
03	3m
05	5m
10	10m

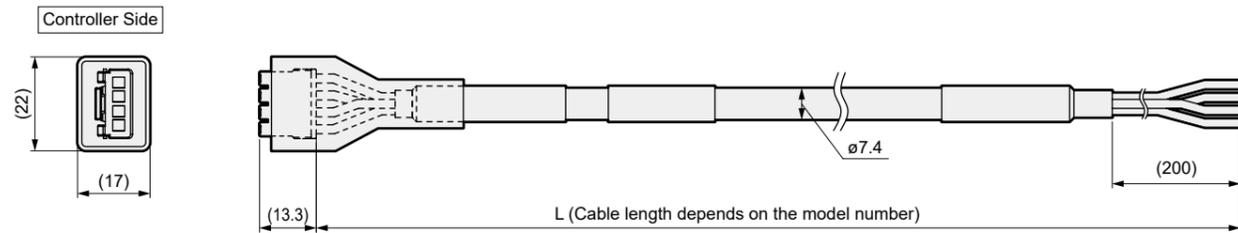


Power Supply Cable

Power Supply Cable (Movable)

EA - CBLP1 - 01

① Cable Length	
01	1m
03	3m
05	5m
10	10m



Motive Power Current Consumption and Max. Current

Current Consumption

Model	Size	Motor Size	Current
LRXE-BS	04	□35	4.0A
	05	□42	4.5A
	08	□56	4.5A
LRXG-STG	20	□35	1.8A
	32	□42	2.0A
	50	□56	3.1A

Max. Current

Model	Size	Motor Size	Current
LRXE-BS	04	□35	13.0A
	05	□42	13.7A
	08	□56	14.1A
LRXG-STG	20	□35	8.1A
	32	□42	6.4A
	50	□56	6.4A

* When using the brake, add the brake current (0.4 A).

Related Parts Model No. Table

Recommended Power Supply

Manufacturer	Model Number *1	Manufacturer Model No.	Input Voltage	Rated Current *2	Output Peak Current *2 *3	Parallel Connection	DIN Rail Compatible
COSEL CO., LTD.	EA-PWR-KHNA240F-24-N2	KHNA240F-24-N2	85-264 VAC	10A	15A	x	x
	EA-PWR-KHNA240F-24	KHNA240F-24	85-264 VAC	10A	15A	x	○

*1 Available for purchase from CKD.

*2 Derating of the output power may be necessary depending on the power supply installation method, ambient temperature, input voltage, etc. For details on the operating conditions of the power supply, please refer to the manufacturer's website.

*3 Be aware of usage restrictions due to peak current, such as duty limitations. For details, please refer to the manufacturer's website.

[Power Supply Specifications]



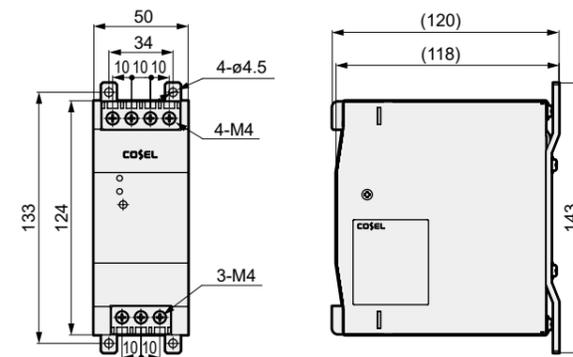
Model Number		EA-PWR-KHNA240F-24-N2 (Screw Mounting) EA-PWR-KHNA240F-24 (DIN Rail Mounting)	
Item			
Manufacturer		COSEL CO., LTD.	
Manufacturer Model No.	Screw Mounting	KHNA240F-24-N2	
	DIN Rail Mounting	KHNA240F-24	
Input Voltage		85 to 264 VAC 1φ or 88 to 370 VDC	
Output	Power	240 W	
	Voltage/Current	24 V/10 A	
	Variable Voltage Range	22.5 to 28.5 V	
Accessory Functions	Overcurrent Protection	Operates at 101% min of peak current	
	Overvoltage Protection	30.0 to 36.0 V	
	Remote Control	Possible	
	Remote Sensing	-	
	Other	DC_OK indicator, ALARM indicator	
Operating Temperature/Humidity		-25 to +70°C, 20 to 90%RH (no condensation), -40°C start-up possible *	
Applicable Standards	Safety Standards	AC Input	UL60950-1, C-UL(CSA60950-1), EN62368-1
		DC Input	UL508, ANSI / ISA12.12.01, ATEX certified, Electrical Appliance and Material Safety Law compliant *
	Conducted Emission		FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B compliant
	Harmonic Current		IEC61000-3-2 (Class A) compliant *
Structure	Dimensions (W x H x D)		50 x 124 x 117 mm
	Weight		900 g max
	Cooling Method		Natural Air Cooling

* For details, please refer to the manufacturer's website.

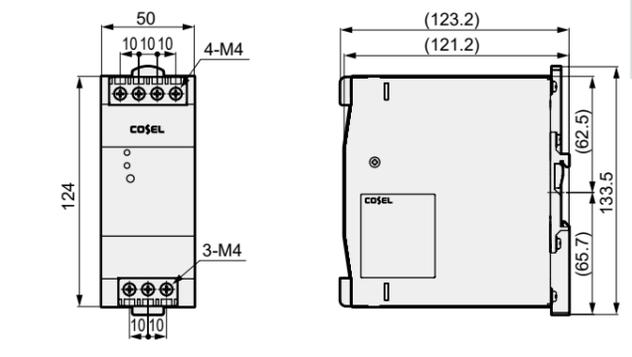
* CE Marking and RoHS compliance are obtained under the manufacturer's model number.

[Dimensions]

EA-PWR-KHNA240F-24-N2 (For 24 V, Screw Mounting)



EA-PWR-KHNA240F-24 (For 24 V, DIN Rail Mounting)



Other Parts

Product Name	Model Number
Noise Filter for Power Supply (Single-phase, 15 A)	AX-NSF-NF2015A-OD

* Regarding the ferrite core to be used, please refer to the instruction manual.

LRXE
LRXG
Built-in Controller

Precautions
Model Selection Check Sheet

LRXE
LRXG
Built-in Controller

Precautions
Model Selection Check Sheet



To Use This Product Safely

Please be sure to read this before use.

When designing equipment that uses electric actuators, you have an obligation to check that the safety of the system operated by the equipment's mechanical mechanism and the controlling electrical system can be ensured, and to manufacture safe equipment. To use our products safely, it is important to select and use them correctly, handle them properly, and perform appropriate maintenance. To ensure the safety of the equipment, be sure to observe the warnings and Precautions for Use. In addition, please check that safety can be ensured in the equipment and manufacture safe equipment.

WARNING

1 This product is designed and manufactured as a component for general industrial machinery. Therefore, it should be handled by a person with sufficient knowledge and experience.

2 Use the product within its specification range.

Use outside of the product's specific specifications is not possible. Also, never modify or perform additional machining on the product. This product is intended for use in general industrial machinery equipment and parts, so it is not applicable for outdoor use or for use under the conditions or in the environments shown below. (However, this applies if you consult with us before adoption and agree to our product specifications. In the unlikely event of a failure, please take safety measures to avoid danger.)

① Use in applications where safety is required, such as nuclear power, railways, aviation, marine vessels, vehicles, medical equipment, equipment that comes into direct contact with food and beverages, amusement equipment, emergency operation (shut-off, release, etc.) circuits, press machines, brake circuits, and safety measures.

② Use in applications where a significant impact on people or property is expected and where special safety is required.

3 Regarding safety related to equipment design, be sure to comply with organizational standards, regulations, etc.

4 Never remove the equipment until safety has been confirmed.

① Before inspecting or servicing machinery and equipment, confirm that safety has been ensured for all systems related to this product.

② Even when operation is stopped, there may be hot or electrically charged parts. Please proceed with caution.

③ When inspecting or servicing equipment, turn off the power to the device and the relevant facilities, and be careful to avoid electric shock.

5 To prevent accidents, be sure to observe the instruction manual and Precautions for Use for each product.

① During teaching operations or trial runs, the actuator may move unexpectedly. Be very careful not to put your hands near the actuator. If operating from a position where the shaft body is not visible, always confirm that it is safe for the actuator to move before operating.

6 To prevent electric shock, be sure to observe the Precautions for Use.

① Do not touch the heat sink, cement resistors, or motor inside the controller.

It is hot and can cause burns. Please allow sufficient time to pass before performing inspections or other work.

② Before maintenance or inspection, turn off the switch at the controller's power source before starting work. There is a risk of electric shock from high voltage.

③ Do not attach or detach connectors while the power is on. There is a risk of malfunction, failure, or electric shock.

7 Install an overcurrent protection device.

Wiring to the driver should be done in accordance with JIS B 9960-1:2019 (IEC 60204-1:2016) Safety of machinery - Electrical equipment of machines - Part 1: General requirements. Install overcurrent protection devices (molded case circuit breakers, circuit protectors, etc.) for the main power, control power, and I/O power supplies.

(Reference: JIS B 9960-1 7.2.1 General description)

If the circuit current may exceed the lesser of the rated value of the components or the allowable current of the conductor, overcurrent protection must be provided. Details on the selected rated value or set value are specified in 7.2.10.

8 To prevent accidents, be sure to observe the following Precautions for Use.

■ In the Precautions for Use shown here, the safety precaution ranks are distinguished as "DANGER," "WARNING," and "CAUTION."

DANGER: Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
(DANGER)

WARNING: Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
(WARNING)

CAUTION: Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury or property damage.
(CAUTION)

Note that even items listed under "CAUTION" may lead to serious consequences depending on the situation. All of these are important, so please be sure to follow them.

Warranty

1 Warranty Period

The warranty period for this product is one year after delivery to your specified location.

2 Scope of Warranty

If a failure clearly attributable to our company occurs during the above warranty period, we will provide a replacement for this product, necessary replacement parts free of charge, or repair it at our factory free of charge. However, cases corresponding to the following items are excluded from the scope of this warranty.

① Handling or use under conditions or in environments other than those described in the catalog, specifications, and instruction manual

② When durability (number of cycles, distance, time, etc.) is exceeded, and for reasons related to consumable parts

③ When the cause of the failure is due to reasons other than the product itself

④ Use for purposes other than the original use of the product

⑤ When the cause is modification or repair not involving our company

⑥ In cases arising from circumstances that could not be foreseen with the technology available at the time of delivery

⑦ In cases due to causes for which our company is not responsible, such as natural disasters

Note that the warranty here pertains to the delivered product alone, and damages induced by a defect in the delivered product are excluded.

* For durability and consumable parts, please contact your nearest sales office.

3 Confirmation of Suitability

Please confirm the suitability of our product for the system, machine, or device you will be using at your own responsibility.

4 Scope of Services

The price of the delivered product does not include service fees for dispatching engineers. In the following cases, a separate fee will be charged.

(1) Guidance on installation and adjustment, and attendance at trial runs

(2) Maintenance inspections, adjustments, and repairs

(3) Technical guidance and training (operation, programming, wiring methods, safety education, etc.)

Precautions for Export

About the products and related technologies published in this catalog

For products or related technologies described in this catalog that are subject to the regulations of the U.S. Export Administration Regulations (EAR), an indication of EAR-subject items is provided on the product page. If you export or provide products or related technology subject to EAR regulations, please comply with the U.S. Export Administration Regulations (EAR).



To ensure the safe use of this product

Please read carefully before use.

Specific Precautions: Electric Actuator with Built-in Controller, LRX Series

During Design and Selection

⚠ DANGER

- Do not use in locations where hazardous materials such as ignitable, flammable, or explosive substances are present. Doing so may cause ignition, fire, or explosion.
- Ensure that the product is not exposed to water droplets, oil droplets, etc. This can cause fire or malfunction.

- When mounting the product, be sure to hold and secure it (including the workpiece) firmly. Tipping, dropping, or abnormal operation of the product can cause injury. As a general rule, secure the product using all mounting holes.

- Be sure to use a regulated DC power supply (24 VDC \pm 10%) for the motor and control power. Direct connection to an AC power supply will cause fire, bursting, or damage. If the cable length exceeds 5 m, please use 24 VDC \pm 5%.

⚠ WARNING

- Use the product within its specified range.
- Install a safety guard fence to prevent entry into the movable range of the electric actuator. Also, in preparation for emergencies, install an emergency stop push-button switch for the equipment in an easily accessible location. The emergency stop push-button must not reset automatically and should be structured and wired so that it cannot be reset inadvertently by a person.
- When an emergency stop is performed, it may take several seconds for the actuator to stop, depending on the speed of movement and the mounted load.
- Design a safety circuit or device to prevent equipment damage or personal injury in the event that the machine stops due to a system abnormality such as an emergency stop or power failure.
- Mount indoors in a location with low humidity. In locations exposed to rainwater or high humidity (over 80% humidity, or where condensation occurs), there is a risk of electrical leakage or fire. Exposure to oil droplets and oil mist is also strictly prohibited. Use in such environments will cause damage or malfunction.
- The product must be D-type grounded (ground resistance of 100 Ω or less). In the event of an electrical leakage, there is a risk of electric shock or malfunction.
- If using the actuator in an orientation other than horizontal or wall-mounted, select the model with a brake. Without a brake, when the servo is OFF (including during an emergency stop or alarm) or when the power is OFF, the movable part may fall, posing a risk of injury or damage to the workpiece.

- The brake cannot completely hold the actuator in all situations. When performing maintenance on applications that move an unbalanced load, or when stopping the machine for an extended period, always ensure a balanced state or install a mechanical locking mechanism to ensure safety.
- When the actuator is installed vertically, do not shut off the control power while the workpiece is being held by the servo ON state. Turn off the control power while the position is held by the brake. The workpiece may fall under its own weight, posing a risk of product damage.
- When using the actuator in a vertical orientation, position the motor on the upper side whenever possible. If the motor is positioned on the lower side, there is no issue during normal operation, but during long periods of stoppage, grease may separate and flow into the motor, which in rare cases can cause problems.
- Use and store the product within the specified temperature range and in a condensation-free state. Storage temp.: -10°C to 50°C, Storage humidity: 35% to 80%, Operating temp.: LRXE = 10 to 40°C, LRXG = 0 to 40°C, Operating humidity: 35% to 80% (This can cause abnormal product stoppage or reduced service life.) Ventilate if heat accumulates.
- Do not use in locations where condensation may occur due to sudden changes in ambient temperature.
- Install in a location free from direct sunlight, dust, nearby heat sources, corrosive gases, explosive gases, flammable gases, and combustible materials. Also, this product has not been designed with chemical resistance in mind. This can cause malfunction, explosion, or fire.
- Use and store in a location free from strong electromagnetic waves, ultraviolet rays, and radiation. This can cause malfunction or failure.
- Consider the possibility of a power source failure. Take measures to ensure that a failure of the power source does not cause harm to personnel or damage to the equipment.
- Consider the operational state when restarting after an emergency stop or abnormal stop. Design the system so that restarting does not cause harm to personnel or damage to the equipment. If it is necessary to reset the electric actuator to a starting position, design a safe control device. Consider the possibility of a failure of the installed motor. Take measures to ensure that a failure of the power source does not cause harm to personnel or damage to the equipment.
- Do not use in locations subject to impact or vibration.
- Do not apply a load to the product that exceeds the allowable values in the selection materials.
- When pushing a workpiece, etc., please use the pushing operation.

- In cases where there is a risk of danger to the human body, install a protective cover. If the driving part of the actuator poses a risk of danger to the human body, install a protective cover. The structure must prevent entry into the actuator's range of motion and direct contact with that area by the human body.
- Take necessary measures in advance to ensure that if this product fails, it does not adversely affect people or property.

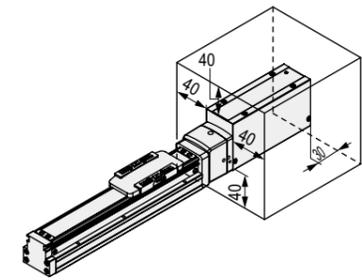
⚠ CAUTION

- Use the product within a range where the moving table and rod do not collide with the stroke end.
- Clearly state the maintenance conditions in the equipment's instruction manual. The function of this product can be significantly degraded, and safety may not be ensured, depending on the usage situation, operating environment, and maintenance. If maintenance is performed correctly, the product's functions can be fully utilized.
- The product is manufactured in accordance with various standards. Never disassemble or modify it.
- The suitability of our product for the system, machine, or equipment to be used by the customer should be confirmed by the customer at their own responsibility.
- Wire in a way that does not induce noise. Avoid locations where large currents or strong magnetic fields are generated. Do not route in the same wiring (e.g., in a multi-core cable) as the power lines for large motors other than this product. Do not route in the same wiring as the inverter power supply or wiring used for robots, etc. Apply a frame ground to the power supply and insert a filter at the output section.
- Do not use in an environment where strong magnetic fields are generated. This can cause malfunction.
- Separate the power supply for the output section of this product from the power supply for inductive loads that generate surges, such as solenoid valves and relays. If the power supply is shared, surge current can flow back into the output section, causing damage. If a separate power supply cannot be used, connect a surge suppressor directly in parallel with every inductive load.
- During power-ON, the actuator performs an origin detection sequence. If an external stopper or holding mechanism (e.g., a brake) is present, the actuator may incorrectly recognize an unintended position as the origin. Please pay attention to the placement of external stoppers to ensure the origin can be reliably detected after power-ON.
- When using the LRXE/LRXG series, do not subject the surface of the motor section to a magnetic field with a magnetic flux density of 0.7 mT or greater. Doing so may cause product damage or malfunction.

LRX Series

Specific Precautions

- When installing multiple LRXE/LRXG series units, separate the motor sections by at least the distance shown in the diagram below. Failure to maintain this distance may cause malfunction.



- When transporting or installing, do not carry the product by its moving parts or cable. Doing so may cause injury or cable damage.
- When transporting and mounting the actuator, hold the main body and ensure that excessive force is not applied to the motor section.
- Ensure that the workpiece attached to the slider does not interfere with the motor section. On some models, the dimensions of the motor section are larger than the height of the slider mounting surface.
- Durability varies depending on factors such as the transport load and environment. Ensure that settings such as the transport load have a sufficient operating margin.
- Do not subject the moving parts to impact.
- Install the product so that it is not subjected to torsional or bending forces.
- Do not use in locations exposed to ultraviolet rays or in atmospheres containing corrosive gases, salt, etc. This may lead to performance degradation, abnormal operation, or reduced strength due to corrosion.
- For the LRXE-BS series (slider type), the flatness of the installation surface must be 0.05 mm / 200 mm or less.
- For the LRXE-BS series (slider type), the flatness of the workpiece mounting surface on the slider must be 0.02 mm or less, and do not subject the product to torsional or bending forces. Doing so may cause product damage or malfunction.
- When using the positioning holes, use pins dimensioned to prevent a press-fit. Using press-fit pins may damage the linear guide due to the press-fitting load or cause reduced accuracy due to distortion. The recommended tolerance for the pins is JIS tolerance m6 or less.
- For the LRXG series (guided type), avoid making dents or scratches on the main body (tube) mounting surface or the end plate surface that could impair flatness. As a guideline, the flatness of the mating surface that attaches to the end plate should be 0.03 mm or less.

For precautions regarding mounting, installation, adjustment, use, and maintenance, please see the Instruction Manual on the CKD Components website (<https://www.ckd.co.jp/kiki/en/>) → "Model No." → [Instruction Manual](#).

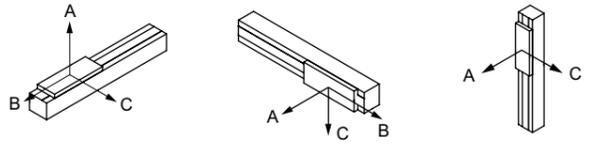
LRXE-BS Model Selection Check Sheet →CKD (To:)

Please fill out this form and send it to your nearest sales office. We will reply with the model selection results.

Customer:

Company Name		Department	
Name		Email	
TEL		FAX	

Selection Conditions:

Desired Model	LRXE-			
Basic Specifications	Max. Stroke:	mm	Ball Screw Lead:	mm
Operating Conditions	Travel Stroke:	mm	Travel Time:	s
	Set Speed:	mm/s		
	Set Acceleration/Deceleration:	mm/s ²	(Set Accel./Decel. Time:	s)
	Repeatability: ±	mm		
Load Conditions	Slider Type			
	Load Weight:	kg		
	Mounting Orientation:	Horizontal/Wall-mounted/Vertical/Ceiling-mounted/		
	Other			
	Distance from slider center to load's center of gravity			
	Direction A:	mm		
	Direction B:	mm		
Direction C:	mm			
Pressing Load:	Without / With (N)			
During Operation / When Stopped				
Direction of force on slider center ()				
Operating Environment	Ambient Temperature:	°C	Ambient Humidity:	%
	Atmosphere:			
Interface Specifications	Parallel I/O			
Special Notes				

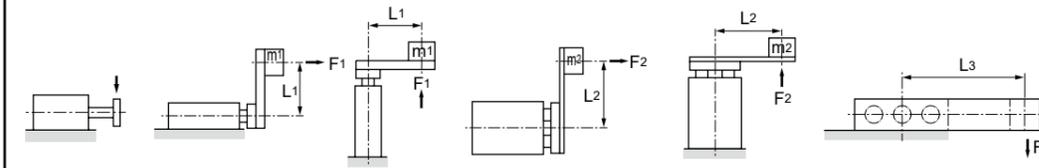
LRXG-STG Model Selection Check Sheet →CKD (To:)

Please fill out this form and send it to your nearest sales office. We will reply with the model selection results.

Customer:

Company Name		Department	
Name		Email	
TEL		FAX	

Selection Conditions:

Desired Model	LRXG				
Basic Specifications	Max. Stroke:	mm	Ball Screw Lead:	mm	
Operating Conditions	Travel Stroke:	mm	Travel Time:	s	
	Set Speed:	mm/s			
	Set Acceleration/Deceleration:	mm/s ²	(Set Accel./Decel. Time:	s)	
	Repeatability: ±	mm			
Load Conditions	Mounting Orientation: Horizontal/Wall-mounted/Vertical/Ceiling-mounted/Other				
	Load Weight:	kg			
	External force applied to the end plate:				
					
	Stopper Use:	Without / With		Pressing Load:	N
	Transferred Mass:	kg		Without / With (
	Transfer Speed:	m/s		During Operation / When Stopped	
Transferred Quantity:	pcs		Direction of force on plate center	()	
Operating Environment	Ambient Temperature:	°C	Ambient Humidity:	%	
	Atmosphere:				
Interface Specifications	Parallel I/O				
Special Notes					

Electric Actuator ROBODEX Pulse

We offer a wide lineup of electric actuators with integrated motors.

- Slider Type : EJSG, EBS, EBR Series
- Rod Type : EBR Series
- F Series : FLCR, FGRC, FLSH, FFLD Series
- G Series : GSSD2, GSTK, GSTG, GSTS, STL, GCKW Series
- D Series : DSSD2, DSTK, DSTG, DSTS, STL, DMSDG, DLSH, DCKW Series

Four types of controllers are also available for our electric actuators.

- Multi Axis Controller : ECMG Series
- Single Axis Controller : ECG, ECR, ESC4 Series

- ABSODEX
Actuator: AX1R, AX2R, AX4R Series
Driver: AXD Series

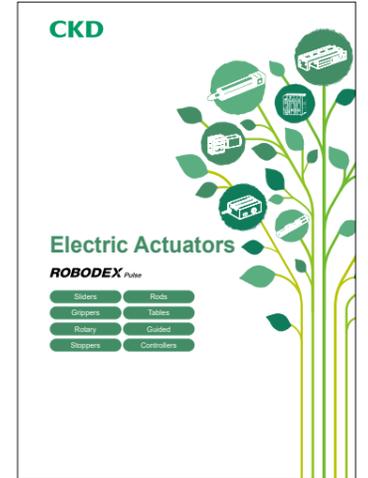
- The Direct Drive Actuator: Engineered for ease of use.
From palm-sized models to high-torque solutions.
Simplify the design of your transfer, positioning, and other equipment.



- T DISC Series
● High-performance Direct Drive Servo Motor
A diverse lineup that meets various demands such as high precision, high speed, and stable velocity. Achieving a higher level of performance.



Cat. No. RJ-014AA





CKD Corporation

Website <https://www.ckd.co.jp/en/>

ASIA

喜開理(上海)機器有限公司
CKD(SHANGHAI)CORP.

- 本社/上海徐匯支店(SALES HEADQUARTERS / SHANGHAI XUHUI BRANCH OFFICE)
Room 612, 6th Floor, Yuanzhongkeyan Building, No. 1905 Hongmei Road, Xuhui District, Shanghai 200233, China
PHONE +86-21-61911888 / 60906048
- 上海浦東支店(SHANGHAI PUDONG BRANCH OFFICE)
- 寧波支店(NINGBO BRANCH OFFICE)
- 杭州支店(HANGZHOU BRANCH OFFICE)
- 無錫支店(WUXI BRANCH OFFICE)
- 昆山支店(KUNSHAN BRANCH OFFICE)
- 蘇州支店(SUZHOU BRANCH OFFICE)
- 常州支店(CHANGZHOU BRANCH OFFICE)
- 南京支店(NANJING BRANCH OFFICE)
- 合肥支店(HEFEI BRANCH OFFICE)
- 成都支店(CHENGDU BRANCH OFFICE)
- 武漢支店(WUHAN BRANCH OFFICE)
- 鄭州支店(ZHENGZHOU BRANCH OFFICE)
- 長沙支店(CHANGSHA BRANCH OFFICE)
- 重慶支店(CHONGQING BRANCH OFFICE)
- 西安支店(XIAN BRANCH OFFICE)
- 廣州支店(GUANGZHOU BRANCH OFFICE)
- 深圳支店(SHENZHEN BRANCH OFFICE)
- 東莞支店(DONGGUAN BRANCH OFFICE)
- 廈門支店(XIAMEN BRANCH OFFICE)
- 福州支店(FUZHOU BRANCH OFFICE)
- 惠州支店(HUIZHOU BRANCH OFFICE)
- 瀋陽支店(SHENYANG BRANCH OFFICE)
- 大連支店(DALIAN BRANCH OFFICE)
- 北京支店(BEIJING BRANCH OFFICE)
- 天津支店(TIANJIN BRANCH OFFICE)
- 青島支店(QINGDAO BRANCH OFFICE)
- 濟南支店(JINAN BRANCH OFFICE)

CKD INDIA PRIVATE LTD.

- HEADQUARTERS
Unit No. 607, 6th Floor, Welldone Tech Park, Sector 48, Sohna Road, Gurgaon-122018, Haryana, India
PHONE +91-124-418-8212
- BANGALORE OFFICE
- PUNE OFFICE
- CHENNAI OFFICE
- MUMBAI OFFICE
- HYDERABAD OFFICE
- AHAMEDABAD
- COIMBATORE
- AURANGABAD

- 2-250 Uji, Komaki City, Aichi 485-8551, Japan
- PHONE +81-568-74-1338 FAX +81-568-74-1165

PT CKD TRADING INDONESIA

- HEAD OFFICE
Menara Bidakara 2, 18th Floor, Jl. Jend. Gatot Subroto Kav. 71-73, Pancoran, Jakarta 12870, Indonesia
PHONE +62-21-2938-6601 FAX +62-21-2906-9470
- MEDAN OFFICE
- BEKASI OFFICE
- KARAWANG OFFICE
- SEMARANG OFFICE
- SURABAYA OFFICE

CKD KOREA CORP.

- HEADQUARTERS
3rd Floor, 44, Sinsu-ro, Mapo-gu, Seoul 04088, Korea
PHONE +82-2-783-5201~5203 FAX +82-2-783-5204
- 水原事務所(SUWON OFFICE)
- 天安事務所(CHEONGAN OFFICE)
- 蔚山事務所(ULSAN OFFICE)

M-CKD PRECISION SDN.BHD.

- HEAD OFFICE
Lot No.6, Jalan Modal 23/2, Seksyen 23, Kawasan MIEL, Fasa 8, 40300 Shah Alam, Selangor Darul Ehsan, Malaysia
PHONE +60-3-5541-1468 FAX +60-3-5541-1533
- JOHOR BAHRU BRANCH OFFICE
- PENANG BRANCH OFFICE

CKD SINGAPORE PTE. LTD.

- No.33 Tannery Lane #04-01 Hoesteel Industrial Building, Singapore 347789, Singapore
PHONE +65-67442623 FAX +65-67442486

CKD CORP. BRANCH OFFICE(ASEAN RHQ)

- No.33 Tannery Lane #04-01 Hoesteel Industrial Building, Singapore 347789, Singapore
PHONE +65-67442620

CKD THAI CORP. LTD.

- HEADQUARTERS
44, Smooth Life Tower, 19th Floor, Unit 1902, North Sathorn Road, Silom, Bangkok, Bangkok 10500, Thailand
PHONE +66-2-267-6300 FAX +66-2-267-6304-5
- NAVANAKORN OFFICE
- EASTERN SEABOARD OFFICE
- LAMPHUN OFFICE
- KORAT OFFICE
- AMATANAKORN OFFICE
- PRACHINBURI OFFICE
- SARABURI OFFICE

台灣喜開理股份有限公司 TAIWAN CKD CORP.

- HEADQUARTERS
16F-3, No. 7, Sec. 3, New Taipei Blvd., Xinzhuang Dist., New Taipei City 242, Taiwan
PHONE +886-2-8522-8198 FAX +886-2-8522-8128
- 新竹營業所(HSINCHU OFFICE)
- 台中營業所(TAICHUNG OFFICE)
- 台南營業所(TAINAN OFFICE)
- 高雄營業所(KAOHSIUNG OFFICE)

CKD VIETNAM ENGINEERING CO.,LTD.

- HEADQUARTERS
18th Floor, CMC Tower, Duy Tan Street, Cau Giay District, Hanoi, Vietnam
PHONE +84-24-3795-7631 FAX +84-24-3795-7637
- HO CHI MINH OFFICE

EUROPE

CKD EUROPE B.V.

- HEADQUARTERS
Beechavenue 125A, 1119 RB Schiphol-Rijk, the Netherlands
PHONE +31-23-554-1490
- CKD EUROPE GERMANY OFFICE
- CKD EUROPE UK
- CKD EUROPE CZECH O.Z.

CKD CORP. EUROPE BRANCH(EUROPE RHQ)

- Beechavenue 125A, 1119 RB Schiphol-Rijk, the Netherlands
PHONE +31-23-554-1490

CKD ITALIA S.R.L.

- HEADQUARTERS
Via di Fibianna 15 Calenzano (FI) CAP 50041, Italy
PHONE +39 0558825359 FAX +39 0558827376
- MILANO OFFICE

NORTH AMERICA & LATIN AMERICA

CKD MEXICO, S. DE R.L. DE C.V.

- Cerrada la Noria No. 200 Int. A-01, Querétaro Park II, Parque Industrial Querétaro, Santa Rosa Jáuregui, Querétaro, C.P. 76220, México
PHONE +52-442-161-0624

CKD USA CORP.

- HEADQUARTERS
1605 Penny Lane, Schaumburg, IL 60173, USA
PHONE +1-847-648-4400 FAX +1-847-565-4923
- LEXINGTON OFFICE
- SAN JOSE OFFICE/ TECHNICAL CENTER
- AUSTIN OFFICE

The goods and/or their replicas, the technology and/or software found in this catalog are subject to complementary export regulations by Foreign Exchange and Foreign Trade Law of Japan. If the goods and/or their replicas, the technology and/or software found in this catalog are to be exported from Japan, Japanese laws require the exporter makes sure that they will never be used for the development and/or manufacture of weapons for mass destruction.