



PRODUCT CATALOG

Intelligent Electric Actuators | Precision Motion Control

Catalog No. EN-25

www.gigager.net

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■ Selection Steps

Steps	Electric Gripper	Linear Actuator
①	Confirm the Working Condition and Application Confirm workpiece transfer assembly, workpiece alignment positioning, workpiece inner/outer diameter measurement, etc.	Confirm the Working Condition and Application Confirm workpiece transfer, error correction positioning, dispensing/welding, workpiece press-fitting/bonding, etc.
②	Confirm the Max Gripping Force The workpiece weight that the gripper can hold is related to the friction coefficient of the fixture. To ensure stable gripping, the clamping force is generally recommended to be 10 times or more than the workpiece's own gravity. Example: When the friction coefficient is 0.2, assuming the workpiece weighs 1kg, the required clamping force is calculated to be about 100N or more.	Confirm the Max Pushing Force & Load Quality In the pushing working condition applied to the push rod, the actual required pushing force value should be between 30% and 100% of the maximum pushing force value of the actuator. Load quality refers to the total mass of all accessories and fixtures loaded on the electric actuator. Select the corresponding actuator based on load specifications.
③	Confirm the Installation Method Actuators generally have multiple installation methods, and different installation methods will affect their max load quality values. Meantime, to ensure the normal operation of the actuator, please refer to the product selection manual before selecting, and confirm whether the dynamic load torque of the product is within the parameter range under the required installation method.	Confirm the Installation Method Actuators generally have multiple installation methods, and different installation methods will affect their max load quality values. Meantime, to ensure the normal operation of the actuator, please refer to the product selection manual before selecting, and confirm whether the dynamic load torque of the product is within the parameter range under the required installation method.
④	Confirm the Stroke (When selecting, the actuator rated stroke should be greater than the actual motion distance.) - Stroke=Max clamping workpiece diameter (H1) - Min clamping workpiece diameter (H2) - The small-stroke gripper can achieve the clamping of large-diameter workpieces by changing the fixture design.	Confirm the Stroke The selected stroke needs to be within the effective stroke range of the product.
⑤	Confirm the Speed Adjust the speed of absolute motion or push-pull motion through the control software platform/debugging board. If there are requirements for opening and closing beat/running cycle, please check the actuator's max speed under the target stroke of the actuator.	Confirm the Speed The speed marked in the product selection manual is the valid data of the no-load test, and the actual speed of the product will be affected by different load conditions, and the actual test shall prevail.
⑥	Confirm the Dynamic Load Operating Torque Users can design and customize fixtures according to the actual application scenarios, the size, shape, and other factors of the workpieces to be clamped. The fixture design should be within the allowable torque values of the electric gripper.	Confirm the Dynamic Load Operating Torque Users can customize fixtures according to the actual application scenarios, but they need to be designed according to the allowable torque, and avoid exceeding the maximum load allowable force of the fixture, otherwise it will affect the mechanical life.
⑦	Confirm the Control Mode ^{Note 1} For the specific control modes supported by the standard actuator (external controller) or ITG integrated actuator (internal controller), please refer to the corresponding product selection page. If using I/O control, confirm the number of I/O ports; if using bus control, confirm the bus protocol.	Confirm the Control Mode ^{Note 1} For the specific control modes supported by the standard actuator (external controller) or ITG integrated actuator (internal controller), please refer to the corresponding product selection page. If using I/O control, confirm the number of I/O ports; if using bus control, confirm the bus protocol.
⑧	Other Requirements If the working conditions have special requirements for working voltage, ambient temperature, ambient humidity, safety protection level etc., please consult the corresponding product selection page or contact the local sales staff.	Other Requirements If the working conditions have special requirements for working voltage, ambient temperature, ambient humidity, safety protection level, etc., please consult the corresponding product selection page or contact the local sales staff.

Note 1: 3-in-1 Communication Control: Bus, I/O, Pulse;
 Multi-protocol Industrial Network Compatibility: EtherCAT, PROFINET, CC-LINK, CANopen, EtherNet/IP, Modbus TCP, Modbus RTU.



EGB Compact Electric Finger

- Drop Detection
- Speedy Gripping
- Powerful in Compact Size
- Electric Replace Pneumatic

EGB - 06 L - 20D - 2 - D 0300 - ITG

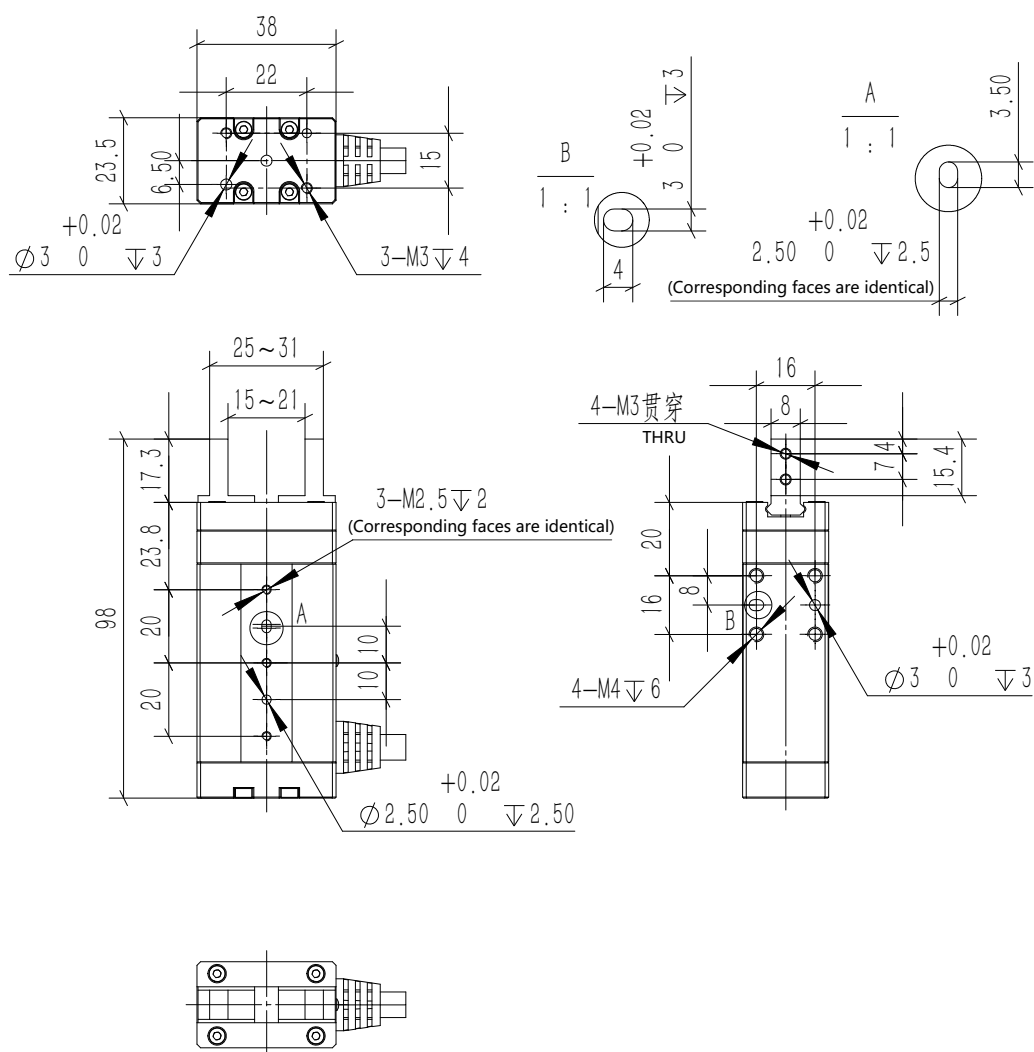
Series	Size	Version	Type	Outlet Direction	Wiring Method	Wiring Length	Control Method
	06	/	6	1: Side	D: Direct	0200: 200cm	ITG
						0300: 300cm	RTU
	06	H: High Speed	16D	1: Side	D: Direct	0200: 200cm	/
							P
				2: Bottom			RTU
							PRTU
	06	L: Standard	20D	1: Side	D: Direct	0200: 200cm	/
							P
				2: Bottom			RTU
							PRTU

Parameters		Model		
		EGB-06-6-ITG	EGB-06H-16D	EGB-06L-20D
Performance	Stroke (mm)	6	6	10
	Gripping Force ¹ (N)	10/20/30/40 (I/O combination triggering requires no parameter adjustment)	10/15/35/60 (I/O combination triggering requires no parameter adjustment)	16/30/60/80 (I/O combination triggering requires no parameter adjustment)
	Absolute Position (mm)	0/2/4 (I/O combination triggering requires no parameter adjustment)	0/2/4 (I/O combination triggering requires no parameter adjustment)	0/4/8 (I/O combination triggering requires no parameter adjustment)
	Repeatability (mm)	±0.02	±0.02	±0.02
	Max Opening/Closing Time (s)	0.3/0.3	0.1/0.1	0.18/0.18
	Allowable Load Torque (N.m)	MR: 1.36, MP: 0.8, MY:0.68	MR: 1.36, MP: 0.8, MY:0.68	MR: 2.65, MP: 2.35, MY:1.65
Control Method	Controller	Built-in	Built-in	Built-in
	"-ITG" Series or "-/" Series	I/O (NPN) Input 3 points, output 3 points	I/O (NPN) Input 3 points, output 3 points	I/O (NPN) Input 3 points, output 3 points
	"P" Series	/	I/O (PNP) Input 3 points, output 3 points	I/O (PNP) Input 3 points, output 3 points
	"RTU" Series	I/O (NPN) Input 3 points, output 3 points Modbus RTU	I/O (NPN) Input 3 points, output 3 points Modbus RTU	I/O (NPN) Input 3 points, output 3 points Modbus RTU
Operating Environment	"PRTU" Series	/	I/O (PNP) Input 3 points, output 3 points Modbus RTU	I/O (PNP) Input 3 points, output 3 points Modbus RTU
	Rated Voltage (V)	DC24±10%	DC24±10%	DC24±10%
	Rated Current (A)	0.3	0.3	0.4
	Peak Current (A)	0.6	0.6	0.8
	Weight (kg)	0.22	0.22	0.32
	Working Environment	0~40°C, < 85%RH (Without condensation)	0~40°C, < 85%RH (Without condensation)	0~40°C, < 85%RH (Without condensation)
	IP Grade	IP40	IP40	IP40

1. The data is based on test results obtained in a 25° C laboratory.

2. The drawings provided in this Catalogue are for the default standard model. If you require other models with different motor directions, outlet directions, or outlet methods, please contact your local sales representative to obtain the drawings for the optional models.

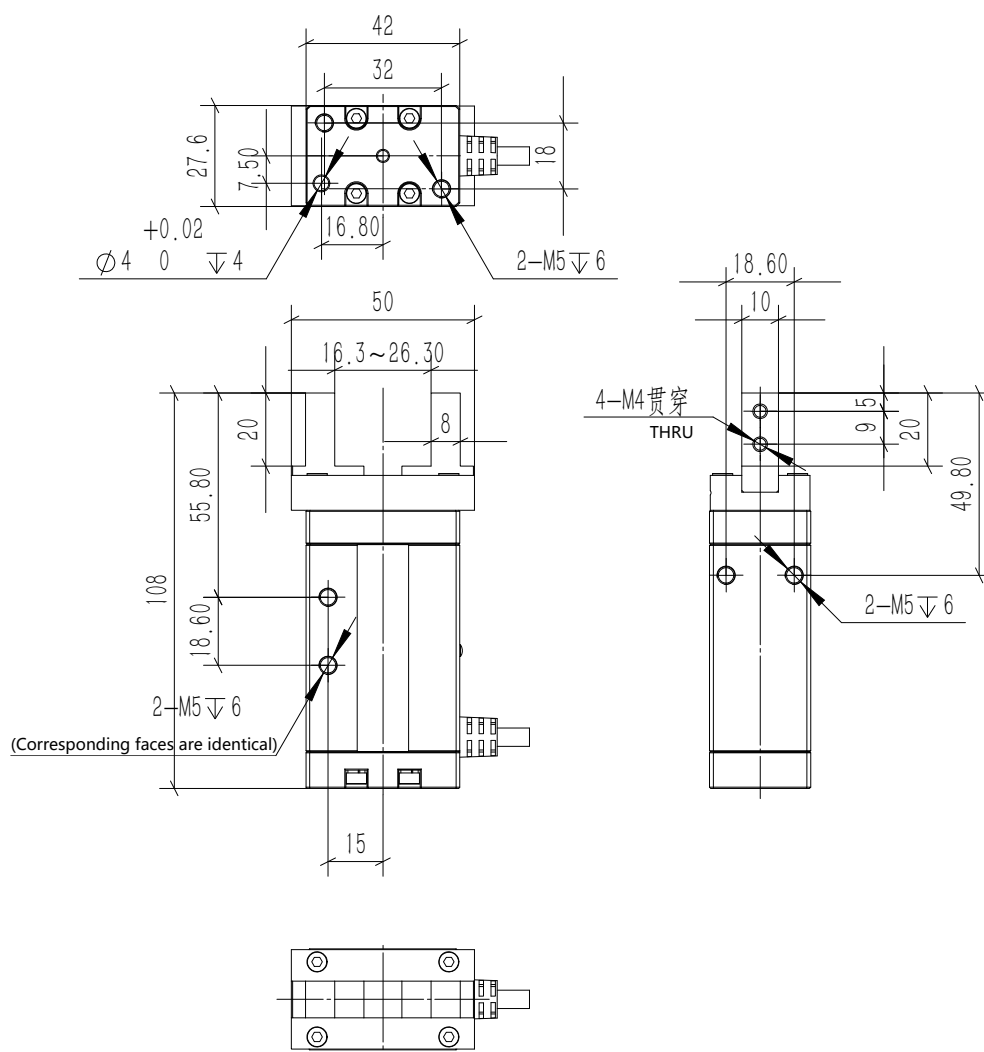
■ EGB-06-6-1-D0200-ITG
EGB-06H-16D-1-D0200



Installation Instructions:

1. When fixing the main body, please use all the screws on the same installation surface.
2. When tightening the bolts, do not exceed the depth of the threaded hole.

■ EGB-06L-20D-1-D0200



Installation Instructions:

1. When fixing the main body, please use all the screws on the same installation surface.
2. When tightening the bolts, do not exceed the depth of the threaded hole.



* Fingertips for demonstration only.

MGBD Series Micro Gripper-Double Claws

- Miniature Size
- Speedy Gripping
- Drop Detection
- Small-force Level

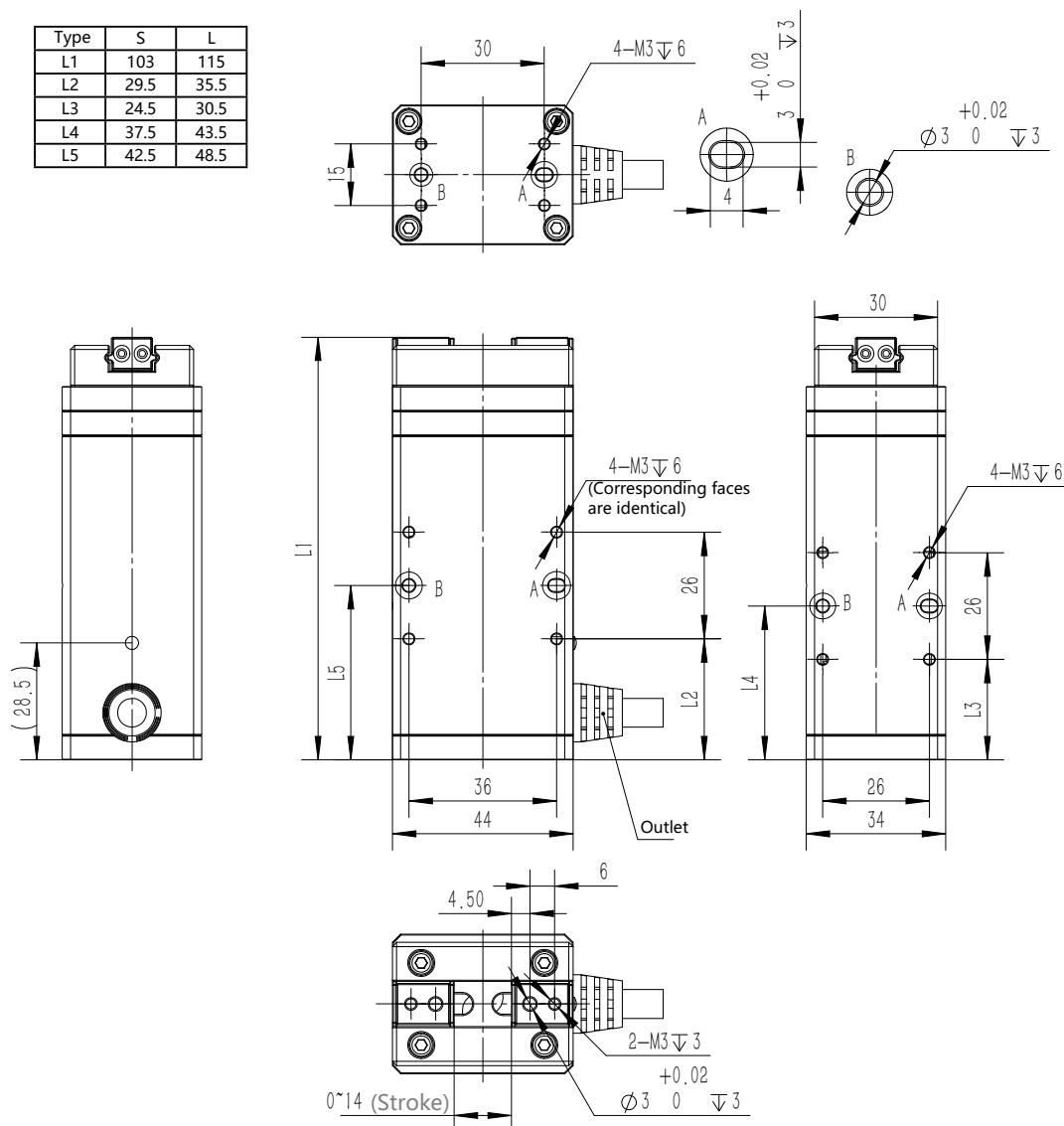
MGBD	-	08	-	8	-	/	-	S	0028	-	ITG
Series		Size		Type		Model Length		Wiring Method		Wiring Length	Control Method
11		14		S				A: Aviation Plug SW		0028: 28cm	ITG
				L				D: Direct		0300: 300cm	
11		20		S				A: Aviation Plug SW		0028: 28cm	ITG
				L				D: Direct		0300: 300cm	
08		8						S: Switched		0028: 28cm	/
								D: Direct		0300: 300cm	
11		14		S				S: Switched		0028: 28cm	/
				L				D: Direct		0300: 300cm	
11		20		S				S: Switched		0028: 28cm	/
				L				D: Direct		0300: 300cm	

Quick Selection Guide

Model	Stroke (mm)	Max Gripping Force ¹ (N)	Max Opening/Closing Time (S)	Repeatability (mm)	Control
MGBD-11-14-S-ITG	13	15	0.25/0.25	±0.02	Built-in
MGBD-11-14-L-ITG	13	30	0.25/0.25	±0.02	Built-in
MGBD-11-20-S-ITG	20	15	0.25/0.25	±0.02	Built-in
MGBD-11-20-L-ITG	20	30	0.25/0.25	±0.02	Built-in
MGBD-08-8	7	5	0.25/0.25	±0.02	Built-in
MGBD-11-14-S	13	15	0.25/0.25	±0.02	Built-in
MGBD-11-14-L	13	30	0.25/0.25	±0.02	Built-in
MGBD-11-20-S	20	15	0.25/0.25	±0.02	Built-in
MGBD-11-20-L	20	30	0.25/0.25	±0.02	Built-in

■ MGBD-11-14-S-A0028-ITG(Integrated - Built-in Controller) MGBD-11-14-L-A0028-ITG(Integrated - Built-in Controller)

Type	S	L
L1	103	115
L2	29.5	35.5
L3	24.5	30.5
L4	37.5	43.5
L5	42.5	48.5



Installation Instructions:

1. When fixing the main body, please use all the screws on the same installation surface.
2. When tightening the bolts, do not exceed the depth of the threaded hole.

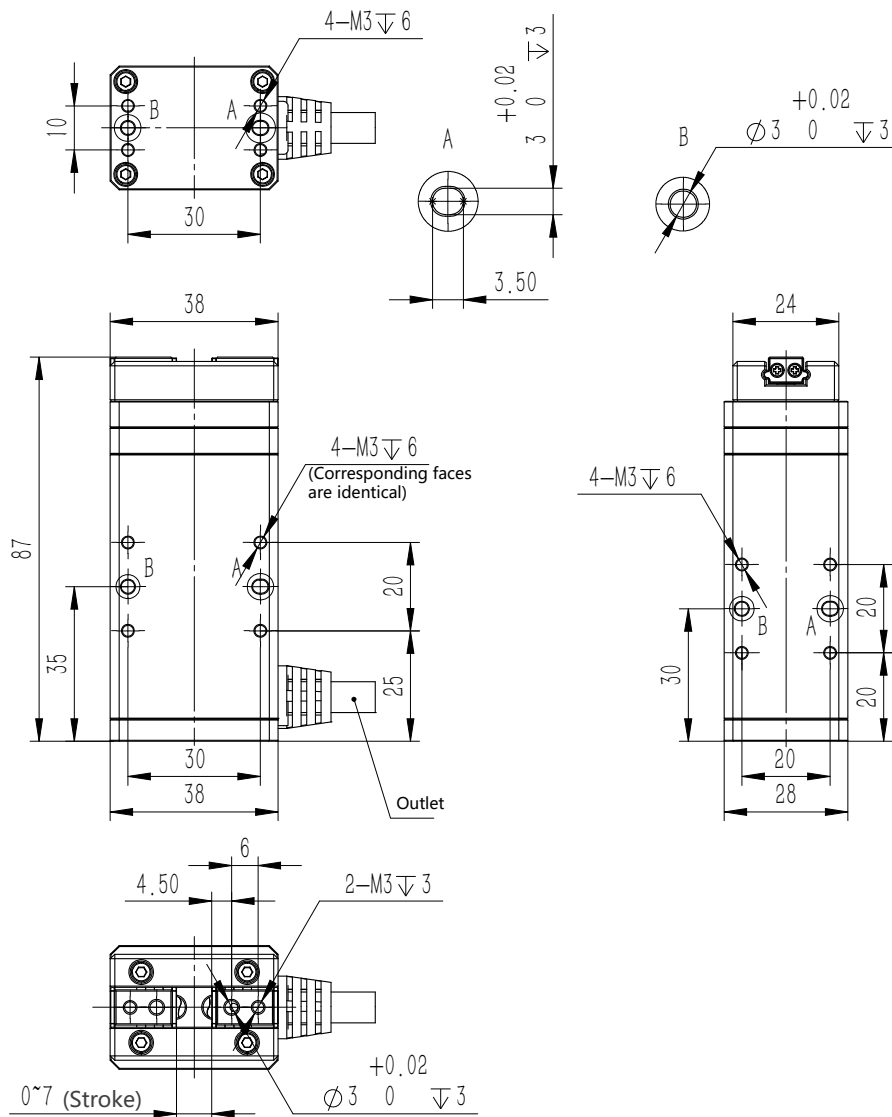
Parameters		Model	
		MGBD-11-14-S-ITG	MGBD-11-14-L-ITG
Spec.	Size	11	11
	Type	14	14
	Length	S	L
	Stroke (mm)	14	14
Performance	Max Gripping Force ¹ (N)	15	30
	Repeatability (mm)	±0.02	
	Max Opening/Closing Time (s)	0.25/0.25	
	Allowable Load Torque (N.m)	MR: 4.6, MP: 1.9, MY: 2.7	

Parameters		Model	
		MGBD-11-14-S-ITG	MGBD-11-14-L-ITG
Control Method	Bus	Modbus RTU/CANopen	
	Interface	I/O Control	
	I/O Interface	Input 3 points (NPN), output 3 points (NPN)	
	Rated Voltage (V)	DC24±10%	
Operating Environment	Rated Current (A)	2	
	Weight (kg)	0.5	
	Working Environment	0~40°C, < 85%RH (Without condensation)	
	IP Grade	IP40	

1. The data is based on test results obtained in a 25° C laboratory.

2. The drawings provided in this Catalogue are for the default standard model. If you require other models with different motor directions, outlet directions, or outlet methods, please contact your local sales representative to obtain the drawings for the optional models.

■ MGBD-08-8-S0028(Split Type - External Controller)



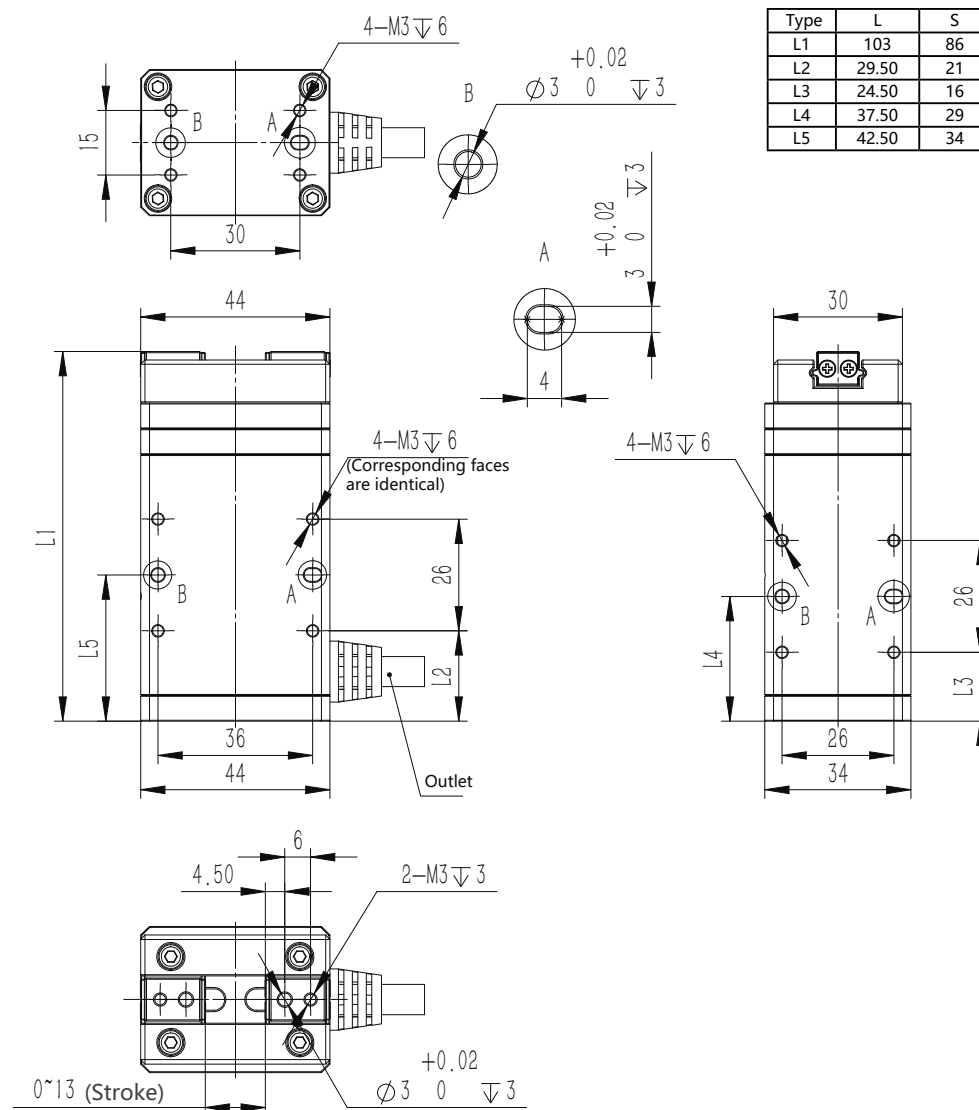
Installation Instructions:

1. When fixing the main body, please use all the screws on the same installation surface.
2. When tightening the bolts, do not exceed the depth of the threaded hole.

Spec.	Size	08	Control Method	Communication Protocol	Modbus RTU, EtherCAT Modbus TCP, PROFINET EtherNet/IP, CC-LINK, CANopen
	Type	8		Rated Voltage (V)	DC24±10%
	Stroke (mm)	7		Rated Current (A)	2
Performance	Max Gripping Force ¹ (N)	5	Operating Environment	Weight (kg)	0.3
	Repeatability (mm)	±0.02		Working Environment	0~40°C, < 85%RH (Without condensation)
	Max Opening/Closing Time (s)	0.25/0.25		IP Grade	IP40
	Allowable Load Torque (N.m)	MR: 1.5, MP: 0.5, MY: 0.5			

1. The data is sourced from the actual test results in the 25°C laboratory.
2. If you require a product with a brake, please contact your sales representative for a drawing.
3. The drawings provided in this Catalogue are for the default standard model. If you require other models with different motor directions, outlet directions, or outlet methods, please contact your local sales representative to obtain the drawings for the optional models.

■ MGBD-11-20-S-S0028(Split Type - External Controller)
 MGBD-11-20-L-S0028(Split Type - External Controller)



Installation Instructions:

1. When fixing the main body, please use all the screws on the same installation surface.
2. When tightening the bolts, do not exceed the depth of the threaded hole.

Parameters		Model	
		MGBD-11-20-S-ITG	MGBD-11-20-L-ITG
Spec.	Size	11	11
	Type	20	20
	Length	S	L
	Stroke (mm)	20	20
Performance	Max Gripping Force ¹ (N)	15	30
	Repeatability (mm)	±0.02	
	Max Opening/Closing Time (s)	0.25/0.25	
	Allowable Load Torque (N.m)	MR: 4.70, MP: 2.84, MY: 2.84	

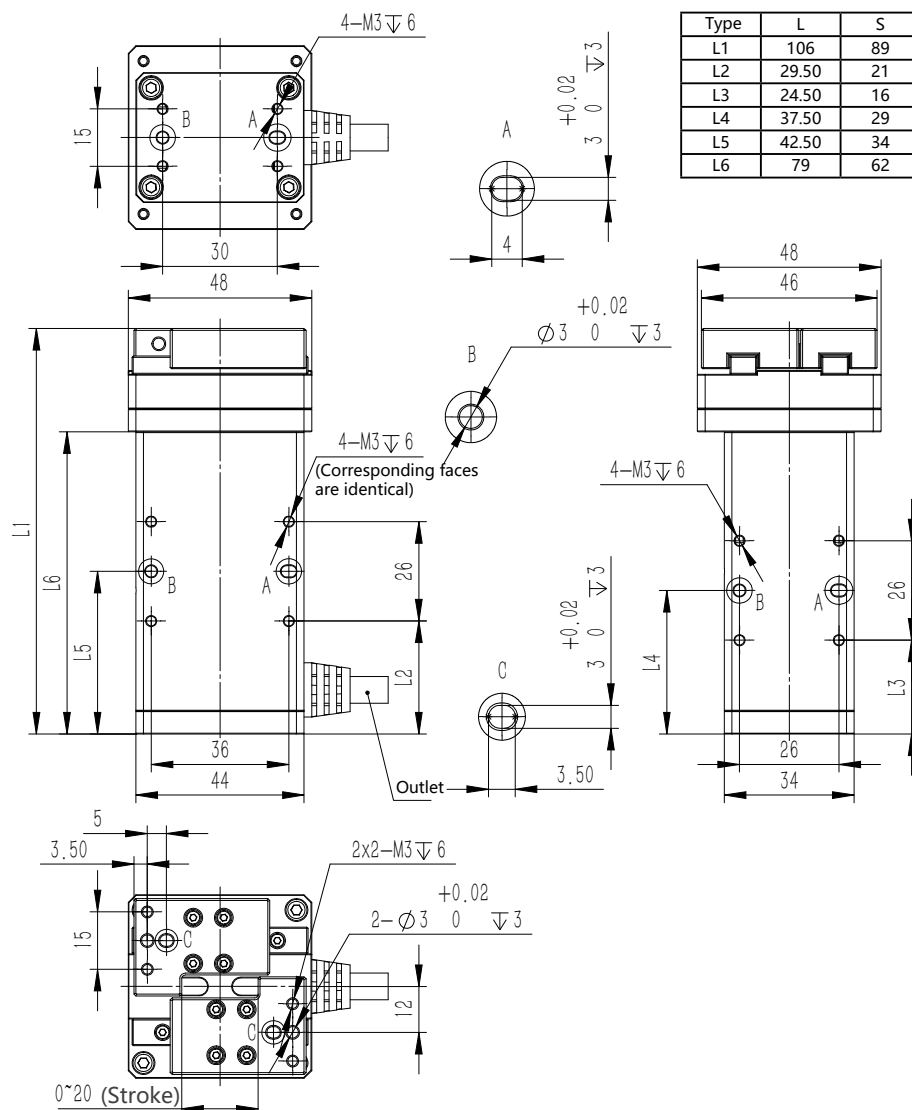
Parameters		Model	
		MGBD-11-20-S-ITG	MGBD-11-20-L-ITG
Control Method	Communication Protocol	Modbus RTU, EtherCAT, Modbus TCP, PROFINET, EtherNet/IP, CC-LINK, CANopen	
	Rated Voltage (V)	DC24±10%	
Operating Environment	Rated Current (A)	2	
	Weight (kg)	0.5	
	Working Environment	0~40°C, <85%RH (Without condensation)	
	IP Grade	IP40	

1. The data is sourced from the actual test results in the 25°C laboratory.

2. If you require a product with a brake, please contact your sales representative for a drawing.

3. The drawings provided in this Catalogue are for the default standard model. If you require other models with different motor directions, outlet directions, or outlet methods, please contact your local sales representative to obtain the drawings for the optional models.

■ MGBD-11-20-S-S0028(Split Type - External Controller)
MGBD-11-20-L-S0028(Split Type - External Controller)



Installation Instructions:

1. When fixing the main body, please use all the screws on the same installation surface.
2. When tightening the bolts, do not exceed the depth of the threaded hole.

Parameters		Model	
		MGBD-11-20-S	MGBD-11-20-L
Spec.	Size	11	11
	Type	20	20
	Length	S	L
	Stroke (mm)	20	20
Performance	Max Gripping Force ¹ (N)	15	30
	Repeatability (mm)	±0.02	
	Max Opening/Closing Time (s)	0.25/0.25	
	Allowable Load Torque (N.m)	MR: 4.70, MP: 2.84, MY: 2.84	

Parameters		Model	
		MGBD-11-20-S	MGBD-11-20-L
Control Method	Communication Protocol	Modbus RTU, EtherCAT, Modbus TCP, PROFINET, EtherNet/IP, CC-LINK, CANopen	
Operating Environment	Rated Voltage (V)	DC24±10%	
	Rated Current (A)	2	
	Weight (kg)	0.4	0.5
	Working Environment	0~40℃, < 85%RH (Without condensation)	
	IP Grade	IP40	

1. The data is sourced from the actual test results in the 25°C laboratory.
2. If you require a product with a brake, please contact your sales representative for a drawing.
3. The drawings provided in this Catalogue are for the default standard model. If you require other models with different motor directions, outlet directions, or outlet methods, please contact your local sales representative to obtain the drawings for the optional models.



* Fingertips for demonstration only.

GBM Series Integrated Micro Gripper(ITG)

- Large Stroke
- Thin Body Design
- Drop Detection
- Adaptive Gripping

GBM - 06 - 26 - 64 - 1 - D 0500 - ITG - /

Series	Size	Stroke	Type	Outlet Direction	Wiring Method	Wiring Length	Control Method	Brake
	06	26	64	1: Side	D: Direct	0300: 300cm	ITG	/
				2: Bottom		0500: 500cm		BK

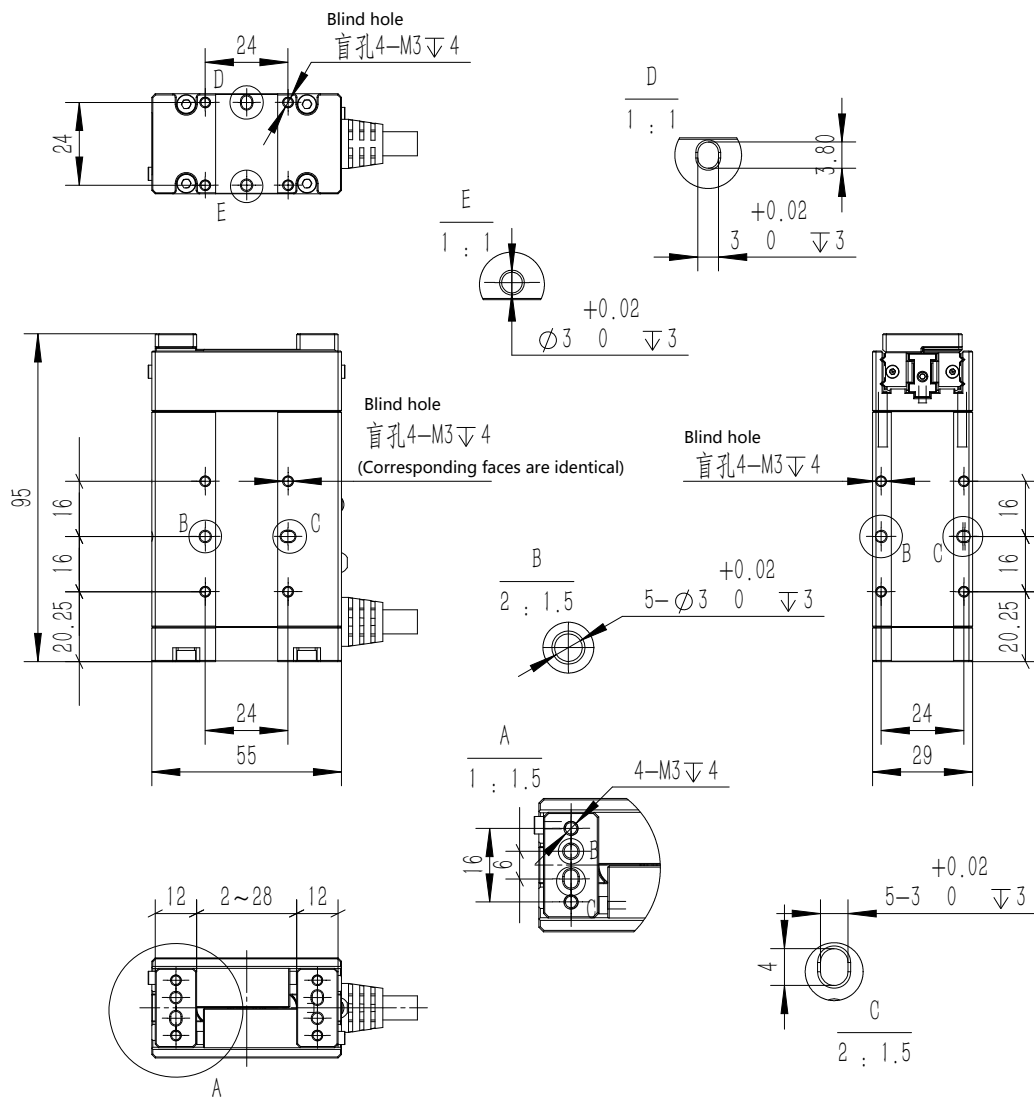
Parameters	Model
	GBM-06-26-64-ITG
Size	06
Stroke (mm)	26
Max Gripping Force ¹ (N)	50
Repeatability (mm)	±0.02
Max Opening/Closing Time (s)	0.45/0.45
Allowable Load Torque (N.m)	MR:2.5, MP:2, MY:3
Controller	Built-in
Control Method- Bus	Modbus RTU
Control Method - Interface	I/O Control
I/O Interface	Input 3 points (NPN), output 3 points (NPN)
Rated Voltage (V)	DC 24±10%
Rated Current (A)	1
Weight (kg)	0.4
Working Environment	0~40°C, < 85%RH (Without condensation)
IP Grade	IP40

1. The data is sourced from the actual test results in the 25°C laboratory.

2. If you require a product with a brake, please contact your sales representative for a drawing.

3. The drawings provided in this Catalogue are for the default standard model. If you require other models with different motor directions, outlet directions, or outlet methods, please contact your local sales representative to obtain the drawings for the optional models.

■ GBM-06-26-64-1-D0300-ITG(Integrated - Built-in Controller)



Installation Instructions:

1. When fixing the main body, please use all the screws on the same installation surface.
2. When tightening the bolts, do not exceed the depth of the threaded hole.



* Fingertips for demonstration only.

GB Series Servo Gripper

- Rich Stroke
- High Rigidity
- Large Gripping Force
- Power-off Self-locking

GB	-	17	-	30	-	2	-	1	-	A	0028	-	ITG	-	BK
Series		Size		Stroke		Lead		Outlet Direction ³		Wiring Method ³	Wiring Length		Control Method		Brake ²
	11	20	2	40	1: Side	2: Bottom ¹				A: Aviation Plug SW	0028: 28cm		ITG		/
										V: Vertical	/				
										H: Horizontal	/				
	17	30	2	60	1: Side	2: Bottom				A: Aviation Plug SW	0028: 28cm		ITG		/
		60								V: Vertical	/				
		80								H: Horizontal	/				
		120													
	11	20	2	40	1: Side	2: Bottom ¹				S: Switched	0028: 28cm		/		/
										V: Vertical	/				
										H: Horizontal	/				
	17	30	2	60	1: Side	2: Bottom				S: Switched	0028: 28cm		/		/
		60								V: Vertical	/				
		80								H: Horizontal	/				
		120													

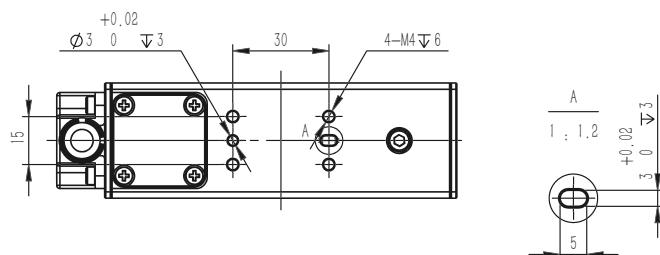
*1: The 20-stroke travel doesn't support the bottom outlet

*2: 60 stroke clamp with mechanical self-locking, brake function not available.

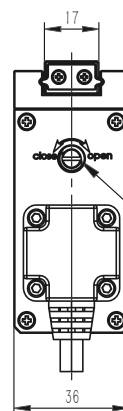
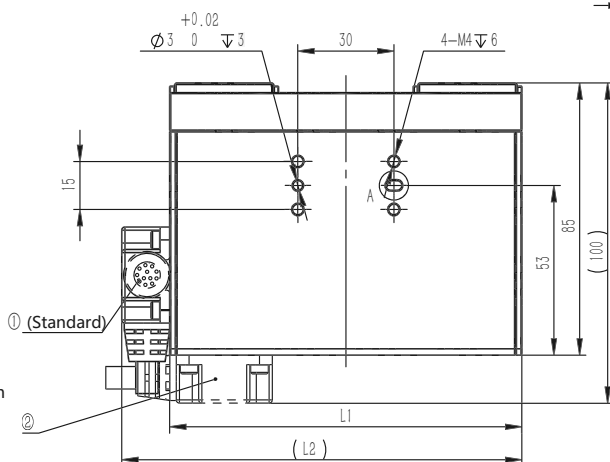
*3: Instructions of the product outlet direction and wiring method.

Wiring Method	Outlet Direction 1: Side (The same fixed surface can be installed in four directions)	Outlet Direction 2: Bottom (The same fixed surface can be installed in four directions)	Connector Size
A: Aviation Plug SW (Recommendation)			
S: Switched Wiring			
H: Horizontal Wiring			
V: Vertical Wiring			

■ GB-11-20-2-ITG(Integrated - Built-in Controller) GB-11-40-2-ITG(Integrated - Built-in Controller) GB-11-20-2(Split Type - External Controller) GB-11-40-2(Split Type - External Controller)



Stroke	20	40
L1	90	110
L2	105	125
L3	0 ~ 20	0 ~ 40



During a power failure, adjust the screw position to control the gripper. Turn it clockwise to open and counterclockwise to close.

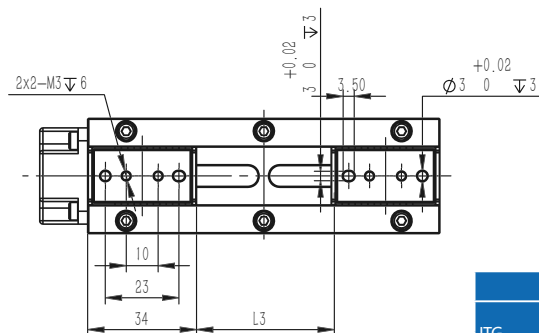
Note:

Wiring positions (① and ②) are available (the default is ①).

Grippers with a stroke of 20mm have only one available wiring position, which is ①.

① (Standard)

②



Installation Instructions:

1. When fixing the main body, please use all the screws on the same installation surface.
2. When tightening the bolts, do not exceed the depth of the threaded hole.

Control Mode		
ITG Integrated Type	Bus	Modbus RTU/CANopen
	Interface	I/O Control
	I/O Interface	(NPN) Input 3 points, output 3 points
Split Type	Communication Protocol	Modbus RTU, EtherCAT, Modbus TCP, PROFINET, EtherNet/IP, CC-LINK, CANopen

Parameters	Model	
	GB-11-20-2-ITG	GB-11-40-2-ITG
Size	11	
Stroke (mm)	20	40
Type	2	
Max Gripping Force ¹ (N)	65	110
Max Speed (mm/s)	80	
Repeatability (mm)	±0.05	
Max Opening/Closing Time (s)	0.33/0.33	0.58/0.58

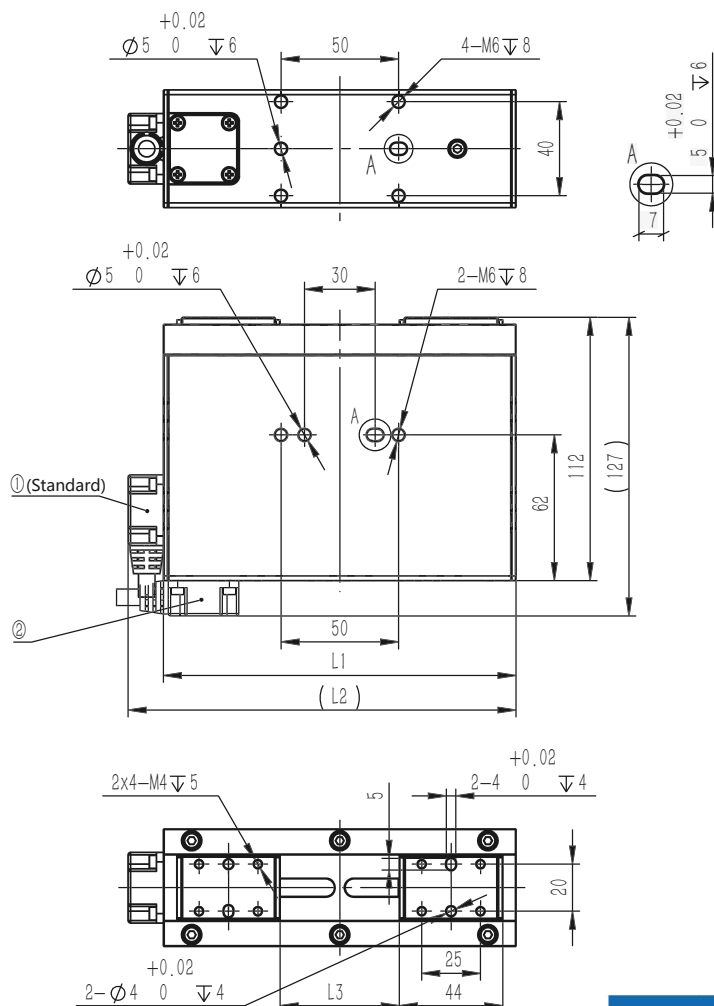
Parameters	Model	
	GB-11-20-2-ITG	GB-11-40-2-ITG
Allowable Load Torque (N.m)	MR: 8.0, MP: 5.9, MY: 5.9	
Power Failure Auto-Lock	Mechanical self-locking	
Rated Voltage (V)	DC24±10%	
Rated Current (A)	2	
Weight (kg)	0.8	1.1
Working Environment	0~40°C, < 85%RH (Without condensation)	
IP Grade	IP40	

1. The data is sourced from the actual test results in the 25°C laboratory.

2. If you require a product with a brake, please contact your sales representative for a drawing.

3. The drawings provided in this Catalogue are for the default standard model. If you require other models with different motor directions, outlet directions, or outlet methods, please contact your local sales representative to obtain the drawings for the optional models.

■ GB-17-30-2-ITG(Integrated - Built-in Controller)
GB-17-60-2-ITG(Integrated - Built-in Controller)
GB-17-30-2-/(Split Type - External Controller/Optional Brake)
GB-17-60-2-/(Split Type - External Controller)

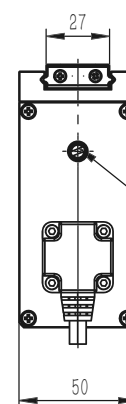


Note:

Wiring positions (① and ②) are available (the default is ①).

Grippers with a stroke of 20mm have only one available wiring position, which is ①.

Stroke	30	60
L1	150	150
L2	165	165
L3	32 ~ 62	0 ~ 60



During a power failure, adjust the screw position to control the gripper. Turn it clockwise to open and counterclockwise to close.

Installation Instructions:

1. When fixing the main body, please use all the screws on the same installation surface.
2. When tightening the bolts, do not exceed the depth of the threaded hole.

Control Mode		
ITG Integrated Type	Bus Interface	Modbus RTU/CANopen
	I/O Interface	I/O Control
	I/O Interface	(NPN) Input 2 points, output 3 points
Split Type	Communication Protocol	Modbus RTU , EtherCAT , Modbus TCP , PROFINET , EtherNet/IP, CC-LINK, CANopen

Parameter	Model	
	GB-17-30-2-ITG	GB-17-60-2-ITG
Size	17	
Stroke (mm)	30	60
Type	2	
Max Gripping Force ¹ (N)	ITG: 350 /: 500	ITG: 175 /: 250
Max Speed (mm/s)	80	
Repeatability (mm)	±0.02	±0.05
Max Opening/Closing Time (s)	0.4/0.4	0.7/0.7

Parameter	Model	
	GB-17-30-2-ITG	GB-17-60-2-ITG
Allowable Load Torque (N.m)	MR: 58.5, MP: 15.0, MY: 25.5	
Power Failure Auto-Lock	-	Mechanical self-locking
Rated Voltage (V)	DC24±10%	
Rated Current (A)	4	
Weight (kg)	2.1	2.3
Working Environment	0~40°C, < 85%RH (Without condensation)	
IP Grade	IP40	

1. The data is sourced from the actual test results in the 25°C laboratory.

2. If you require a product with a brake, please contact your sales representative for a drawing.

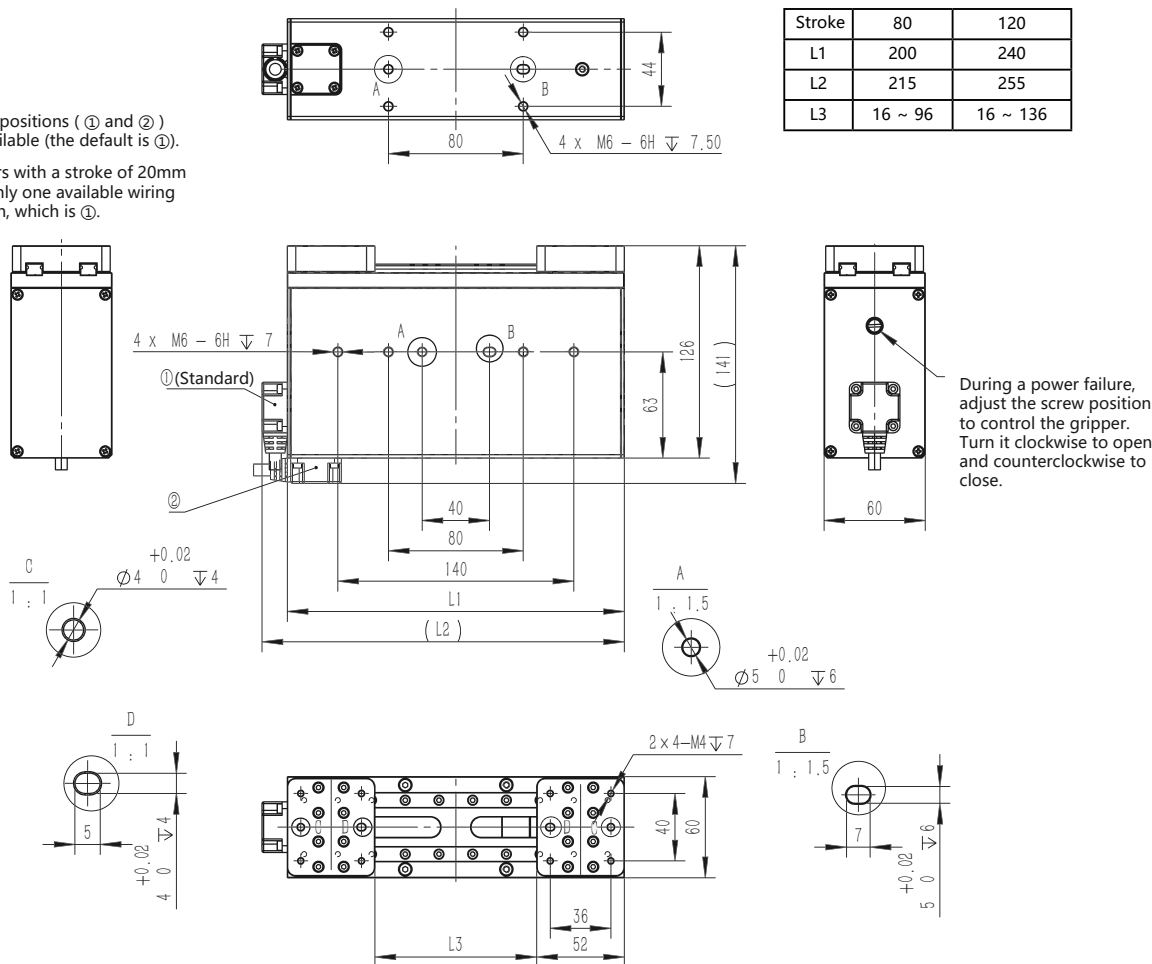
3. The drawings provided in this Catalogue are for the default standard model. If you require other models with different motor directions, outlet directions, or outlet methods, please contact your local sales representative to obtain the drawings for the optional models.

■ GB-17-80-2-ITG(Integrated - Built-in Controller) GB-17-120-2-ITG(Integrated - Built-in Controller) GB-17-80-2-/(Split Type - External Controller/Optional Brake) GB-17-120-2-/(Split Type - External Controller/Optional Brake)

Note:

Wiring positions (① and ②) are available (the default is ①).

Grippers with a stroke of 20mm have only one available wiring position, which is ①.



Stroke	80	120
L1	200	240
L2	215	255
L3	16 ~ 96	16 ~ 136

Installation Instructions:

- When fixing the main body, please use all the screws on the same installation surface.
- When tightening the bolts, do not exceed the depth of the threaded hole.

Parameters	Model	
	GB-17-80-2-ITG	GB-17-120-2-ITG
Size	17	
Stroke (mm)	80	120
Type	2	
Max Gripping Force ¹ (N)	ITG: 500	/: 700
Max Speed (mm/s)	80	
Repeatability (mm)	± 0.02	
Max Opening/Closing Time (s)	0.9/0.9	1.3/1.3

1. The data is sourced from the actual test results in the 25°C laboratory.

2. If you require a product with a brake, please contact your sales representative for a drawing.

3. The drawings provided in this Catalogue are for the default standard model. If you require other models with different motor directions, outlet directions, or outlet methods, please contact your local sales representative to obtain the drawings for the optional models.

Control Mode		
ITG Integrated Type	Bus	Modbus RTU/CANopen
	Interface	I/O Control
	I/O Interface	(NPN) Input 3 points, output 3 points
Split Type	Communication Protocol	Modbus RTU, EtherCAT, Modbus TCP, PROFINET, EtherNet/IP, CC-LINK, CANopen

Parameters	Model	
	GB-17-80-2-ITG	GB-17-120-2-ITG
Allowable Load Torque (N.m)	MR: 60, MP: 30, MY: 40	
Rated Voltage (V)	DC24 $\pm$ 10%	
Rated Current (A)	4	
Weight (kg)	3.5	4.0
Working Environment	0~40°C, <85%RH (Without condensation)	
IP Grade	IP40	

* Fingertips for demonstration only.



RGM Series Integrated Servo Rotary Gripper(ITG)

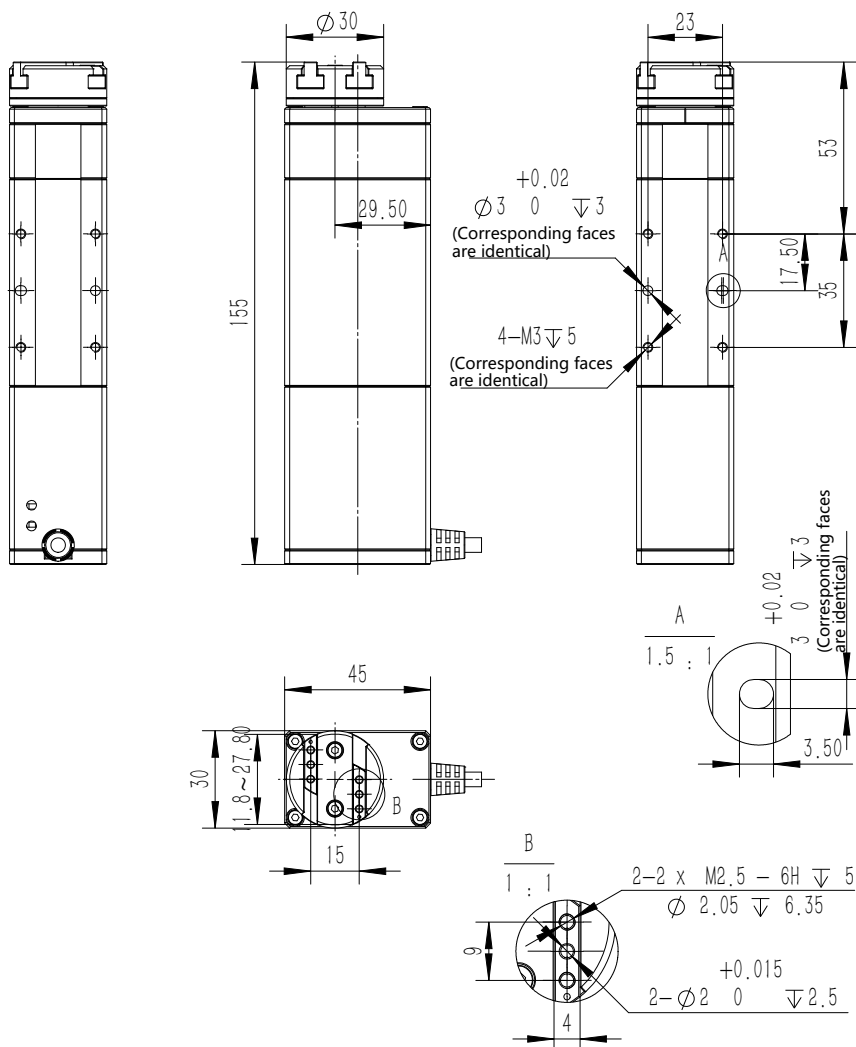
- Large Torque
- Large Gripping Force
- Highly Integrated
- 360° Infinite Rotation

RGM	-	0606	-	360	-	16	-	02	-	1	-	A	0015	-	ITG
Series		Size		R Axis Stroke		G Axis Stroke		Torque		Outlet Direction		Wiring Method	Wiring Length		Control Method
		0606		360		16		02		1: Side 2: Bottom		A: Aviation Plug SW	0015: 15cm		ITG
		0606		360		32		04		1: Side 2: Bottom		D: Direct	0300: 30cm		ITG
		0609		360		32		08		1: Side 2: Bottom		D: Direct	0300: 30cm		ITG

■ Quick Selection Guide

Model	Stroke (mm)	Rated Torque (N.m)	Max Speed (° /s)	Max Gripping Force (N)	Max Opening/Closing Time (S)	Repeatability (mm)	Controller
RGM-0606-360-16-02-ITG	16	0.2	1000	24	0.15/0.15	±0.02	Built-in
RGM-0606-360-32-04-ITG	32	0.4	1100	100	0.3/0.3	±0.02	Built-in
RGM-0609-360-32-08-ITG	32	0.8	2160	100	0.3/0.3	±0.02	Built-in

■ RGM-0606-360-16-02-1-A0015-ITG(Built-in Controller)



Installation Instructions:

1. When fixing the main body, please use all the screws on the same installation surface.
2. When tightening the bolts, do not exceed the depth of the threaded hole.

Stroke (mm)	0-16
Gripping Force ¹ (N)	4-24
Max Opening/Closing Time (s)	0.15/0.15
Allowable Static Load Moment (N.m)	MR: 1.5, MP: 1.5, MY: 1.5
Rated Torque (N.m)	0.2
Peak Torque (N.m)	0.35
Max Allowable Inertia (kg/mm ²)	100
Repeatability ² (mm)	±0.02
Rotation Repeatability (°)	±0.05

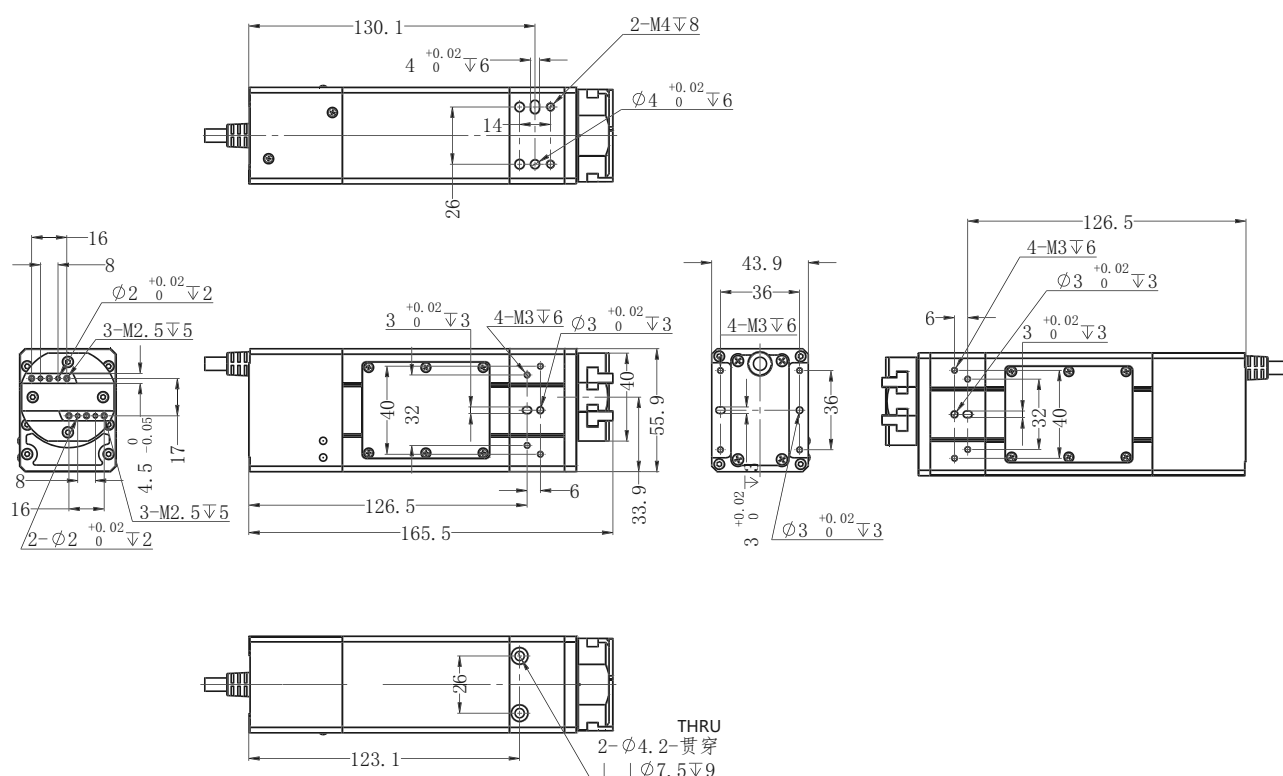
Min/Max Rotation Angle	No Limitation
Max Speed (°/s)	1000
Controller	Built-in
Communication Protocol	Modbus RTU
Rated Voltage (V)	DC24±10%
Rated Current (A)	1.8
Peak Current (A)	4
Weight (kg)	0.42
Working Environment	0~40°C, < 85%RH (Without condensation)
IP Grade	IP40

1. The data is sourced from the actual test results in the 25°C laboratory.

2. If you require specifications for the gripping clearance, positioning accuracy, and rotation repeatability of the rotary gripper, or if you demand an even faster response time, please reach out to our sales team for technical confirmation and a tailored solution.

3. The drawings provided in this Catalogue are for the default standard model. If you require other models with different motor directions, outlet directions, or outlet methods, please contact your local sales representative to obtain the drawings for the optional models.

RGM-0606-360-32-04-2-D0300-ITG(Built-in Controller)



Installation Instructions:

1. When fixing the main body, please use all the screws on the same installation surface.
2. When tightening the bolts, do not exceed the depth of the threaded hole.

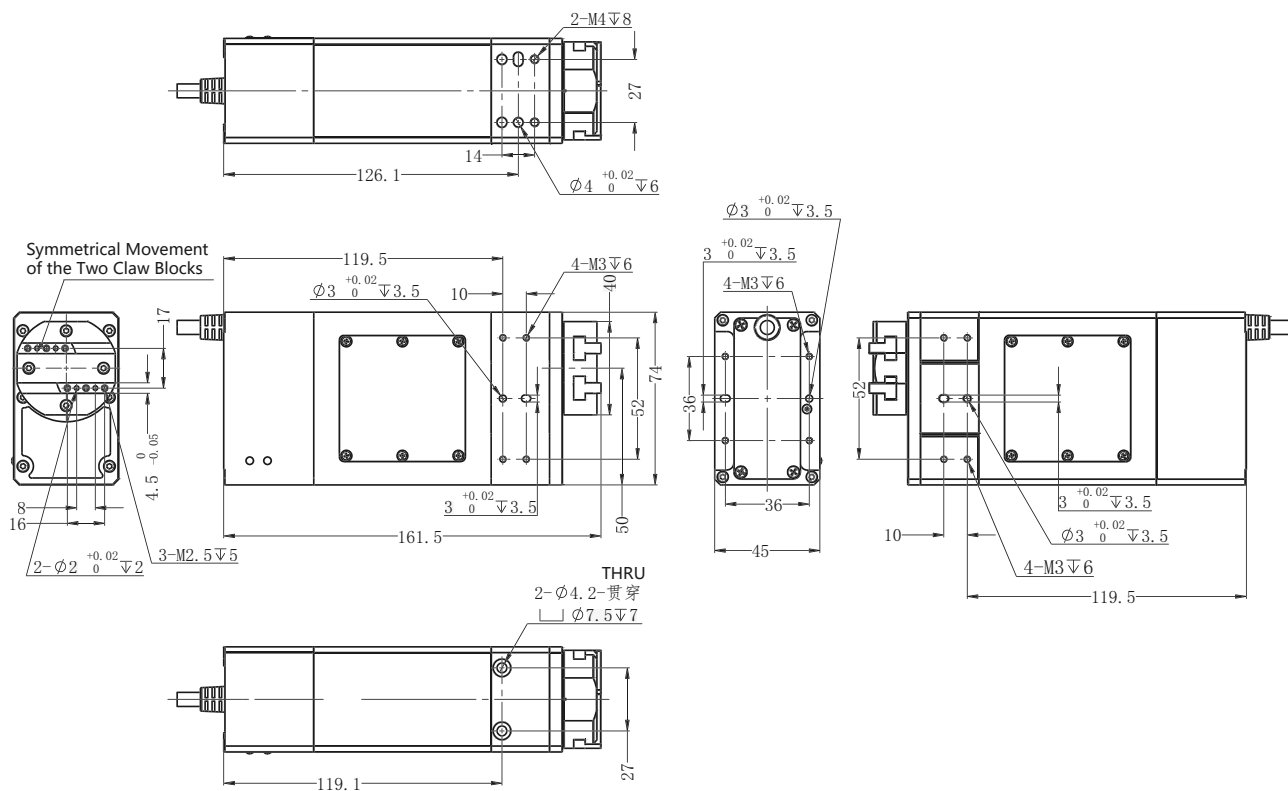
Stroke (mm)	0-32	Min/Max Rotation Angle	No Limitation
Gripping Force ¹ (N)	30-100	Max Speed (° /s)	1100
Max Opening/Closing Time (s)	0.3/0.3	Controller	Built-in
Allowable Static Load Moment (N.m)	MR: 2.1, MP: 2.1, MY: 2.1	Communication Protocol	Modbus RTU
Rated Torque (N.m)	0.4	Rated Voltage (V)	DC24±10%
Peak Torque (N.m)	1.2	Rated Current (A)	1.8
Max Allowable Inertia (kg/mm ²)	200	Peak Current (A)	4
Repeatability ² (mm)	±0.02	Weight (kg)	0.7
Rotation Repeatability (°)	±0.05	Working Environment	0~40°C, < 85%RH (Without condensation)
		IP Grade	IP40

1. The data is sourced from the actual test results in the 25°C laboratory.

2. If you require specifications for the gripping clearance, positioning accuracy, and rotation repeatability of the rotary gripper, or if you demand an even faster response time, please reach out to our sales team for technical confirmation and a tailored solution.

3. The drawings provided in this Catalogue are for the default standard model. If you require other models with different motor directions, outlet directions, or outlet methods, please contact your local sales representative to obtain the drawings for the optional models.

RGM-0609-360-32-08-2-D0300-ITG(Built-in Controller)



Installation Instructions:

1. When fixing the main body, please use all 4 screws on the same installation surface.
2. When tightening the bolts, do not exceed the depth of the threaded hole.

Stroke (mm)	0-32
Gripping Force ¹ (N)	30-100
Max Opening/Closing Time (s)	0.3/0.3
Allowable Static Load Moment (N.m)	MR:2.1, MP:2.1, MY:2.1
Rated Torque (N.m)	0.8
Peak Torque (N.m)	1.5
Max Allowable Inertia (kg/mm ²)	200
Repeatability ² (mm)	±0.02
Rotation Repeatability (°)	±0.05

Min/Max Rotation Angle	No Limitation
Max Speed (°/s)	2160
Controller	Built-in
Communication Protocol	Modbus RTU
Rated Voltage (V)	DC24±10%
Rated Current (A)	2
Peak Current (A)	4
Weight (kg)	1.1
Working Environment	0~40°C, < 85%RH (Without condensation)
IP Grade	IP40

1. The data is sourced from the actual test results in the 25°C laboratory.

2. If you require specifications for the gripping clearance, positioning accuracy, and rotation repeatability of the rotary gripper, or if you demand an even faster response time, please reach out to our sales team for technical confirmation and a tailored solution.

3. The drawings provided in this Catalogue are for the default standard model. If you require other models with different motor directions, outlet directions, or outlet methods, please contact your local sales representative to obtain the drawings for the optional models.



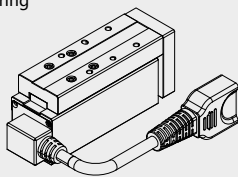
NPLA Series Micro Platform-type Linear Actuator

- High Rigidity
- Miniature Size
- High Repeatability
- High Speed & Stable

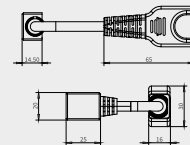
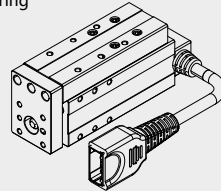
NPLA	-	10	-	30	-	2	-	L	-	S	0028
Series		Size		Stroke		Lead		Outlet Direction ¹		Wiring Method	Wiring Length
		10		30		1		L: Left		S: Switched	0028: 28cm
				50		2		R: Right			
								LF: Left Front			
								RF: Right Front			
								T: Tail			

*1: Instructions of the product outlet direction and wiring method.

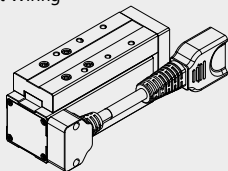
L: Left Wiring



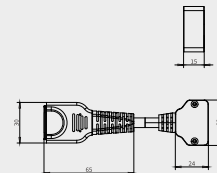
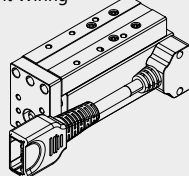
R: Right Wiring



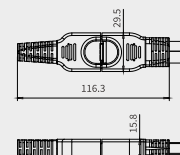
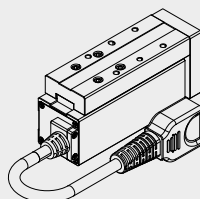
LF: Left Front Wiring



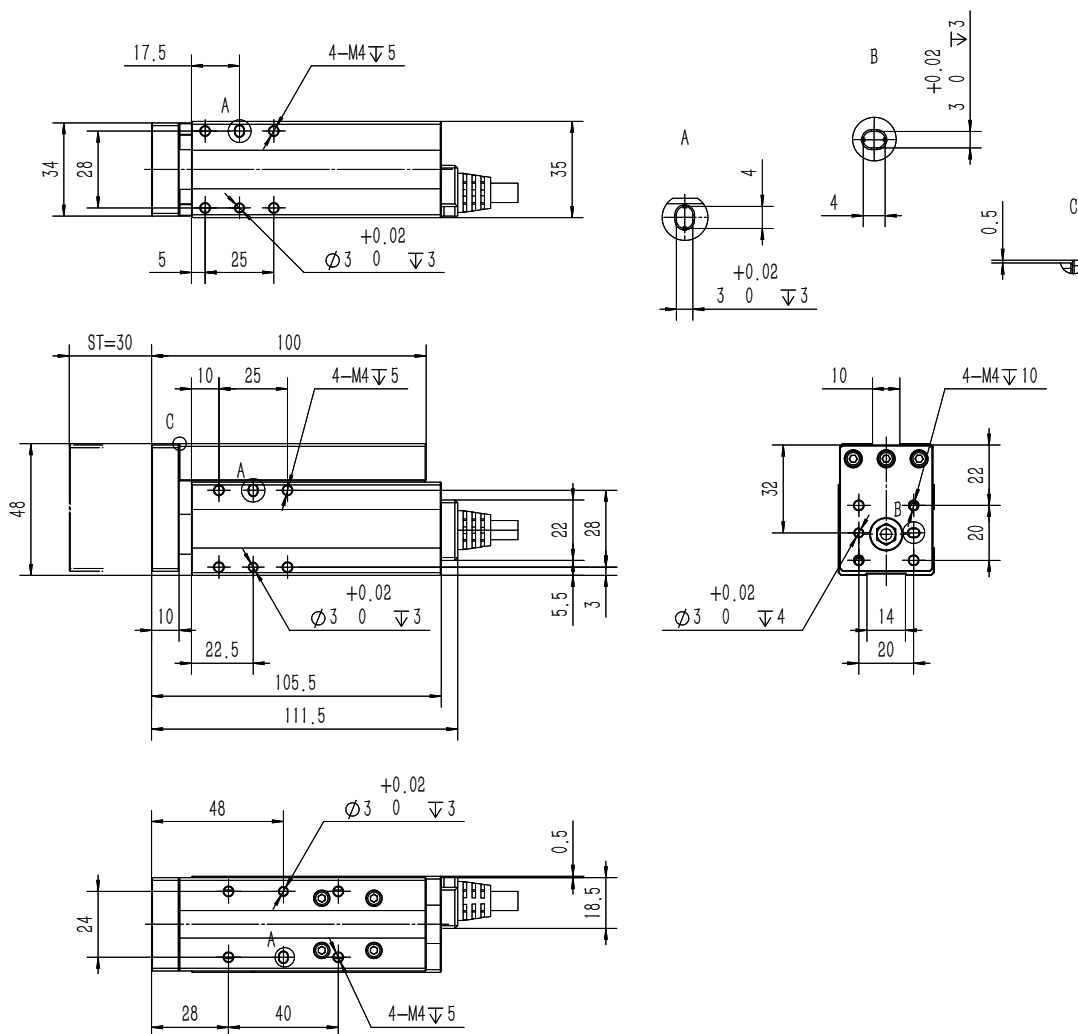
RF: Right Front Wiring



T: Tail Wiring



■ NPLA-10-30-1-T-S0028 NPLA-10-30-2-T-S0028



Installation Instructions:

1. When fixing the main body, please use all the screws on the same installation surface.
2. When tightening the bolts, do not exceed the depth of the threaded hole.

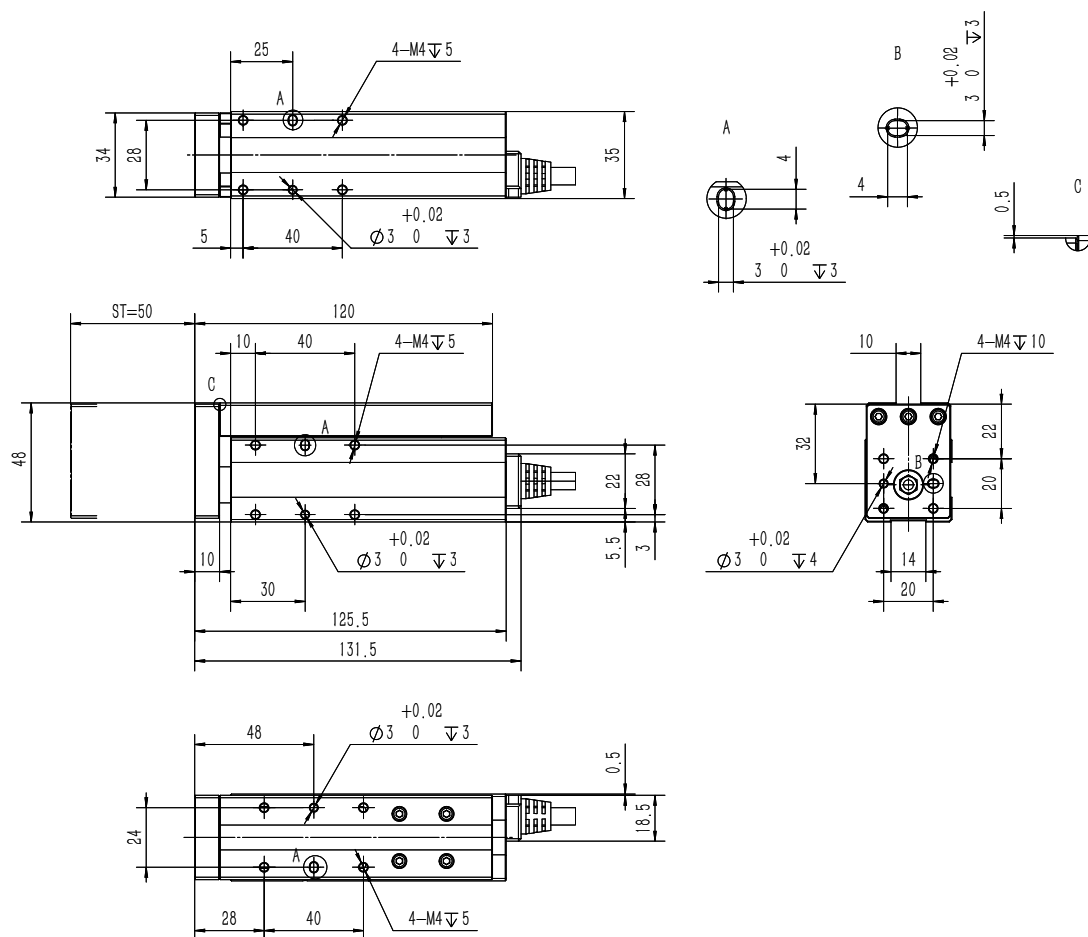
Parameters	Model	
	NPLA-10-30-1	NPLA-10-30-2
Size Code	10	10
Stroke (mm)	30	30
Lead(mm)	1	2
Max Speed (mm/s)	50	100
Max Pushing Force ¹ (N)	210	110
Max Horizontal Load (kg)	6	3
Max Vertical Load (kg)	3	2
Repeatability (mm)	±0.005	±0.005
Allowable Load Torque (N.m)	MP: 9.75, MR: 11.31, MY: 3.75	

Parameters	Model	
	NPLA-10-30-1	NPLA-10-30-2
Communication Protocol	Modbus RTU, EtherCAT, Modbus TCP, PROFINET, EtherNet/IP, CC-LINK, CANopen	
Rated Voltage (V)	DC24±10%	
Rated Current (A)	1.25	
Cable Length (m)	3/5(Optional)	
Weight (kg)	0.5	
Working Environment	0~40℃ , < 85%RH (Without condensation)	
IP Grade	IP40	

1. If an external controller is needed, please contact sales for model recommendations.

2. The drawings provided in this catalogue are for the default standard model. If you require other models with different motor directions, outlet directions, or outlet methods, please contact your local sales representative to obtain the drawings for the optional models.

■ NPLA-10-50-1-T-S0028
NPLA-10-50-2-T-S0028



Installation Instructions:

1. When fixing the main body, please use all the screws on the same installation surface.
2. When tightening the bolts, do not exceed the depth of the threaded hole.

Parameters	Model	
	NPLA-10-50-1	NPLA-10-50-2
Size Code	10	10
Stroke (mm)	50	50
Lead (mm)	1	2
Max Speed (mm/s)	50	100
Max Pushing Force ¹ (N)	210	110
Max Horizontal Load (kg)	6	3
Max Vertical Load (kg)	3	2
Repeatability (mm)	±0.005	±0.005
Allowable Load Torque (N.m)	MP: 9.75, MR: 11.31, MY: 3.75	

Parameters	Model	
	NPLA-10-50-1	NPLA-10-50-2
Communication Protocol	Modbus RTU, EtherCAT, Modbus TCP, PROFINET, EtherNet/IP, CC-LINK, CANopen	
Rated Voltage (V)	DC24±10%	
Rated Current (A)	1.25	
Cable Length (m)	3/5(Optional)	
Weight (kg)	0.6	
Working Environment	0~40°C , < 85%RH (Without condensation)	
IP Grade	IP40	

1. If an external controller is needed, please contact sales for model recommendations.

2. The drawings provided in this catalogue are for the default standard model. If you require other models with different motor directions, outlet directions, or outlet methods, please contact your local sales representative to obtain the drawings for the optional models.



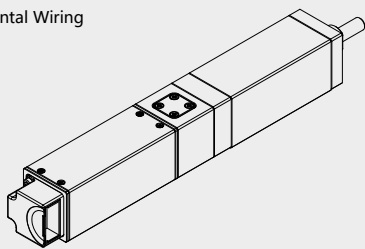
SLA Series Straight Linear Actuator

- Adaptive Pushing
- Wide Output Range
- Installed Side-by-side
- High Repeat Accuracy

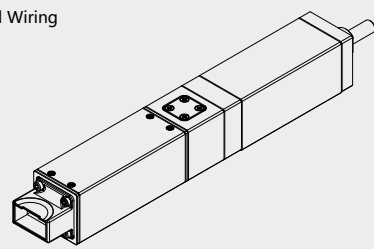
SLA	-	11	-	50	-	2	-	V	-	ITG	-	/
Series		Size		Stroke		Lead		Wiring Method		Control Method		Brake
		11		50		2		H: Horizontal		ITG		/
				100				V: Vertical				
		11		50		2		H: Horizontal		/		/
				100				V: Vertical				BK

*1: Instructions of the product wiring method.

H: Horizontal Wiring



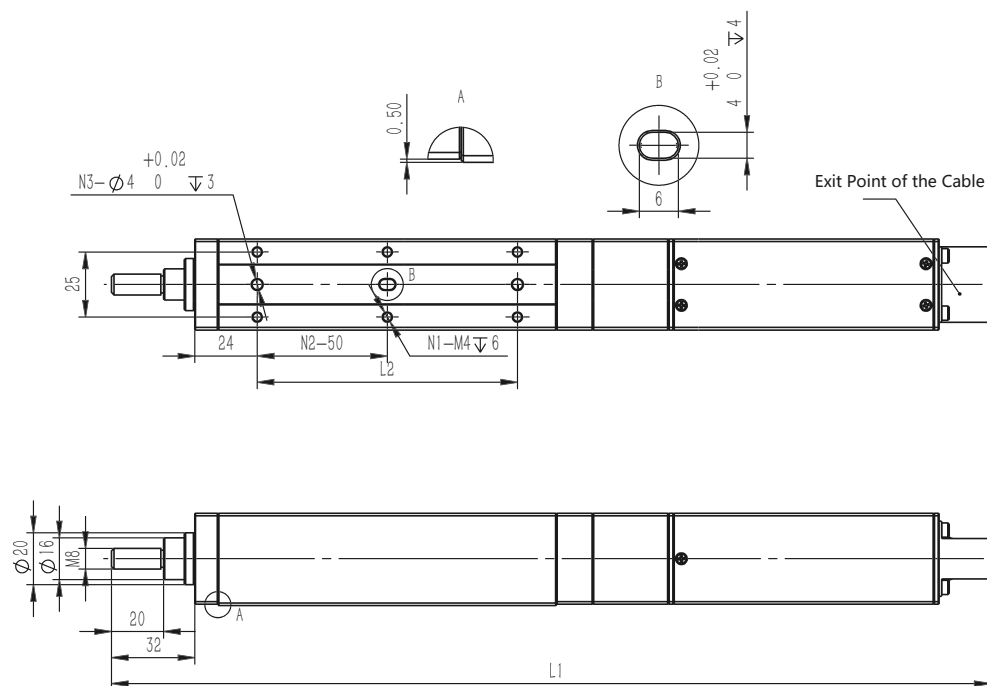
V: Vertical Wiring



Quick Selection Guide

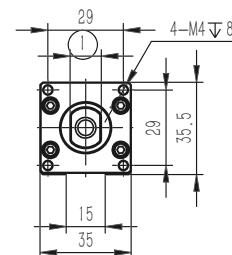
Model	Stroke (mm)	Pushing Force (N)	Max Vertical Load Mass (kg)	Max Speed (mm/s)	Repeatability (mm)	Controller
SLA-11-50-ITG	50	300	1.5	100	±0.02	Built-in
SLA-11-100-ITG	100	300	1.5	100	±0.02	Built-in
SLA-11-50	50	300	1.5	100	±0.02	External
SLA-11-100	100	300	1.5	100	±0.02	External

■ SLA-11-50-2-V-ITG(Integrated - Built-in Controller)
SLA-11-100-2-V-ITG(Integrated - Built-in Controller)



Stroke	50	100
L1	288	338
L2	/	100
N1	4	6
N2	1	2
N3	1	2

The letter ① represents the reference plane for parallel surfaces, with the orientation of the plane being uncertain (the vertical direction in the illustration is for illustrative purposes only).



Installation Instructions:

1. When fixing the main body, please use all the screws on the same installation surface.
2. When tightening the bolts, do not exceed the depth of the threaded hole.

Parameters		Model	
		SLA-11-50-2-ITG	SLA-11-100-2-ITG
Spec.	Size	11	11
	Stroke (mm)	50	100
	Lead (mm)	2	2
Performance	Max Speed (mm/s)	100	100
	Max Pushing Force ¹ (N)	300	300
	Max Vertical Load (kg)	1.5	1.5
	Repeatability (mm)	±0.02	±0.02
	Anti-rotation Accuracy (°)	±1.5	±1.5

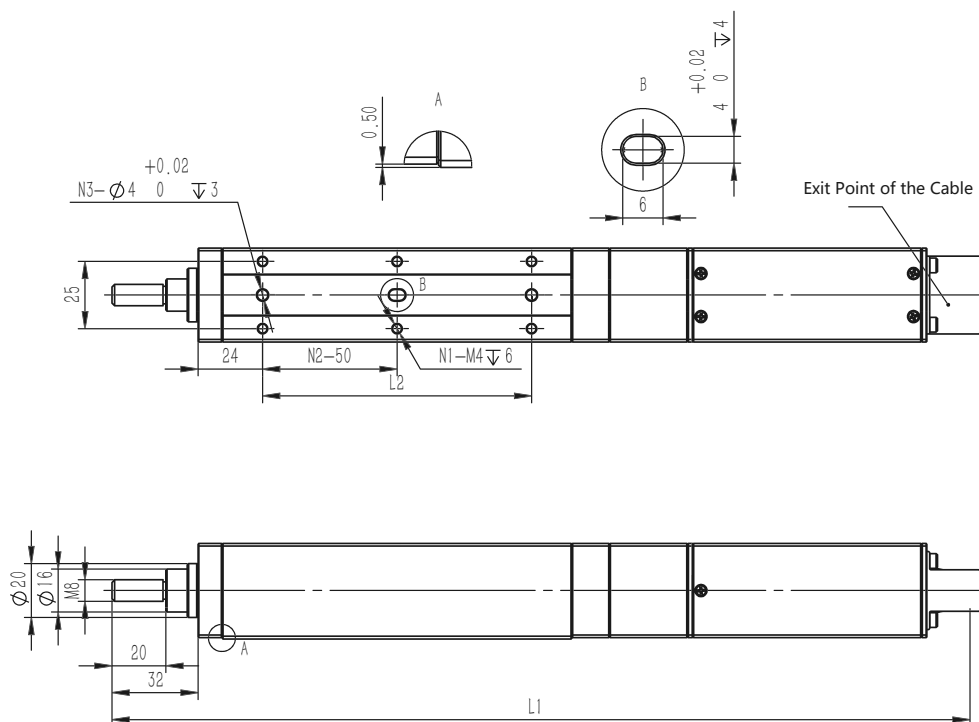
Parameters		Model	
		SLA-11-50-2-ITG	SLA-11-100-2-ITG
Control Method	Bus Interface	Modbus RTU/CANopen	
	I/O Interface	I/O	
	I/O Interface	Input 3 Points (NPN), Output 3 Points (NPN)	
Operating Environment	Rated Voltage (V)	DC24±10%	
	Rated Current (A)	2	
	Weight (kg)	0.7	0.9
	Working Environment	0~40°C, < 85%RH (Without condensation)	
	IP Grade	IP40	

1. The data is sourced from the actual test results in the 25°C laboratory.

2. If you require a product with a brake, please contact your sales representative for a drawing.

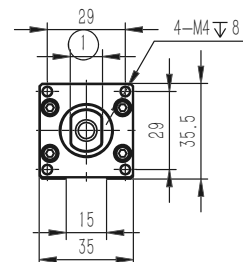
3. The drawings provided in this Catalogue are for the default standard model. If you require other models with different motor directions, outlet directions, or outlet methods, please contact your local sales representative to obtain the drawings for the optional models.

■ SLA-11-50-2-V
SLA-11-100-2-V



Stroke	50	100
L1	273	323
L2	/	100
N1	4	6
N2	1	2
N3	1	2

The letter ① represents the reference plane for parallel surfaces, with the orientation of the plane being uncertain (the vertical direction in the illustration is for illustrative purposes only).



Installation Instructions:

1. When fixing the main body, please use all the screws on the same installation surface.
2. When tightening the bolts, do not exceed the depth of the threaded hole.

Parameters		Model	
		SLA-11-50-2	SLA-11-100-2
Spec.	Size	11	11
	Stroke (mm)	50	100
	Lead (mm)	2	2
Performance	Max Speed (mm/s)	100	100
	Max Pushing Force ¹ (N)	300	300
	Max Vertical Load (kg)	1.5	1.5
	Repeatability (mm)	±0.02	±0.02
	Anti-rotation Accuracy (°)	±1.5	±1.5

Parameters		Model	
		SLA-11-50-2	SLA-11-100-2
Communication Protocol		Modbus RTU, EtherCAT, Modbus TCP, PROFINET, EtherNet/IP, CC-LINK, CANopen	
Operating Environment	Rated Voltage (V)	DC24±10%	
	Rated Current (A)	2	
	Weight (kg)	0.7	0.9
	Working Environment	0~40°C, < 85%RH (Without condensation)	
	IP Grade	IP40	

1. The data is sourced from the actual test results in the 25°C laboratory.

2. If you require a product with a brake, please contact your sales representative for a drawing.

3. The drawings provided in this Catalogue are for the default standard model. If you require other models with different motor directions, outlet directions, or outlet methods, please contact your local sales representative to obtain the drawings for the optional models.



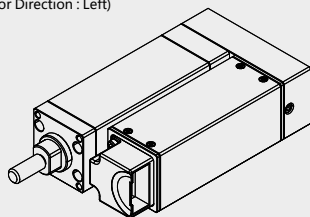
RLA Series Folding Linear Actuator

- Adaptive Pushing
- Folding Structure
- High Repeatability
- Fast Response Speed

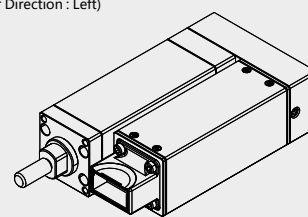
RLA	-	11	-	50	-	2	-	L	-	V	-	ITG	-	/
Series		Size		Stroke		Lead		Motor Direction		Wiring Method ^{*1}		Control Method		Brake
		11		50		2		L: Left		H: Horizontal		ITG		/
				100				R: Right		V: Vertical				
		11		50		2		L: Left		H: Horizontal		/		/
				100				R: Right		V: Vertical				BK

*1: Instructions of the product wiring method.

H: Horizontal Wiring (Motor Direction : Left)



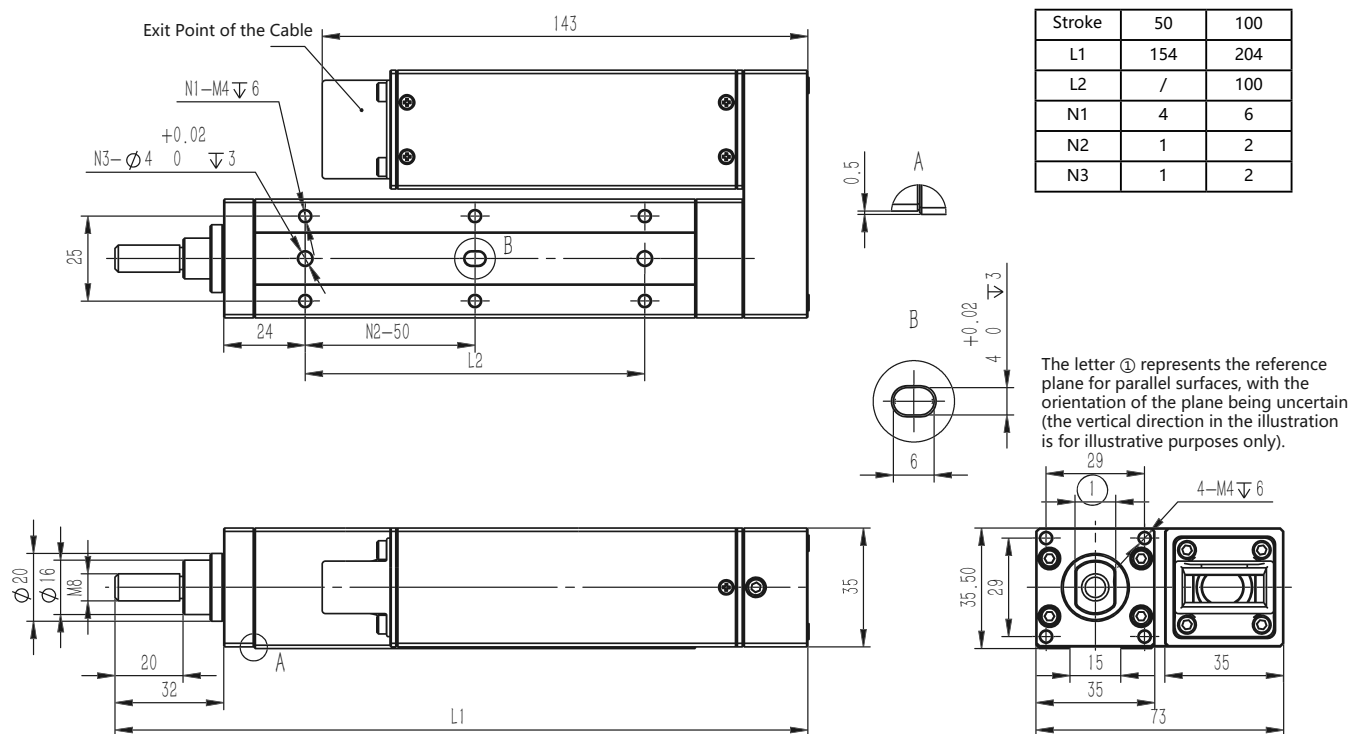
V: Vertical Wiring (Motor Direction : Left)



Quick Selection Guide

Model	Stroke (mm)	Pushing Force (N)	Max Vertical Load Mass (kg)	Max Speed (mm/s)	Repeatability (mm)	Controller
RLA-11-50-ITG	50	300	1.5	100	±0.02	Built-in
RLA-11-100-ITG	100	300	1.5	100	±0.02	Built-in
RLA-11-50	50	300	1.5	100	±0.02	External
RLA-11-100	100	300	1.5	100	±0.02	External

■ RLA-11-50-2-L-V-ITG(Integrated - Built-in Controller)?
RLA-11-100-2-L-V-ITG(Integrated - Built-in Controller)



Installation Instructions:

1. When fixing the main body, please use all the screws on the same installation surface.
2. When tightening the bolts, do not exceed the depth of the threaded hole.

Parameters		Model	
		RLA-11-50-2-ITG	RLA-11-100-2-ITG
Spec.	Size	11	11
	Stroke (mm)	50	100
	Lead (mm)	2	2
Performance	Max Speed (mm/s)	100	100
	Max Pushing Force ¹ (N)	300	300
	Max Vertical Load (kg)	1.5	1.5
	Repeatability (mm)	±0.02	±0.02
	Anti-rotation Accuracy (°)	±1.5	±1.5

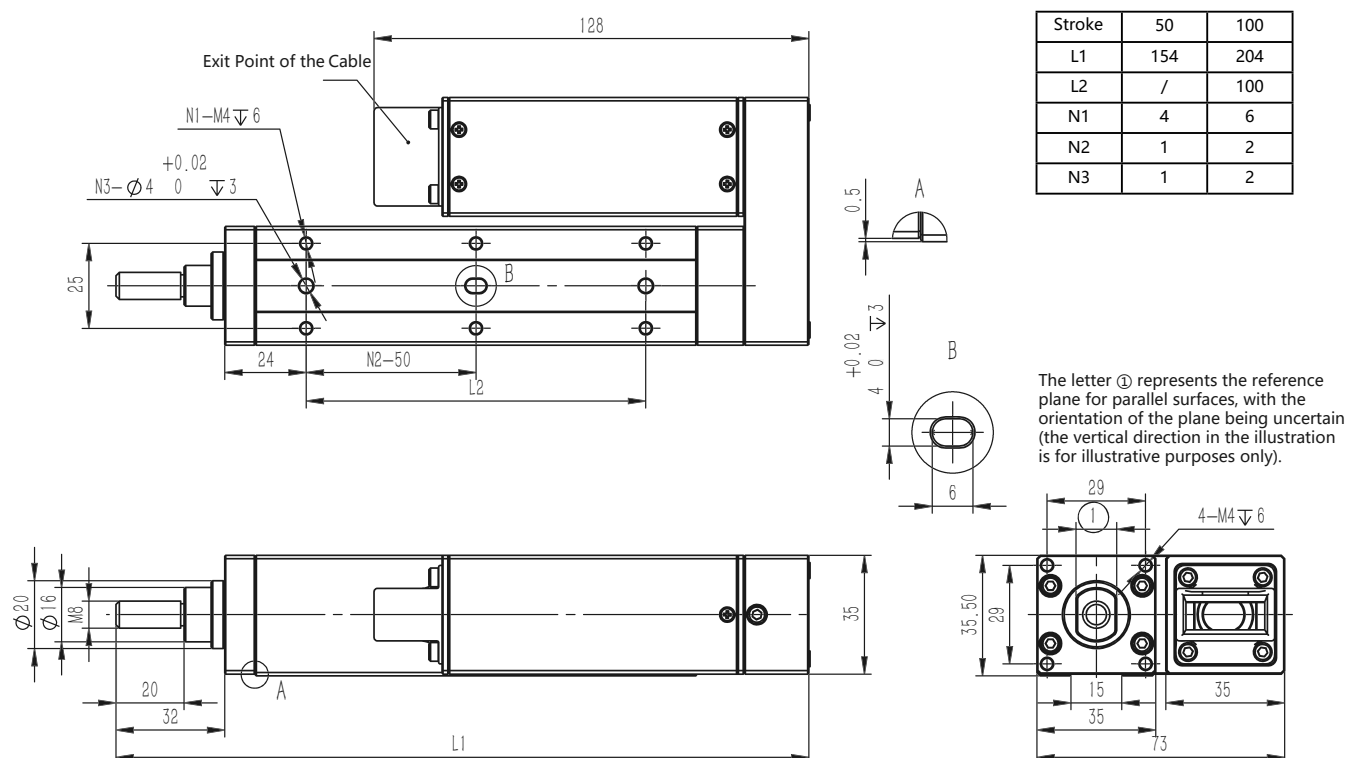
Parameters		Model	
		RLA-11-50-2-ITG	RLA-11-100-2-ITG
Control Method	Bus	Modbus RTU/CANopen	
	Interface	I/O	
	I/O Interface	Input 3 Points (NPN), Output 3 Points (NPN)	
Operating Environment	Rated Voltage (V)	DC24±10%	
	Rated Current (A)	2	
	Weight (kg)	0.9	1.1
	Working Environment	0~40°C, < 85%RH (Without condensation)	
	IP Grade	IP40	

1. The data is sourced from the actual test results in the 25°C laboratory.

2. If you require a product with a brake, please contact your sales representative for a drawing.

3. The drawings provided in this Catalogue are for the default standard model. If you require other models with different motor directions, outlet directions, or outlet methods, please contact your local sales representative to obtain the drawings for the optional models.

■ RLA-11-50-2-L-V
RLA-11-100-2-L-V



Installation Instructions:

1. When fixing the main body, please use all the screws on the same installation surface.
2. When tightening the bolts, do not exceed the depth of the threaded hole.

Parameters		Model	
		RLA-11-50-2	RLA-11-100-2
Spec.	Size	11	11
	Stroke (mm)	50	100
	Lead (mm)	2	2
Performance	Max Speed (mm/s)	100	100
	Max Pushing Force ¹ (N)	300	300
	Max Vertical Load (kg)	1.5	1.5
	Repeatability (mm)	±0.02	±0.02
	Anti-rotation Accuracy (°)	±1.5	±1.5

Parameters		Model	
		RLA-11-50-2	RLA-11-100-2
Communication Protocol		Modbus RTU, EtherCAT, Modbus TCP, PROFINET, EtherNet/IP, CC-LINK, CANopen	
Operating Environment	Rated Voltage (V)	DC24±10%	
	Rated Current (A)	2	
	Weight (kg)	0.9	1.1
	Working Environment	0~40°C, < 85%RH (Without condensation)	
	IP Grade	IP40	

1. The data is sourced from the actual test results in the 25°C laboratory.

2. If you require a product with a brake, please contact your sales representative for a drawing.

3. The drawings provided in this Catalogue are for the default standard model. If you require other models with different motor directions, outlet directions, or outlet methods, please contact your local sales representative to obtain the drawings for the optional models.



ZR/ZRS Series Direct-drive Actuator

ZR Series



- **High Performance**

It can perform in high-speed, high-frequency combined motion with ultra-high precision control of force, position, velocity, and arbitrary rotational angle adjustments.

- **High Precision**

Position Repeatability Accuracy: $\pm 10\mu\text{m}$
Rotation Repeatability Resolution: 0.003°

- **High Speed Contact without Overtravel**

Contacting the surface of the components with high speed and minimal force, enabling rapid and flexible picking and placing of workpieces, while avoiding excessive impact that could damage delicate and fragile parts.

- **High Reliability**

The core components are assembled using high-quality imported parts, ensuring high rigidity, long service life, and superior durability, as well as excellent reliability and stability.

ZRS Series



- **Ultra-thin body**

Body thickness: 20mm

- **High force control precision**

$\pm 0.03\text{N}$ (Pushing Force < 1)
 $\pm 0.1\text{N}$ (Pushing Force ≥ 1)

- **Large range Continuous force**

15N
Peak output reaches 20-35N. Please contact our sales representative for details.

- **Maximum linear stroke resolution**

$0.5\mu\text{m}$

- **Highest repeat positioning accuracy**

$\pm 5\mu\text{m}$

ZR

-

20

-

8

-

T

Series

Thickness

Stroke

Wiring Method

ZR: High Speed

20

40

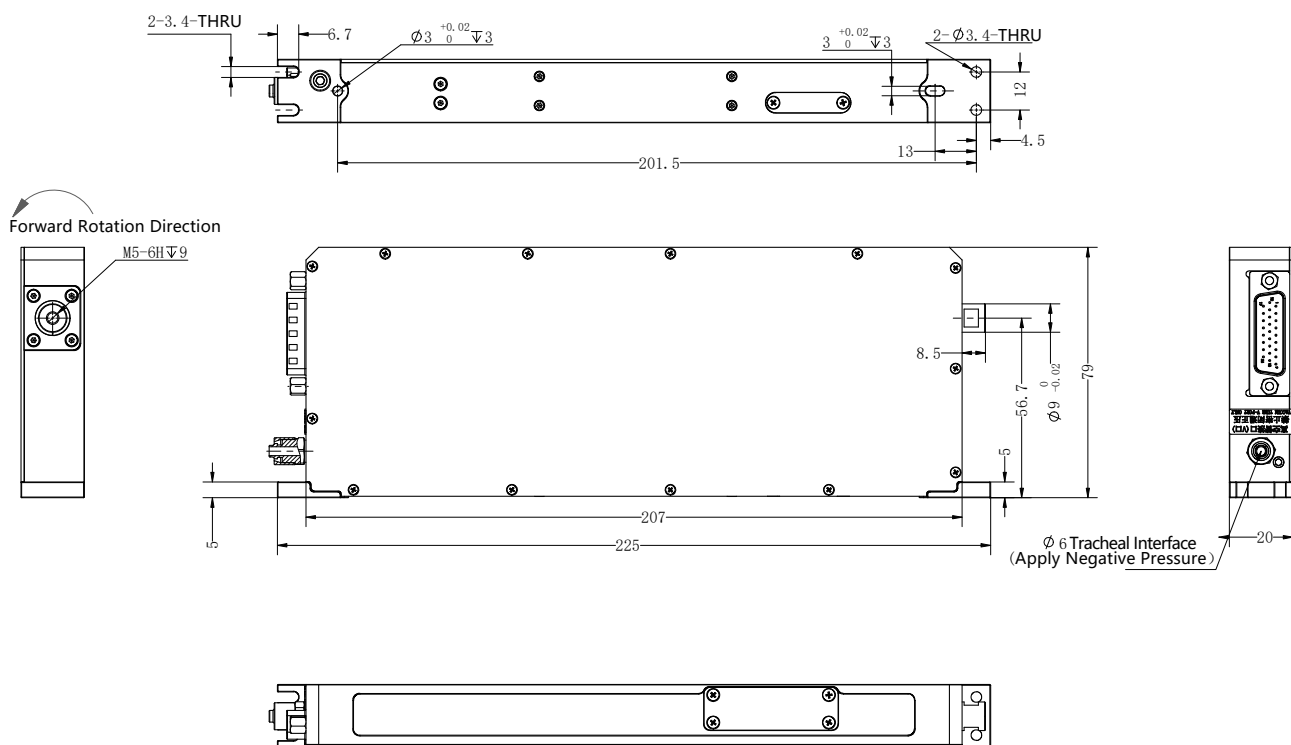
T: Top

ZRS: High Pushing Force

Quick Selection Guide

Model	Stroke (mm)	Thickness (mm)	Peak Force ¹ (N)	Max Speed (r/min)	Z Axis Repeatability (μm)	Rotation Encoder Resolution ($^\circ$)
ZR-20-40-T	40	20	4	5000	± 10	0.003
ZRS-20-40-T	40	20	20	1500	± 5	0.003

■ ZR-20-40-T



Installation Instructions:

1. When fixing the main body, please use all the screws on the same installation surface.
2. When tightening the bolts, do not exceed the depth of the threaded hole.

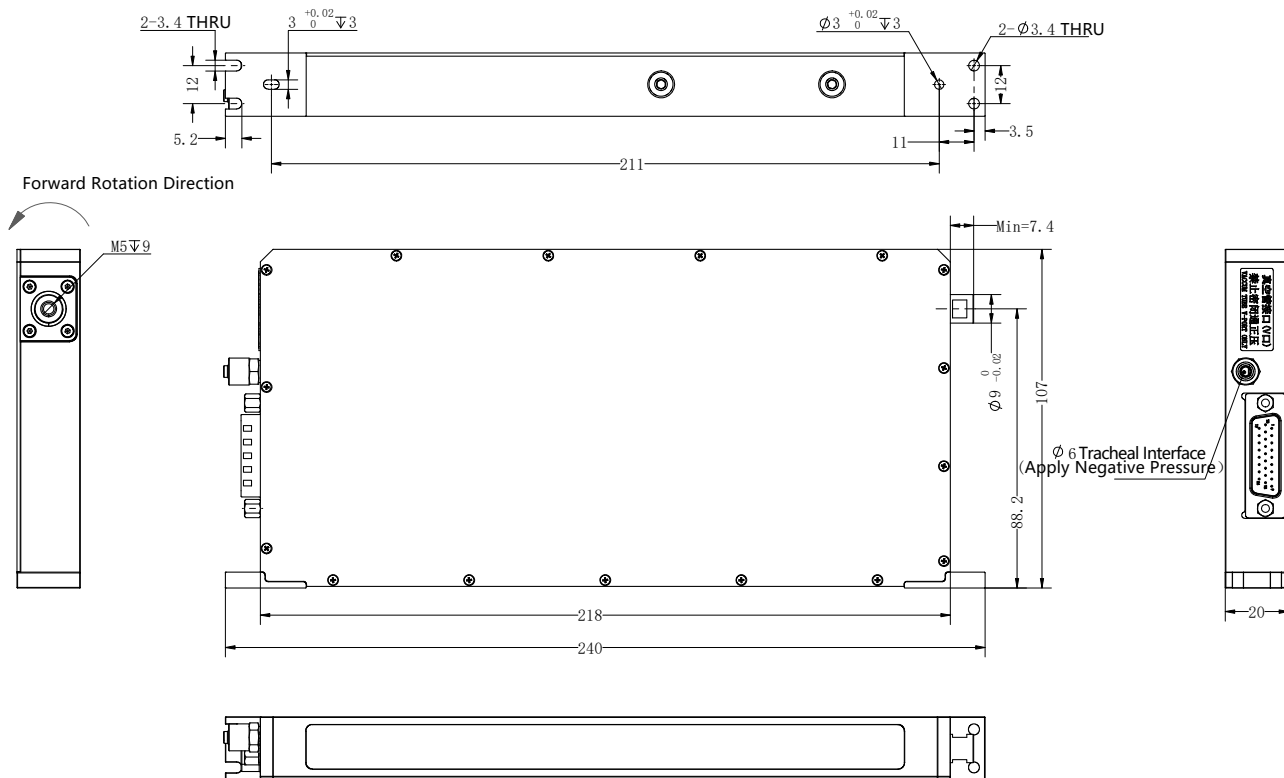
Thickness (mm)	20	Rotation Encoder Resolution (°)	0.003 (17-bit)
Stroke (mm)	40	Radial Runout of ZR Output Shaft (μm)	±10
Continuous Force ¹ (N)	2.8	Axial Runout Accuracy of ZR Output Shaft (μm)	±10
Peak Force ¹ (N)	4	Straightness Accuracy of ZR Output Shaft (μm)	±10
Force Constant (N/A)	6.5	Adhesive Force (kpa)	≤ -90 (X-KCV15HS Vacuum Generator Test)
Mobile mass (g)	150	Negative Pressure Difference (kpa)	≤ -20 (X-KCV15HS Vacuum Generator Test)
Rated Torque ¹ (mN.m)	16	Communication Protocol	Modbus RTU, EtherCAT, Modbus TCP, PROFINET, EtherNet/IP, CC-LINK, CANopen
Peak Torque ¹ (mN.m)	48	Rated Voltage (V)	24VDC±10%
Rated Rotation Speed (r/min)	3000	Rated Current (A)	Straight Line (0.55) Rotation (1.5)
Max Speed (r/min)	5000	Peak Current (A)	Straight Line (1.65) Rotation (4.5)
Max Load Mass (g)	150	Weight (kg)	0.6
Force Repetition Accuracy (N)	±0.03 (Pushing Force <1) ±0.1 (Pushing Force ≥ 1)	Cable Length (m)	3
Z Axis Repeatability (μm)	±10	Working Environment	0~40°C, < 85%RH (Without condensation)
Frequency (Hz)	5	IP Grade	IP40
Linear Stroke Resolution (μm)	0.5		

1. The data is sourced from the actual test results in the 25°C laboratory.

2. If you require a product with a brake, please contact your sales representative for a drawing.

3. The drawings provided in this Catalogue are for the default standard model. If you require other models with different motor directions, outlet directions, or outlet methods, please contact your local sales representative to obtain the drawings for the optional models.

■ ZRS-20-40-T



Installation Instructions:

1. When fixing the main body, please use all the screws on the same installation surface.
2. When tightening the bolts, do not exceed the depth of the threaded hole.

Thickness (mm)	20
Stroke (mm)	40
Continuous Force ¹ (N)	15
Force Constant ¹ (N)	20
Force Constant (N/A)	13.5
Mobile mass (g)	200
Rated Torque ¹ (mN.m)	23
Peak Torque ¹ (mN.m)	60
Rated Rotation Speed (r/min)	1000
Max. speed (r/min)	1500
Max. load Mass (g)	200
Force Repetition Accuracy (N)	±0.03 (Pushing Force <1) ±0.1 (Pushing Force ≥ 1)
Z Axis Repeatability (μm)	±5
Frequency (Hz)	5
Linear Stroke Resolution (μm)	0.5

Rotation Encoder Resolution (°)	0.003 (17-bit)
Radial Runout of ZR Output Shaft (μm)	±10
Axial Runout Accuracy of ZR Output Shaft (μm)	±10
Straightness Accuracy of ZR Output Shaft (μm)	±10
Adhesive Force (kpa)	≤ -95 (X-KCV15HS Vacuum Generator Test)
Negative Pressure Difference (kpa)	≤ -23 (X-KCV15HS Vacuum Generator Test)
Communication Protocol	Modbus RTU, EtherCAT, Modbus TCP, PROFINET, EtherNet/IP, CC-LINK, CANopen
Rated Voltage (V)	24VDC±10%
Rated Current (A)	Straight Line (1.45) Rotation (0.54)
Peak Current (A)	Straight Line (3.15) Rotation (1.5)
Weight (kg)	1.1
Cable Length (m)	3
Working Environment	0~40°C, < 85%RH (Without condensation)
IP Grade	IP40

1. The data is sourced from the actual test results in the 25°C laboratory.

2. If you require a product with a brake, please contact your sales representative for a drawing.

3. The drawings provided in this Catalogue are for the default standard model. If you require other models with different motor directions, outlet directions, or outlet methods, please contact your local sales representative to obtain the drawings for the optional models.

* Fingertips for demonstration only.



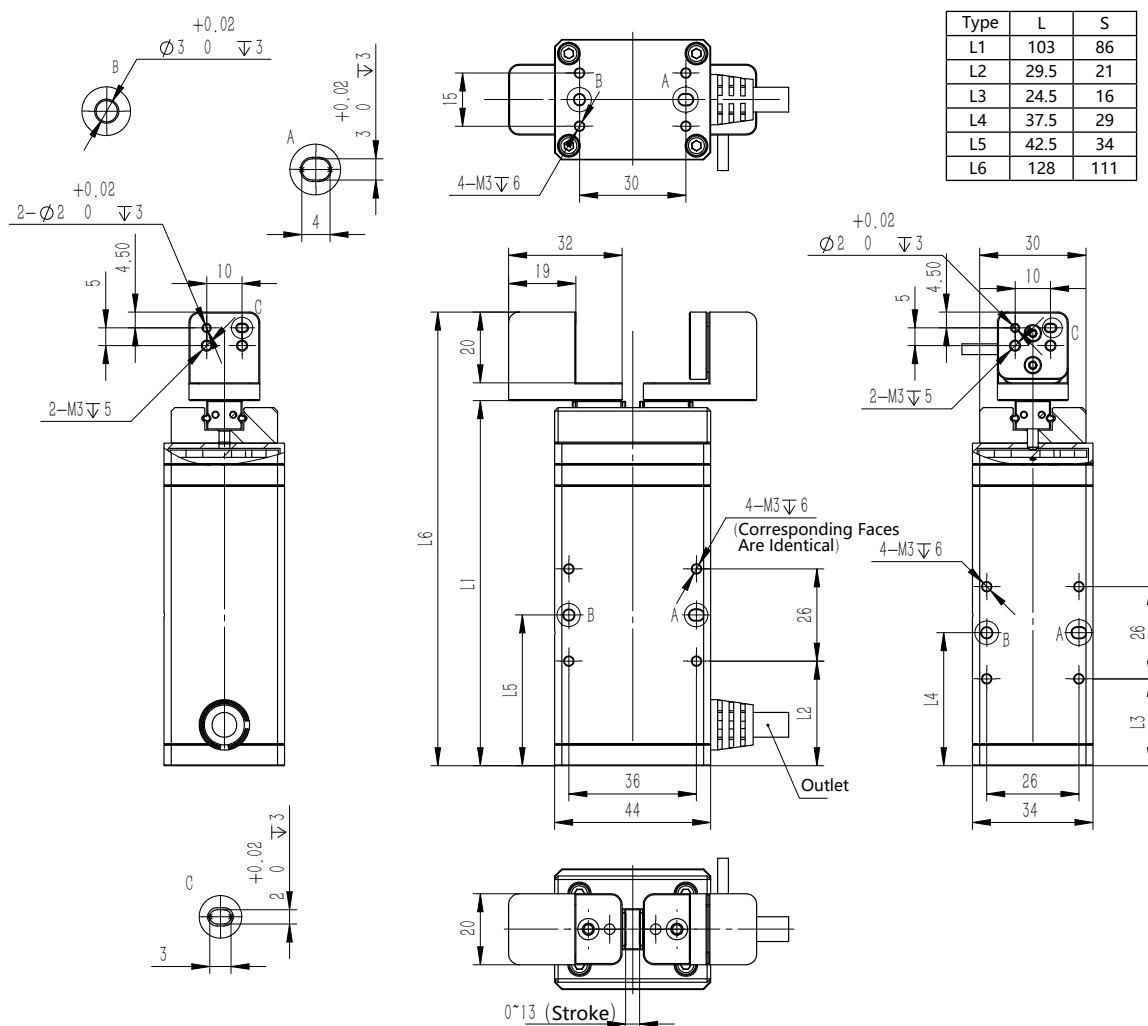
MGBD-F Series Micro Gripper- Double Claws- Force Controlled

MGBD	-	08	-	8	-	/	-	S	0028	-	F10	-	001
Series		Size		Type		Length		Wiring Method	Wiring Length		Stroke Scale		Absolute Accuracy
		08		8		/		S: Switched	0028: 28cm		F10		0001: ±0.01
											F50		001: ±0.1
		11		14		S		S: Switched	0028: 28cm		F10		0001: ±0.01
						L					F50		001: ±0.1

Quick Selection Guide

Model	Stroke (mm)	Closed-loop Output Force Range (N)	Max Opening/Closing Time (s)	Repeatability (mm)	Controller
MGBD-08-8-F10	7	0.02~3.5	0.5	±0.02	External
MGBD-08-8-F50	7	0.2~3.5	0.5	±0.02	External
MGBD-11-14-S-F10	13	0.02~9.98	0.5	±0.02	External
MGBD-11-14-S-F50	13	0.2~10.5	0.5	±0.02	External
MGBD-11-14-L-F10	13	0.02~9.98	0.5	±0.02	External
MGBD-11-14-L-F50	13	0.2~21	0.5	±0.02	External

■ MGBD-11-14-S-S0028-F10/F50
MGBD-11-14-L-S0028-F10/F50



Installation Instructions:

1. When fixing the main body, please use all the screws on the same installation surface.
2. When tightening the bolts, do not exceed the depth of the threaded hole.

Parameters	Model	
	MGBD-11-14-S-F	MGBD-11-14-L-F
Size	11	11
Type	14	14
Length	S	L
Stroke(mm)	13	13
Repeatability(mm)	±0.02	±0.02
Max Opening/Closing Time(s)	0.5	0.5
Backlash (mm)	< 0.05 (One-side)	< 0.05 (One-side)
Closed-loop Output Force Range(N)	F10-0001: 0.02~9.98 F50-001: 0.2~10.5	F10-0001: 0.02~9.98 F50-001: 0.2~21

Parameters	Model	
	MGBD-11-14-S-F	MGBD-11-14-L-F
Communication Protocol	Modbus RTU, EtherCAT, Modbus TCP, PROFINET, EtherNet/IP, CC-LINK, CANopen	
Rated Voltage (V)	DC24±10%	
Rated Current (A)	2	
Weight (kg)	0.5	0.6
Working Environment	0~40°C, < 85%RH (Without condensation)	
IP Grade	IP40	

1. The data is sourced from the actual test results in the 25°C laboratory.
2. If you require a product with a brake, please contact your sales representative for a drawing.
3. The drawings provided in this Catalogue are for the default standard model. If you require other models with different motor directions, outlet directions, or outlet methods, please contact your local sales representative to obtain the drawings for the optional models.

* Fingertips for demonstration only.



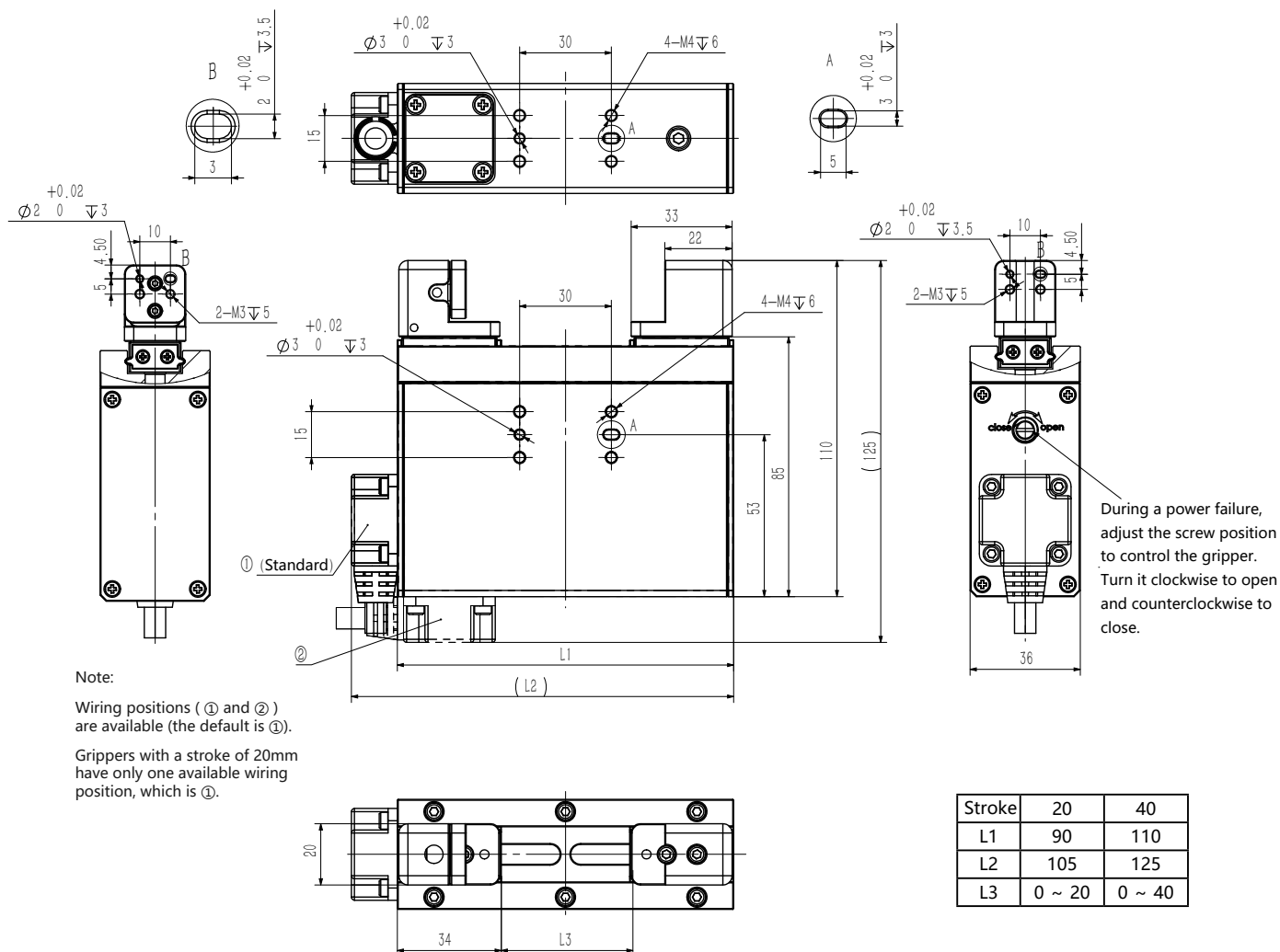
GB-F Series Servo Gripper - Force Controlled

GB	-	17	-	60	-	2	-	1	-	S	0028	-	F50	-	001
Series		Size		Stroke		Type		Outlet Direction *1		Wiring Method *1	Wiring Length		Stroke Scale		Absolute Accuracy
		11		20		2		1: Side		S: Switched	0028: 28cm		F10		0001: ±0.01
										V: Vertical	/		F50		001: ±0.1
										H: Horizontal	/		F100		010: ±1
		11		40		2		1: Side		S: Switched	0028: 28cm		F10		0001: ±0.01
								2: Bottom		V: Vertical	/		F50		001: ±0.1
										H: Horizontal	/		F100		010: ±1
		17		60		2		1: Side		S: Switched	0028: 28cm		F50		001: ±0.1
										V: Vertical	/		F100		010: ±1
										H: Horizontal	/				

*1: Instructions of the product outlet direction and wiring method.

Wiring Method	Outlet Direction 1: Side (The same fixed surface can be installed in four directions)	Outlet Direction 2: Bottom (The same fixed surface can be installed in four directions)	Connection Size
S: Switched Wiring			
H: Horizontal Wiring			
V: Vertical Wiring			

■ GB-11-20-2-1-S0028-F10/F50/F100
GB-11-40-2-1-S0028-F10/F50/F100



Installation Instructions:

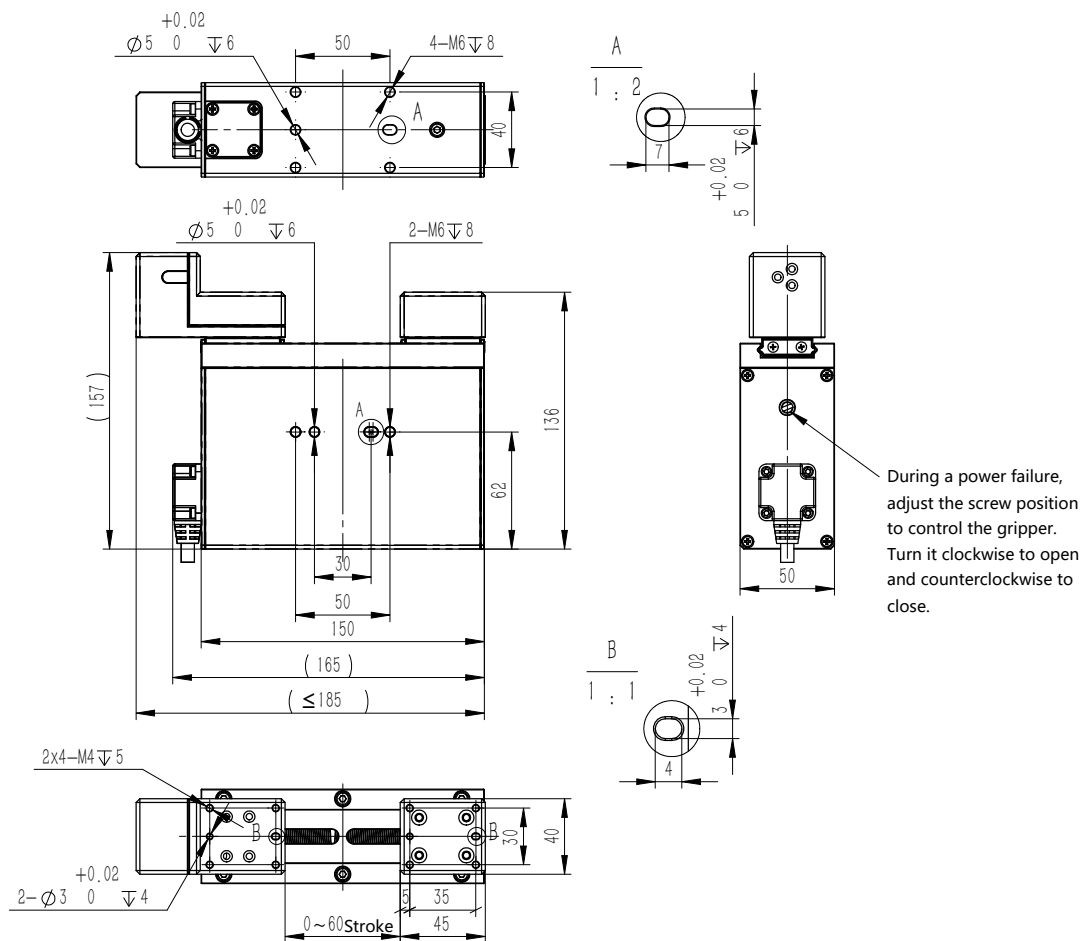
1. When fixing the main body, please use all the screws on the same installation surface.
2. When tightening the bolts, do not exceed the depth of the threaded hole.

Parameters	Model	
	GB-11-20-2-F	GB-11-40-2-F
Size	11	
Stroke (mm)	20	40
Model	2	
Max Speed (mm/s)	80	
Repeatability (mm)	±0.05	
Backlash (mm)	< 0.1 (One-side)	
Closed-loop Output Force Range (N)	F10-0001: 0.02~9.98 F50-001: 0.2~45.5 F100-010: 1.1~45.5	F10-0001: 0.02~9.98 F50-001: 0.2~49.8 F100-010: 1.1~77

Parameters	Model	
	GB-11-20-2-F	GB-11-40-2-F
Communication Protocol	Modbus RTU, EtherCAT, Modbus TCP, PROFINET, EtherNet/IP, CC-LINK, CANopen	
Rated Voltage (V)	DC24±10%	
Rated Current (A)	2	
Weight (kg)	0.9	1.2
Working Environment	0~40°C, < 85%RH (Without condensation)	
IP Grade	IP40	

1. The data is sourced from the actual test results in the 25°C laboratory.
2. If you require a product with a brake, please contact your sales representative for a drawing.
3. The drawings provided in this Catalogue are for the default standard model. If you require other models with different motor directions, outlet directions, or outlet methods, please contact your local sales representative to obtain the drawings for the optional models.

GB-17-60-2-1-S0028-F50/F100



Installation Instructions:

1. When fixing the main body, please use all the screws on the same installation surface.
2. When tightening the bolts, do not exceed the depth of the threaded hole.

Size	17
Stroke (mm)	60
Model	2
Max Speed (mm/s)	100
Repeatability (mm)	±0.05
Backlash (mm)	<0.1 (One-side)
Closed-loop Output Force Range (N)	F50-001: 0.2~49.8 F100-010: 1.1~98.9

Communication Protocol	Modbus RTU, EtherCAT, Modbus TCP, PROFINET, EtherNet/IP, CC-LINK, CANopen
Rated Voltage (V)	DC24±10%
Rated Current (A)	4
Weight (kg)	2.3
Working Environment	0~40°C, < 85%RH (Without condensation)
IP Grade	IP40

1. The data is sourced from the actual test results in the 25°C laboratory.
2. If you require a product with a brake, please contact your sales representative for a drawing.
3. The drawings provided in this Catalogue are for the default standard model. If you require other models with different motor directions, outlet directions, or outlet methods, please contact your local sales representative to obtain the drawings for the optional models.



NPLA-HF Series Micro Platform-type Linear Actuator- Force Controlled

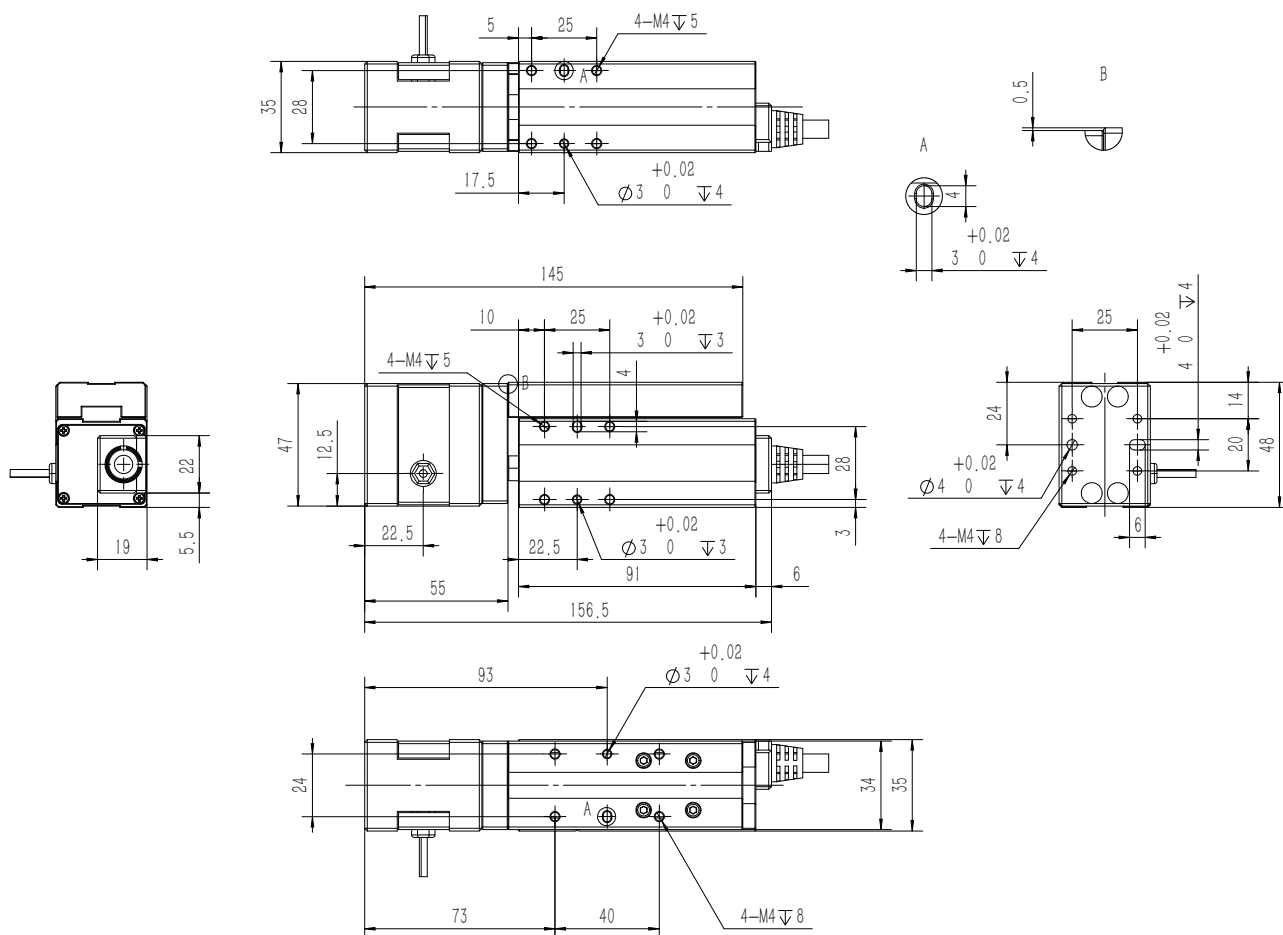
- Miniature Size
- High Rigidity
- High Repeatability
- High-speed & stable

NPLA	-	10	-	30	-	2	-	T	-	S	0028	-	HF	-	001
Series		Size		Stroke		Lead		Outlet Direction *1		Wiring Method *1	Wiring Length		Stroke Scale		Absolute Accuracy
	10	30	1	50	T: Tail L: Left R: Right	S: Switched	0028: 28cm	F50 F100 F200	001: ±0.1 005: ±0.5 010: ±1						
	10	30	2	50	T: Tail L: Left R: Right	S: Switched	0028: 28cm	F10 F50 F100	0001: ±0.01 001: ±0.1 005: ±0.5						
	10	30	4	50	T: Tail L: Left R: Right	S: Switched	0028: 28cm	F10 F50	0001: ±0.01 001: ±0.1						

Quick Selection Guide

Model	Stroke (mm)	Max Speed (mm/s)	Max Load Mass (kg)		Repeatability (mm)	Closed-loop Output Force Range (N)
			Horizontal	Vertical		
NPLA-10-30-1-HF50	30	50	2	3	±0.005	0.2 ~ 49.8
NPLA-10-30-1-HF100	30	50	2	3	±0.005	0.6~99.4
NPLA-10-30-1-HF200	30	50	2	3	±0.005	1.1~198.9
NPLA-10-30-2-HF10	30	100	0.5	0.5	±0.005	0.02~9.98
NPLA-10-30-2-HF50	30	100	2	2	±0.005	0.2~49.8
NPLA-10-30-2-HF100	30	100	2	2	±0.005	0.6~99.4
NPLA-10-30-4-HF10	30	200	0.5	0.3	±0.005	0.02~9.98
NPLA-10-30-4-HF50	30	200	2	1	±0.005	0.2~49.8
NPLA-10-50-1-HF50	50	50	2	3	±0.005	0.2~49.8
NPLA-10-50-1-HF100	50	50	2	3	±0.005	0.6~99.4
NPLA-10-50-1-HF200	50	50	2	3	±0.005	1.1~198.9
NPLA-10-50-2-HF10	50	100	0.5	0.5	±0.005	0.02~9.98
NPLA-10-50-2-HF50	50	100	2	2	±0.005	0.2~49.8
NPLA-10-50-2-HF100	50	100	2	2	±0.005	0.6~99.4
NPLA-10-50-4-HF10	50	200	0.5	0.3	±0.005	0.02~9.98
NPLA-10-50-4-HF50	50	200	2	1	±0.005	0.2~49.8

■ **NPLA-10-30-1-T-S0028-HF50/100/200**
 ■ **NPLA-10-30-2-T-S0028-HF50/100/200**
 ■ **NPLA-10-30-4-T-S0028-HF50/100/200**



Installation Instructions:

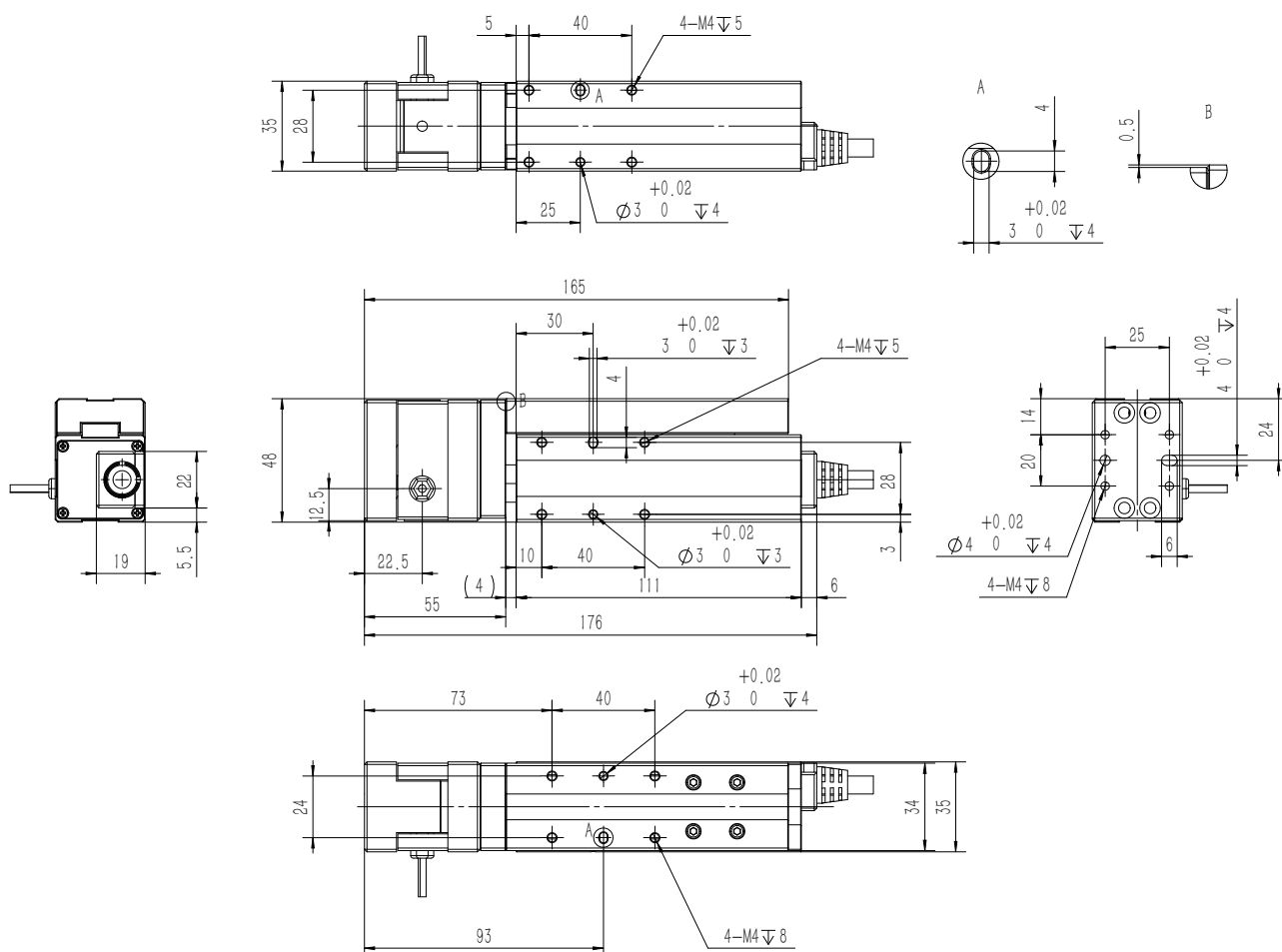
1. When fixing the main body, please use all the screws on the same installation surface.
2. When tightening the bolts, do not exceed the depth of the threaded hole.

Parameters	Model		
	NPLA-10-30-1-HF	NPLA-10-30-2-HF	NPLA-10-30-4-HF
Size	10	10	10
Stroke (mm)	30	30	30
Lead (mm)	1	2	4
Max Speed (mm/s)	50	100	200
Max Horizontal Load (kg)	2	2	2
Max Vertical Load (kg)	3	2	1
Repeatability (mm)	±0.005	±0.005	±0.005
Closed-loop Output Force Range (N)	HF50-001: 0.2~49.8	HF50-001: 0.2~49.8	HF50-001: 0.2~49.8
	HF100-005: 0.6~99.4	HF100-005: 0.6~99.4	/
	HF200-010: 1.1~198.9	/	/

Parameters	Model
	NPLA-10-30-1-HF NPLA-10-30-2-HF NPLA-10-30-4-HF
Communication Protocol	Modbus RTU, EtherCAT, Modbus TCP, PROFINET, EtherNet/IP, CC-LINK, CANopen
Rated Voltage (V)	DC24±10%
Rated Current (A)	1.25
Cable Length (m)	3/5 (Optional)
Weight (kg)	0.7
Working Environment	0~40℃, < 85%RH (Without condensation)
IP Grade	IP40

1. If an external controller is needed, please contact sales for model recommendations.
2. The drawings provided in this catalogue are for the default standard model. If you require other models with different motor directions, outlet directions, or outlet methods, please contact your local sales representative to obtain the drawings for the optional models.

■ NPLA-10-50-1-T-S0028-HF50/100/200
 NPLA-10-50-2-T-S0028-HF50/100/200
 NPLA-10-50-4-T-S0028-HF50/100/200



Installation Instructions:

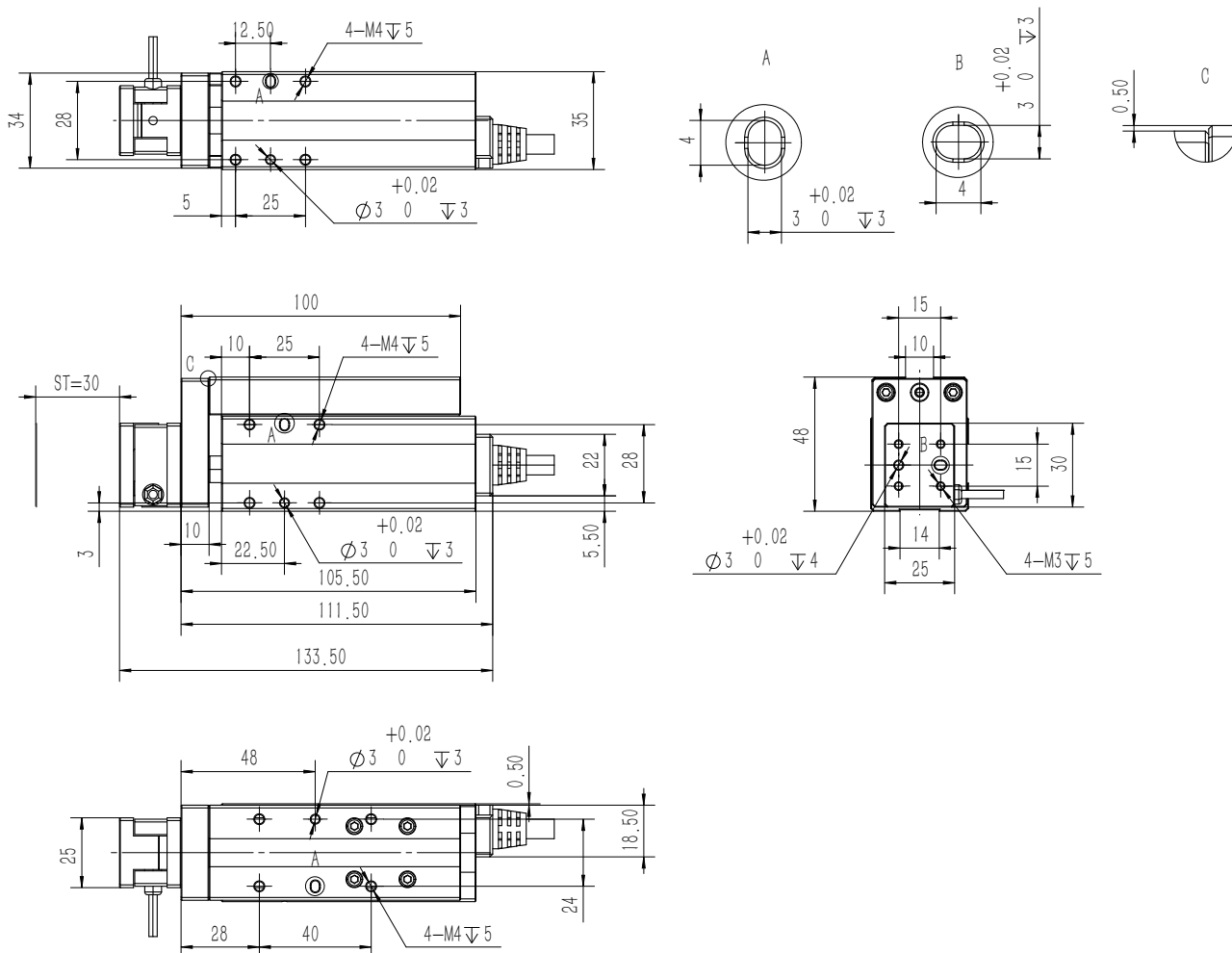
1. When fixing the main body, please use all the screws on the same installation surface.
2. When tightening the bolts, do not exceed the depth of the threaded hole.

Parameters	Model		
	NPLA-10-50-1-HF	NPLA-10-50-2-HF	NPLA-10-50-4-HF
Size	10	10	10
Stroke (mm)	50	50	50
Lead (mm)	1	2	4
Max Speed (mm/s)	50	100	200
Max Horizontal Load (kg)	2	2	2
Max Vertical Load (kg)	3	2	1
Repeatability (mm)	±0.005	±0.005	±0.005
Closed-loop Output Force Range (N)	HF50-001: 0.2~49.8	HF50-001: 0.2~49.8	HF50-001: 0.2~49.8
	HF100-005: 0.6~99.4	HF100-005: 0.6~99.4	/
	HF200-010: 1.1~198.9	/	/

Parameters	Model	
	NPLA-10-50-1-HF NPLA-10-50-2-HF NPLA-10-50-4-HF	
Communication Protocol	Modbus RTU, EtherCAT, Modbus TCP, PROFINET, EtherNet/IP, CC-LINK, CANopen	
Rated Voltage (V)	DC24±10%	
Rated Current (A)	1.25	
Cable Length (m)	3/5 (Optional)	
Weight (kg)	0.8	
Working Environment	0~40°C, <85%RH (Without condensation)	
IP Grade	IP40	

1. If an external controller is needed, please contact sales for model recommendations.
2. The drawings provided in this catalogue are for the default standard model. If you require other models with different motor directions, outlet directions, or outlet methods, please contact your local sales representative to obtain the drawings for the optional models.

■ NPLA-10-30-2-T-S0028-HF10 NPLA-10-30-4-T-S0028-HF10



Installation Instructions:

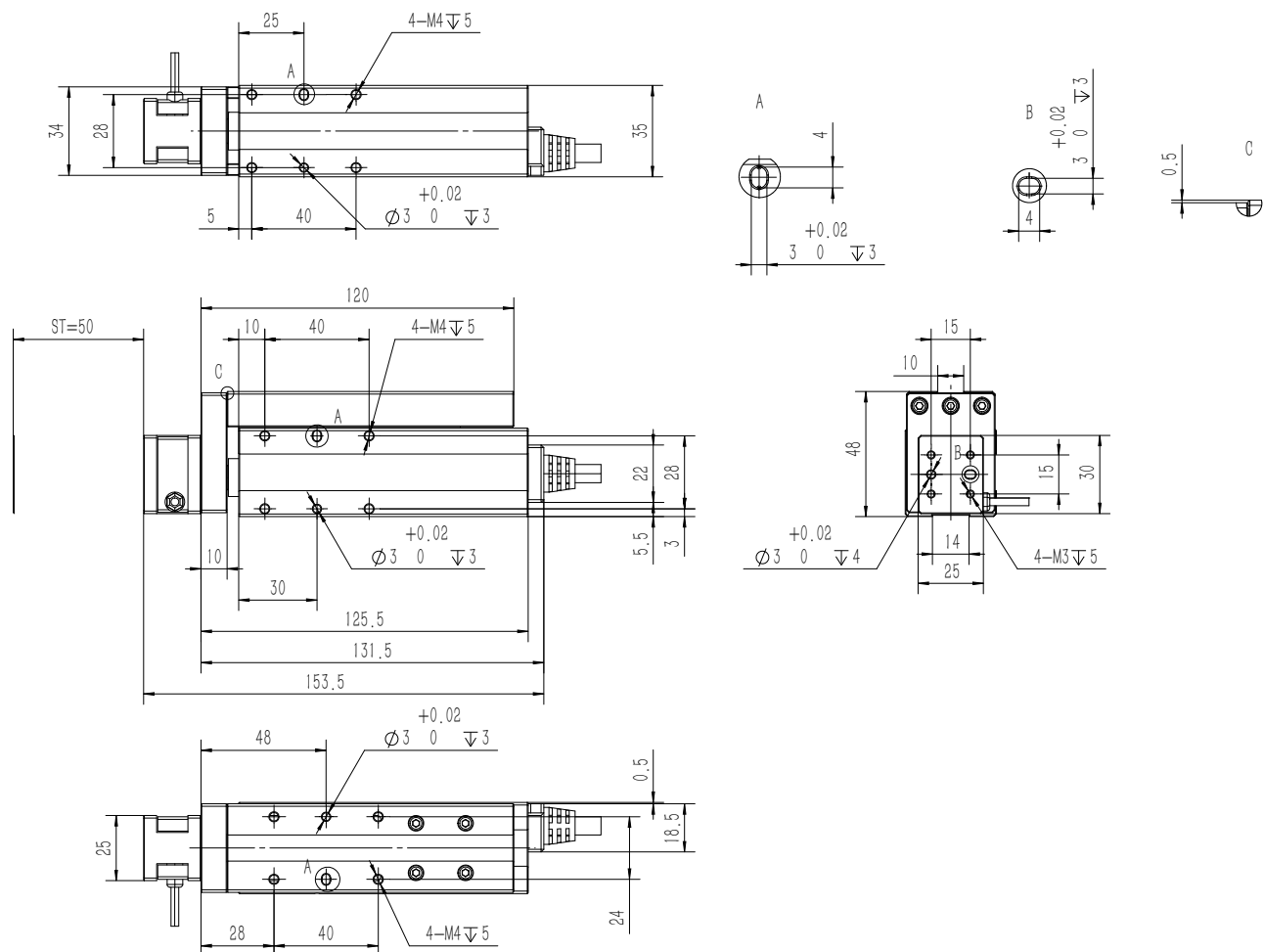
1. When fixing the main body, please use all the screws on the same installation surface.
2. When tightening the bolts, do not exceed the depth of the threaded hole.

Parameters	Model	
	NPLA-10-30-2-HF10	NPLA-10-30-4-HF10
Size	10	10
Stroke (mm)	30	30
Lead (mm)	2	4
Max Speed (mm/s)	100	200
Max Horizontal Load (kg)	0.5	0.5
Max Vertical Load (kg)	0.5	0.3
Repeatability (mm)	±0.005	±0.005
Closed-loop Output Force Range (N)	HF10-0001: 0.02~9.98	HF10-0001: 0.02~9.98

Parameters	Model	
	NPLA-10-30-2-HF10 NPLA-10-30-4-HF10	
Communication Protocol	Modbus RTU, EtherCAT, Modbus TCP, PROFINET, EtherNet/IP, CC-LINK, CANopen	
Rated Voltage (V)	DC24±10%	
Rated Current (A)	1.25	
Cable Length (m)	3/5 (Optional)	
Weight (kg)	0.7	
Working Environment	0~40°C, <85%RH (Without condensation)	
IP Grade	IP40	

1. If an external controller is needed, please contact sales for model recommendations.
2. The drawings provided in this catalogue are for the default standard model. If you require other models with different motor directions, outlet directions, or outlet methods, please contact your local sales representative to obtain the drawings for the optional models.

■ NPLA-10-50-2-T-S0028-HF10
NPLA-10-50-4-T-S0028-HF10



Installation Instructions:

1. When fixing the main body, please use all the screws on the same installation surface.
2. When tightening the bolts, do not exceed the depth of the threaded hole.

Parameters	Model	
	NPLA-10-50-2-HF10	NPLA-10-50-4-HF10
Size	10	10
Stroke (mm)	50	50
Lead (mm)	2	4
Max Speed (mm/s)	100	200
Max Horizontal Load (kg)	0.5	0.5
Max Vertical Load (kg)	0.5	0.3
Repeatability (mm)	±0.005	±0.005
Closed-loop Output Force Range (N)	HF10-0001: 0.02~9.98	HF10-0001: 0.02~9.98

Parameters	Model	
	NPLA-10-50-2-HF10 NPLA-10-50-4-HF10	
Communication Protocol	Modbus RTU, EtherCAT, Modbus TCP, PROFINET, EtherNet/IP, CC-LINK, CANopen	
Rated Voltage (V)	DC24±10%	
Rated Current (A)	1.25	
Cable Length (m)	3/5 (Optional)	
Weight (kg)	0.8	
Working Environment	0~40°C, < 85%RH (Without condensation)	
IP Grade	IP40	

1. If an external controller is needed, please contact sales for model recommendations.
2. The drawings provided in this catalogue are for the default standard model. If you require other models with different motor directions, outlet directions, or outlet methods, please contact your local sales representative to obtain the drawings for the optional models.



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