

# 螺 桿 滑 台

ELECTRIC ACTUATORS-ROD TYPE

2020 / 2023



浙江邦焯自动化科技有限公司

Zhejiang Bangye Automation Technology Co., Ltd.

## ABOUT US

If you take a look at our logo, you will find that it is composed of two abstract shapes interacting with each other. It means cooperation as well as two strength: Manufacture and Innovation.

Just like the meaning of our logo, we hope we can better cooperate with our customers and can step into a better platform together.

We are a leading manufacturer of die casting, especially in the field of pneumatic and automotive. Above 90% of the production procedures are done by ourselves, which makes us different from the other suppliers.

With more than 20 years of OEM experiences, we play a leading role in this area. Our production capacity, comprehensive services as well as abundant experience enable us to be your best choice.

Founded:2017

Registered Capital:

60 million RMB

Annual Sales:

**120 million yuan**

No. Employees:

220-280

Location:

Zhejiang China



We are Shanghai Bangye Pneumatic And Hydraulic Components Co.,Ltd which has established since 2002. Our company moved from Shanghai to Pinghu in December 2020.

# EY系列推杆式螺杆滑台

EY series rod type actuator



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## 电缸特点

## Characteristic

### 电缸原理:

电动缸是将伺服电机与滚珠丝杆一体化设计的模块化产品，将伺服电机的旋转运动转换为直线运动，同时将伺服电机最佳优点---精确转速控制、精确转数控制、精确扭矩控制转变成：精确速度控制、精确位置控制、精确推力控制。

### 电缸特点:

闭环伺服控制精度0.01mm; 方便与PLC等控制系统连接，实现高精度运动控制。操作维护简单、噪音低、节能、刚性高、抗冲击、使用寿命长、防护等级高可达到IP55。工作时间长，可实现高强度、高速度、高精度定位，运行平稳、噪音低。低成本维护：在工作时，只需定时注脂润滑，可大幅降低维护成本。

### 配置灵活:

安装方式多样：前法兰与后法兰安装、耳轴安装、导向模块安装等。根据使用要求自行选择折返与直连两种规格。同时也可增加各种附件，如限位开关、活动螺母、行星减速器。驱动可选择伺服电机、步进电机。

### 应用领域:

被广泛应用于机械人手臂及关节，动感座椅，升降舞台，模拟仿真、压装机，测试仪器，食品机械，陶瓷机械，焊接机械，升降平台，钢铁连铸，太阳能等领域。

电缸特点

Characteristic

Principle of electric cylinder:

The electric cylinder is a modular product integrating the servo motor and the ball screw, which converts the rotary motion of the servo motor into linear motion. At the same time, converts the best advantages of the servo motor - accurate speed control, accurate rotation control, and accurate torque control into: accurate speed control, accurate position control, and accurate thrust control.

Characteristics of electric cylinder:

Closed loop servo control accuracy is 0.01mm. It is convenient to connect with PLC and other control systems to achieve high-precision motion control. Simple operation and maintenance, low noise, energy saving, high rigidity, impact resistance, long service life, high protection level, up to IP55. Long working time, high intensity, high speed, high precision positioning, stable operation and low noise. Low cost maintenance: when working, only regular grease lubrication is required, which can greatly reduce the maintenance cost.

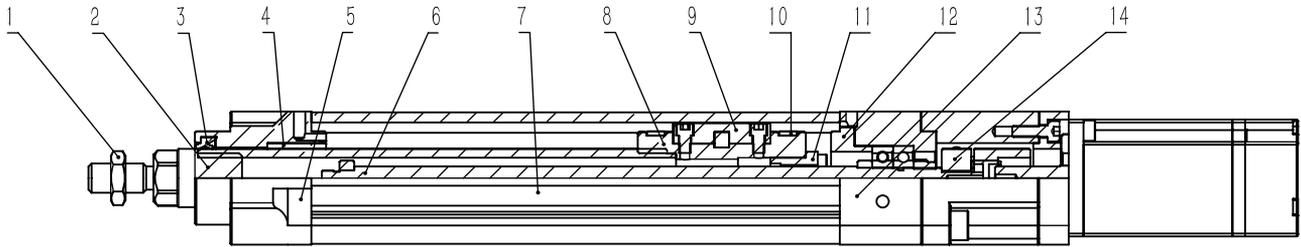
Flexible configuration:

Various installation methods: front flange and rear flange installation, trunnion installation, guide module installation, etc. Two specifications of turn back and direct connection are selected according to the use requirements. At the same time, various accessories can also be added, such as limit switch, movable nut and planetary reducer. Servo motor and stepping motor can be selected for driving.

Application field:

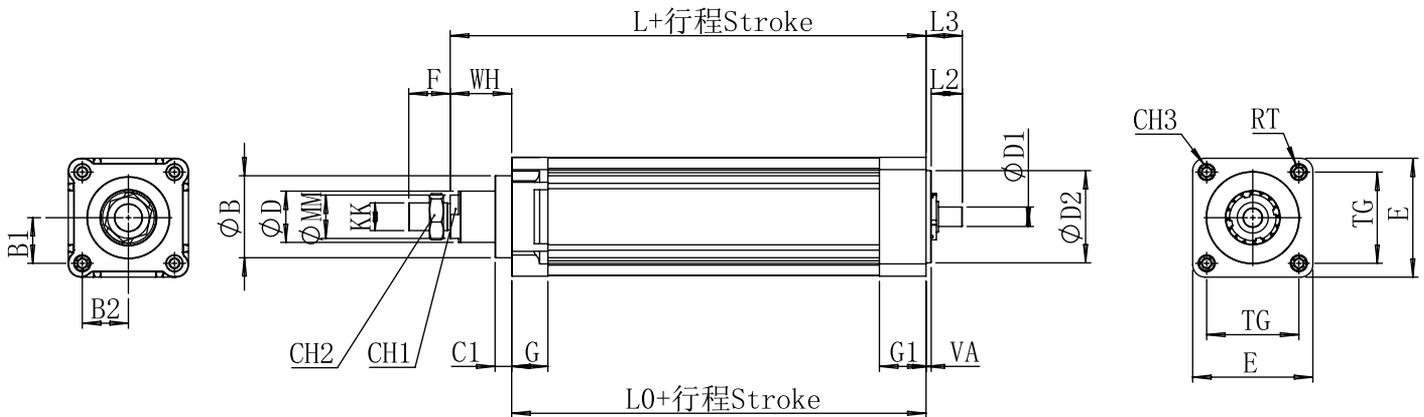
It is widely used in robot arms and joints, dynamic seats, lifting stage, simulation, press loader, testing instruments, food machinery, ceramic machinery, welding machinery, lifting platform, steel casting, solar energy and other fields.

## 内部结构 Internal Structure



序号/NO	名称 Describe	序号/NO	名称 Describe
1	活塞杆螺母 Nut for piston rod	8	活塞 Piston
2	活塞杆 Piston rod	9	导向键 Guide key
3	防尘圈 Dust ring	10	耐磨环 Wearing ring
4	含油轴承 Oil bearing	11	丝杆螺母 Nut for ball screw
5	前端盖 Front cover	12	轴承压片 Bearing pressing
6	滚珠丝杆 Ball screw	13	后端盖 Back cover
7	缸筒 Cylinder	14	联轴器 Coupling

## 外部尺寸图 External Structure



Ø	ØB (d11)	B 1	B 2	CH 1	CH 2	CH 3	ØD (f7)	ØD1 (h7)	ØD 2	E	F	G	G 1
20	20	11	11	10	13	4	12	3	20	32	16	20	20
25	28	14	14	13	16	5	16	4	22	40	20	25	25
32	32	16.25	16.25	17	16	6	20	5	32	45.6	22	27.5	27.5
40	38	19	19	19	18	6	25	8	40	54.6	24	32	32
50	46	23	23	22	24	8	30	10	45	65.8	32	32	32
63	56	28	28	27	24	8	35	14	58	75.8	32	33	33
80	65	36	36	30	30	10	40	17	72	96	40	33	40
100	80	46	46	34	30	10	50	19	90	116	40	35	48
Ø	KK	L	L 0	L 2	L 3	ØMM	R T	T G	V A	C 1	W H		
20	M8	115	89	10	15	12	M4	22	5	10	26		
25	M10	142	116	17	22	16	M5	28	5	12	26		
32	M10	160	134	16	19.5	20	M6	32.5	5	12	26		
40	M12	201	164	13	18	25	M6	38	5	12	37		
50	M16	204	167	21	26	30	M8	46.5	5	12	37		
63	M16	230	193	25	30	35	M8	56.5	5	12	37		
80	M20	294	248	30	35	40	M10	72	5	12	46		
100	M20	321.5	270.5	30	35	50	M10	89	5	16	51		

## 选型表 Model Selection Table

使用环境 Environment	传动方式 Driven	式样 Style	马达容量 Motor Output (w)	本体宽幅 Sidith(mm)	重复定位精度 Repeatability(mm)	丝杆规格 (C7) 级 Ball Screw Spec		最大可搬重量 Maximum Payload(kg)		最高速度 Maximum speed(mm/s)
						外径 Out Diameter(mm)	导程 Lead(mm)	水平使用 Use horizontally	垂直使用 Use vertically	
一般环境 General environment	滚珠丝杆 Ball screw	EY20	100W	31	0.01	5	1	20	7	50
		EY25	100W	39	0.01	8	1	30	11	50
							2	30	11	100
		EY32	100W	45	0.01	8	1	48	17	50
							2	60	21	100
							2.5	60	20	125
		EY40	100W	54	0.01	12	2	68	24	100
							4	34	12	200
							5	27	10	250
							10	10	4	500
		EY50	400W	65	0.01	16	5	108	39	250
							10	54	19	500
							16	33	12	800
		EY63	400W	75	0.01	20	20	27	10	1000
							5	108	39	250
							10	54	19	500
		EY80	750W	96	0.01	25	20	27	10	1000
							5	204	73	250
10	102						36	500		
EY100	1000W	115	0.01	32	25	41	15	1250		
					5	272	97	250		
					10	136	49	500		
					20	68	24	1000		
						32	42	15	1600	

标准行程及最高使用速度 Standard stroke and maximum speed(mm/s)									型号 Model	
行程Stroke	50	100	200	300	600	800	1000	1200		1600
50mm/s										EY20
100mm/s										EY25
125mm/s										EY32
500mm/s										EY40
1000mm/s										EY50
1000mm/s										EY63
1250mm/s										EY80
1600mm/s										EY100

## 运行负载理论计算

## Calculation

### 选型考虑:

- 1) 推力大小
- 2) 行程
- 3) 工作速度
- 4) 额定电压
- 5) 控制要求
- 6) 使用频率
- 7) 使用寿命

### 电缸出力计算: $F = T * 2\pi * R / L * N$

F: 电动缸出力, 单位:KN;

T: 电机输出扭矩, 单位:NM;

R: 传动比;

L: 滚珠丝杆导程, 单位:mm;

N: 效率, 一般电动缸的总效率为85%, 但是效率根据实际使用情况会有变化。

### 电缸速度计算: $M = [(v/60) * L] / n$

M: 伺服电动缸的线速度, 单位:mm/s;

V: 伺服电机额定转速, 单位:r/min;

n: 减速比;

L: 丝杆导程, 单位:mm。

### 电缸使用寿命计算: $L_{10} = (Ca/Fm)^3 * L = (Ca/Fm)^3 * (T * N * 2\pi * R / F)$

L<sub>10</sub>: 电缸的寿命, 单位: km;

F<sub>m</sub>: 电缸承受的平均负载, 单位: KN;

C<sub>a</sub>: 丝杆螺母的基本额定动负载, 单位: KN;

L: 滚珠丝杆导程, 单位:mm;

T: 电机输出扭矩, 单位:NM;

N: 效率, 一般电动缸的总效率为85%;

R: 传动比;

F: 电动缸出力, 单位:KN。

**Selection considerations:**

- |                  |                         |                        |
|------------------|-------------------------|------------------------|
| 1) Thrust size   | 2) Stroke               | 3) Working speed       |
| 4) Rated voltage | 5) Control requirements | 6) Operating frequency |
| 7) Service life  |                         |                        |

**Calculation of electric cylinder output force:  $F = T * 2 \pi * R / L * N$**

F: Output force of electric cylinder, in KN;

T: Motor output torque, unit: NM;

R: Transmission ratio;

L: Lead of screw rod, unit: mm;

N: Efficiency: Generally, the total efficiency of electric cylinder is 85%, but the efficiency will vary according to the actual use.

**Calculation of electric cylinder speed:  $M = [(v/60) * L] / n$**

M: Linear speed of servo electric cylinder, unit: mm/s;

V: Rated speed of servo motor, unit: r/min;

n: Reduction ratio;

L: Lead of screw rod, unit: mm.

**Calculation of service life of electric cylinder:  $L_{10} = (Ca/Fm)^3 * L = (Ca/Fm)^3 * (T * N * 2\pi * R / F)$**

L<sub>10</sub>: service life of electric cylinder, unit: km;

F<sub>m</sub>: average load borne by electric cylinder, unit: KN;

C<sub>a</sub>: basic rated dynamic load of lead screw nut, unit: KN;

L: Lead of lead screw, unit: mm;

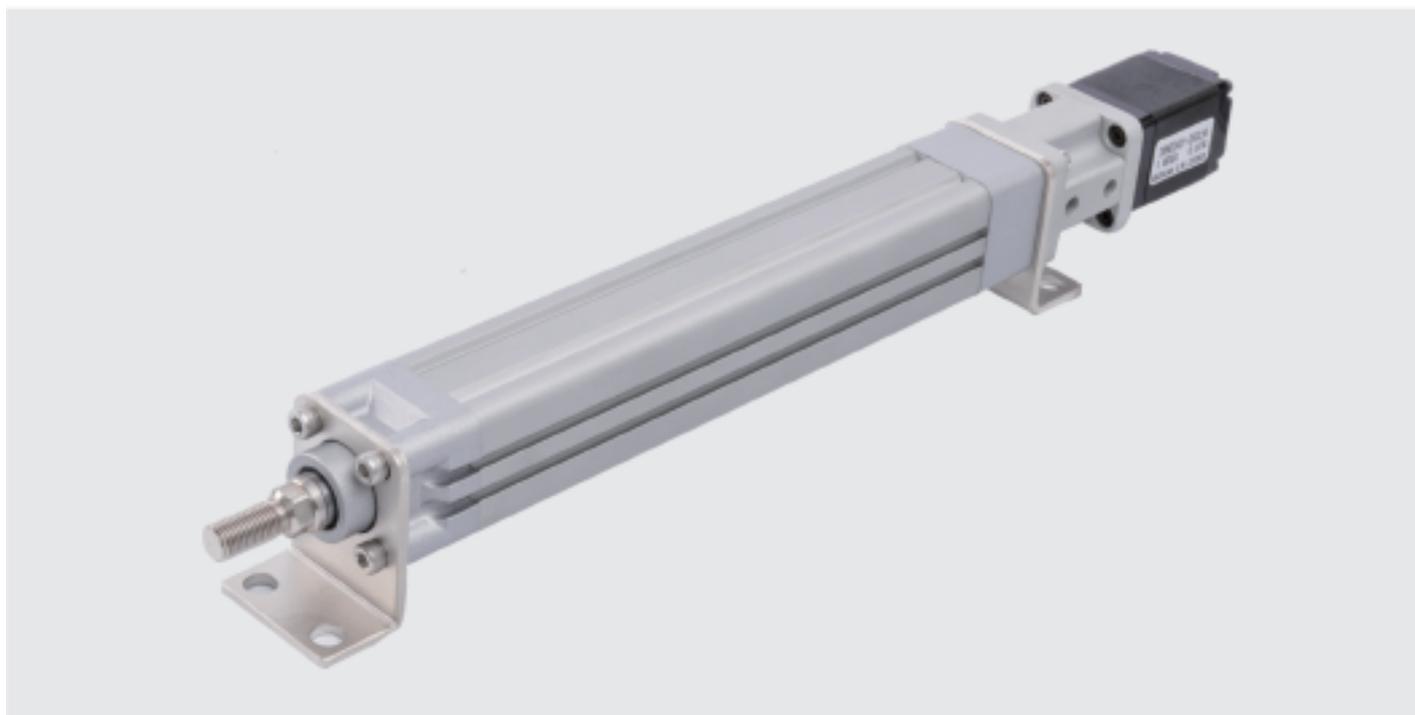
T: Motor output torque, unit: NM;

N: The total efficiency of electric cylinder is 85%;

R: Transmission ratio;

F: Output force of electric cylinder, in KN.

## EY20



最大行程 200mm  
Max stroke

最高速度 50mm/s  
Max speed

马达容量 50W/100W  
Motor 35stepper

滚珠丝杆  $\phi 5$   
Ball screw

### 型号表达方式 Model Detail Display

EY20	-L1	-50	-MC	-M50B	-C	2	-01
本机型号 Model	导程 Lead	标准行程 Standard stroke	马达位置 Motor position	电机功率 Motor power	原点感应器 Origin sensor	极限端点感应器 Endpoint limit sensor	特注样式 Special note style
	1 1mm	50-200	MC 马达直连 Motor exposed	M50 50W	外挂型 Plug-in type	外挂型 Plug-in type	01 含电机 Including motor
		间距10mm Spacing 10mm	MW 马达折返 Motor back	M100 100W	C 马达侧 Motor side	1 1只 1Pc	无 不含电机 Motor not included
				M35 35步进 Stepper motor	A 反马达侧 Antimotorside	2 2只 2Pc	
				后置B为有刹车 Rear B is braked	无 Sensor	无 Sensor	

## EY20性能参数

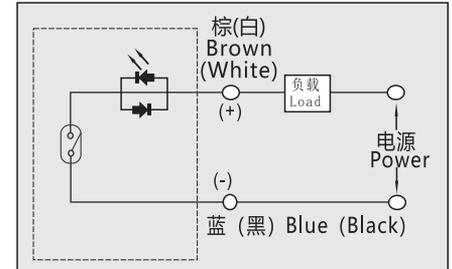
## EY20 Performance parameter

## 感应器接线圈 <原点及端点>

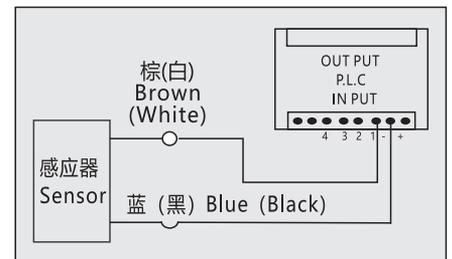
## Sensor Layout

型号 Model	EY20-L1-50-MC-M50B-C2-01	
安装方式 Installation method	直连 Direct connection	
丝杆直径 Screw rod diameter(mm)	5	
丝杆导程 Lead (mm)	1	
有效行程 Effective stroke(mm)	0-200	
最大出力 Rated output(KN)	0.2	
输入电机 Input motor	50W/100W/35步进 Stepper motor	
额定速度 Rated speed(mm)	50	
位置重复精度 Repeatability(mm)	± 0.01	
联轴器 Coupling	-	
最大可搬重量 Max payload(kg)	水平使用 Horizontal	20
	垂直使用 Vertical	7
标准行程 Standard stroke(mm)	50-200mm (间隔10mm)	

一般性负载：如继电器或其它之电阻性负载  
General load:: Such as relay or resistive load



可编程控制器接线圈  
Programmable controller wiring coil



※行程超过100时,会产生偏摆, 此时请将速度降低。

Stroke exceeds 100 mm, a deflection will occur, in this case, please reduce the speed.

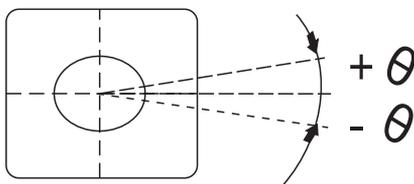
※符合型律规范的正常使用时, 保证寿命为10000公里。

Under the normal use, the guaranteed life is 10,000 kilometers.

\*\*无法套用标准规范, 如有需求请咨询我公司销售部。

The use of inverted hanging can not be applied to the standard specifications, please contact with our sales if you need.

## 出力杆的防止回转精度 Anti-rotating Accuracy of Rod



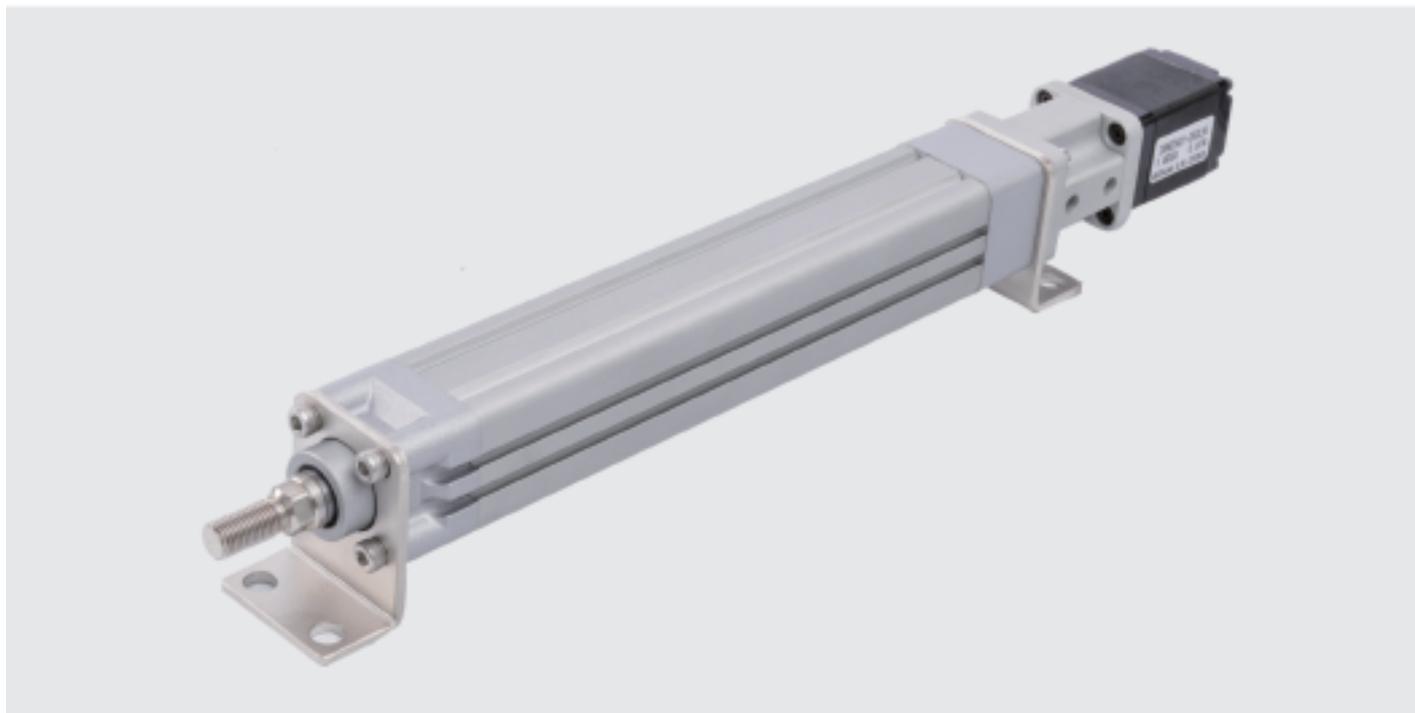
防止回转精度 $\theta$ Anti-rotating accuracy
$\pm 1^\circ$

※使用时请避免活塞杆承受回转扭力, 因为有可能造成防回转装置变形, 导致自动开关反应异常, 内部滑轨变形, 进而增加运动阻力。

※Avoid the piston rod from being subjected to slewing torque when using, Because of it is possible to cause deformation of the anti-rotation device, and the automatic switch reaction to be abnormal. And internal rails are deformed, thus increasing the motion resistance.



## EY25



最大行程 300mm  
Max stroke

最高速度 100mm/s  
Max speed

马达容量 50W/100W  
Motor 42stepper

滚珠丝杆  $\phi 8$   
Ball screw

### 型号表达方式 Model Detail Display

EY25	-L1	-50	-MC	-M50B	-C	2	-01
本机型号 Model	导程 Lead	标准行程 Standard stroke	马达位置 Motor position	电机功率 Motor power	原点感应器 Origin sensor	极限端点感应器 Endpoint limit sensor	特注样式 Special note style
1	1mm	50-300	MC 马达直连 Motor exposed	M50 50W	外挂型 Plug-in type	外挂型 Plug-in type	01 含电机 Including motor
2	2mm	间距10mm Spacing 10mm	MW 马达折返 Motor back	M100 100W	C 马达侧 Motor side	1 1只 1Pc	无 不含电机 Motor not included
				M42 42步进 Stepper motor	A 反马达侧 Antimotorside	2 2只 2Pc	
				后置B为有刹车 Rear B is braked	无 Sensor	无 Sensor	

## EY25性能参数

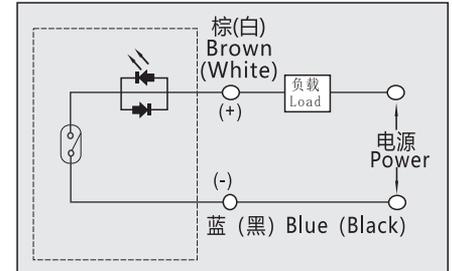
## EY25 Performance parameter

## 感应器接线圈 <原点及端点>

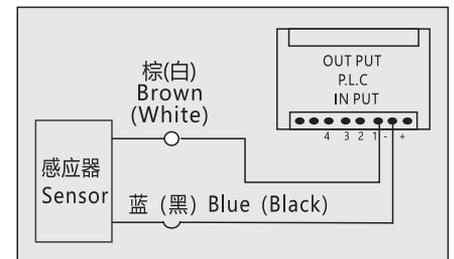
## Sensor Layout

型号 Model	EY25-L1-50-MC-M50B-C2-01	
安装方式 Installation method	直连 Direct connection	
丝杆直径 Screw rod diameter(mm)	8	
丝杆导程 Lead (mm)	1	2
有效行程 Effective stroke(mm)	0-300	
最大出力 Rated output(KN)	0.3	
输入电机 Input motor	50W/100W/42步进 Stepper motor	
额定速度 Rated speed(mm)	50	100
位置重复精度 Repeatability(mm)	± 0.01	
联轴器 Coupling	-	
最大可搬重量 Max payload(kg)	水平使用 Horizontal	30
	垂直使用 Vertical	11
标准行程 Standard stroke(mm)	50 - 300mm(间隔10mm)	

一般性负载：如继电器或其它之电阻性负载  
General load:: Such as relay or resistive load



可程式控制器接线圈  
Programmable controller wiring coil



※行程超过150时,会产生偏摆, 此时请将速度降低。

Stroke exceeds 150 mm, a deflection will occur, in this case, please reduce the speed.

※符合型律规范的正常使用时, 保证寿命为10000公里。

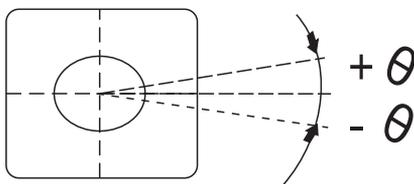
Under the normal use, the guaranteed life is 10,000 kilometers.

\*\*无法套用标准规范, 如有需求请咨询我公司销售部。

The use of inverted hanging can not be applied to the standard specifications, please contact with our sales if you need.

## 出力杆的防止回转精度

## Anti-rotating Accuracy of Rod

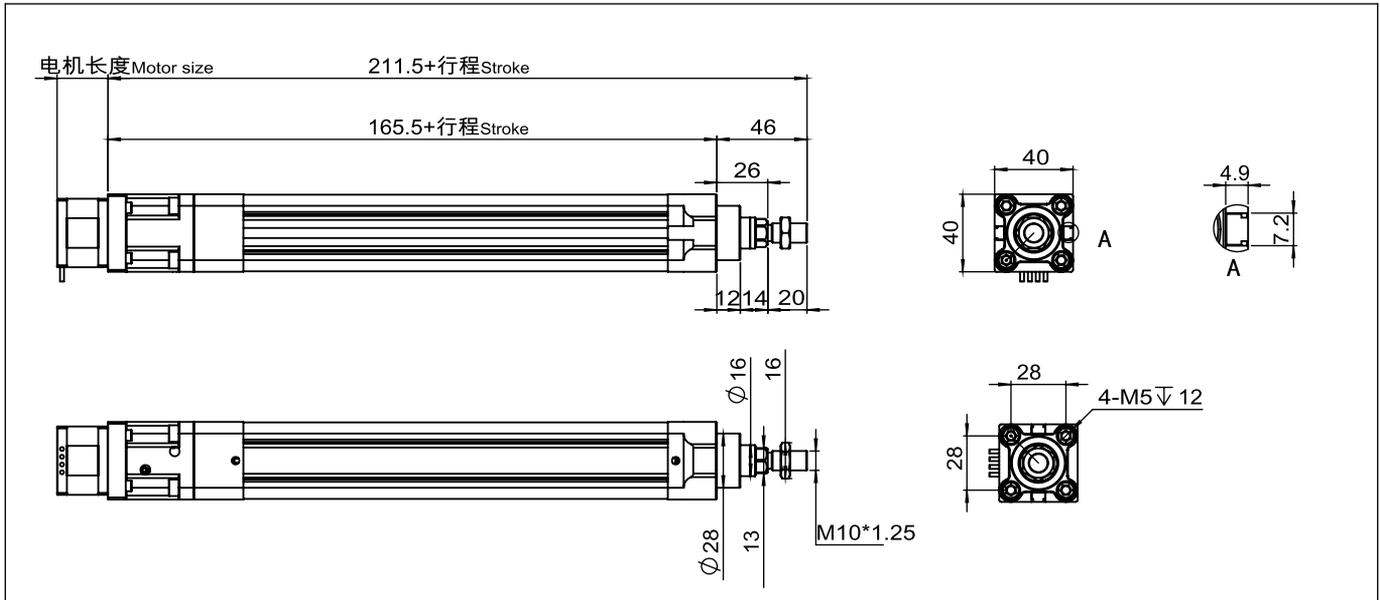


防止回转精度 $\theta$ Anti-rotating accuracy
$\pm 1^\circ$

※使用时请避免活塞杆承受回转扭力, 因为有可能造成防回转装置变形, 导致自动开关反应异常, 内部滑轨变形, 进而增加运动阻力。

※Avoid the piston rod from being subjected to slewing torque when using, Because of it is possible to cause deformation of the anti-rotation device, and the automatic switch reaction to be abnormal. And internal rails are deformed, thus increasing the motion resistance.

## EY25电缸-伺服直连尺寸图 EY25 electric cylinder-servo direct connection size



有效行程Stroke (mm)	50	100	150	200	250	300
总长length (mm)	261.5	311.5	361.5	411.5	461.5	631.5
重量weight(kg)	1	1.15	1.3	1.45	1.6	1.75

## EY32



最大行程 300mm  
Max stroke

最高速度 125mm/s  
Max speed

马达容量 50W/100W  
Motor 42 Stepper

滚珠丝杆  $\phi 8$   
Ball screw

### 型号表达方式 Model Detail Display

EY32	-L1	-50	-MC	-M50B	-C	2	-01
本机型号 Model	导程 Lead	标准行程 Standard stroke	马达位置 Motor position	电机功率 Motor power	原点感应器 Origin sensor	极限端点感应器 Endpoint limit sensor	特注样式 Special note style
1	1mm	50-300	MC 马达直连 Motor exposed	M50 50W	外挂型 Plug-in type	外挂型 Plug-in type	01 含电机 Including motor
2	2mm	间距10mm Spacing 10mm	MW 马达折返 Motor back	M100 100W	C 马达侧 Motor side	1 1只 1Pc	无 不含电机 Motor not included
2	2.5mm			M42 42步进 Stepper motor	A 反马达侧 Antimotorside	2 2只 2Pc	
				后置B为有刹车 Rear B is braked	无 Sensor	无 Sensor	

## EY32性能参数

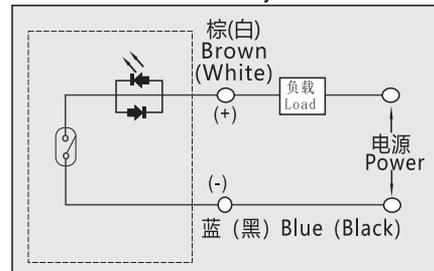
## EY32 Performance parameter

型号 Model	EY32-L1-50-MC-M50B-C2-01		
安装方式 Installation method	直连 Direct connection	折返 Turn-back	
丝杆直径 Screw rod diameter(mm)	8		
丝杆导程 Lead (mm)	1	2	2.5
有效行程 Effective stroke(mm)	0 - 300		
最大出力 Rated output(KN)	0.6		
输入电机 Input motor	50W/100W/42步进Stepper motor		
额定速度 Rated speed(mm)	50	100	125
位置重复精度 Repeatability(mm)	± 0.01		
联轴器 Coupling	Φ5-Φ8		
最大可搬重量 Max payload(kg)	水平使用 Horizontal	60	
	垂直使用 Vertical	21	
标准行程 Standard stroke(mm)	50 - 300mm(间隔10mm)		

## 感应器接线圈 <原点及端点>

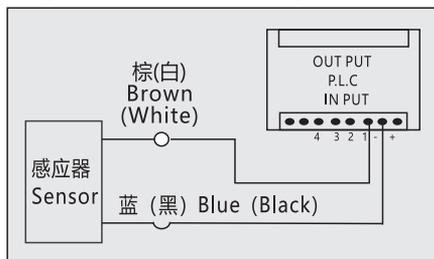
## Sensor Layout

一般性负载：如继电器或其它之电阻性负载  
General load:: Such as relay or resistive load



## 可程式控制器接线圈

## Programmable controller wiring coil



※行程超过150时,会产生偏摆, 此时请将速度降低。

Stroke exceeds 150 mm, a deflection will occur, in this case, please reduce the speed.

※符合型律规范的正常使用时, 保证寿命为10000公里。

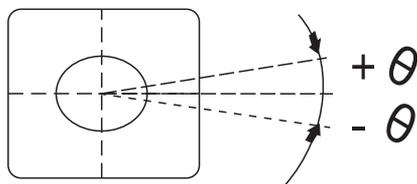
Under the normal use, the guaranteed life is 10,000 kilometers.

\*\*无法套用标准规范, 如有需求请咨询我公司销售部。

The use of inverted hanging can not be applied to the standard specifications, please contact with our sales if you need.

## 出力杆的防止回转精度

## Anti-rotating Accuracy of Rod

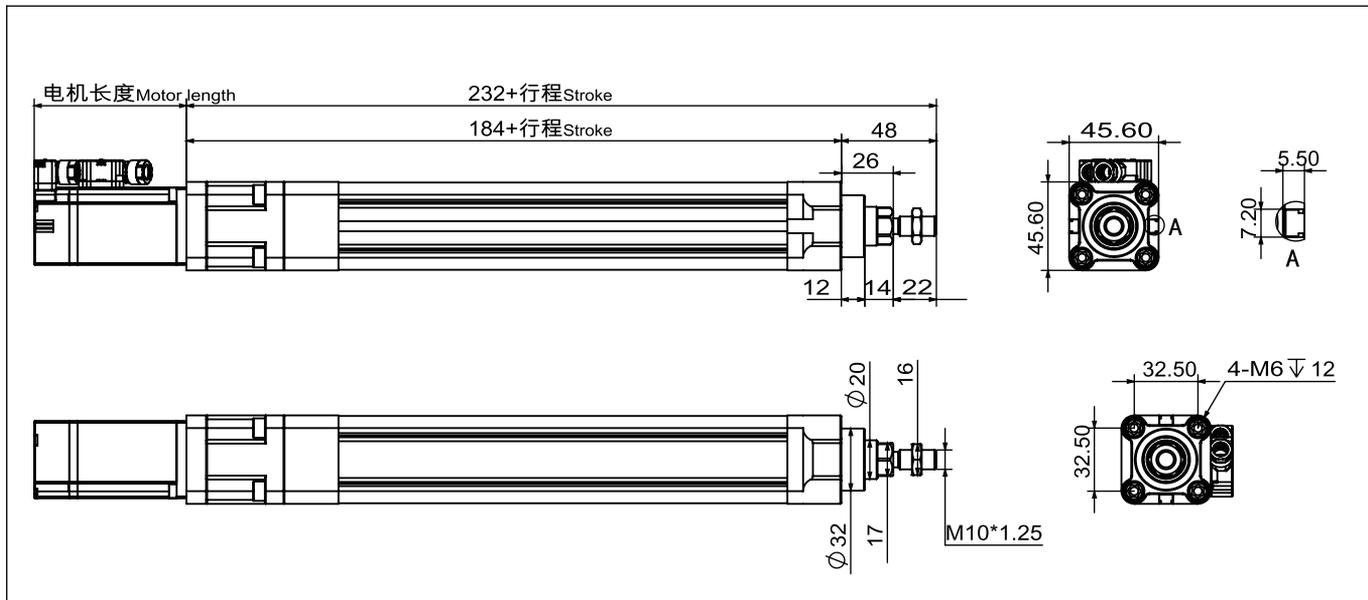


防止回转精度 $\theta$ Anti-rotating accuracy
$\pm 1^\circ$

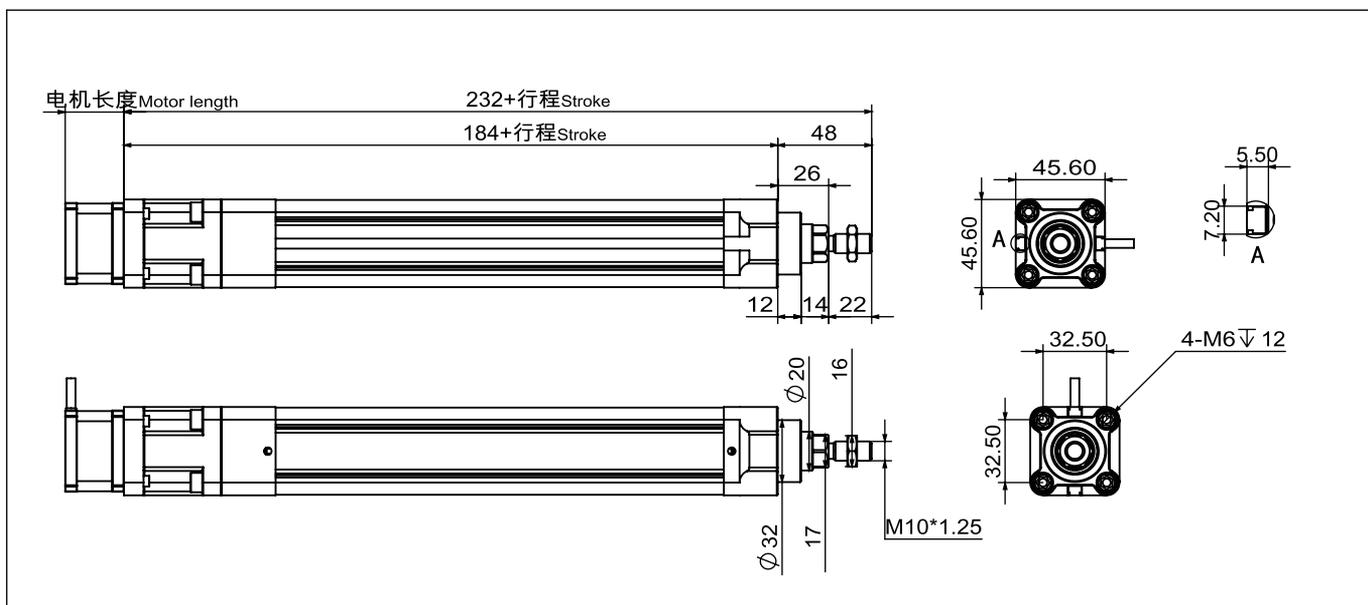
※使用时请避免活塞杆承受回转扭力, 因为有可能造成防回转装置变形, 导致自动开关反应异常, 内部滑轨变形, 进而增加运动阻力。

※Avoid the piston rod from being subjected to slewing torque when using, Because of it is possible to cause deformation of the anti-rotation device, and the automatic switch reaction to be abnormal. And internal rails are deformed, thus increasing the motion resistance.

## EY32电缸-伺服直连尺寸图 EY32 electric cylinder-servo direct connection size

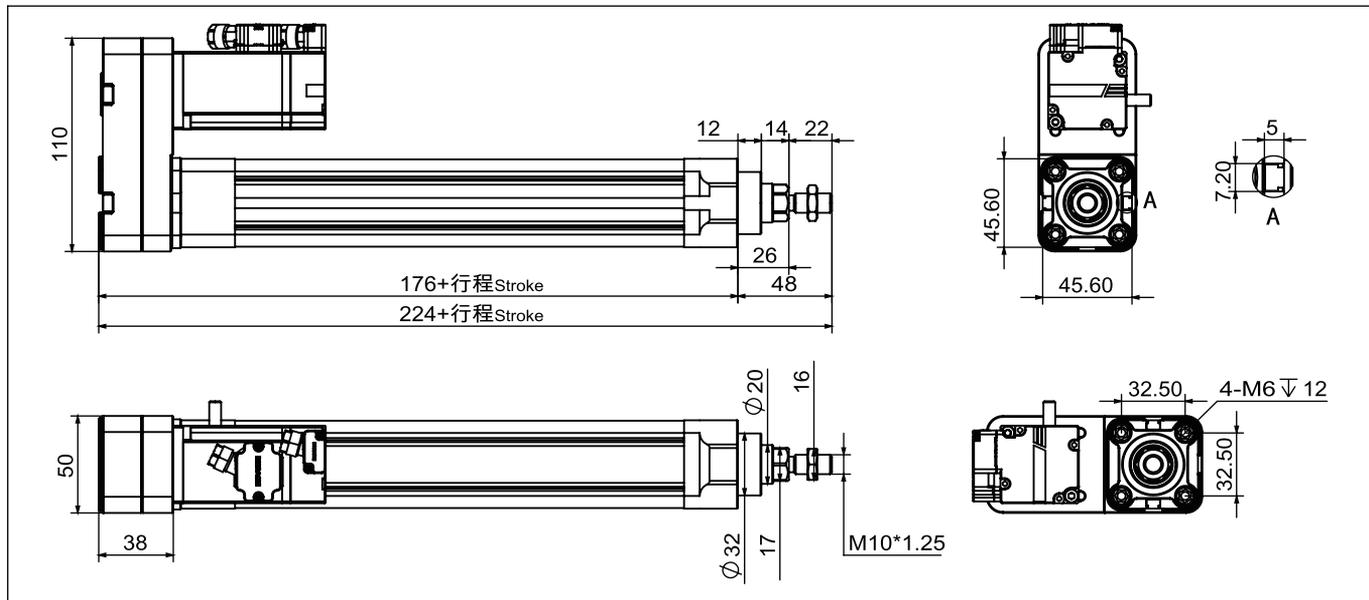


## EY32电缸-步进直连尺寸图 EY32 electric cylinder-step direct connection size

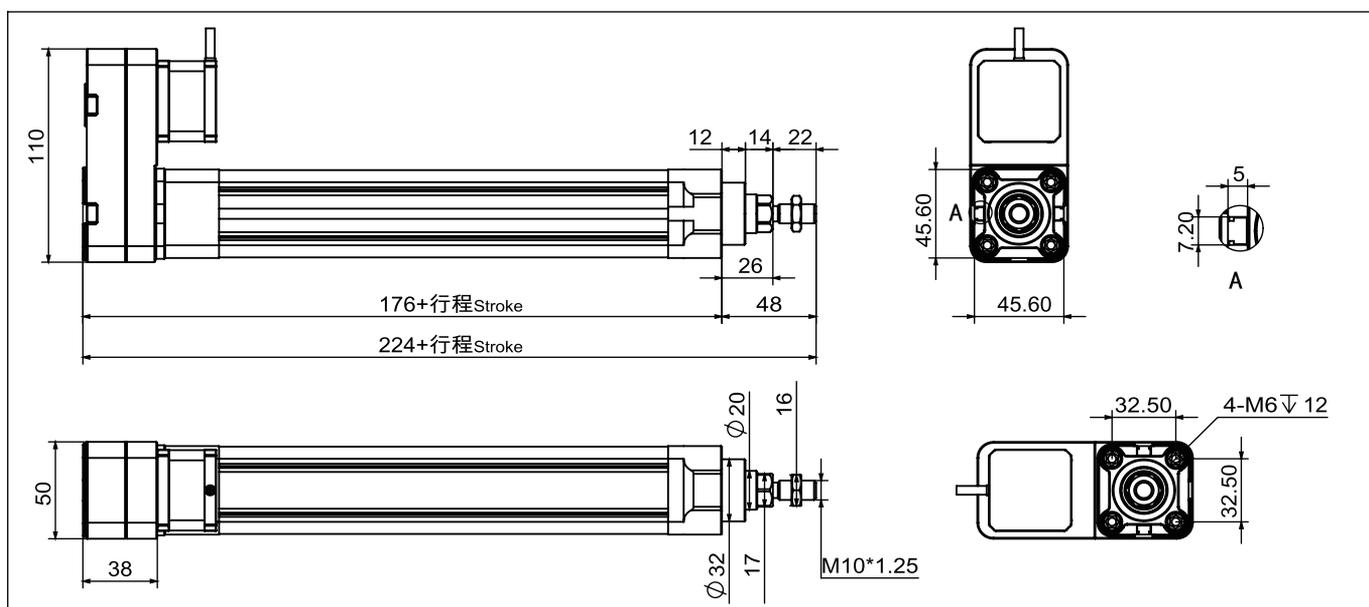


有效行程Stroke (mm)	50	100	150	200	250	300
总长length (mm)	282	332	382	432	482	532
重量weight(kg)	1.3	1.5	1.7	1.9	2.1	2.3

## EY32电缸-伺服折返尺寸图 EY32 electric cylinder-servo turn-back dimension



## EY32电缸-步进折返尺寸图 EY32 electric cylinder-step turn-back dimension



有效行程Stroke (mm)	50	100	150	200	250	300
总长length (mm)	274	324	374	424	474	524
重量weight(kg)	1.26	1.4	1.6	1.8	2	2.2

## EY40



最大行程 600mm  
Max stroke

最高速度 500mm/s  
Max speed

马达容量 50W/100W  
Motor 42Stepper

滚珠丝杆  $\Phi 12$   
Ball screw

### 型号表达方式 Model Detail Display

EY40	-L2	-50	-MC	-M50B	-C	2	-01
本机型号 Model	导程 Lead	标准行程 Standard stroke	马达位置 Motor position	电机功率 Motor power	原点感应器 Origin sensor	极限端点感应器 Endpoint limit sensor	特注样式 Special note style
2	2mm	0-600	BC 马达直连 Motor exposed	M50 50W	外挂型 Plug-in type	外挂型 Plug-in type	01 含电机 Including motor
4	4mm	间距50mm Spacing 50mm	BW 马达折返 Motor back	M100 100W	C 马达侧 Motor side	1 1只 1Pc	无 不含电机 Motor not included
5	5mm			M42 42步进 Stepper motor	A 反马达侧 Antimotorside	2 2只 2Pc	
10	10mm			后置B为有刹车 Rear B is braked	无 Sensor	无 Sensor	

## EY40性能参数

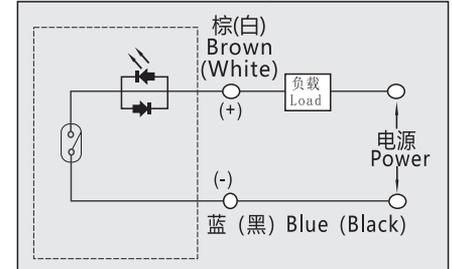
## EY40 Performance parameter

## 感应器接线圈 <原点及端点>

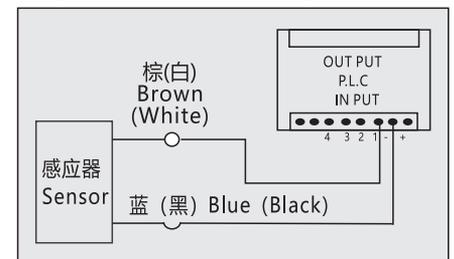
## Sensor Layout

型号 Model	EY40-L2-50-MC-M50B-C2-01			
安装方式 Installation method	直连 Direct connection	折返 Turn-back		
丝杆直径 Screw rod diameter(mm)	12			
丝杆导程 Lead (mm)	2	4	5	10
有效行程 Effective stroke(mm)	0-600			
最大出力 Rated output(KN)	0.7			
输入电机 Input motor	50W/100W/42步进Stepper motor			
额定速度 Rated speed(mm)	200	200	250	500
位置重复精度 Repeatability(mm)	±0.01			
联轴器 Coupling	Φ8-Φ8			
最大可搬重量 Max payload(kg)	水平使用 Horizontal	68		
	垂直使用 Vertical	24		
标准行程 Standard stroke(mm)	50-600mm(间隔50mm)			

一般性负载：如继电器或其它之电阻性负载  
General load:: Such as relay or resistive load



可程式控制器接线圈  
Programmable controller wiring coil



※行程超过300时,会产生偏摆, 此时请将速度降低。

Stroke exceeds 300 mm, a deflection will occur, in this case, please reduce the speed.

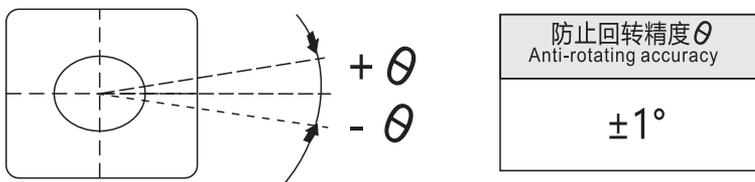
※符合型律规范的正常使用时, 保证寿命为10000公里。

Under the normal use, the guaranteed life is 10,000 kilometers.

\*\*无法套用标准规范, 如有需求请咨询我公司销售部。

The use of inverted hanging can not be applied to the standard specifications, please contact with our sales if you need.

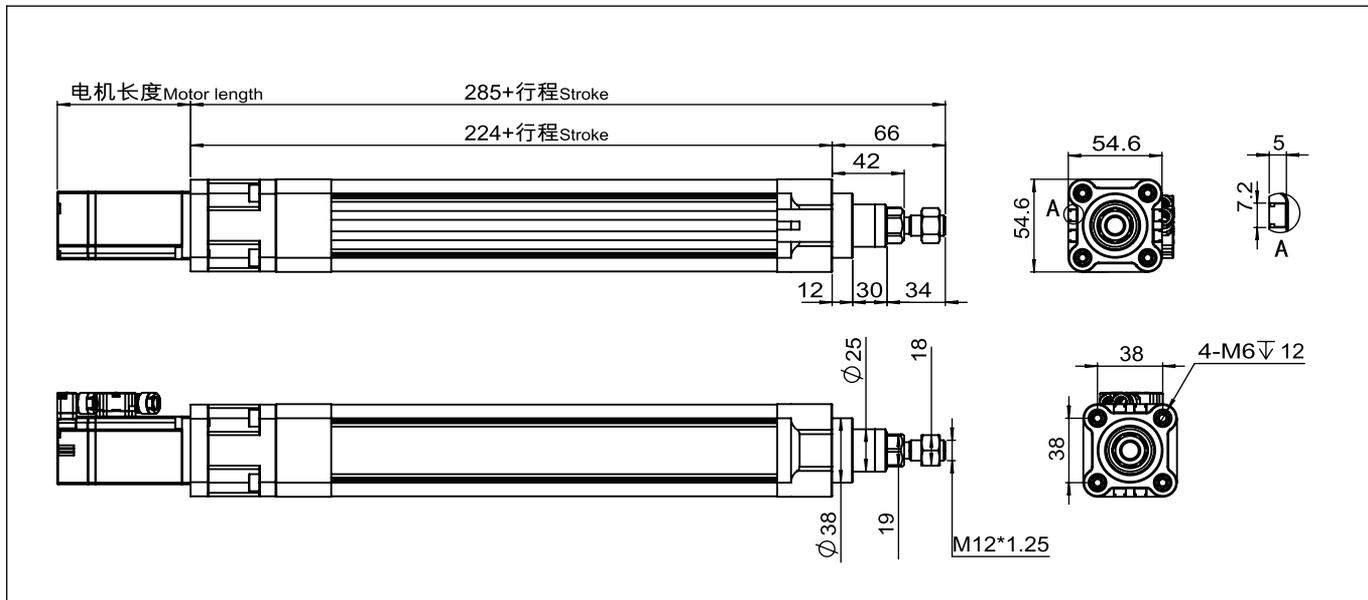
## 出力杆的防止回转精度 Anti-rotating Accuracy of Rod



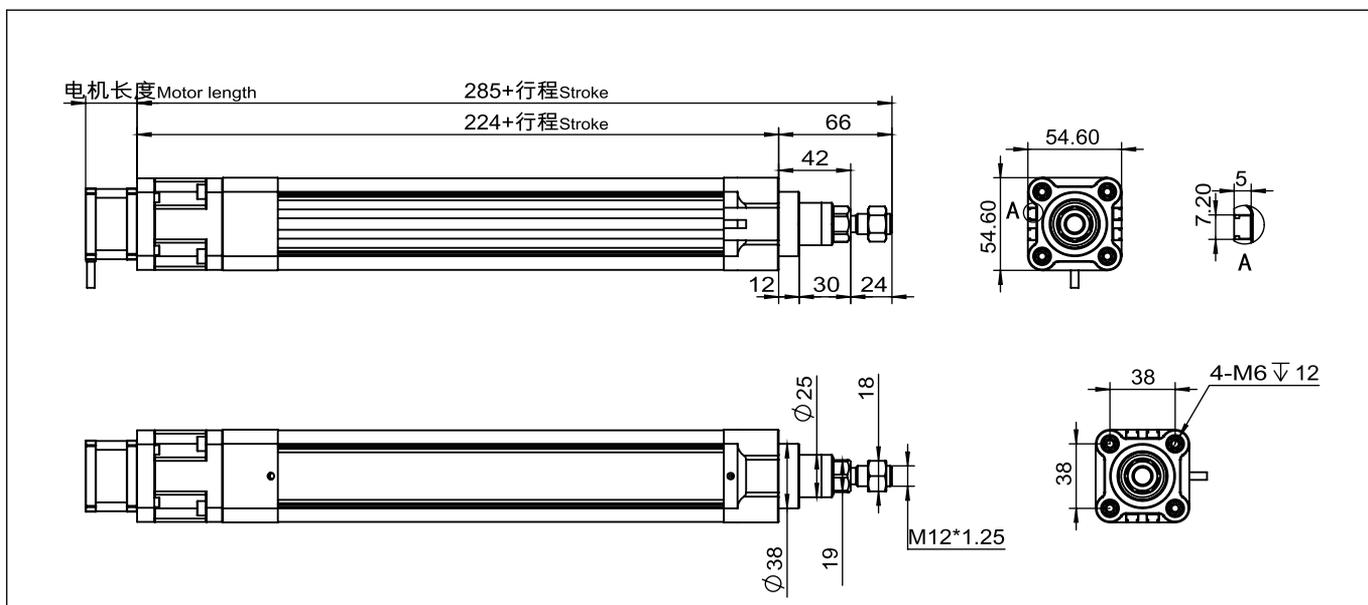
※使用时请避免活塞杆承受回转扭力, 因为有可能造成防回转装置变形, 导致自动开关反应异常, 内部滑轨变形, 进而增加运动阻力。

※Avoid the piston rod from being subjected to slewing torque when using, Because of it is possible to cause deformation of the anti-rotation device, and the automatic switch reaction to be abnormal. And internal rails are deformed, thus increasing the motion resistance.

## EY40电缸-伺服直连尺寸图 EY40 electric cylinder-servo direct connection size



## EY40电缸-步进直连尺寸图 EY40 electric cylinder-step direct connection size



有效行程Stroke (mm)	50	100	150	200	250	300	350	400	450	500
总长length (mm)	335	385	435	485	535	585	635	685	735	785
重量weigh(kg)	2.1	2.3	2.5	2.8	3.1	3.3	3.5	3.7	3.9	4.1



## EY50



最大行程 800mm  
Max stroke

最高速度 1000mm/s  
Max speed

马达容量 200W/400W  
Motor 57Stepper

滚珠丝杆  $\Phi 16$   
Ball screw

### 型号表达方式 Model Detail Display

EY50	-L5	-50	-MC	-M200B	-C	2	-01
本机型号 Model	导程 Lead	标准行程 Standard stroke	马达位置 Motor position	电机功率 Motor power	原点感应器 Origin sensor	极限端点感应器 Endpoint limit sensor	特注样式 Special note style
5	5mm	50-800	MC 马达直连 Motor exposed	M200 200W	外挂型 Plug-in type	外挂型 Plug-in type	01 含电机 Including motor
10	10mm	间距50mm Spacing 50mm	MW 马达折返 Motor back	M400 400W	C 马达侧 Motor side	1 1只 1Pc	无 不含电机 Motor not included
16	16mm			M57 57步进 Stepper motor	A 反马达侧 Antimotorside	2 2只 2Pc	
20	20mm			后置B为有刹车 Rear B is braked	无 Sensor	无 Sensor	

## EY50性能参数

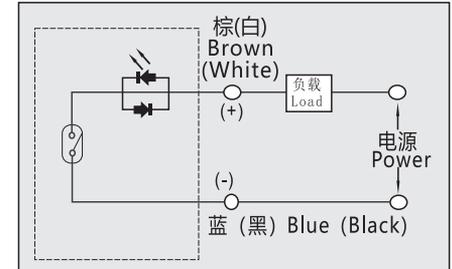
## EY50 Performance parameter

## 感应器接线圈 <原点及端点>

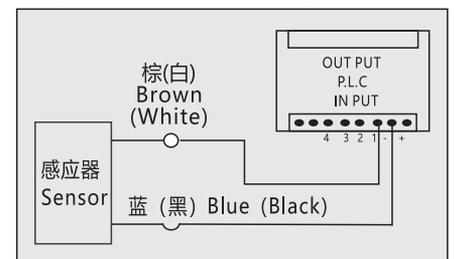
## Sensor Layout

型号 Model	EY50-L5-50-MC-M200B-C2-01			
安装方式 Installation method	直连 Direct connection	折返 Turn-back		
丝杆直径 Screw rod diameter(mm)	16			
丝杆导程 Lead (mm)	5	10	16	20
有效行程 Effective stroke(mm)	0 - 800			
最大出力 Rated output(KN)	1.0			
输入电机 Input motor	200W/400W/57步进 Stepper motor			
额定速度 Rated speed(mm)	250	500	800	1000
位置重复精度 Repeatability(mm)	± 0.01			
联轴器 Coupling	Φ10-Φ14			
最大可搬重量 Max payload(kg)	水平使用 Horizontal	108		
	垂直使用 Vertical	39		
标准行程 Standard stroke(mm)	50 - 800mm(间隔50mm)			

一般性负载：如继电器或其它之电阻性负载  
General load:: Such as relay or resistive load



可程式控制器接线圈  
Programmable controller wiring coil



※行程超过400时,会产生偏摆, 此时请将速度降低。

Stroke exceeds 400 mm, a deflection will occur, in this case, please reduce the speed.

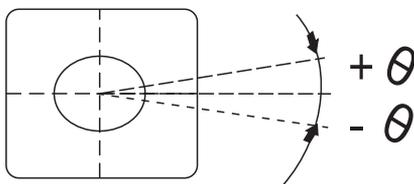
※符合型律规范的正常使用时, 保证寿命为10000公里。

Under the normal use, the guaranteed life is 10,000 kilometers.

\*\*无法套用标准规范, 如有需求请咨询我公司销售部。

The use of inverted hanging can not be applied to the standard specifications, please contact with our sales if you need.

## 出力杆的防止回转精度 Anti-rotating Accuracy of Rod

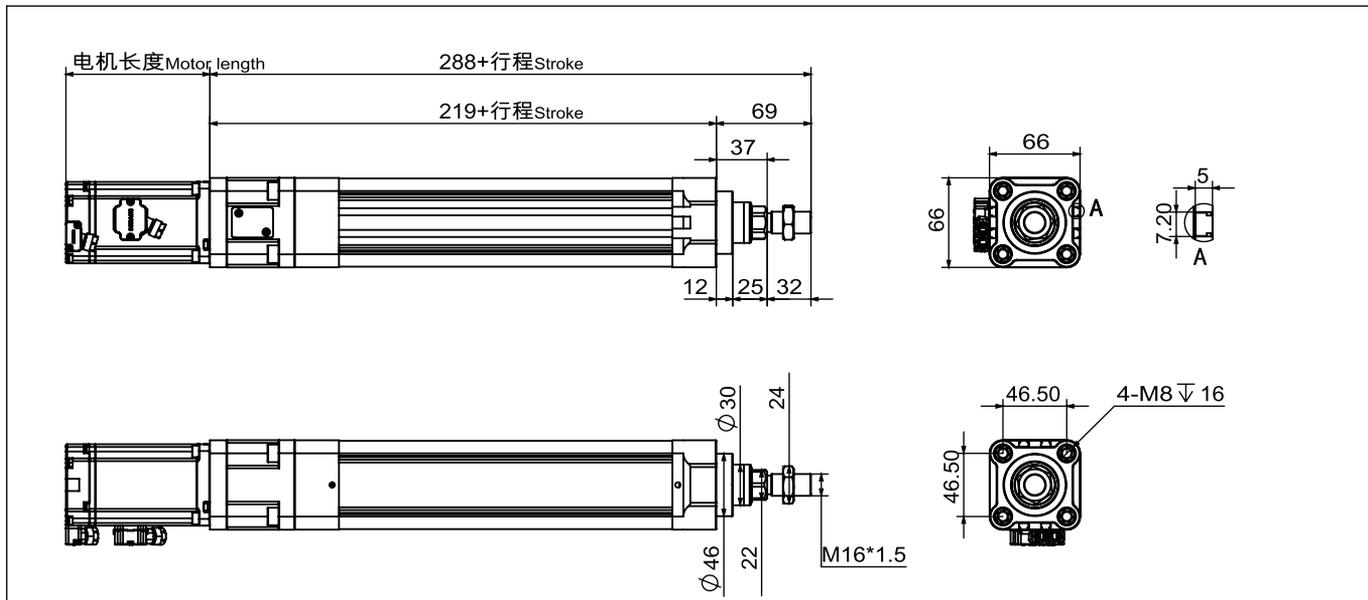


防止回转精度 $\theta$ Anti-rotating accuracy
$\pm 1^\circ$

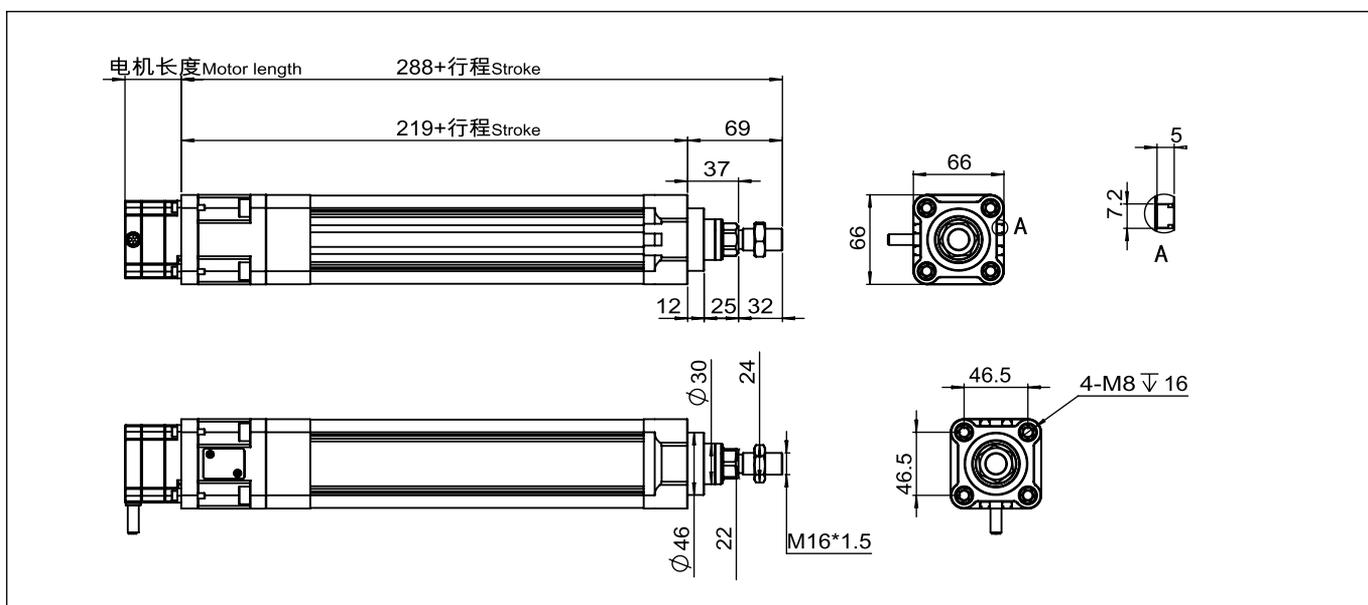
※使用时请避免活塞杆承受回转扭力, 因为有可能造成防回转装置变形, 导致自动开关反应异常, 内部滑轨变形, 进而增加运动阻力。

※Avoid the piston rod from being subjected to slewing torque when using, Because of it is possible to cause deformation of the anti-rotation device, and the automatic switch reaction to be abnormal. And internal rails are deformed, thus increasing the motion resistance.

## EY50电缸-伺服直连尺寸图 EY50 electric cylinder-servo direct connection size

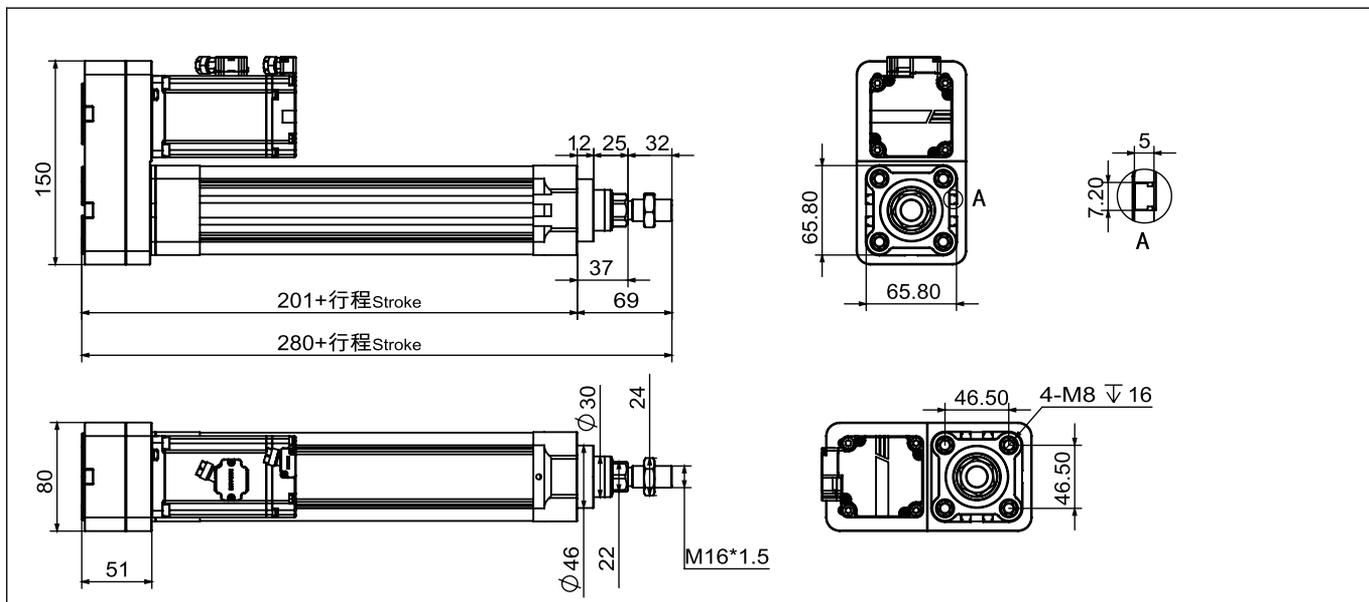


## EY50电缸-步进直连尺寸图 EY50 electric cylinder-step direct connection size

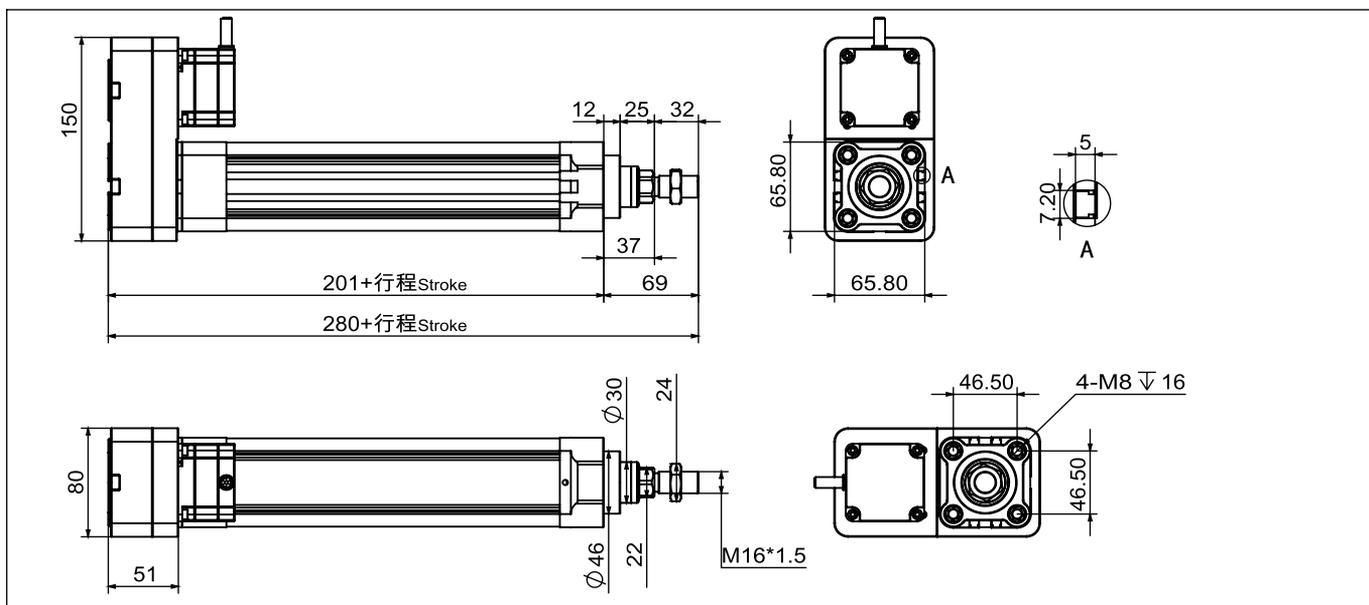


有效行程Stroke (mm)	50	100	150	200	250	300	350	400	450	500
总长length (mm)	338	388	438	488	538	588	638	688	738	788
重量weighth(kg)	2.7	3.2	3.7	4.2	4.7	5.2	5.7	6.2	6.7	7.2

## EY50电缸-伺服折返尺寸图 EY50 electric cylinder-servo turn-back dimension



## EY50电缸-步进折返尺寸图 EY50 electric cylinder-step turn-back dimension



有效行程Stroke (mm)	50	100	150	200	250	300	350	400	450	500
总长length (mm)	330	380	430	480	530	580	630	680	730	780
重量weigh(kg)	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5

## EY63



最大行程 1000mm  
Max stroke

最高速度 1000mm/s  
Max speed

马达容量 200W/400W  
Motor 57Stepper

滚珠丝杆  $\Phi 20$   
Ball screw

### 型号表达方式 Model Detail Display

EY63	-L5	-100	-MC	-M200B	-C	2	-1
本机型号 Model	导程 Lead	标准行程 Standard stroke	马达位置 Motor position	电机功率 Motor power	原点感应器 Origin sensor	极限端点感应器 Endpoint limit sensor	特注样式 Special note style
5	5mm	100-1000	MC 马达直连 Motor exposed	M200 200W	外挂型 Plug-in type	外挂型 Plug-in type	01 含电机 Including motor
10	10mm	间距 100mm Spacing 100mm	MW 马达折返 Motor back	M400 400W	C 马达侧 Motor side	1 1只 1Pc	无 不含电机 Motor not included
20	20mm			M57 57步进 Stepper motor	A 反马达侧 Antimotorside	2 2只 2Pc	
				后置B为有刹车 Rear B is braked	无 Sensor	无 Sensor	

## EY63性能参数

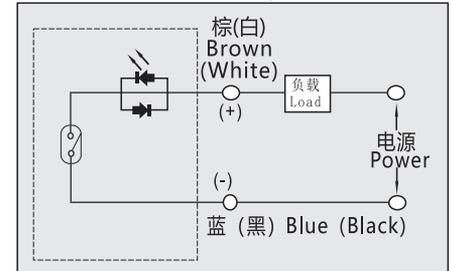
## EY63 Performance parameter

## 感应器接线圈 <原点及端点>

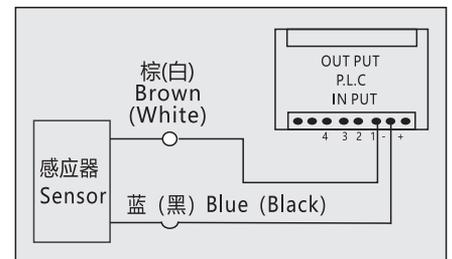
## Sensor Layout

型号 Model	EY63-L5-100-MC-M200B-C2-01		
安装方式 Installation method	直连 Direct connection	折返 Turn-back	
丝杆直径 Screw rod diameter(mm)	20		
丝杆导程 Lead (mm)	5	10	20
有效行程 Effective stroke(mm)	0-1000		
最大出力 Rated output(KN)	1.2		
输入电机 Input motor	200W/400W/57步进 Stepper motor		
额定速度 Rated speed(mm)	250	500	1000
位置重复精度 Repeatability(mm)	± 0.01		
联轴器 Coupling	Φ14-Φ14		
最大可搬重量 Max payload(kg)	水平使用 Horizontal	108	
	垂直使用 Vertical	39	
标准行程 Standard stroke(mm)	100-1000mm(间隔100mm)		

一般性负载：如继电器或其它之电阻性负载  
General load:: Such as relay or resistive load



可程式控制器接线圈  
Programmable controller wiring coil



※行程超过500时,会产生偏摆, 此时请将速度降低。

Stroke exceeds 500 mm, a deflection will occur, in this case, please reduce the speed.

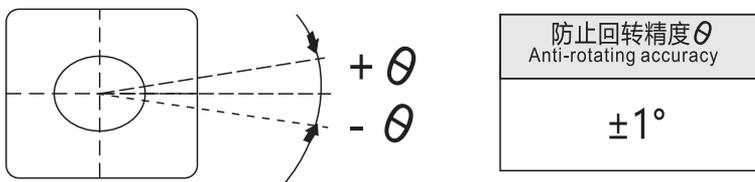
※符合型律规范的正常使用时, 保证寿命为10000公里。

Under the normal use, the guaranteed life is 10,000 kilometers.

\*\*无法套用标准规范, 如有需求请咨询我公司销售部。

The use of inverted hanging can not be applied to the standard specifications, please contact with our sales if you need.

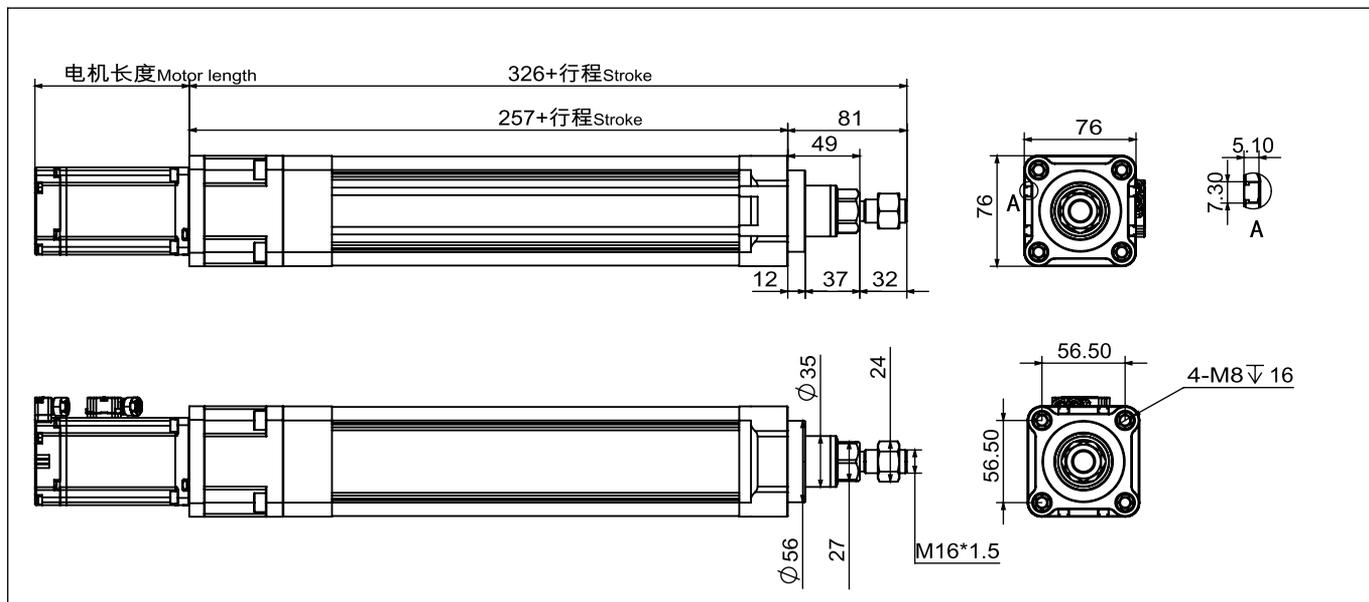
## 出力杆的防止回转精度 Anti-rotating Accuracy of Rod



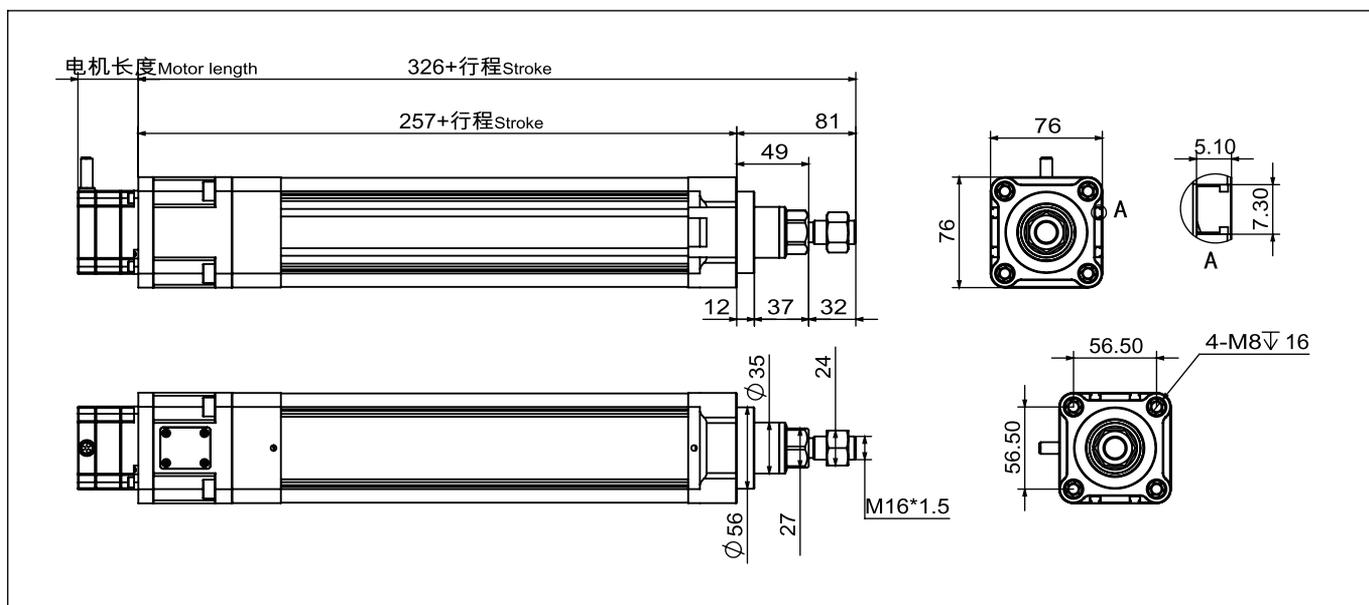
※使用时请避免活塞杆承受回转扭力, 因为有可能造成防回转装置变形, 导致自动开关反应异常, 内部滑轨变形, 进而增加运动阻力。

※Avoid the piston rod from being subjected to slewing torque when using, Because of it is possible to cause deformation of the anti-rotation device, and the automatic switch reaction to be abnormal. And internal rails are deformed, thus increasing the motion resistance.

## EY63电缸-伺服直连尺寸图 EY63 electric cylinder-servo direct connection size

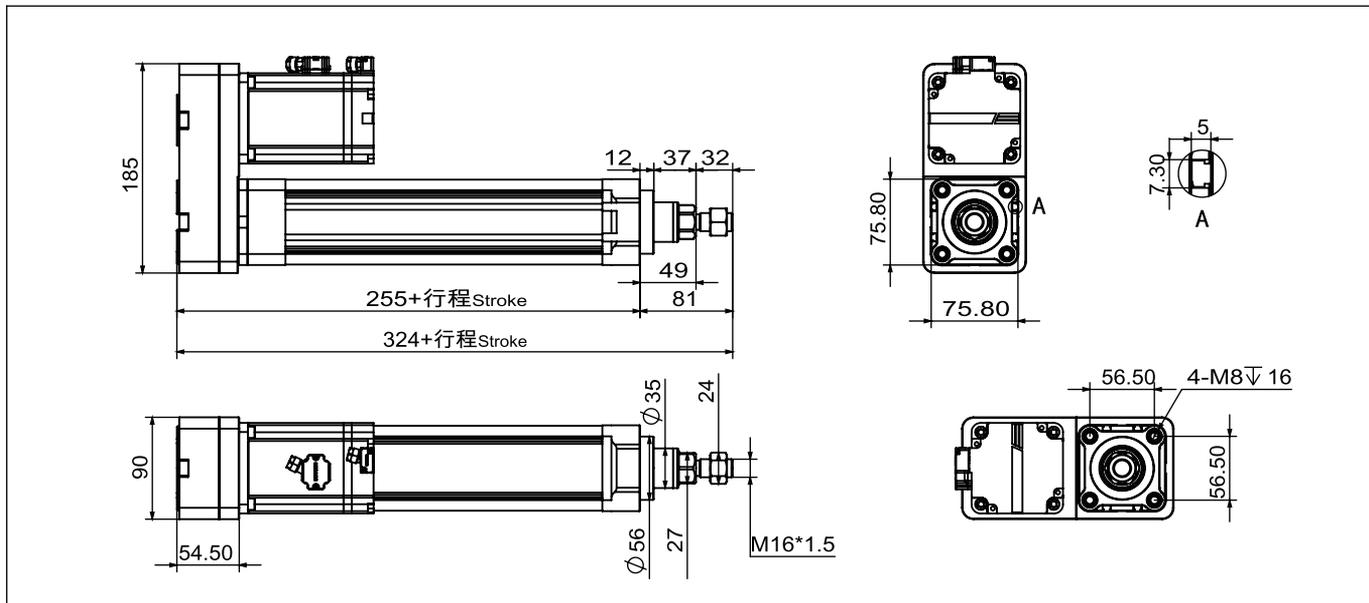


## EY63电缸-步进直连尺寸图 EY63 electric cylinder-step direct connection size

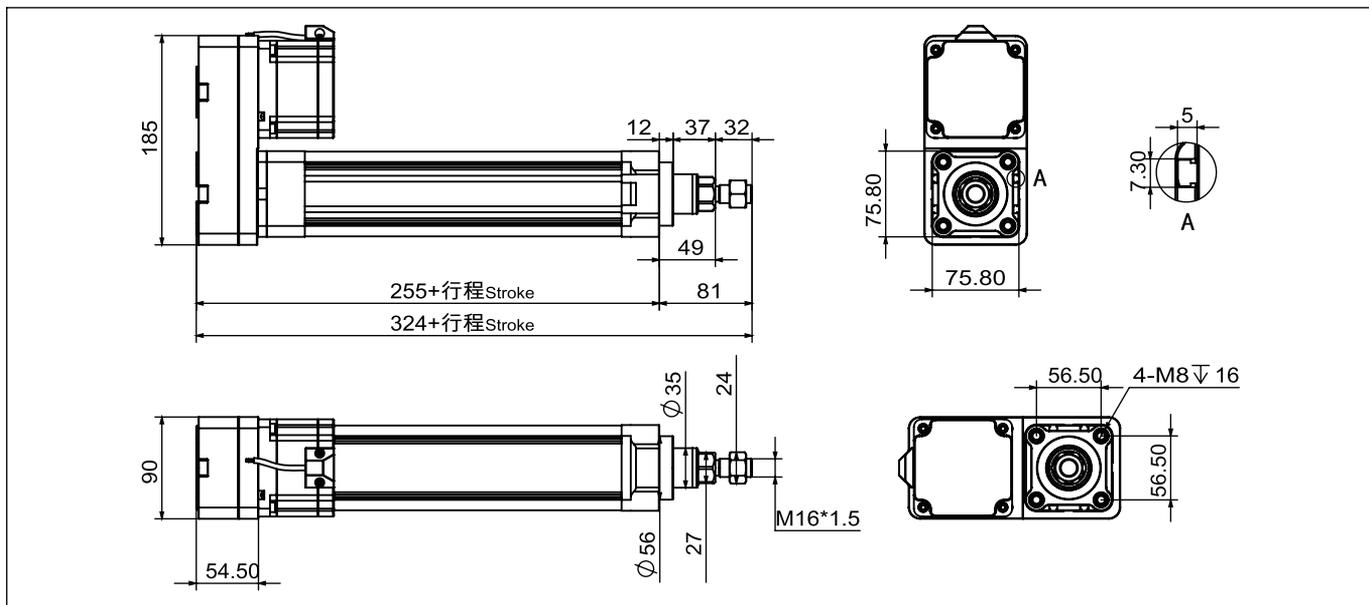


有效行程Stroke (mm)	50	100	150	200	250	300	350	400	-	1500
总长length (mm)	376	426	476	526	576	626	676	726	-	1826
重量weighth(kg)	4.4	5	5.6	6.2	6.8	7.4	8	8.6	-	15.6

## EY63电缸-伺服折返尺寸图 EY63 electric cylinder-servo turn-back dimension



## EY63电缸-步进折返尺寸图 EY63 electric cylinder-step turn-back dimension



有效行程Stroke (mm)	50	100	150	200	250	300	350	400	-	1500
总长length (mm)	374	424	474	524	574	624	674	724	-	1824
重量weight(kg)	4.7	5.3	5.9	6.5	7.1	7.7	8.3	8.9	-	15.9

## EY80



最大行程 1200mm  
Max stroke

最高速度 1250mm/s  
Max speed

马达容量 750W  
Motor 86Stepper

滚珠丝杆  $\Phi 25$   
Ball screw

### 型号表达方式 Model Detail Display

EY80	-L5	-100	-MC	-M750B	-C	2	-01					
本机型号 Model	导程 Lead	标准行程 Standard stroke	马达位置 Motor position		电机功率 Motor power		原点感应器 Origin sensor	极限端点感应器 Endpoint limit sensor		特注样式 Special note style		
5	5mm	100-1200	MC	马达直连 Motor exposed	M750	750W	外挂型 Plug-in type		01		含电机 Including motor	
10	10mm	间距 100mm Spacing 100mm	MW	马达折返 Motor back	M86	86步进 Stepper motor	C	马达侧 Motor side	1	1只 1Pc	无	不含电机 Motor not included
25	25mm				后置B为有刹车 Rear B is braked		A	反马达侧 Antimotorside	2	2只 2Pc		
							无	Sensor	无	Sensor		

## EY80性能参数

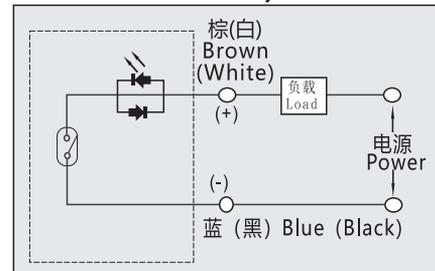
## EY80 Performance parameter

型号 Model	EY80-L5-100-MC-M750B-C2-01		
安装方式 Installation method	直连 Direct connection	折返 Turn-back	
丝杆直径 Screw rod diameter(mm)	25		
丝杆导程 Lead (mm)	5	10	25
有效行程 Effective stroke(mm)	0-1200		
最大出力 Rated output(KN)	2.0		
输入电机 Input motor	750W/86步进 Stepper motor		
额定速度 Rated speed(mm)	250	500	1250
位置重复精度 Repeatability(mm)	±0.01		
联轴器 Coupling	Φ17-Φ19		
最大可搬重量 Max payload(kg)	水平使用 Horizontal	204	
	垂直使用 Vertical	73	
标准行程 Standard stroke(mm)	100-1200mm(间隔100mm)		

## 感应器接线圈 <原点及端点>

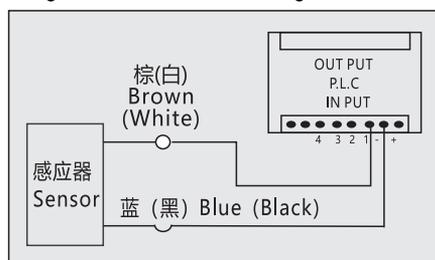
## Sensor Layout

一般性负载：如继电器或其它之电阻性负载  
General load:: Such as relay or resistive load



## 可程式控制器接线圈

## Programmable controller wiring coil



※行程超过600时,会产生偏摆, 此时请将速度降低。

Stroke exceeds 600 mm, a deflection will occur, in this case, please reduce the speed.

※符合型律规范的正常使用时, 保证寿命为10000公里。

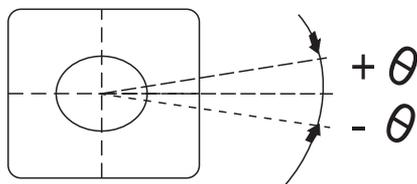
Under the normal use, the guaranteed life is 10,000 kilometers.

\*\*无法套用标准规范, 如有需求请咨询我公司销售部。

The use of inverted hanging can not be applied to the standard specifications, please contact with our sales if you need.

## 出力杆的防止回转精度

## Anti-rotating Accuracy of Rod

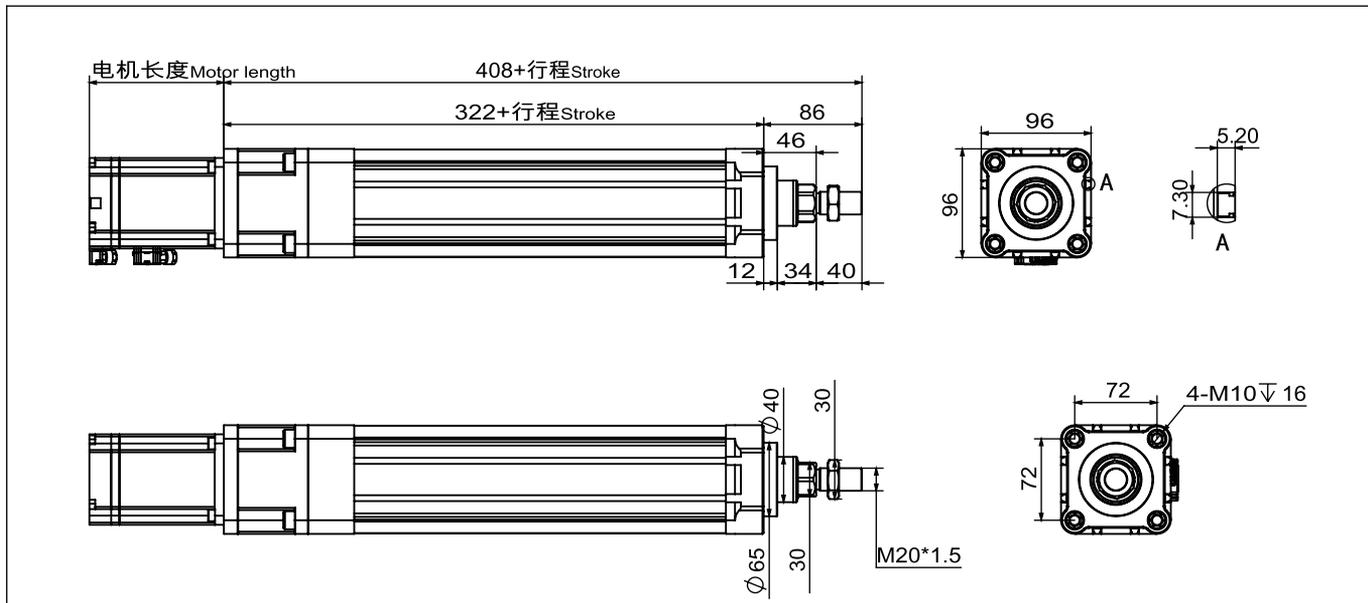


防止回转精度 $\theta$ Anti-rotating accuracy
$\pm 1^\circ$

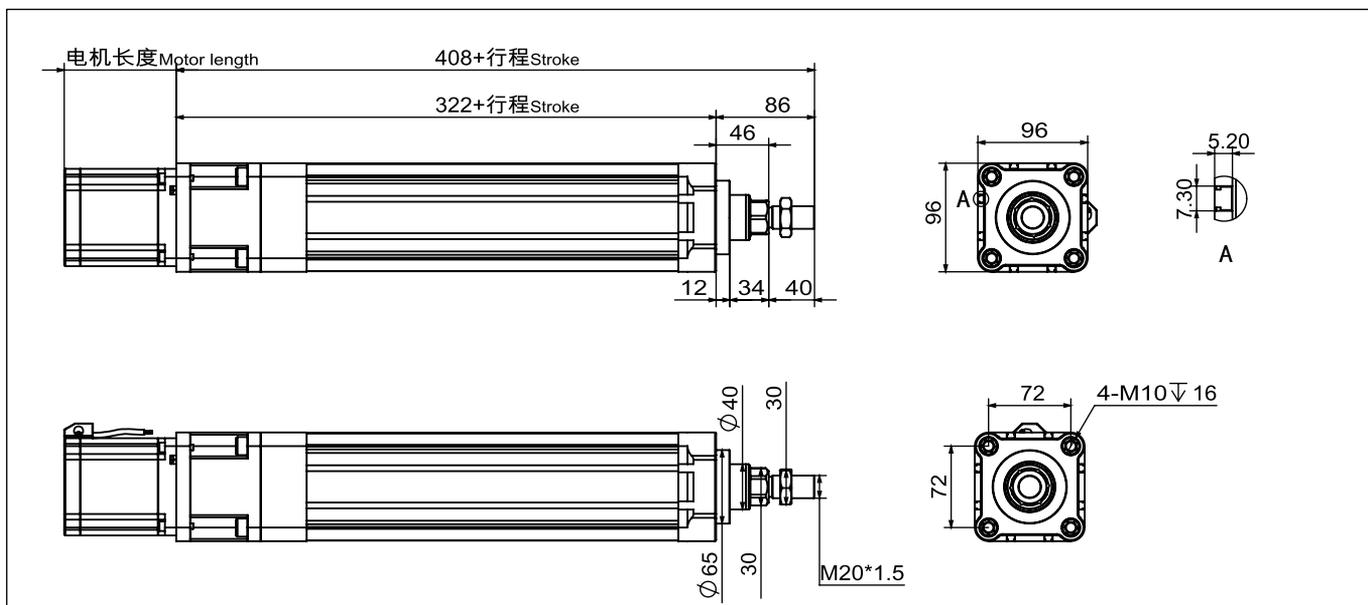
※使用时请避免活塞杆承受回转扭力, 因为有可能造成防回转装置变形, 导致自动开关反应异常, 内部滑轨变形, 进而增加运动阻力。

※Avoid the piston rod from being subjected to slewing torque when using, Because of it is possible to cause deformation of the anti-rotation device, and the automatic switch reaction to be abnormal. And internal rails are deformed, thus increasing the motion resistance.

## EY80电缸-伺服直连尺寸图 EY80 electric cylinder-servo direct connection size

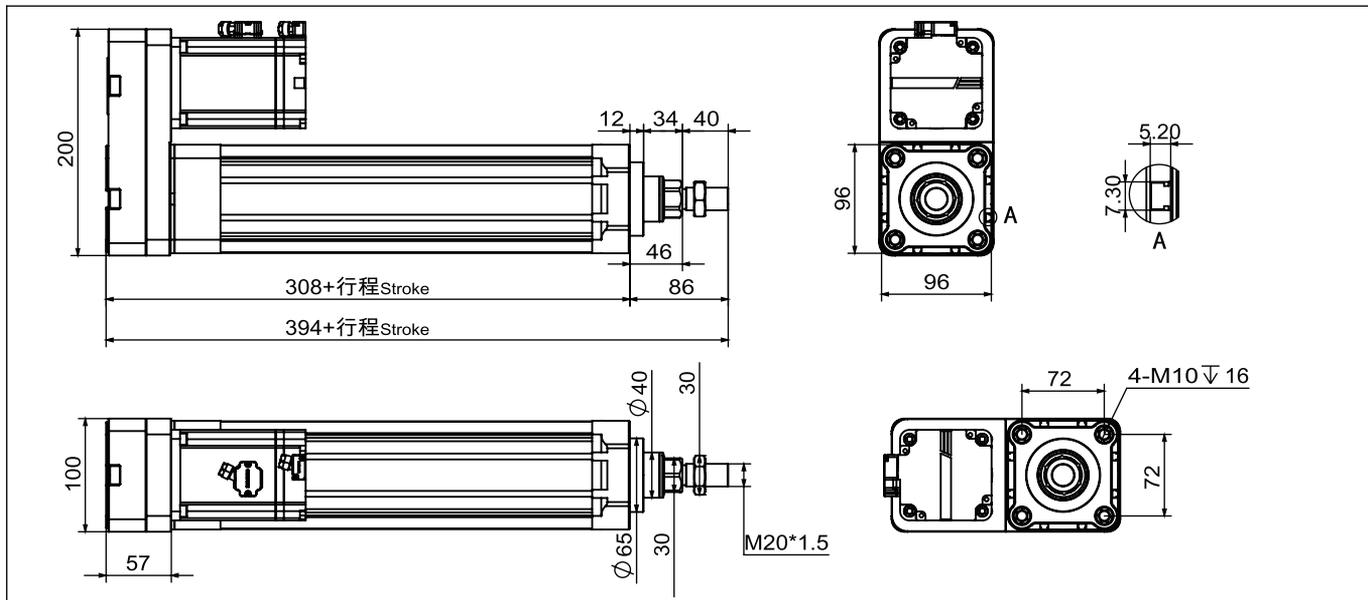


## EY80电缸-步进直连尺寸图 EY80 electric cylinder-step direct connection size

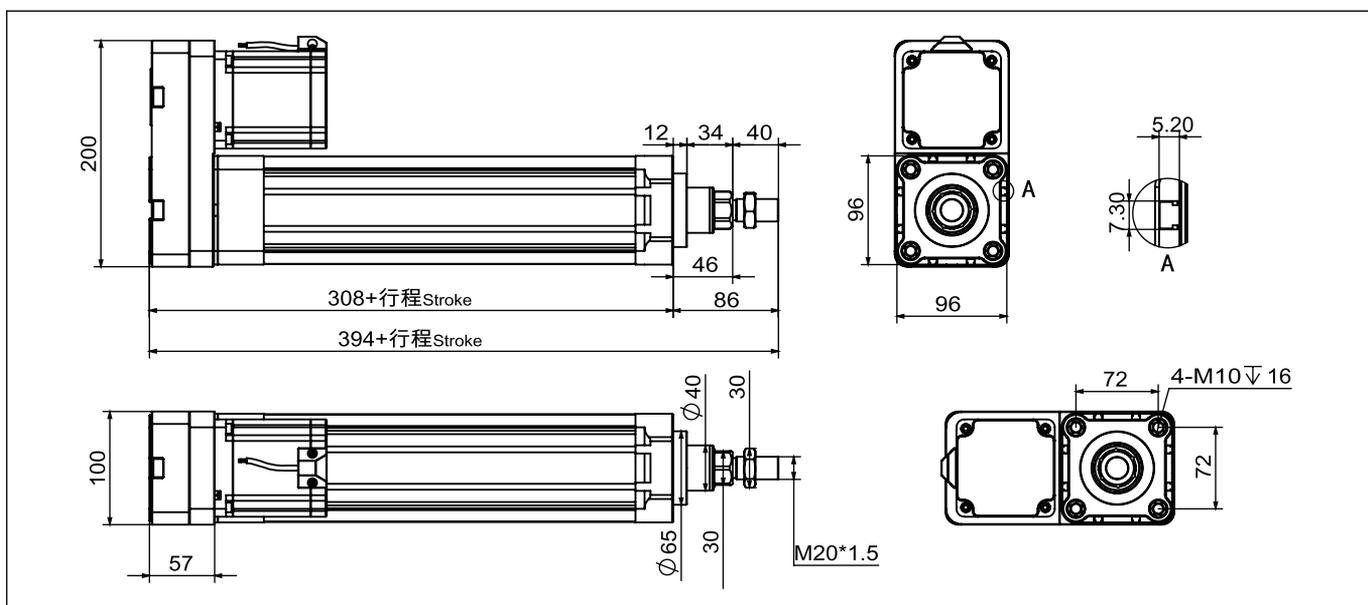


有效行程Stroke (mm)	50	100	150	200	250	300	350	400	-	1500
总长length (mm)	458	508	558	608	658	708	758	808	-	1908
重量weighth(kg)	7.4	8.3	9.2	10.1	11	11.9	12.8	13.7	-	33.5

## EY80电缸-伺服折返尺寸图 EY80 electric cylinder-servo turn-back dimension

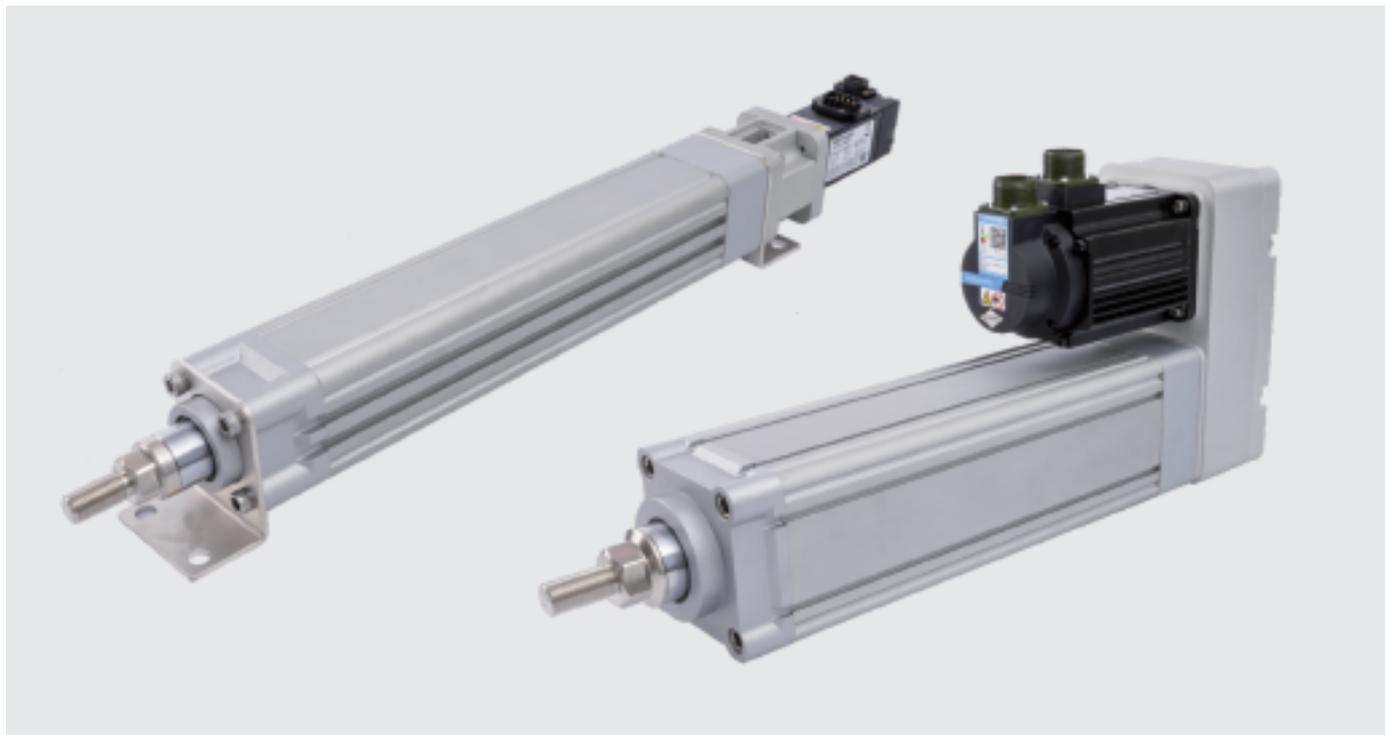


## EY80电缸-步进折返尺寸图 EY80 electric cylinder-step turn-back dimension



有效行程Stroke (mm)	50	100	150	200	250	300	350	400	-	1500
总长length (mm)	444	494	544	594	644	694	744	794	-	1894
重量weight(kg)	7.1	8	8.9	9.8	10.7	11.6	12.5	13.4	-	33.2

## EY100



最大行程 1600mm  
Max stroke

最高速度 1600mm/s  
Max speed

马达容量 1000W  
Motor 110步进

滚珠丝杆  $\Phi 32$   
Ball screw

### 型号表达方式 Model Detail Display

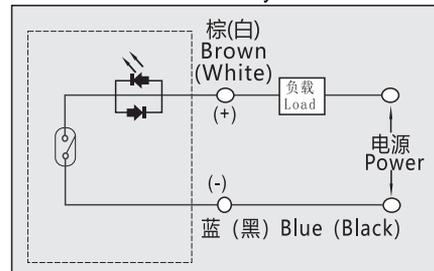
EY100	-L5	-100	-MC	-M1000B	-C	2	-01					
本机型号 Model	导程 Lead	标准行程 Standard stroke	马达位置 Motor position		电机功率 Motor power		原点感应器 Origin sensor		极限端点感应器 Endpoint limit sensor		特注样式 Special note style	
5	5mm	100-1600	MC	马达直连 Motor exposed	M1000	1000W	外挂型 Plug-in type		外挂型 Plug-in type		01	含电机 Including motor
10	10mm	间距100mm Spacing 100mm	MW	马达折返 Motor back	M110	110步进 Stepper motor	C	马达侧 Motor side	1	1只 1Pc	无	不含电机 Motor not included
20	20mm				后置B为有刹车 Rear B is braked		A	反马达侧 Antimotorside	2	2只 2Pc		
32	32mm						无	Sensor	无	Sensor		

## EY100性能参数 EY100 Performance parameter

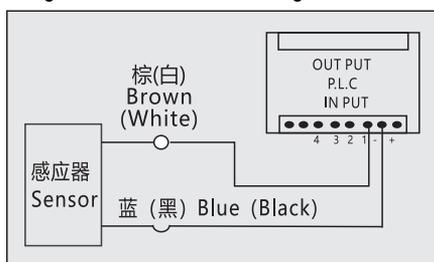
型号 Model	EY100-L5-100-MC-M1000B-C2-01			
安装方式 Installation method	直连 Direct connection	折返 Turn-back		
丝杆直径 Screw rod diameter(mm)	32			
丝杆导程 Lead (mm)	5	10	20	32
有效行程 Effective stroke(mm)	0-1600			
最大出力 Rated output(KN)	3.0			
输入电机 Input motor	1000W/110步进			
额定速度 Rated speed(mm)	250	500	1000	1600
位置重复精度 Repeatability(mm)	± 0.01			
联轴器 Coupling	Φ19-Φ22			
最大可搬重量 Max payload(kg)	水平使用 Horizontal	272		
	垂直使用 Vertical	97		
标准行程 Standard stroke(mm)	100-1600mm(间隔100mm)			

## 感应器接线圈 <原点及端点> Sensor Layout

一般性负载：如继电器或其它之电阻性负载  
General load:: Such as relay or resistive load



可编程式控制器接线圈  
Programmable controller wiring coil



※行程超过800时,会产生偏摆, 此时请将速度降低。

Stroke exceeds 800 mm, a deflection will occur, in this case, please reduce the speed.

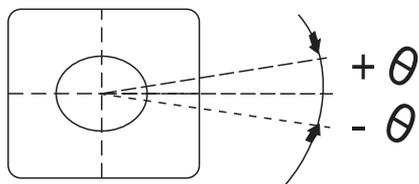
※符合型律规范的正常使用时, 保证寿命为10000公里。

Under the normal use, the guaranteed life is 10,000 kilometers.

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## 出力杆的防止回转精度 Anti-rotating Accuracy of Rod

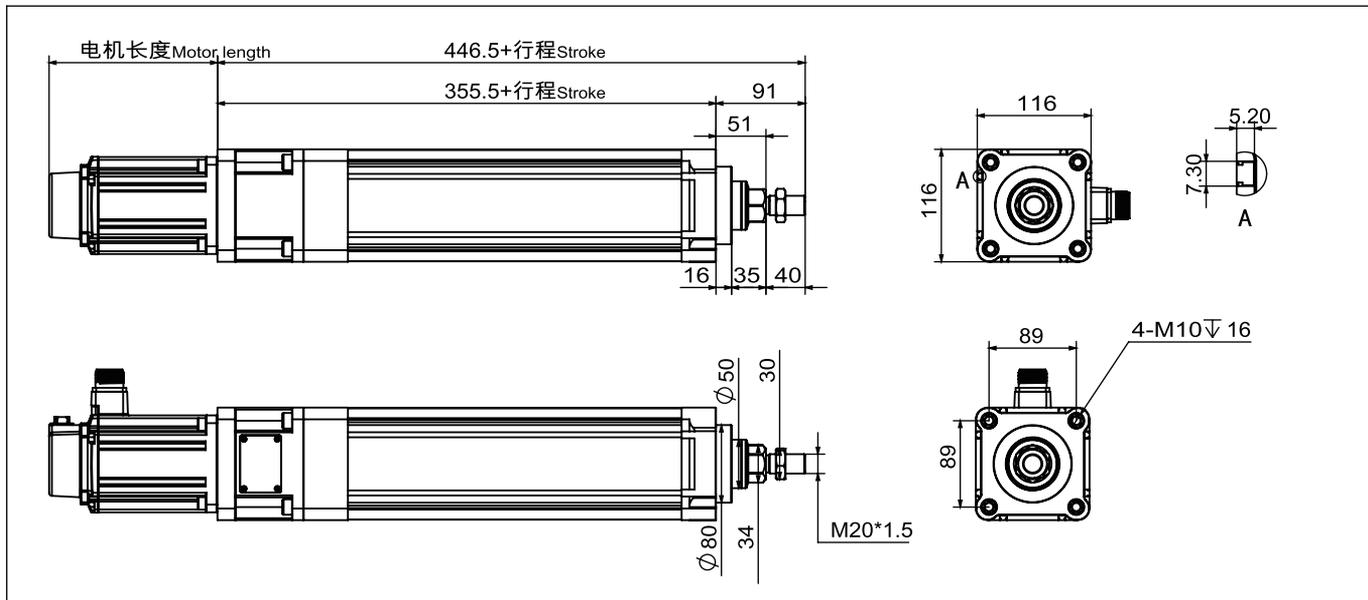


防止回转精度 $\theta$ Anti-rotating accuracy
$\pm 1^\circ$

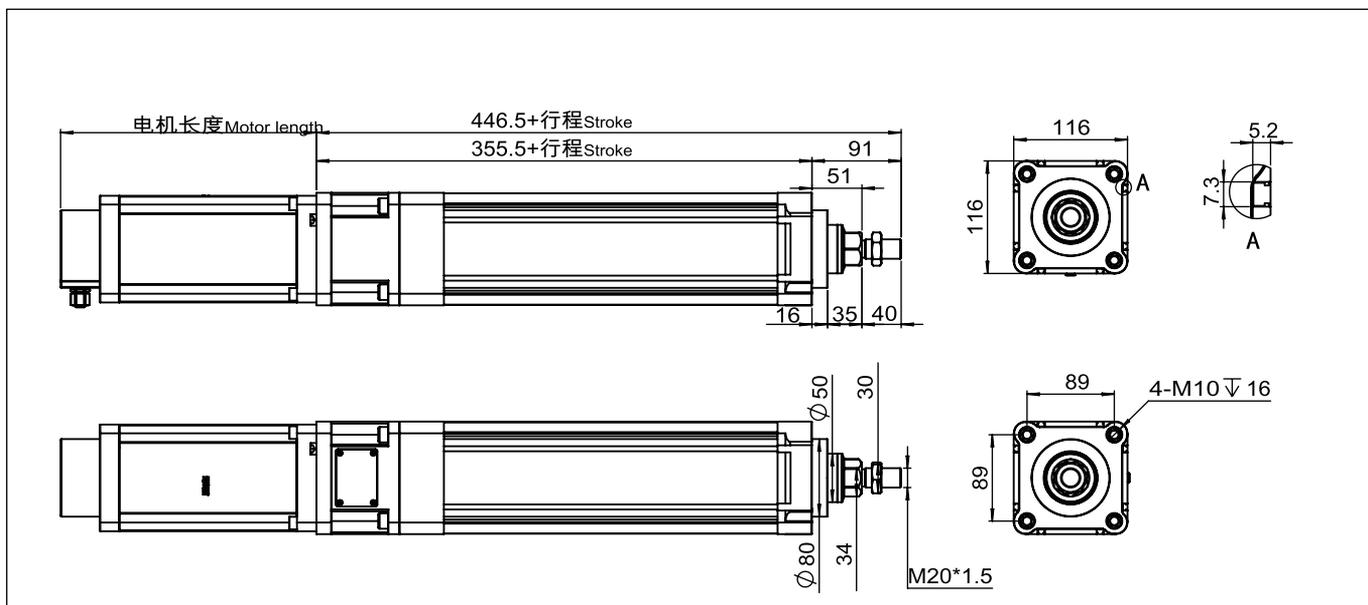
※使用时请避免活塞杆承受回转扭力, 因为有可能造成防回转装置变形, 导致自动开关反应异常, 内部滑轨变形, 进而增加运动阻力。

※Avoid the piston rod from being subjected to slewing torque when using, Because of it is possible to cause deformation of the anti-rotation device, and the automatic switch reaction to be abnormal. And internal rails are deformed, thus increasing the motion resistance.

## EY100电缸-伺服直连尺寸图 EY100 electric cylinder-servo direct connection size

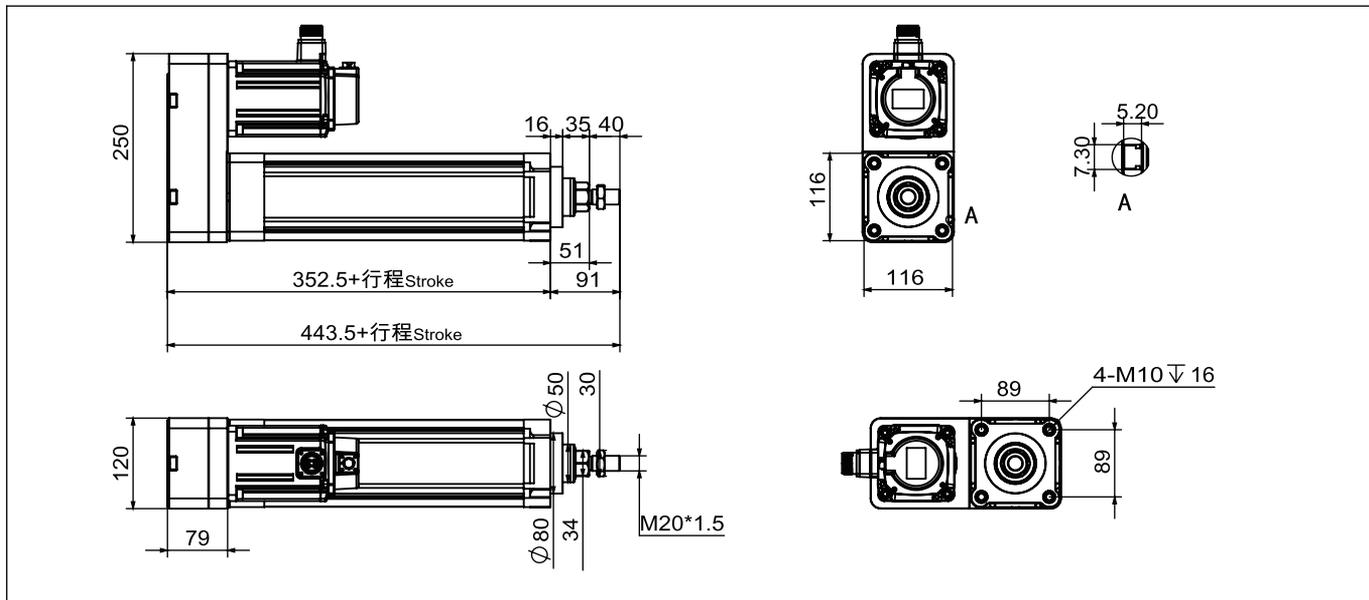


## EY100电缸-步进直连尺寸图 EY100 electric cylinder-step direct connection size

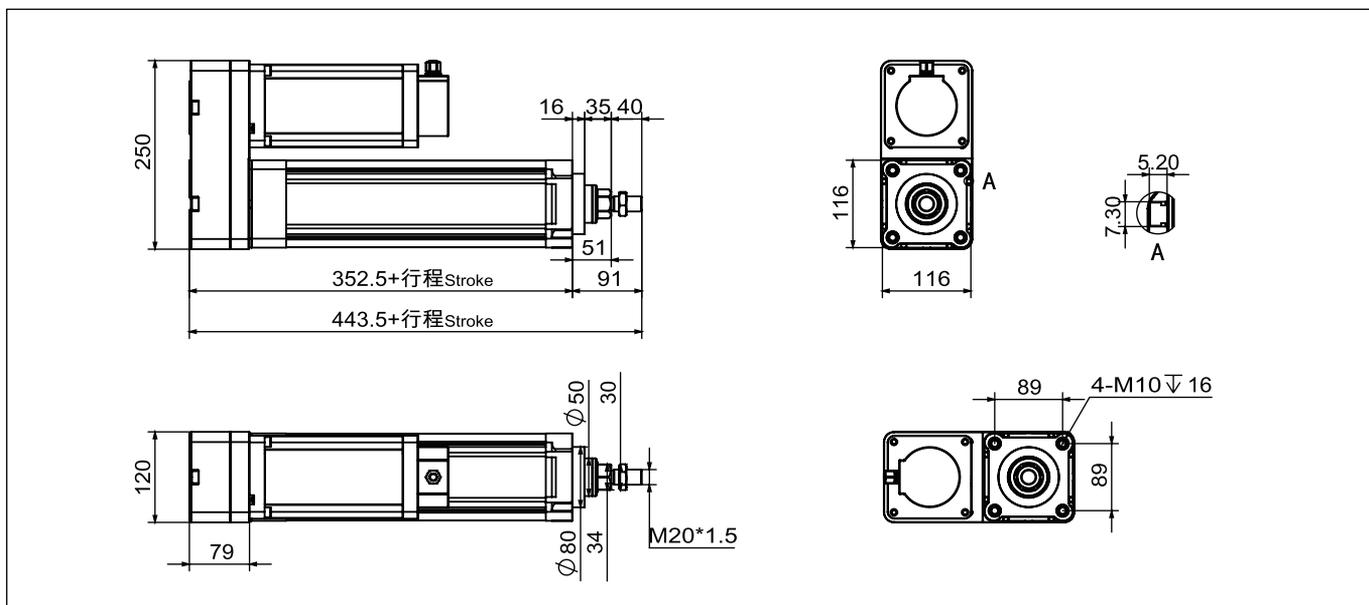


有效行程 Stroke (mm)	50	100	150	200	250	300	350	400	-	2000
总长 length (mm)	496.5	546.5	596.5	646.5	696.5	746.5	796.5	846.5	-	2446.5
重量 weight(kg)	13.7	15.1	16.5	17.9	19.3	20.7	22.1	23.5	-	68.3

## EY100电缸-伺服折返尺寸图 EY100 electric cylinder-servo turn-back dimension



## EY100电缸-步进折返尺寸图 EY100 electric cylinder-step turn-back dimension



有效行程Stroke (mm)	50	100	150	200	250	300	350	400	-	2000
总长length (mm)	493.5	543.5	593.5	643.5	693.5	743.5	793.5	843.5	-	2443.5
重量weigh(kg)	14.7	15.3	16.7	18.1	19.5	20.9	22.3	23.7	-	68.5



## 电缸说明书

### ●电机安装

#### 1.当电机与电动缸直连时，通过梅花联轴器相连

- (1) 将联轴器盖板打开，松开电机尾端联轴器螺丝；
- (2) 将电机插入联轴器中，将电机安装在直连板上并均匀交替拧紧安装螺丝；
- (3) 将联轴器连接电机一端螺丝拧紧；
- (4) 将联轴器盖板安装好。

#### 2.当电机与电动缸并联时

- (1) 将电机固定在折返板上；
- (2) 将同步轮分别安装在电机轴与电动缸尾端，确定轴向位置；
- (3) 装上同步带；
- (4) 调整同步带松紧，调整电机位置使得同步带张紧；
- (5) 调整合适，盖上后盖；
- (6) 检查。

### ●安装注意事项

#### 1.负载应有独立导向机构

#### 2.矫正行程与行程开关位置时应将惯性行程考虑在内

#### 3.电动缸主要承受轴向负载以及少量径向负载

#### 4.安装完毕后应仔细检查



## ELECTRIC CYLINDER MANUAL

### ● Motor installation

#### **1. When the motor is directly connected with the electric cylinder, it is connected through the plum coupling**

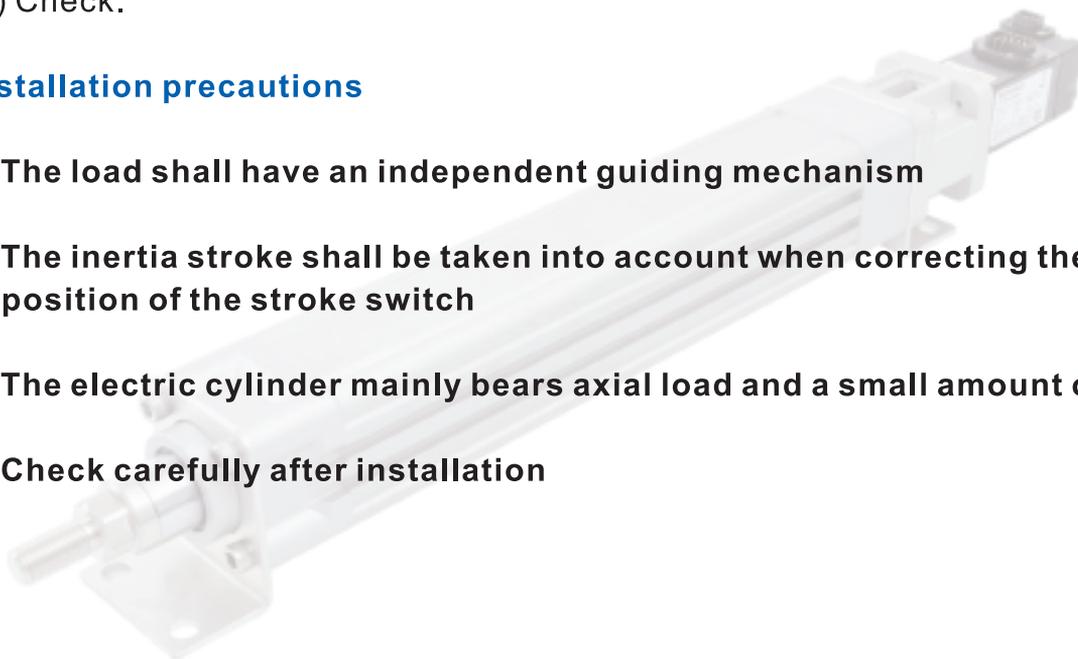
- (1) Open the coupling cover plate and loosen the coupling screws at the end of the motor;
- (2) Insert the motor into the coupling, install the motor on the straight connecting plate and tighten the mounting screws evenly and alternately;
- (3) Tighten a section of screws connecting the coupling to the motor;
- (4) Install the coupling cover plate.

#### **2. When the motor is in parallel with the electric cylinder**

- (1) Fix the motor on the turn back plate;
- (2) Install the synchronizing wheel on the motor shaft and the tail end of the electric cylinder respectively to determine the axial position;
- (3) Install the timing belt;
- (4) Adjust the tension of the synchronous belt, and adjust the position of the motor to make the synchronous belt tensioned;
- (5) Adjust properly and cover the rear cover;
- (6) Check.

### ● Installation precautions

- 1. The load shall have an independent guiding mechanism**
- 2. The inertia stroke shall be taken into account when correcting the stroke and the position of the stroke switch**
- 3. The electric cylinder mainly bears axial load and a small amount of radial load**
- 4. Check carefully after installation**





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Tel: +86-573-85966868                      Fax: +86-573-85963366  
E-mail: info@bangye-auto.com              Website: www.bangye-auto.com

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网站: www.bangye-auto.com  
邮箱: info@bangye-auto.com



**浙江邦焯自动化科技有限公司**  
Zhejiang Bangye Automation Technology Co., Ltd.

## ABOUT US

如果你看我们的标志，你会发现它是由两个相互环绕的形状组成的。它的意思是制造与创新相互配合。

正如 BANGYE 商标所示，我们希望能与我们的客户进行更好的沟通与合作，让我们在共同的行业中走向辉煌。

我们是压铸行业领先的制造商，特别是在气动和汽车配件领域。其中超过90%以上的生产工艺均是由我们自己完成的，这是我们与其他供应商不同的地方。

我们有超过20年的 OEM 经验，使我们在代工领域起着重要作用。我们的生产能力，综合服务以及丰富的经验使我们成为您的最佳选择。

成立时间：2017年

注册资本：6000万元

年度销售额：1.2亿元

员工数量：220-280

地址：中国浙江



在2020年12月从上海搬迁至浙江嘉兴