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■伺服电动缸基本介绍 / PRODUCTS OF OVERVIEW

电动缸的原理：

电动缸是将电机的旋转运动通过丝杆和丝杠副的机械运动转换为推杆的直线运动。利用伺服电机的闭环控制特性，可以很便捷地实现对推力、速度和位置的精准控制；利用现代运动控制技术、数控技术及总线（网络）技术，实现程序化、总线（网络）化控制。因其控制精准，易于使用的特性，使气缸和液压缸传动无法实现的精密运动控制得以实现。

Principle of the Electric Cylinder:

The electric cylinder converts the rotary motion of the motor into the linear motion of the push rod via the screw and nut assembly. Leveraging the closed-loop control characteristics of servo motors, conveniently enables precise control of thrust, speed, and position. Utilizing modern motion control technology, CNC technology, and bus (network) technology, allows for programmed and bus (network) control. Due to its ease of control and use, it achieves the precise motion control that cannot be realized by pneumatic and hydraulic cylinder transmissions.

电动缸的特点：

电动缸采用先进的模块化设计方法，具有如下显著特点：

1. 结构紧凑，外形尺寸小，噪音低，寿命长，易安装与维护，多重安全保护措施。
2. 精确的位置控制，重复定位精度可达 0.01mm，增加外部位移传感器精度可达 0.005mm。
3. 精确的速度控制，可以任意设定速度波形，实现高速平稳无冲击运行，控制精度可达 0.05%。
4. 精确的推力控制，增加外部推拉力传感器后控制精度可达 0.5%。
5. 可采用梯形丝杆、滚珠丝杆、行星滚柱丝杆的传动方式。
6. 可采用伺服电机、步进电机、直流电机、交流电机的驱动方式，进行伺服和变频控制。

Features of the Electric Cylinder

The electric cylinder adopts an advanced modular design approach, offering the following significant features:

1. Compact structure, small overall dimensions, easy installation and use, simple maintenance, low noise, long service life, and multiple safety protection measures.
2. Precise position control, the repeatability can be up to 0.01mm, and can be improved to ± 0.005 mm with the external displacement sensor.
3. Precise speed control, allowing for arbitrary speed profile setting, enabling high-speed, smooth, and shock-free operation, with control accuracy up to 0.05%.
4. Precise thrust control, the control accuracy can be up to 0.5% with an external push/pull force sensor.
5. Various transmission methods: trapezoidal screw, ball screw, or planetary roller screw.
6. Various drive methods: servo motors, stepper motors, DC motors, or AC motors, allowing for servo and variable frequency control.

电机输出扭矩与电动缸输出力的关系：

$$F = T \times \eta \times 2\pi \times R / L$$

F：电动缸输出力，单位：KN

T：电机输出扭矩，单位：Nm

R：减速比

L：丝杆导程，单位：mm

π ：圆周率

η ：效率（一般选择电动缸总效率为 85%，但效率根据实际使用工况变化，请注意）

Relationship between Motor Output Torque and Electric Cylinder Output:

$$F = T \times \eta \times 2\pi \times R / L$$

F: Electric Cylinder Output Force, Unit: KN

T: Motor Output Torque, Unit: Nm

R: Ratio

L: Screw Lead, Unit: mm

π : Pi

η : Efficiency (Typically selected at 85% for the total electric cylinder efficiency. Please note the actual efficiency is subject to specific operating conditions.)

推力与速度计算公式：

额定推力 = 电机扭矩 $\times 2\pi \times$ 减速比 \div 导程 \times 效率 (85%)

额定速度 = 电机转速 \times 导程 \div 减速比 $\div 60$

Thrust and Speed Calculation:

Rated Thrust = Motor Torque $\times 2\pi \times$ Ratio \div Lead \times Efficiency (85%)

Rated Speed = Motor Speed \times Lead \div Ratio $\div 60$

电动缸的寿命计算：

电动缸使用寿命，一般是指电动缸内部的丝杆寿命。

Lifespan Calculation:

The lifespan of the electric cylinder generally refers to the life of the internal screw.

电动缸的寿命可分为两部分：

1. 第一个是丝杆的疲劳寿命，它可以通过计算得出；
2. 第二个是电动缸的使用寿命，受使用条件的影响（如温度、灰尘、润滑种类和添加频率等）。

It can be divided into two parts:

1. The fatigue life of the screw, which can be calculated.
2. The service life of the electric cylinder, influenced by usage conditions (such as temperature, dust, type of lubrication, and frequency of regular replenishment, etc.).

使用寿命往往通过经验得出，以下是丝杆疲劳寿命的计算方法：

$$L10 = (Ca/Fm)^3 \times L$$

L10：电动缸的寿命，单位：km

Fm：电动缸承受的平均负载，单位：KN

Ca：丝杆螺母的基本额定动负载，单位：KN（可通过丝杆样本查出）

L：丝杆导程，单位：mm

Service life is often determined empirically. The calculation method for screw fatigue life is as follows:

$$L10 = (Ca/Fm)^3 \times L$$

L10: Electric Cylinder Lifespan, Unit km

Fm: Average Load on Electric Cylinder, Unit KN

Ca: Basic Dynamic Load Rating of Screw Nut, Unit KN (Can be found in screw specifications)

L: Screw Lead, Unit mm

■关于电动缸选型的建议

着工业自动化的飞速发展，以及智能制造的普及，电缸应用的场景越发广泛，其中不乏全新的应用案例与气动液压的替换方案。我司致力于推动执行缸的电气化整体解决方案，结合控制、动力以及执行的全闭环场景替换。我们通过在娱乐设备、继电器压装、口罩机耳带焊接、锂电池产线、汽车零部件组装、粉末冶金成型等场景的成熟案例，对产品进行了总结归类，可帮助客户更好地选择合适的配置。

■ Selection of the Electric Cylinder:

As industrial automation advances rapidly and smart manufacturing becomes widespread, electric cylinders now have increasingly diverse applications—from new use cases to replacing pneumatic and hydraulic systems. GIGA is committed to developing integrated electrified solutions for electric cylinders, delivering full closed-loop replacements that integrate control, power, and execution. Based on proven application cases in areas such as amusement equipment, relay press-fitting, mask machine ear-band welding, lithium battery production lines, automotive component assembly, and powder metallurgy molding, GIGA have systematically organized products to help customers select the optimal configurations.

1. 关于常规气液增压缸替换方案

常规气液增压缸是一种通过压缩空气驱动液压运动的过渡性执行器。其优点是控制方便、动力源普及，但由于压缩空气的可压缩性，导致压力不稳，效率不高，速度不快。另外气液两种介质均存在泄露风险，对密封要求较高。在常规选型过程中，考虑到气体的压缩性，模具的损耗，机构的传递效率，通常会选3T输出力选型为5T，两者之间的差价不大，是工程设计比较常见的选型。

1.Replacement Solution for the traditional Gas liquid Booster Cylinder

The traditional gas-liquid booster cylinder is a common actuator that relies on compressed air to drive hydraulic movement. Its advantages include easy control and the wide availability of its power source. However, since air is compressible, it often suffers from unstable pressure, low efficiency, and limited speed. Further more, both air and hydraulic fluids carry leakage risks, demanding high sealing performance. In the common selection, factors such as air compressibility, mold wear, and mechanical transmission efficiency are considered. It is common in engineering design to select a 5T model for a 3T output requirement, as the price difference between them is minimal.

伺服电缸采用伺服电机作为动力，伺服电机允许一定时间的过载倍数。选型时以额定转矩为基准，实际应用中伺服电机有额定转矩、堵转转矩和最大转矩三种状态。（额定转矩可以理解成伺服空转对应的理论输出转矩，堵转转矩可以理解成伺服堵转对应的输出转矩，最大转矩可以理解成伺服驱动允许的最大转矩。）一般伺服驱动允许瞬时 3 倍过载，超过则报警保护。

The servo electric cylinder uses a servo motor as its power source, and the motor permits short-term overload. For selection, the rated torque serves as the baseline. In practical applications, the servo motor operates with three torque states: rated torque, stall torque, and maximum torque.

(Rated torque refers to the theoretical output torque when the servo motor is idle; stall torque is the output torque when the motor is stalled; and maximum torque is the maximum torque permitted by the servo drive.) Typically, the servo drive allows instantaneous overload up to 3 times the rated torque; exceeding this limit triggers an alarm for protection.

实际应用中当电缸的输出轴压到产品工件时，伺服的堵转转矩通常在额定的 1.5 倍左右。根据伺服特征，在伺服电缸额定 3T 实际最大可输出瞬时 9T 的推力（在机构稳定输出，无损耗情况下）时伺服驱动会报警保护，但在力行程不大的场景中，理论上伺服电缸是允许 3 倍最大瞬时堵转转矩使用的。

利用这一特性，我们在针对增压缸应用场景的替换方案中，可以采用 3T 电缸替换部分 5T 增压缸使用。由于丝杆的静载荷是丝杆允许的最大载荷，压装过程中可通过高速下降，慢速压装的控制将最大载荷限制在丝杆的允许范围之内，延长丝杆寿命，降低电气部分的成本，这种伺服结合丝杆的设计可完美替换大部分气液增压缸，适用于铆接，压装，整型，冲孔，焊接等场景。

In practical applications, when the electric cylinder's output shaft presses against a workpiece, the servo's stall torque is typically around 1.5 times its rated torque.

Based on the servo's characteristics, a 3T-rated servo electric cylinder can actually deliver a maximum instantaneous thrust of 9T (under conditions of stable mechanical output and no power loss)—though the servo drive will trigger an alarm for protection in such cases. However, in scenarios with limited force travel, the servo electric cylinder is theoretically permitted to use 3 times the maximum instantaneous stall torque.

Leveraging this trait, in replacement solutions for gas liquid booster cylinder applications, we can use 3T electric cylinders to replace some 5T booster cylinders. Since the static load of a ball screw is its maximum allowable load, during the press-fitting process, we can control the maximum load within the ball screw's allowable range through high-speed lowering followed by slow-speed pressing. This extends the ball screw's service life and reduces costs for electrical components. This servo-ball screw integrated design can effectively replace most gas liquid booster cylinder, making it suitable for scenarios such as riveting, press-fitting, shaping, punching, and welding.

2. 关于标准拉杆油缸的替换方案

液压是目前主流的出力执行方案之一，成熟稳定，但存在介质泄露的风险，介质液压油的环保问题，能耗低且难以实现精密控制等痛点。油缸多用于大行程出力场景，替换时需考虑丝杆动载荷、轴承推拉双向负载、抗冲击能力和尺寸空间。若不考虑高速冲击且安装空间允许，可采用伺服电缸方案，但需评估成本及丝杆轴承载荷与寿命。

2.Replacement Solution for the Standard Tie-Rod Cylinder

Hydraulics is one of the mainstream actuation solutions, offering maturity and stability. However, it faces challenges such as fluid leakage, environmental concerns related to hydraulic oil, low energy efficiency, and difficulties in achieving precise motion control. Hydraulic cylinders are typically used in long-stroke, high-strength applications. When considering replacements, factors such as the dynamic load of the ball screw, bidirectional bearing capacity, impact resistance, and spatial constraints must be evaluated.

If high-speed impact is not a concern and installation space permits, a servo electric cylinder solution can be adopted. However, it is necessary to evaluate the cost, as well as the load capacity and service life of the ball screw and bearings.

3. 关于气缸的替换方案

气压是主流的出力执行方案之一，适用于位置控制和出力执行。难点在于小体积、低成本。目前主要适用于可调行程缸、倍力气缸、大直径气缸的替换。

3.Replacement Solution for the Cylinder

Pneumatics is one of the leading actuation technologies for position and force control applications. Its main challenges are miniaturization and cost reduction. It is increasingly used to replace adjustable-stroke, tandem, and large-bore cylinders.

4. 关于防尘的选型

电缸内部存在活塞往复运动，有“呼吸效应”。在粉尘环境中需特殊备注，常规型号默认为无尘清洁环境。

4.Selection for Dust Protection

The reciprocating motion of the piston inside the electric cylinder creates a "breathing effect." Special dust-proof versions must be specified for dusty environments; standard models are intended only for clean conditions.

5. 关于防水防腐的选型

电缸核心部件为金属件，在需要防水防腐的场景下，需备注环境使用要求，进行针对性方案设计。

5.Selection for Waterproof and Corrosion Resistance

As the core components of the electric cylinder are metal, applications requiring waterproof or corrosion-resistant features must specify environmental requirements to ensure a suitably adapted design.

6. 关于防爆的选型

电缸的电气部件及控制部分需根据防护等级采用防爆标准配置，注意涂层、材质等选型考量。

6.Selection for Explosion-proof

Electrical and control components of the electric cylinder shall comply with explosion-proof standards according to the required protection rating, including appropriate material and coating selection.

7. 关于超温的选型

电缸常规工作温度为 -20~45°C，如需超温使用，需根据工况调整配置，做针对性改善方案。

7.Selection for Extended Temperature Range

The standard operating temperature range is -20° C to 45° C. Operation outside this range requires design adaptations based on actual working conditions for a customized solution.

8. 关于多级电缸的选项

多级电缸适用于长度限制场景。传动丝杆分为梯形丝杆、滚珠丝杆、行星滚柱丝杆三种。梯形丝杆的特点是造价低，效率不高，一致性差，适用于低速低频率使用。滚珠丝杆造价相对较高，生产工艺相对复杂，不耐冲击，适用于高速高频率使用。行星滚柱丝杆速度适中，负载偏大，工艺难度高，多用于高速大负载及轴向冲击的场景，如军用领域。

8. Selection for Multi-Stage Electric Cylinders

Multi-stage electric cylinders are suitable for space-constrained applications.

The drive screws are categorized into three types: trapezoidal screws, ball screws, and planetary roller screws.

Trapezoidal screws are characterized by low cost, low efficiency, and poor consistency, making them suitable for low-speed, low-frequency applications. Ball screws are relatively higher cost, involve more complex manufacturing processes, and are not impact-resistant, excelling in high-speed, high-frequency operations. Planetary roller screws offer moderate speed and high load capacity, and high manufacturing complexity. They are commonly used in high-speed, heavy-load, and high-axial-impact scenarios, such as in military applications.

9. 关于齿轮传动的选型

由于受安装空间影响，电缸大部分采用折返的动力传动方式，由同步带传动，同步带属于柔性传动，特点是噪音小，效率高，但断裂风险较高，极端环境下出于安全性，可靠性，以及维护成本的考虑，建议采用齿轮传动。齿轮传动分为直齿、斜齿、伞齿等，我司大负载系列默认采用斜齿传动，此方案加工周期久，噪音较大，需润滑密封，优点在于可靠性高。（如考虑噪音也可使用特种进口碳纤维皮带 + 同步轮）

9. Selection for Gear Transmission Types

Due to space constraints during installation, most electric cylinders adopt a folded power transmission design, driven by a synchronous belt.

As a form of flexible transmission, synchronous belts feature low noise and high efficiency but carry a higher risk of breakage. In extreme environments, gear drives are recommended for considerations of safety, reliability, and maintenance costs.

Gear drives are categorized into types such as spur gears, helical gears, and bevel gears. GIGA heavy-load product line comes standard with helical gear drives. This solution has longer manufacturing lead times and higher noise levels, and requires lubrication and sealing—its key advantage, however, lies in high reliability. (If noise is a concern, special imported carbon fibre belts paired with synchronous pulleys can also be used.)



■ 订货代码 Model Code

GDA 75 Z - R 01 B10 - C100 - D030 - K1500 20 - FM C - S3 - BC - FB

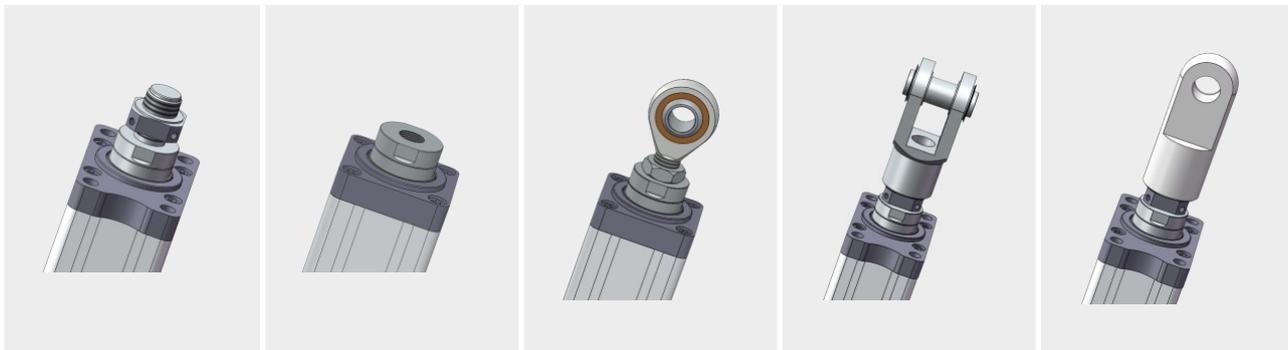
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮

①	②	③	④	⑤	⑥	⑦
系列代码 Series Code	产品规格 Specification	产品类型 Type	电机安装位置 Motor Installation Method	本体固定方式 Body Mounting Method	丝杆导程 Lead	有效行程 Stroke
同步轮电动缸 Timing Pulley Electric Cylinder	40	Z: 重载型 Z: Heavy Duty	L: 直连型 L: In-Line Mount	01 前法兰 Front Flange	B04 4mm	C50 50mm
	50	空白: 基本型 Blank: Standard	R: 折返型 R: Rear Mount	02 后法兰 Rear Flange	B05 5mm	C100 100mm
	60			03 耳轴型 Trunnion	B10 10mm	C150 150mm
	75			04 卧式 Foot Mount	B16 16mm	C200 200mm
	80			05 后铰接 Rear Pivot	B20 20mm	C250 250mm
	94			06 导柱型 Guide Pillar	B25 25mm	C300 300mm
	...			07 前锁型 Front Lock	B32 32mm
					B40 40mm	

⑧	⑨	⑩	⑪	⑫	⑬	⑭
减速比 Ratio	电机功率 Motor Power	电机转速 Motor Speed	前端负载连接方式 Front-End Load Connection Method	传感器配置 Sensor Configuration	感应器数量 No. of Sensor	电机抱闸 Motor Brake
D005 1:2	K50 50W	10 1000rpm	FM 前外牙 Front External Thread	C 压力传感器 Pressure Sensor	S0 无 No	B 不带抱闸 Without Brake
D010 1:1	K100 100W	15 1500rpm			S1 1PC	
D015 1.5:1	K200 200W	20 2000rpm	BA 前内牙 Front Internal Thread	空白 无传感器 No Sensor	S2 2PC	BC 带抱闸 With Brake
D020 2:1	K400 400W	25 2500rpm			S3 3PC	
D030 3:1	K750 750W	30 3000rpm	P 前鱼眼 Front Clevis (with Pin)	
D040 4:1	K1000 1KW	...	Y 前Y型 Front Yoke Mount			
D050 5:1	K1500 1.5KW		I 前I型 Front Eyelet Mount			
D100 10:1	K2000 2KW		...			
...				

⑮
非标定制 Customization
B 标准 Standard
FB 非标 Custom

■前端负载连接方式 Front-End Load Connection Method



前外牙 (标准外螺纹)
Front External Thread
(Standard)

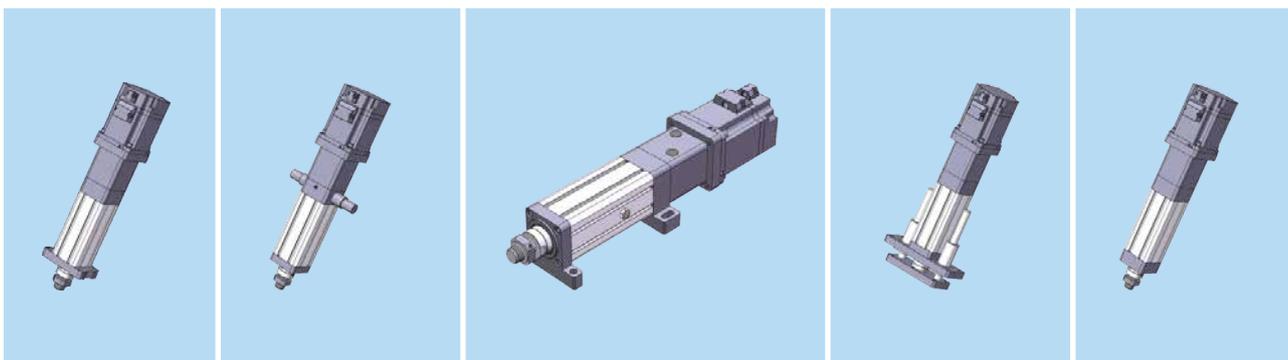
前内牙 (内螺纹)
Front Internal Thread

前鱼眼 (鱼眼接头)
Front Clevis
(Clevis Joint)

前Y型 (Y型接头)
Front Yoke Mount
(Yoke Joint)

前I型 (I型接头)
Front Eyelet Mount
(Eyelet Joint)

■直连型安装方式 In-Line Mount Method



L01

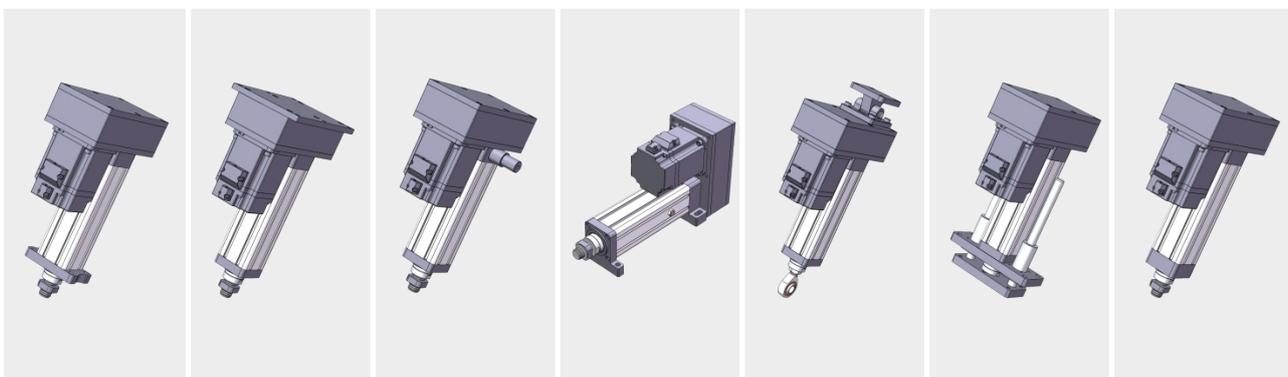
L03

L04

L06

L07

■折返型安装方式 Rear Mount Method



R01

R02

R03

R04

R05

R06

R07

■选型参考 Selection Guide

产品规格 Specification	推力 Thrust	行程 Stroke (mm)	缸径 Bore Diameter	外径 Outer Diameter	丝杆直径 Screw Shaft Diameter	推杆直径 Piston Rod Diameter	直配电机 Recommended Motor		适配减速机框号 Recommended Gearbox Frame Size (mm)
							伺服电机框号 Servo Motor Frame Size (mm)	步进 Stepper Motor Model	
GDA40	≤ 50KG	≤ 300	Φ30	40*40	Φ12	Φ20	40	42	-
GDA50	≤ 150KG	≤ 360	Φ40	53*53	Φ12	Φ25	40、60	57	-
GDA60	≤ 270KG	≤ 480	Φ50	61*61	Φ16	Φ35	60	57	-
GDA60Z	≤ 500KG	≤ 480	Φ50	61*61	Φ16	Φ35	80	86	60
GDA75	≤ 680KG	≤ 600	Φ63	75*75	Φ20	Φ45	60、80	86	-
GDA75Z	≤ 800KG	≤ 600	Φ63	75*75	Φ20	Φ45	100、130	-	60、90
GDA80	≤ 2T	≤ 750	Φ65	80*80	Φ25	Φ50	80、100、130	-	60、90、115
GDA94	≤ 2T	≤ 960	Φ80	94*94	Φ32	Φ60	80、100、130	-	-
GDA94Z	≤ 3T	≤ 960	Φ80	94*94	Φ32	Φ60	180	-	85、90、115
GDA115	≤ 5T	≤ 1200	Φ100	112*112	Φ40	Φ75	130、180	-	115、142
GDA135	≤ 10T	≤ 1500	Φ120	134*134	Φ50	Φ90	130、180	-	115、142
GDA140	≤ 13T	≤ 1500	Φ110	Φ132	Φ50	Φ90	-	-	142
GDA160	≤ 18T	≤ 1800	Φ140	158*158	Φ63	Φ100	-	-	142、180
GDA180	≤ 20T	≤ 1800	Φ160	Φ180	Φ63	Φ120	-	-	142、180
GDA245	≤ 40T	≤ 2400	Φ180	Φ210	Φ80	Φ140	-	-	180、220
GDA300	≤ 60T	≤ 3000	Φ220	Φ280	Φ100	Φ180	-	-	220

注：本缸型的推力、行程、速度、需结合实际使用情况，三者上限值不能同时结合使用。

Note : The thrust, stroke and speed of the cylinder must be combined with the actual usage situation, and the upper limits of the three cannot be used in combination simultaneously.

■减速机对应输入法兰 Gearbox Corresponding Input Flange

减速机框号 Gearbox Frame Size	标准输入法兰 Corresponding Standard Input Flange Frame Size		
	1st and 2nd	1st	2nd
60	60、80	-	-
85	60、80、130	-	-
90	80	100、130	60
115	130	180	80、100
142	130、180	-	-
180	180	200、220	-
220	-	200、220	180

■ GDA40 标准配置参数 Standard Configuration Parameters

基础参数 (推力、行程、速度上限值不可同时结合使用) Basic Parameters (The maximum values for Thrust, Stroke, and Speed cannot be achieved simultaneously.)						
缸筒外径 Cylinder Tube Outer Diameter	缸筒内径 Cylinder Bore Diameter	允许最大推力 Allowable Max. Thrust	行程范围 Stroke Range	允许最大速度 Allowable Max. Speed	活塞杆旋转角度 Piston Rod Rotation Angle	限位开关 Limit Switch
40×40mm	φ30mm	≤ 0.5KN	≤ 360mm	≤ 250mm/s	±0.3°	磁感开关 Reed Switch

可选配置 Optional Configurations				轴承参数 Bearing Parameters		
丝杆导程 Ball Screw Lead	同步轮速比 (输入 : 输出) Timing Pulley Ratio (Input : Output)			轴承型号 Bearing Series	动负荷 Cr Dynamic Load Cr	静负荷 Cor Static Load Cor
04mm	1:1	1.5:1	2:1	深沟球轴承 Deep Groove Ball Bearing 6900-2RS×2	2.7KN	1.27KN
05mm						

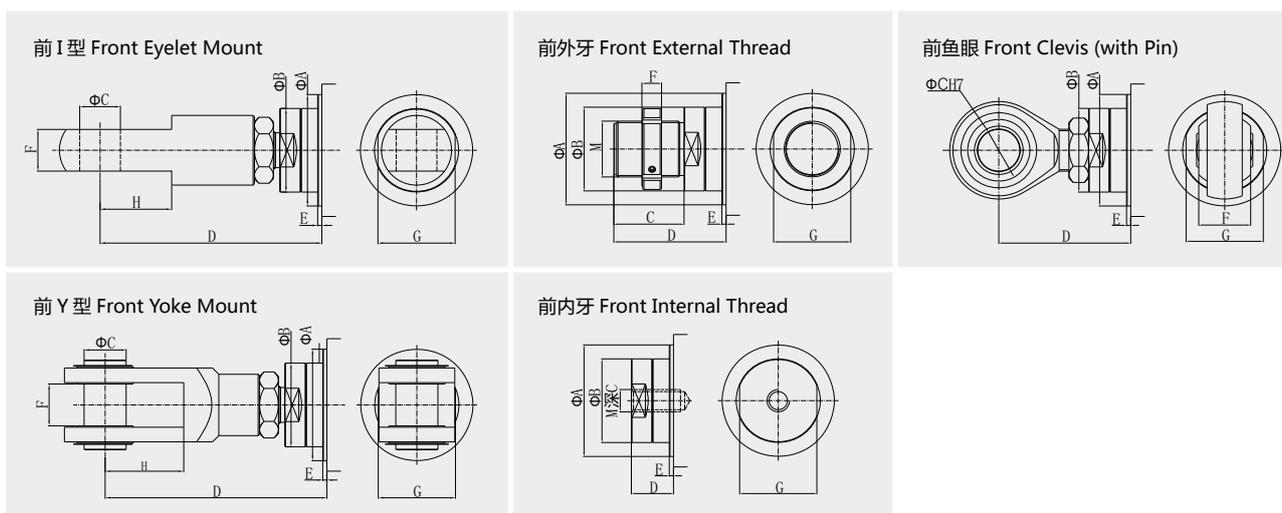
丝杆参数 Screw Parameters										
型号 Series	类型 Type	直径 Diameter	导程 Lead	动负荷 Ca Dynamic Load Ca	静负荷 Coa Static Load Coa	刚性 Rigidity	滚珠直径 Ball Diameter	丝杆轴 Screw Shaft	细长比 Slenderness Ratio	精度等级 / 定位精度 Accuracy Grade / Positioning Accuracy
BSH1204-3.5	滚珠丝杆 Ball Screw	12mm	04mm	7.8KN	16.1KN	23Kg/μm	2.5mm	8K3	1:30	C5/±0.01 C7/±0.02
BSH1205-3.5			05mm	7.8KN	16.1KN					

注：本表数值对应丝杆行程 ≤ 300mm，丝杆行程 > 300mm 时请联系我司技术人员确认。

Note: The values in this table correspond to the screw stroke ≤ 300mm. When the screw stroke > 300mm, please contact our technical support for confirmation.

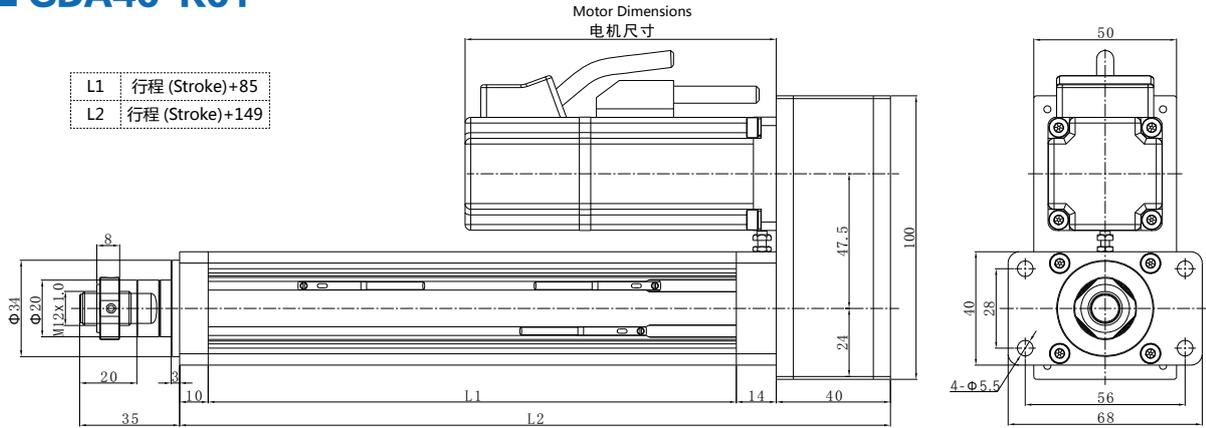
同步轮 / 同步带参数 Timing Pulley & Timing Belt Specifications							
同步轮速比 Timing Pulley Ratio	主动轮规格 Drive Pulley Spec.	从动轮规格 Driven Pulley Spec.	主动轮齿数 No. of Teeth (Drive)	从动轮齿数 No. of Teeth (Driven)	同步轮中心距 Center Distance	同步带周长 Belt Length	同步带宽度 Belt Width
1:1	3M10T21	3M10T15	30	30	47.5mm	186	10mm
1.5:1			20	30		171	
2:1			20	40		186	

■ GDA40 前端连接方式尺寸图 Front-End Connection Dimensions Diagram

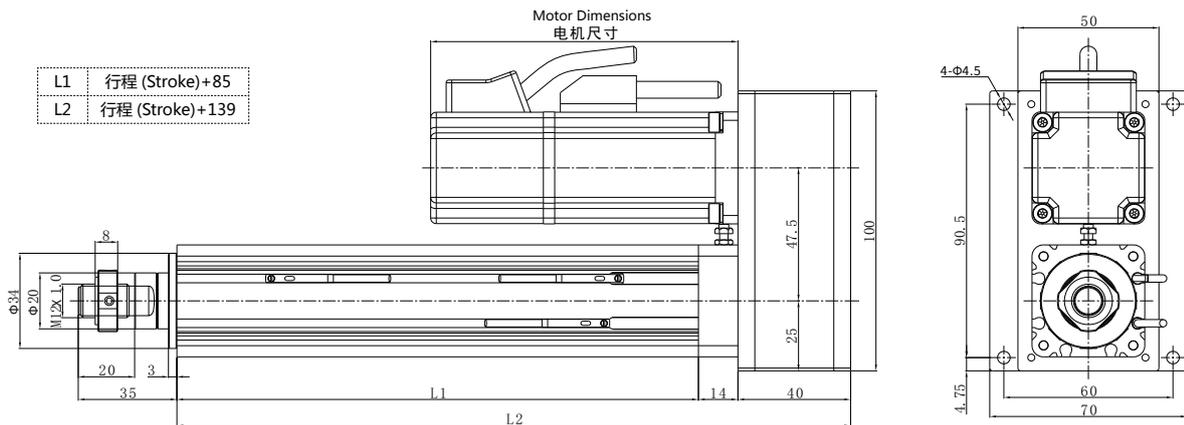


尺寸对应表 Dimension Reference Table (mm)										
负载类型 Front-End Load Connection Method	ΦA	ΦB	ΦC	C	D	E	F	H	G	M
前外牙 Front External Thread	Φ34	Φ20	—	20	43	3	8	—	17	M12×1.0
前内牙 Front Internal Thread	Φ34	Φ20	—	16	15	3	—	—	17	M10
前 I 型 Front Eyelet Mount	Φ34	Φ20	Φ10	—	65	3	10	15	17	—
前鱼眼 Front Clevis (with Pin)	Φ34	Φ20	Φ10	—	45	3	14	—	17	—
前 Y 型 Front Yoke Mount	Φ34	Φ20	Φ10	—	65	3	10	40	19	—

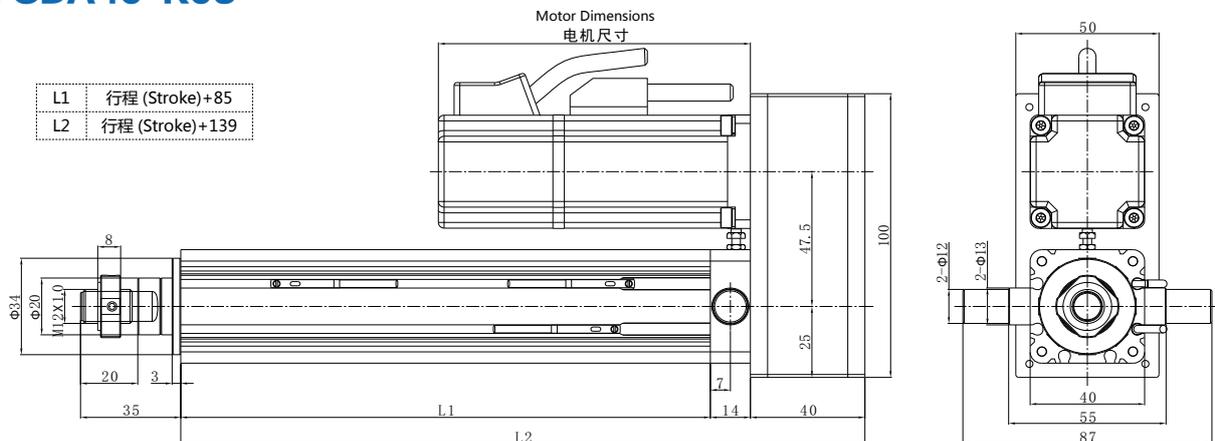
■ GDA40-R01



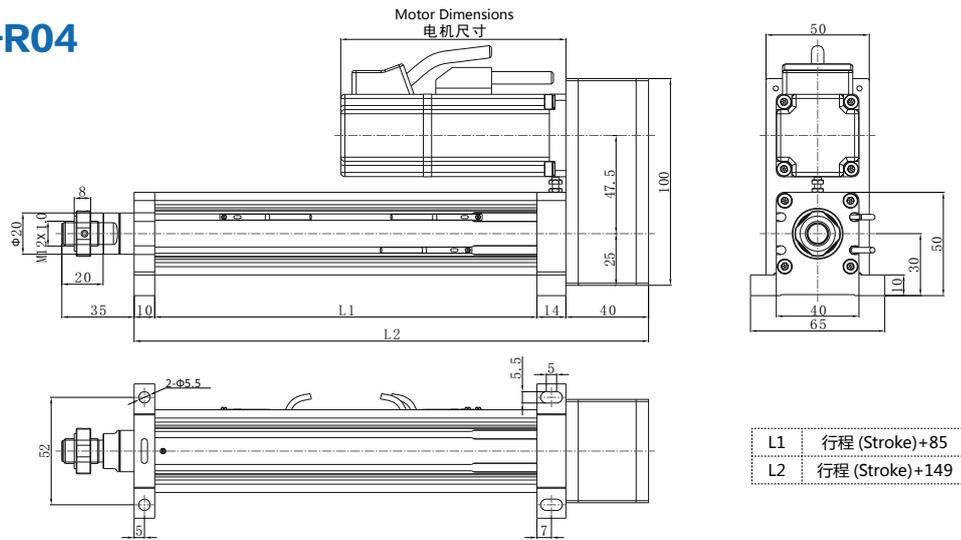
■ GDA40-R02



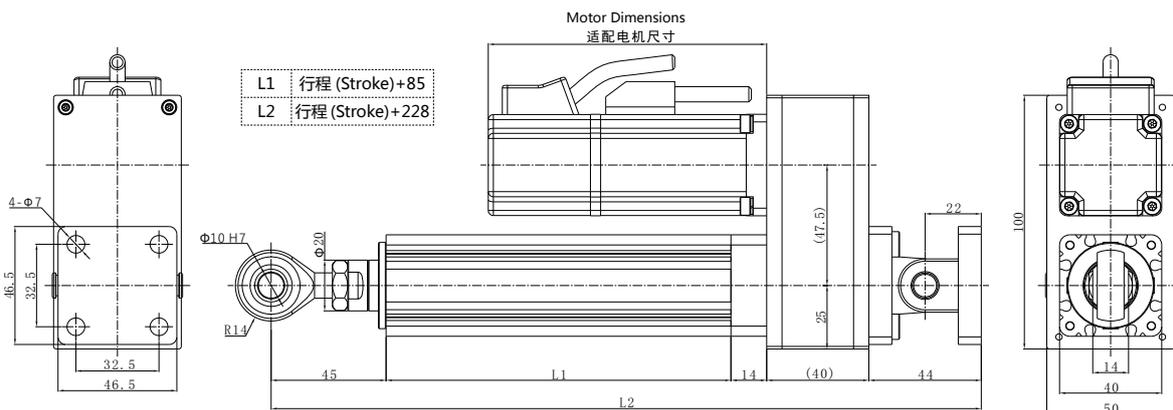
■ GDA40-R03



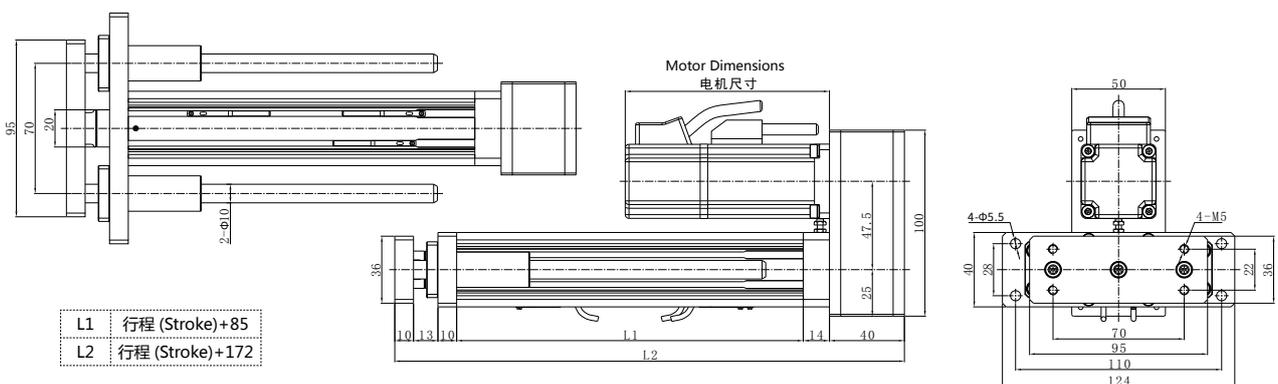
■ GDA40-R04



■ GDA40-R05

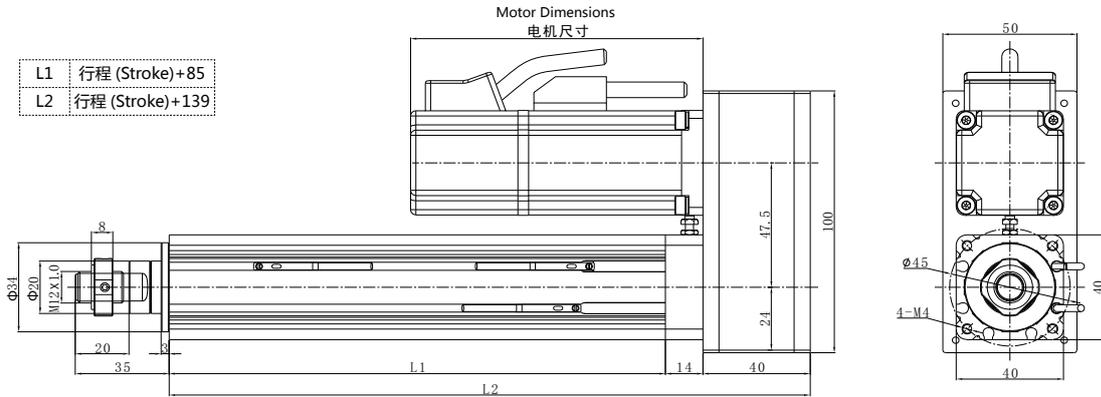


■ GDA40-R06



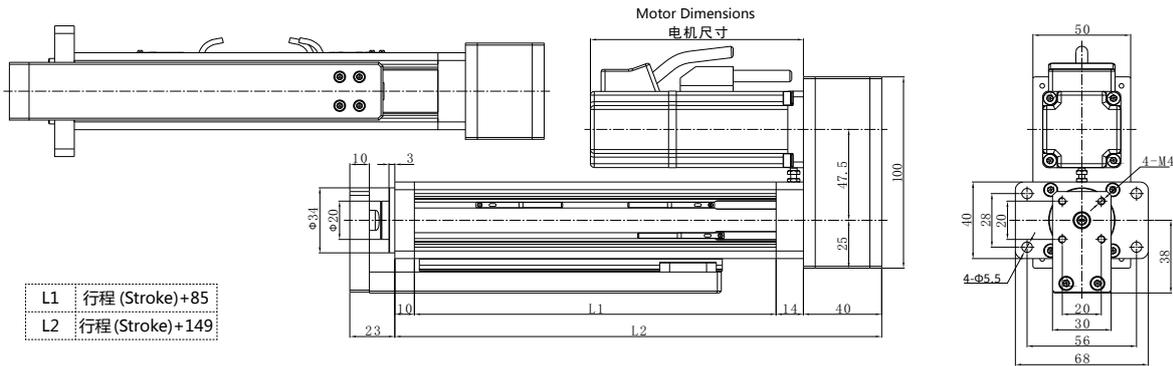
■ GDA40-R07

L1	行程 (Stroke)+85
L2	行程 (Stroke)+139



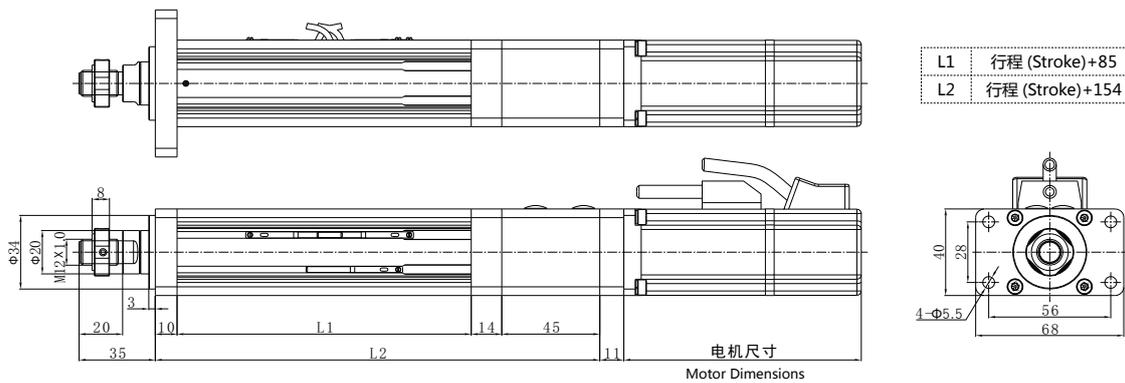
■ GDA40-R08

L1	行程 (Stroke)+85
L2	行程 (Stroke)+149

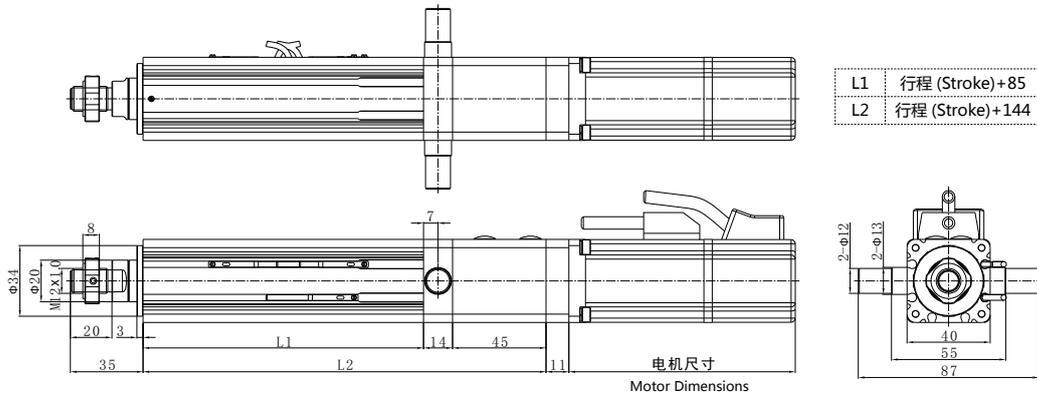


■ GDA40-L01

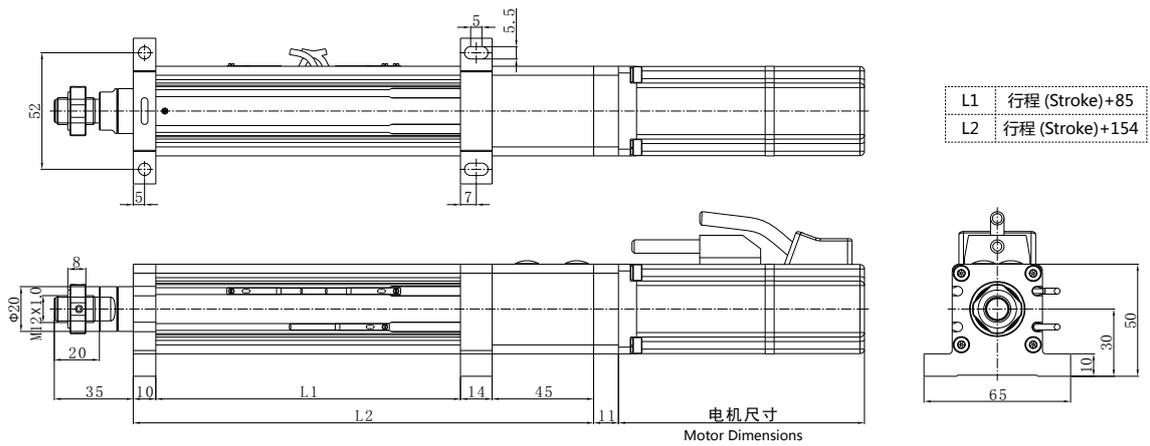
L1	行程 (Stroke)+85
L2	行程 (Stroke)+154



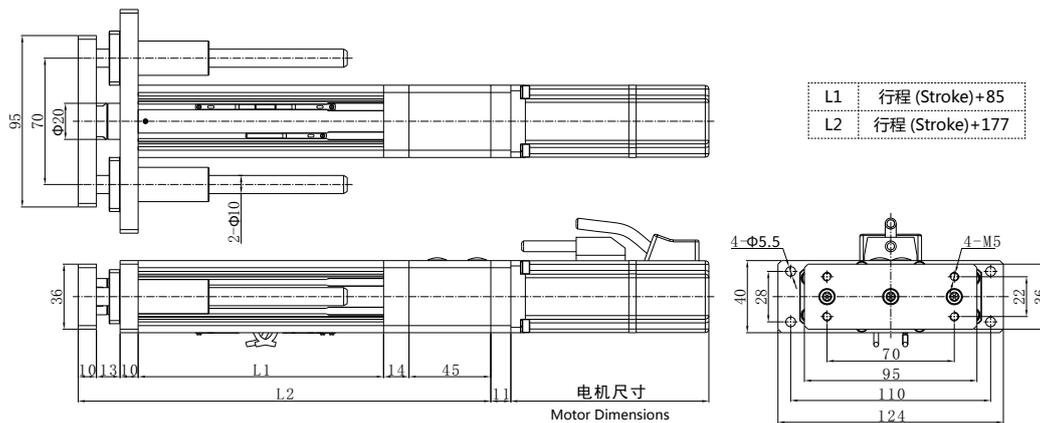
■ GDA40-L03



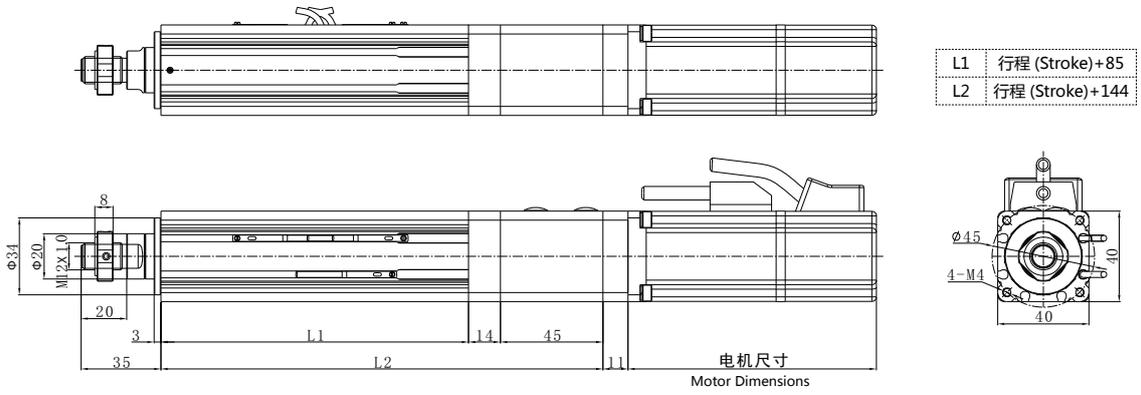
■ GDA40-L04



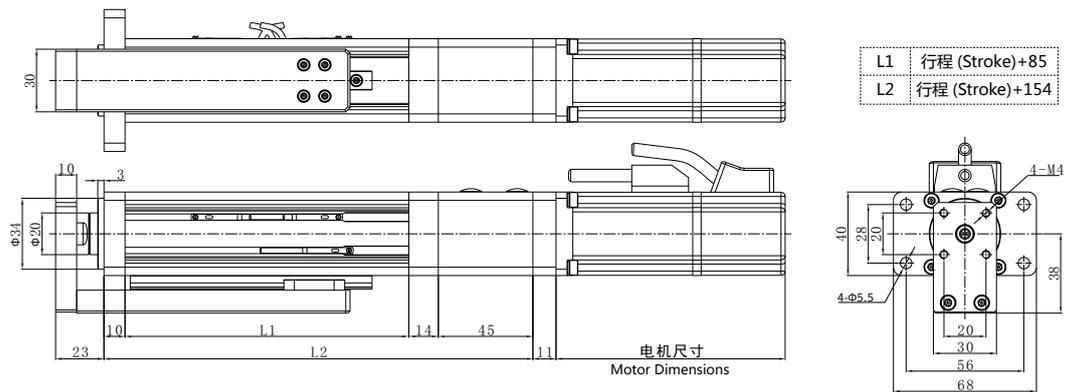
■ GDA40-L06



■ GDA40-L07



■ GDA40-L08



■ GDA50 标准配置参数 Standard Configuration Parameters

基础参数 (推力、行程、速度上限值不可同时结合使用) Basic Parameters (The maximum values for Thrust, Stroke, and Speed cannot be achieved simultaneously.)						
缸筒外径 Cylinder Tube Outer Diameter	缸筒内径 Cylinder Bore Diameter	允许最大推力 Allowable Max. Thrust	行程范围 Stroke Range	允许最大速度 Allowable Max. Speed	活塞杆旋转角度 Piston Rod Rotation Angle	限位开关 Limit Switch
53×53mm	φ40mm	≤ 1.5KN	≤ 360mm	≤ 500mm/s	±0.3°	磁感开关 Reed Switch

可选配置 Optional Configurations				轴承参数 Bearing Parameters		
丝杆导程 Ball Screw Lead	同步轮速比 (输入 : 输出) Timing Pulley Ratio (Input : Output)			轴承型号 Bearing Series	动负荷 Cr Dynamic Load Cr	静负荷 Cor Static Load Cor
05mm	1:1	1.5:1	2:1	深沟球轴承 Deep Groove Ball Bearing 6200-2RS	5.1KN	2.39KN
10mm						

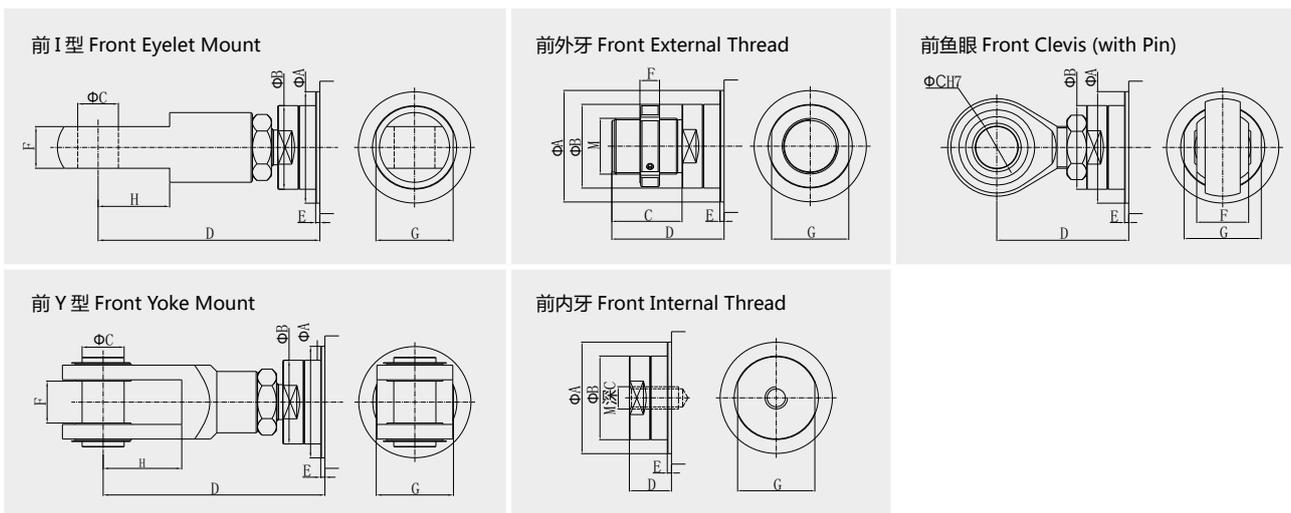
丝杆参数 Screw Parameters											
型号 Series	类型 Type	直径 Diameter	导程 Lead	动负荷 Ca Dynamic Load Ca	静负荷 Coa Static Load Coa	刚性 Rigidity	滚珠直径 Ball Diameter	丝杆轴 Screw Shaft	细长比 Slenderness Ratio	精度等级 / 定位精度 Accuracy Grade / Positioning Accuracy	
SFA1205-2.8	滚珠丝杆 Ball Screw	12mm	05mm	6.4KN	12.9KN	19Kgf/μm	2.5mm	8K3	1:30	C5/±0.01	C7/±0.02
SFA1210-2.8			10mm	6.2KN	12.6KN						

注：本表数值对应丝杆行程 ≤ 300mm，丝杆行程 > 300mm 时请联系我司技术人员确认。

Note: The values in this table correspond to the screw stroke ≤ 300mm. When the screw stroke > 300mm, please contact our technical support for confirmation.

同步轮 / 同步带参数 Timing Pulley & Timing Belt Specifications							
同步轮速比 Timing Pulley Ratio	主动轮规格 Drive Pulley Spec.	从动轮规格 Driven Pulley Spec.	主动轮齿数 No. of Teeth (Drive)	从动轮齿数 No. of Teeth (Driven)	同步轮中心距 Center Distance	同步带周长 Belt Length	同步带宽度 Belt Width
1:1	3M15T27	3M15T23	32	32	60mm	216	15mm
1.5:1			32	48		240	
2:1			24	48		231	

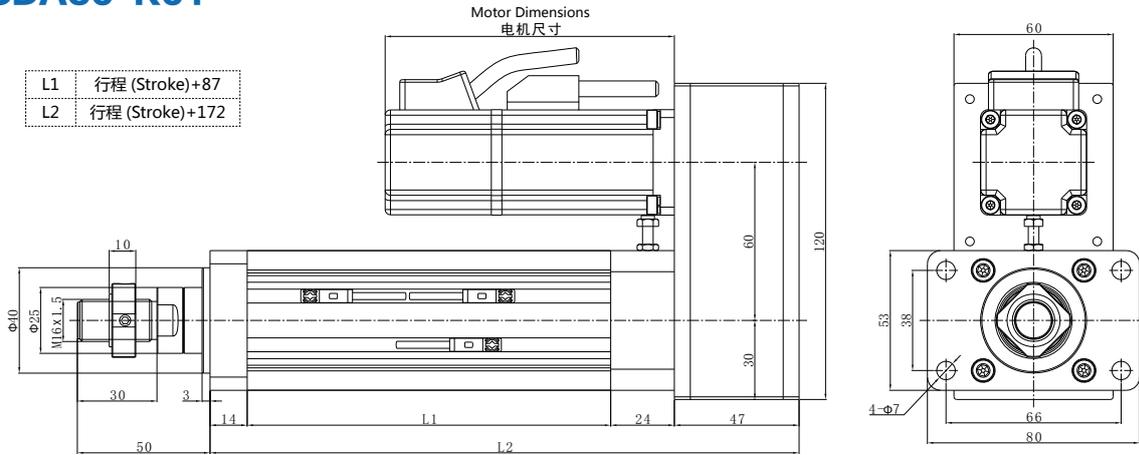
■ GDA50 前端连接方式尺寸图 Front-End Connection Dimensions Diagram



尺寸对应表 Dimension Reference Table (mm)										
负载类型 Front-End Load Connection Method	ΦA	ΦB	ΦC	C	D	E	F	H	G	M
前外牙 Front External Thread	Φ40	Φ25	—	30	50	3	10	—	22	M16×1.5
前内牙 Front Internal Thread	Φ40	Φ25	—	20	20	3	—	—	22	M10
前I型 Front Eyelet Mount	Φ40	Φ25	Φ12	—	78	3	12	24	22	—
前鱼眼 Front Clevis (with Pin)	Φ40	Φ25	Φ12	—	53	3	16	—	22	—
前Y型 Front Yoke Mount	Φ40	Φ25	Φ12	—	78	3	12	24	25.4	—

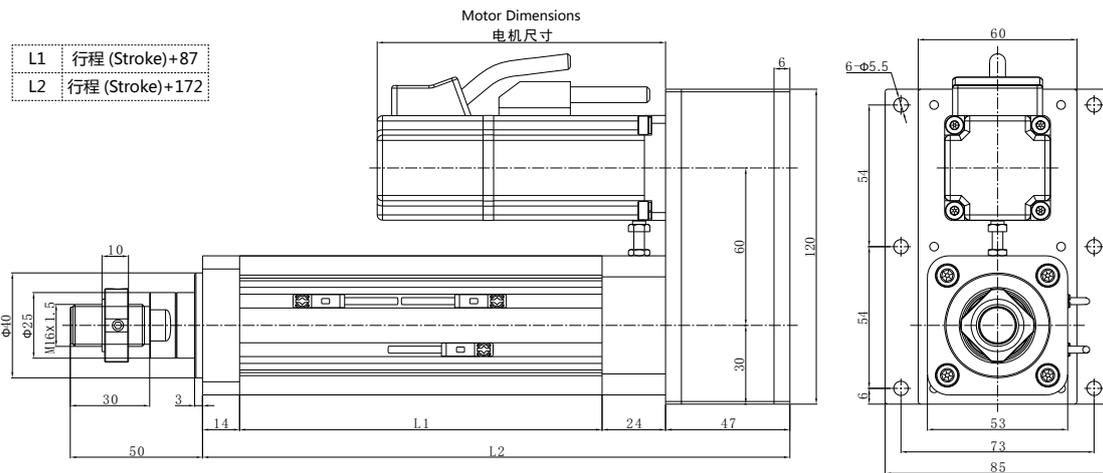
■ GDA50-R01

L1	行程 (Stroke)+87
L2	行程 (Stroke)+172



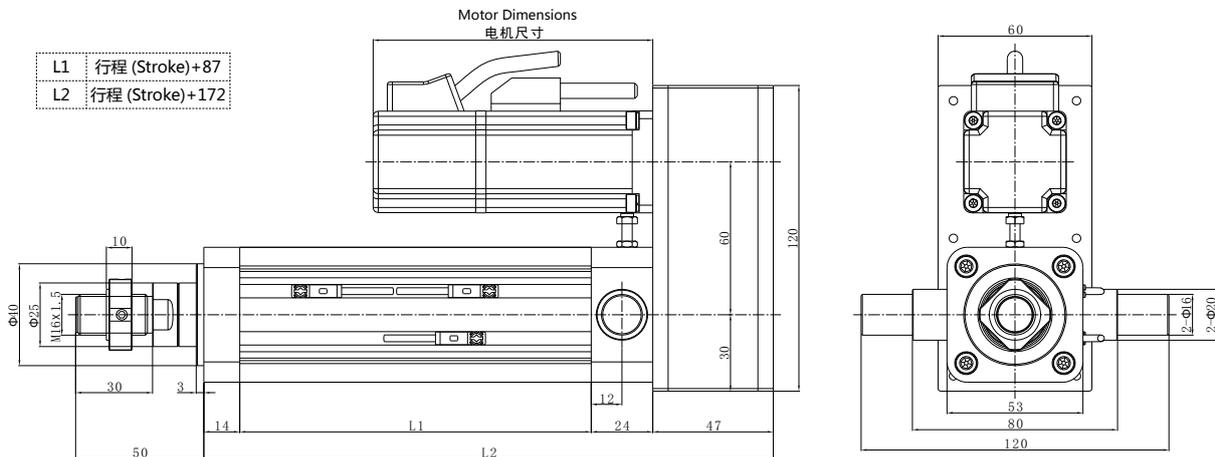
■ GDA50-R02

L1	行程 (Stroke)+87
L2	行程 (Stroke)+172

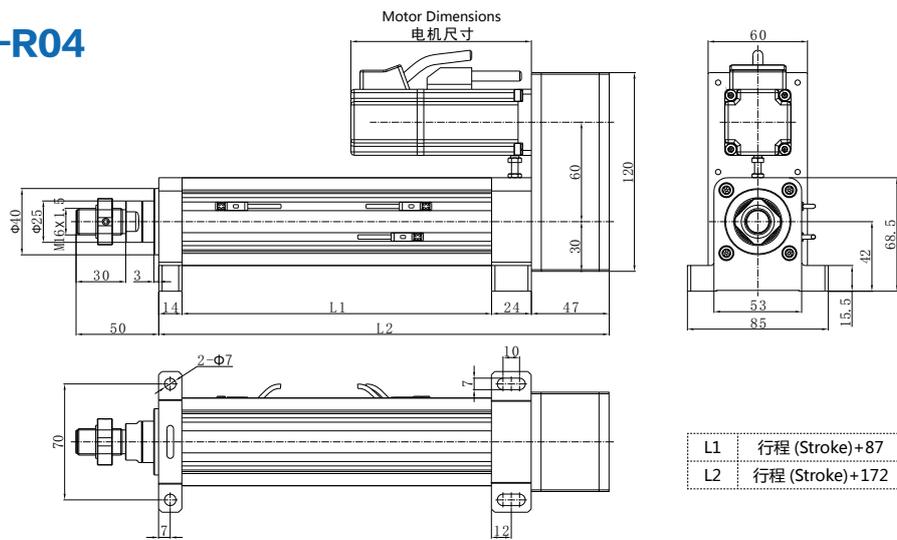


■ GDA50-R03

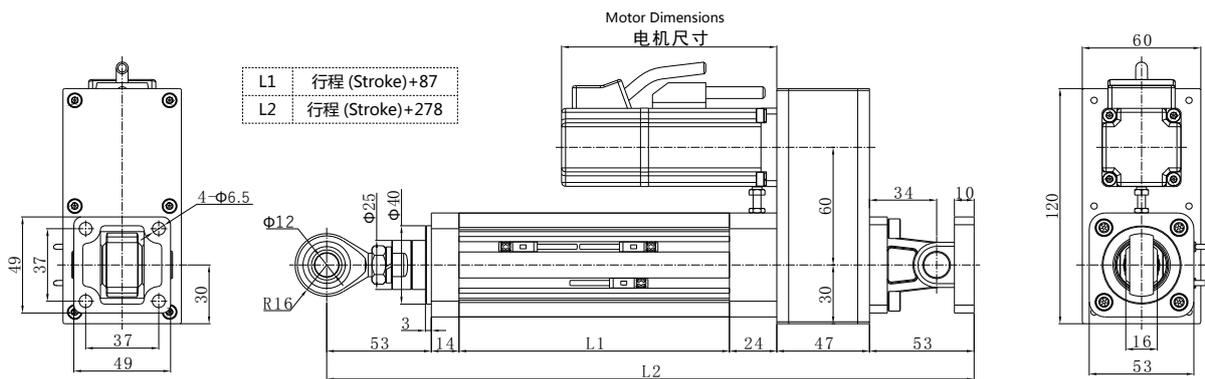
L1	行程 (Stroke)+87
L2	行程 (Stroke)+172



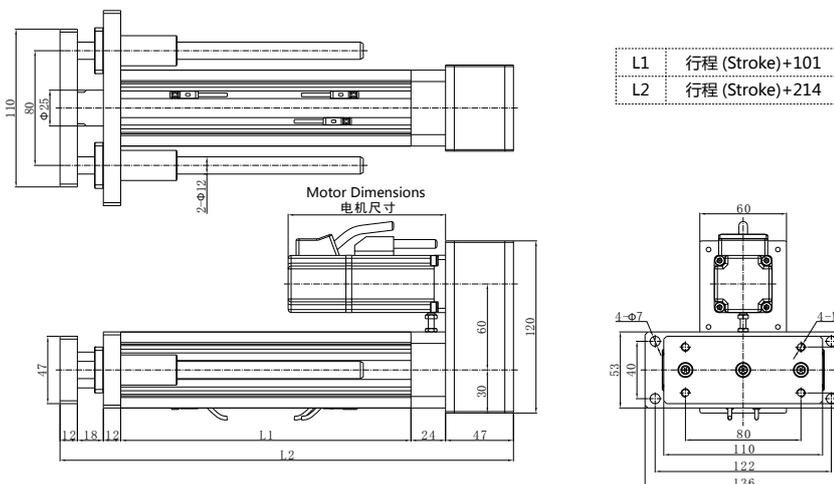
■ GDA50-R04



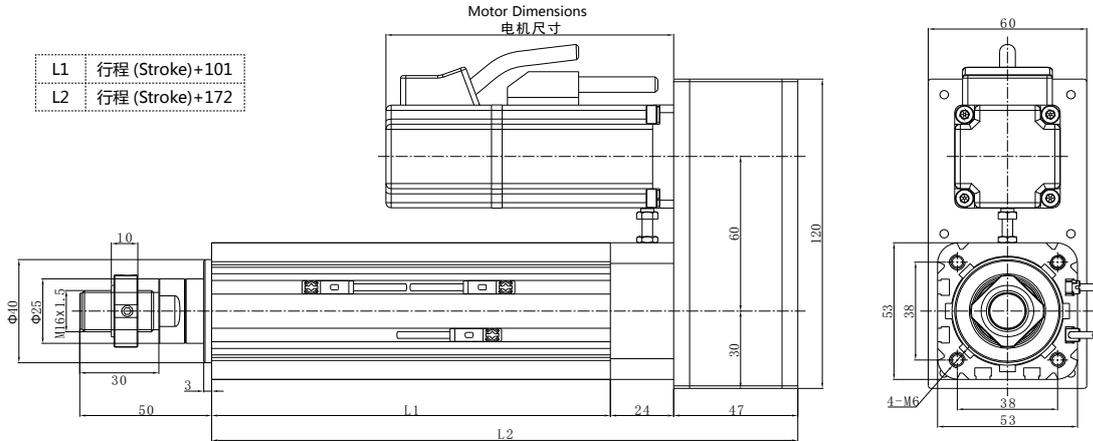
■ GDA50-R05



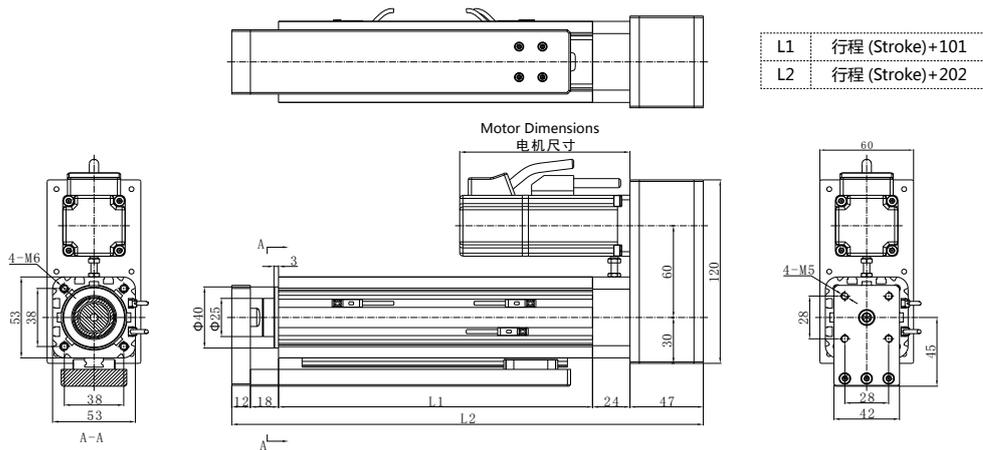
■ GDA50-R06



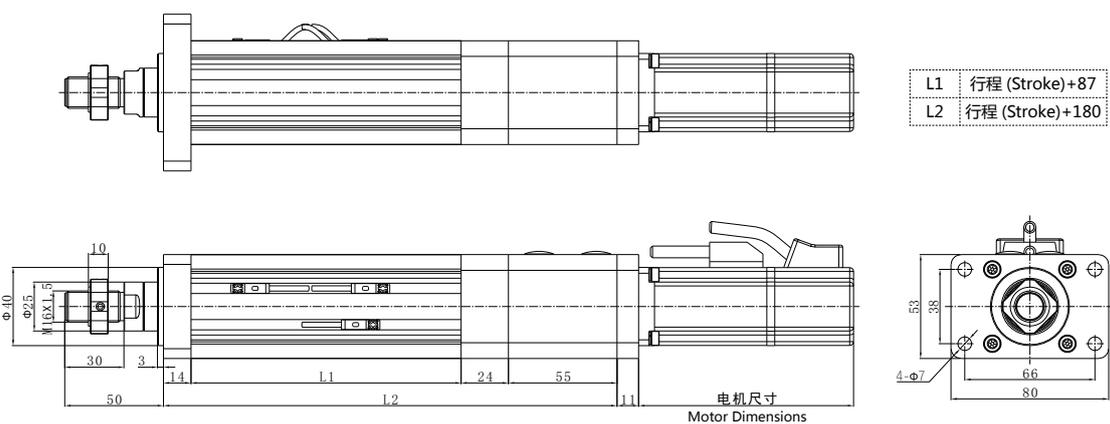
■ GDA50-R07



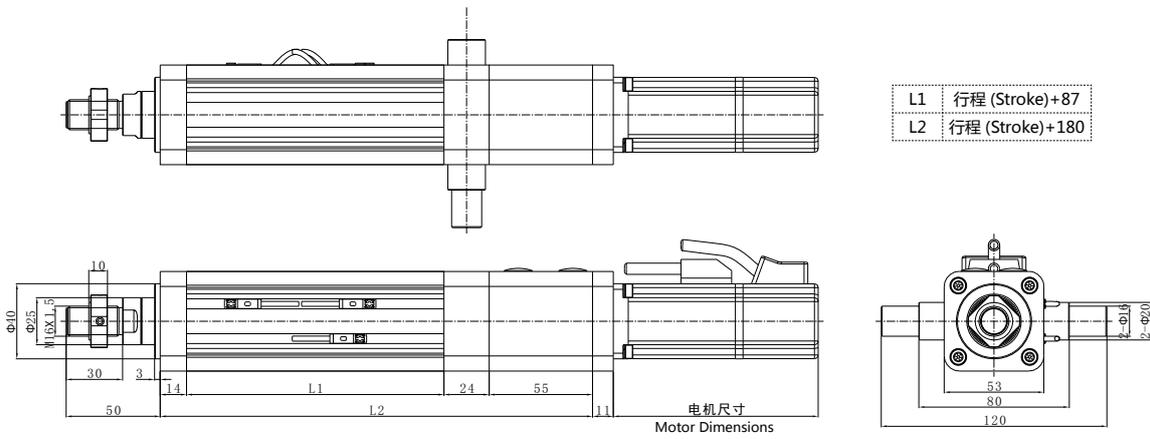
■ GDA50-R08



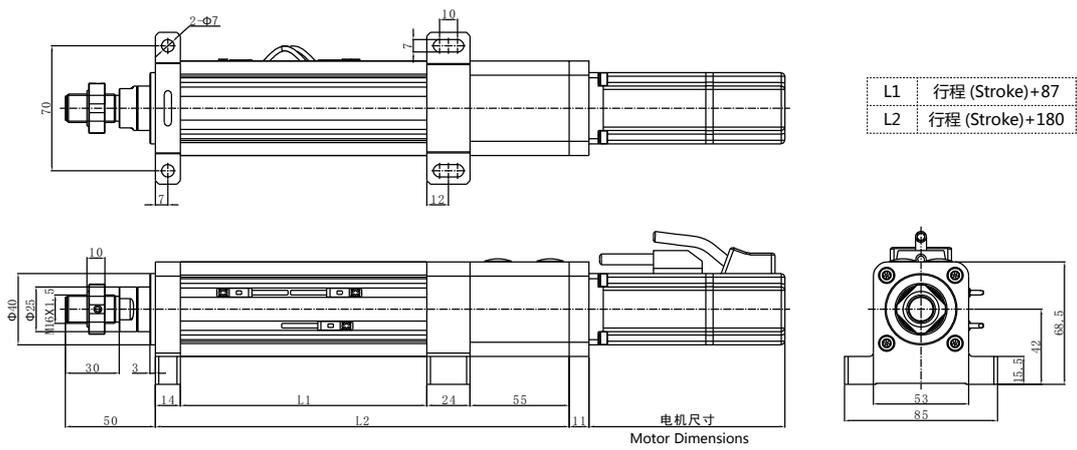
■ GDA50-L01



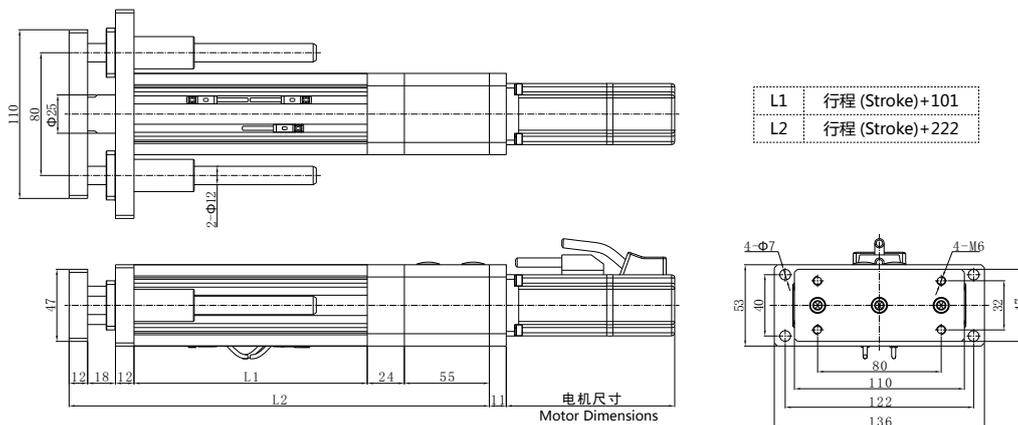
■ GDA50-L03



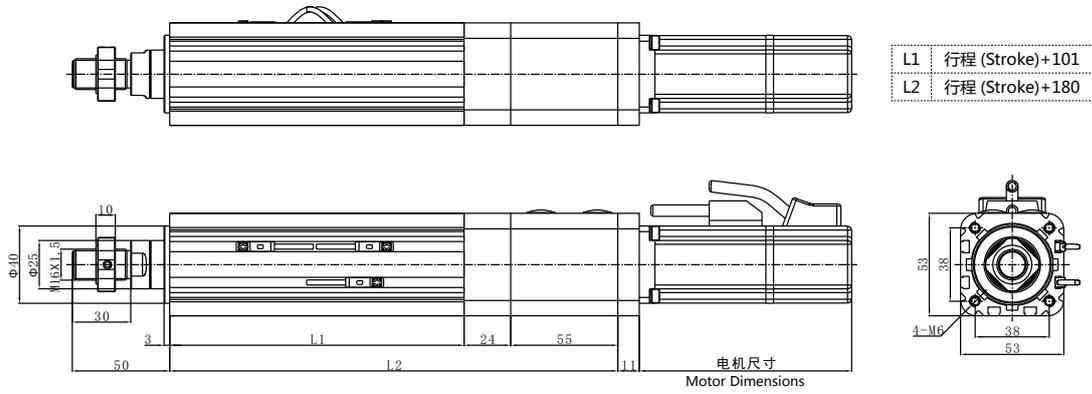
■ GDA50-L04



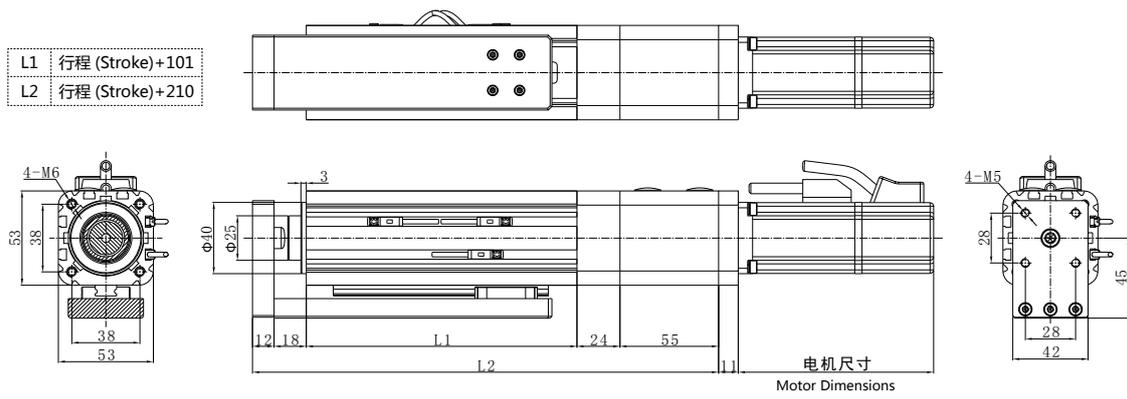
■ GDA50-L06



■ GDA50-L07



■ GDA50-L08



■ GDA60 标准配置参数 Standard Configuration Parameters

基础参数 (推力、行程、速度上限值不可同时结合使用) Basic Parameters (The maximum values for Thrust, Stroke, and Speed cannot be achieved simultaneously.)						
缸筒外径 Cylinder Tube Outer Diameter	缸筒内径 Cylinder Bore Diameter	允许最大推力 Allowable Max. Thrust	行程范围 Stroke Range	允许最大速度 Allowable Max. Speed	活塞杆旋转角度 Piston Rod Rotation Angle	限位开关 Limit Switch
61×61mm	φ50mm	≤ 2.7KN	≤ 800mm	≤ 500mm/s	±0.3°	磁感开关 Reed Switch

可选配置 Optional Configurations			轴承参数 Bearing Parameters		
丝杆导程 Ball Screw Lead	同步轮速比 (输入 : 输出) Timing Pulley Ratio (Input : Output)		轴承型号 Bearing Series	动负荷 Cr Dynamic Load Cr	静负荷 Cor Static Load Cor
05mm	1:1	1.5:1	2:1	深沟球轴承 Deep Groove Ball Bearing 6301-ZZ	9.7KN
10mm					
16mm					
20mm					

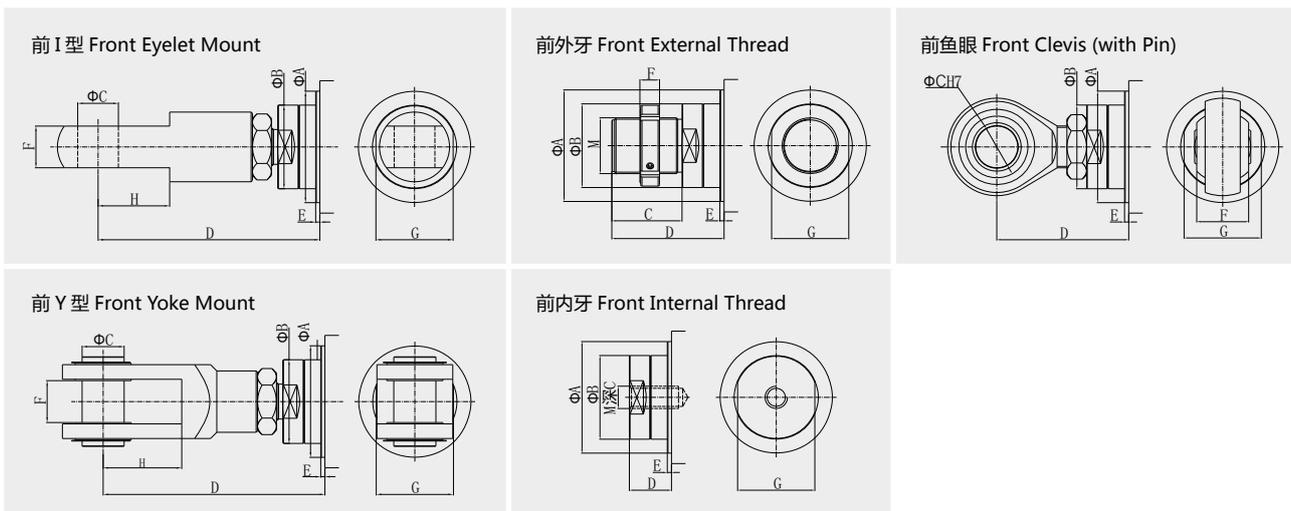
丝杆参数 Screw Parameters											
型号 Series	类型 Type	直径 Diameter	导程 Lead	动负荷 Ca Dynamic Load Ca	静负荷 Coa Static Load Coa	刚性 Rigidity	滚珠直径 Ball Diameter	丝杆轴 Screw Shaft	细长比 Slendernes Ratio	精度等级 / 定位精度 Accuracy Grade / Positioning Accuracy	
SFNU1605-4	滚珠丝杆 Ball Screw	16mm	05mm	13.5KN	29.9KN	32Kgf/μm	3.175mm	10K3	1:30	C5/±0.01	C7/±0.02
SFNU1610-3			10mm	10.8KN	23.5KN	26Kgf/μm					
SFA1616-1.8			16mm	5.4KN	11.1KN	14Kgf/μm	2.778mm				
SFA1620-1.8			20mm	5.4KN	11.4KN						

注：本表数值对应丝杆行程 ≤ 300mm，丝杆行程 > 300mm 时请联系我司技术人员确认。

Note: The values in this table correspond to the screw stroke ≤ 300mm. When the screw stroke > 300mm, please contact our technical support for confirmation.

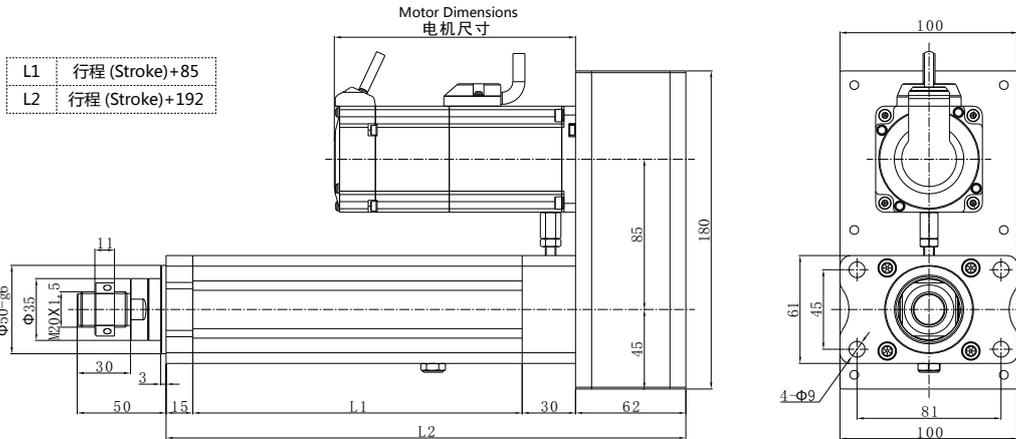
同步轮 / 同步带参数 Timing Pulley & Timing Belt Specifications							
同步轮速比 Timing Pulley Ratio	主动轮规格 Drive Pulley Spec.	从动轮规格 Driven Pulley Spec.	主动轮齿数 No. of Teeth (Drive)	从动轮齿数 No. of Teeth (Driven)	同步轮中心距 Center Distance	同步带周长 Belt Length	同步带宽度 Belt Width
1:1	5M15T29	5M15T29	36	36	85mm	350	15mm
1.5:1			24	36		320	
2:1			24	48		355	

■ GDA60 前端连接方式尺寸图 Front-End Connection Dimensions Diagram

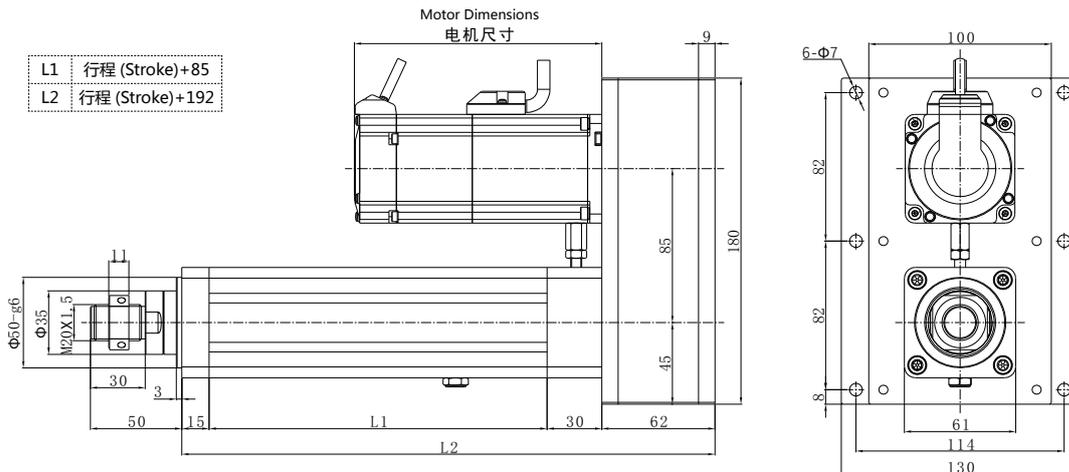


尺寸对应表 Dimension Reference Table (mm)										
负载类型 Front-End Load Connection Method	ΦA	ΦB	ΦC	C	D	E	F	H	G	M
前外牙 Front External Thread	Φ50	Φ35	—	30	50	3	11	—	33	M20×1.5
前内牙 Front Internal Thread	Φ50	Φ35	—	30	20	3	—	—	33	M16
前I型 Front Eyelet Mount	Φ50	Φ35	Φ16	—	95	3	16	32	33	—
前鱼眼 Front Clevis (with Pin)	Φ50	Φ35	Φ16	—	61	3	21	—	33	—
前Y型 Front Yoke Mount	Φ50	Φ35	Φ16	—	95	3	16	32	32	—

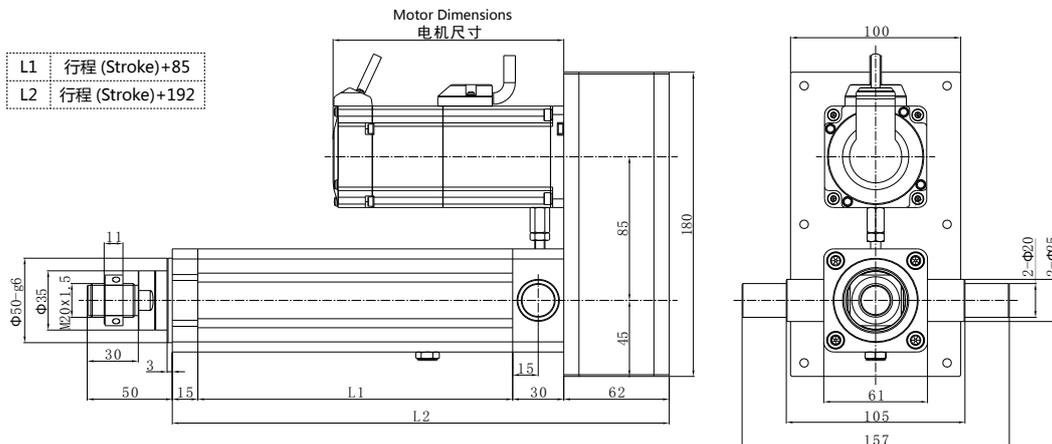
■ GDA60-R01



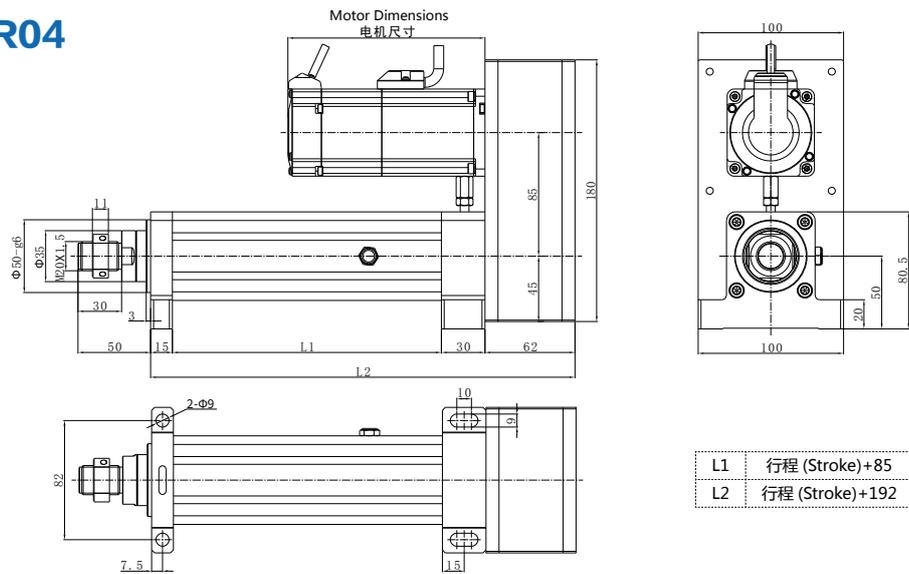
■ GDA60-R02



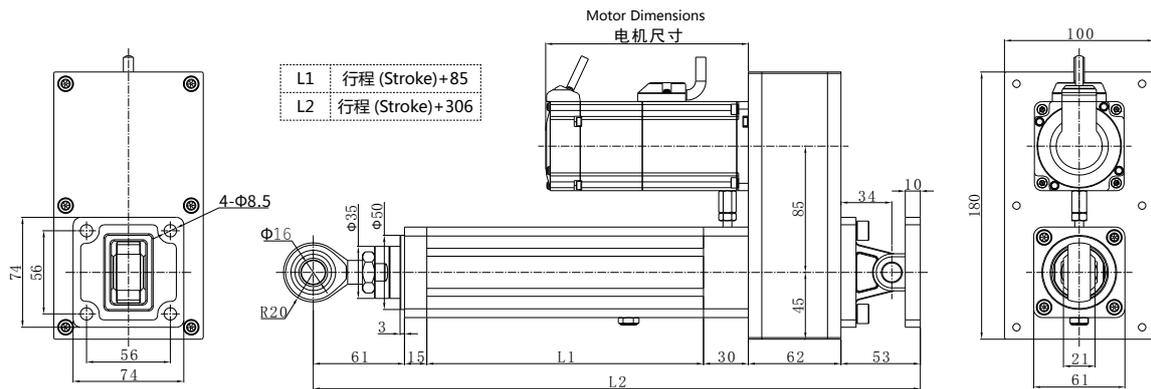
■ GDA60-R03



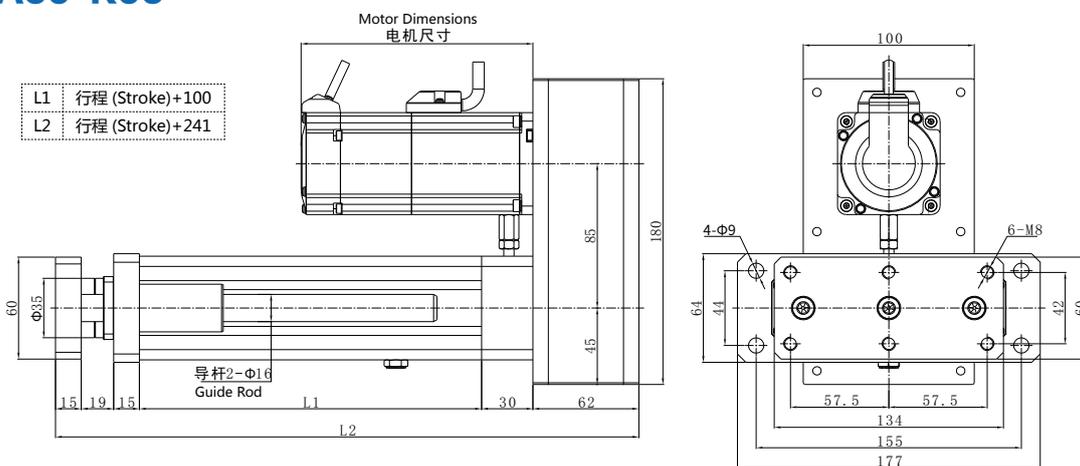
■ GDA60-R04



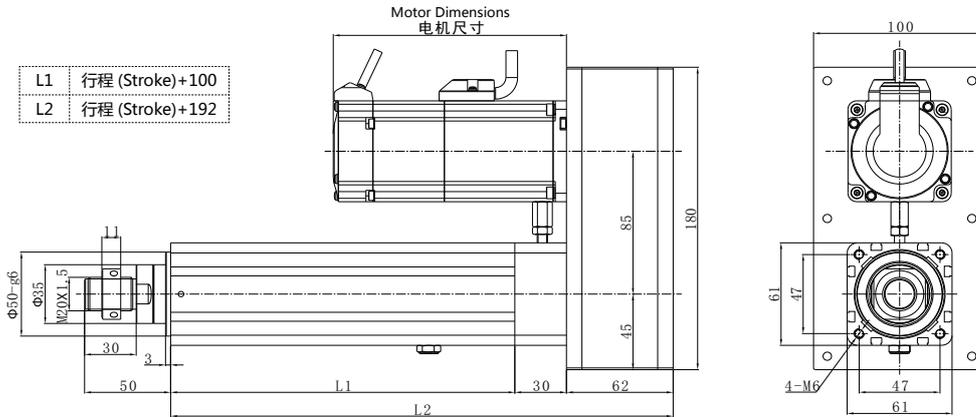
■ GDA60-R05



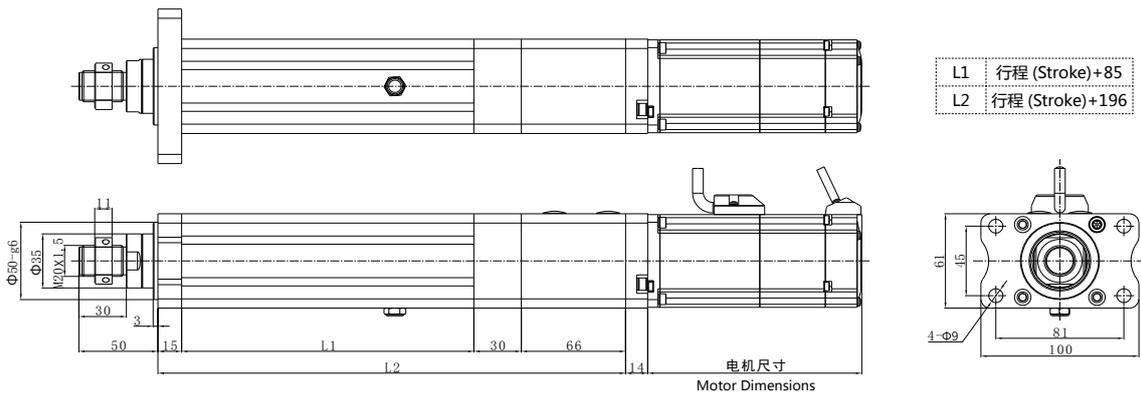
■ GDA60-R06



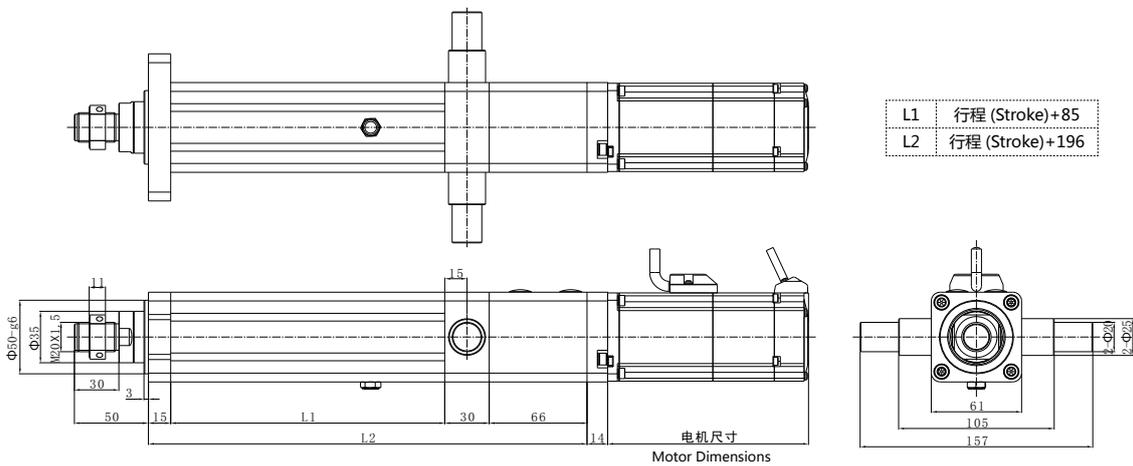
■ GDA60-R07



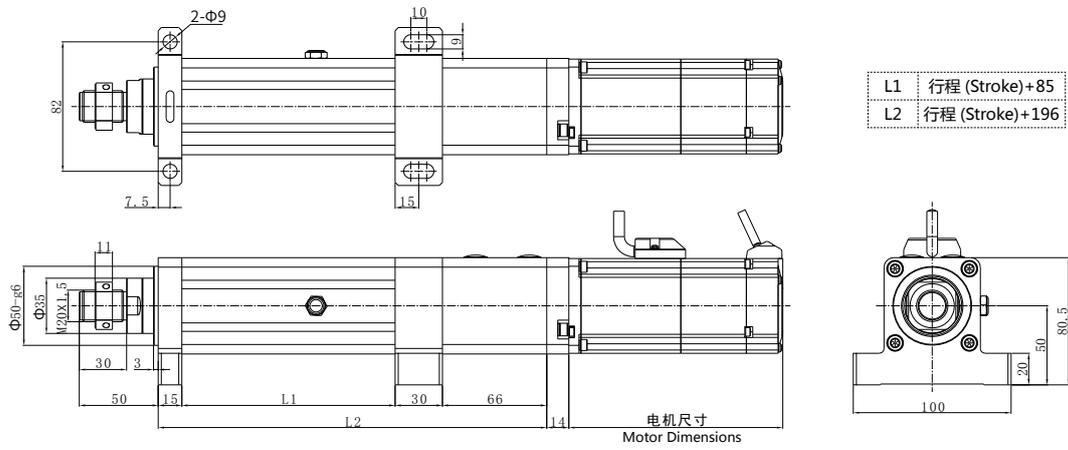
■ GDA60-L01



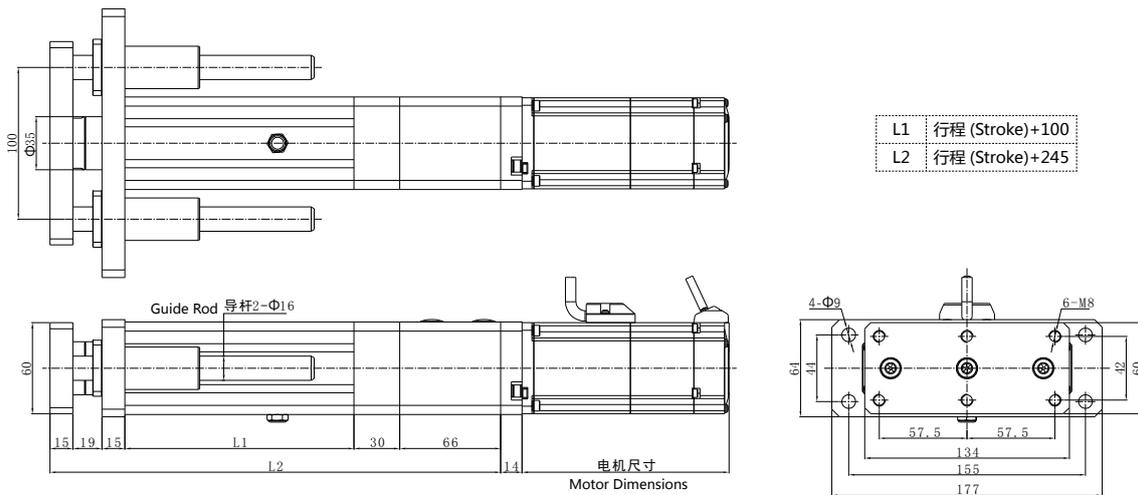
■ GDA60-L03



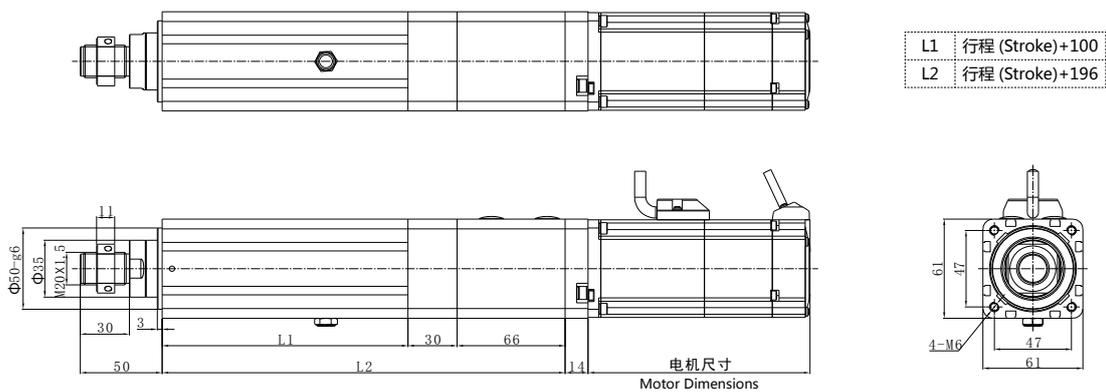
■ GDA60-L04



■ GDA60-L06



■ GDA60-L07



■ GDA60Z 标准配置参数 Standard Configuration Parameters

基础参数 (推力、行程、速度上限值不可同时结合使用) Basic Parameters (The maximum values for Thrust, Stroke, and Speed cannot be achieved simultaneously.)						
缸筒外径 Cylinder Tube Outer Diameter	缸筒内径 Cylinder Bore Diameter	允许最大推力 Allowable Max. Thrust	行程范围 Stroke Range	允许最大速度 Allowable Max. Speed	活塞杆旋转角度 Piston Rod Rotation Angle	限位开关 Limit Switch
61×61mm	φ50mm	≤ 5KN	≤ 800mm	≤ 500mm/s	±0.3°	磁感开关 Reed Switch

可选配置 Optional Configurations			轴承参数 Bearing Parameters			
丝杆导程 Ball Screw Lead	同步轮速比 (输入:输出) Timing Pulley Ratio (Input:Output)		轴承型号 Bearing Series	动负荷 Cr Dynamic Load Cr	静负荷 Cor Static Load Cor	
05mm	1:1	1.5:1	2:1	深沟球轴承 Deep Groove Ball Bearing 6004-ZZ	9.38KN	
10mm						
16mm						
20mm						
				推力球轴承 Thrust Ball Bearing 51105	19.6KN	37KN

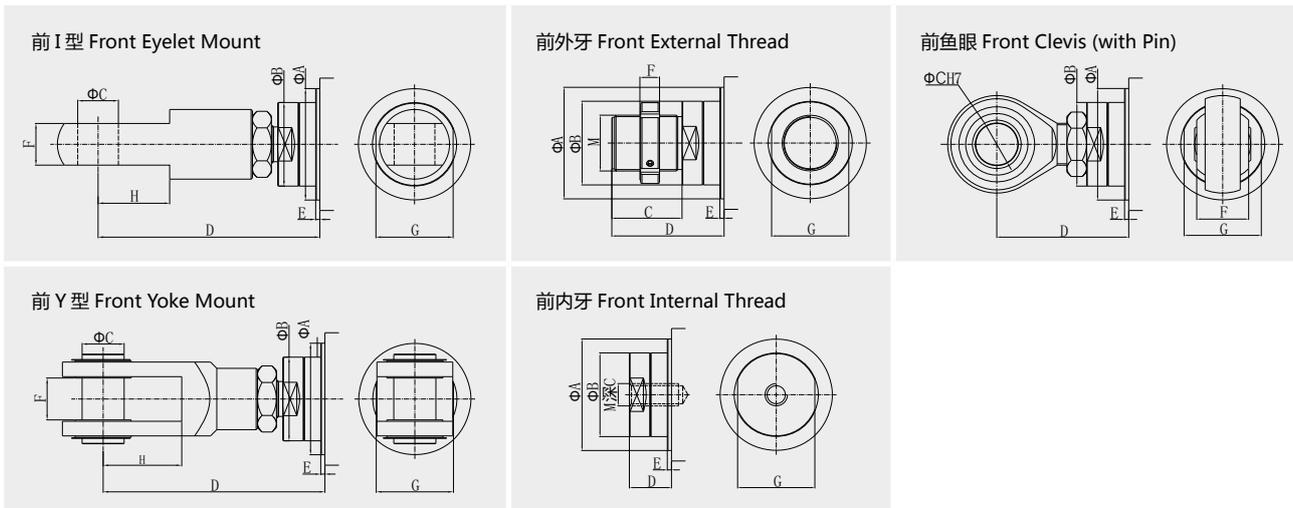
丝杆参数 Screw Parameters											
型号 Series	类型 Type	直径 Diameter	导程 Lead	动负荷 Ca Dynamic Load Ca	静负荷 Coa Static Load Coa	刚性 Rigidity	滚珠直径 Ball Diameter	丝杆轴 Screw Shaft	细长比 Slendernes Ratio	精度等级 / 定位精度 Accuracy Grade / Positioning Accuracy	
SFNU1605-4	滚珠丝杆 Ball Screw	16mm	05mm	13.5KN	29.9KN	32Kg/μm	3.175mm	14K5	1:30	C5/±0.01	C7/±0.02
SFNU1610-3			10mm	10.8KN	23.5KN	26Kg/μm					
SFA1616-1.8			16mm	5.4KN	11.1KN	14Kg/μm	2.778mm				
SFA1620-1.8			20mm	5.4KN	11.4KN						

注：本表数值对应丝杆行程 ≤ 300mm，丝杆行程 > 300mm 时请联系我司技术人员确认。

Note: The values in this table correspond to the screw stroke ≤ 300mm. When the screw stroke > 300mm, please contact our technical support for confirmation.

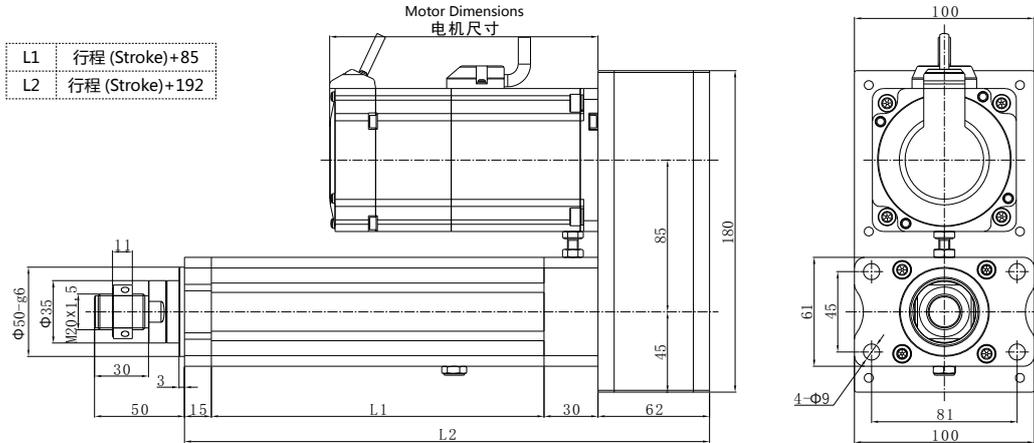
同步轮 / 同步带参数 Timing Pulley & Timing Belt Specifications							
同步轮速比 Timing Pulley Ratio	主动轮规格 Drive Pulley Spec.	从动轮规格 Driven Pulley Spec.	主动轮齿数 No. of Teeth (Drive)	从动轮齿数 No. of Teeth (Driven)	同步轮中心距 Center Distance	同步带周长 Belt Length	同步带宽度 Belt Width
1:1	5M20T34	5M20T30	36	36	85mm	350	20mm
1.5:1			24	36		320	
2:1			24	48		355	

■ GDA60Z 前端连接方式尺寸图 Front-End Connection Dimensions Diagram

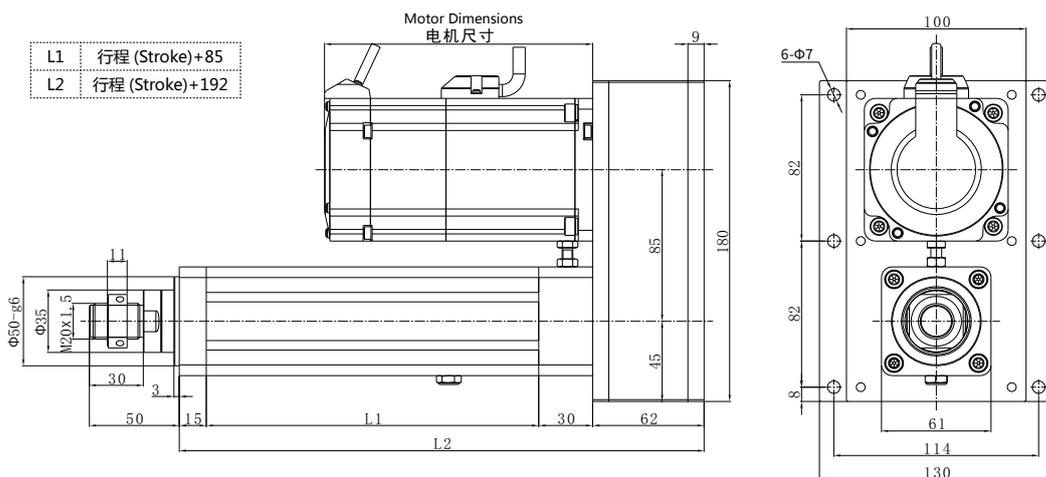


尺寸对应表 Dimension Reference Table (mm)											
负载类型 Front-End Load Connection Method	ΦA	ΦB	ΦC	C	D	E	F	H	G	M	
前外牙 Front External Thread	Φ50	Φ35	—	30	50	3	11	—	33	M20×1.5	
前内牙 Front Internal Thread	Φ50	Φ35	—	30	20	3	—	—	33	M16	
前I型 Front Eyelet Mount	Φ50	Φ35	Φ16	—	95	3	16	32	33	—	
前鱼眼 Front Clevis (with Pin)	Φ50	Φ35	Φ16	—	61	3	21	—	33	—	
前Y型 Front Yoke Mount	Φ50	Φ35	Φ16	—	95	3	16	32	32	—	

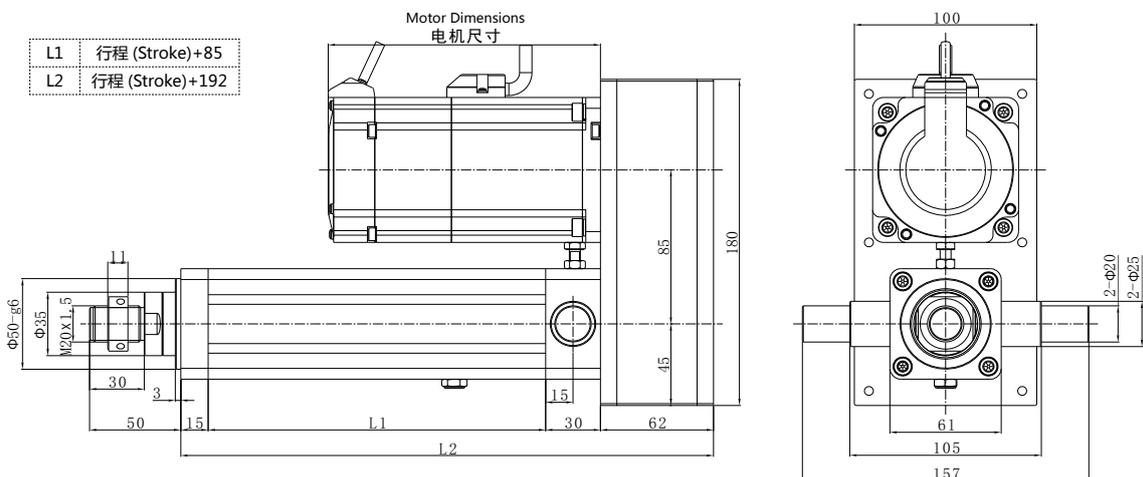
■ GDA60Z-R01



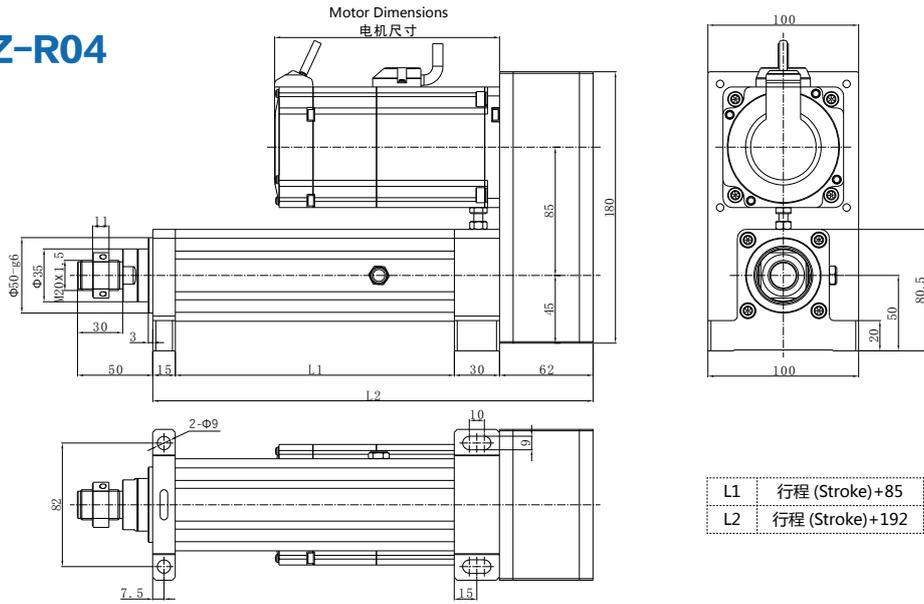
■ GDA60Z-R02



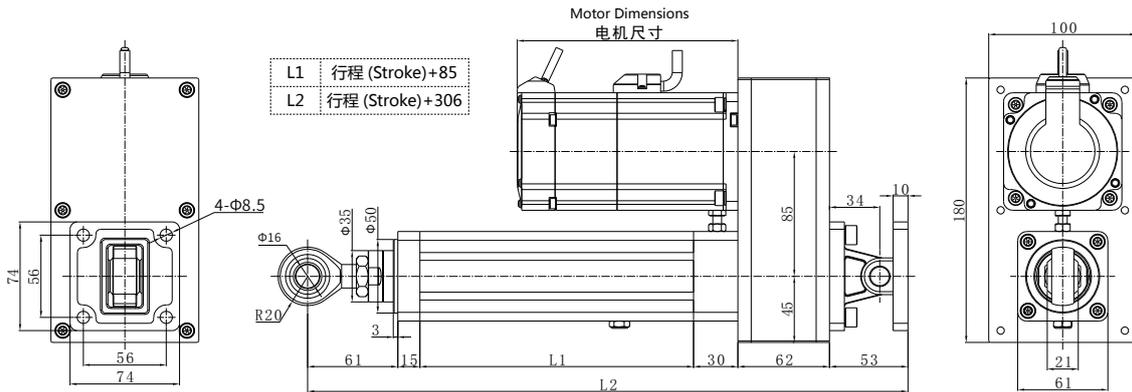
■ GDA60Z-R03



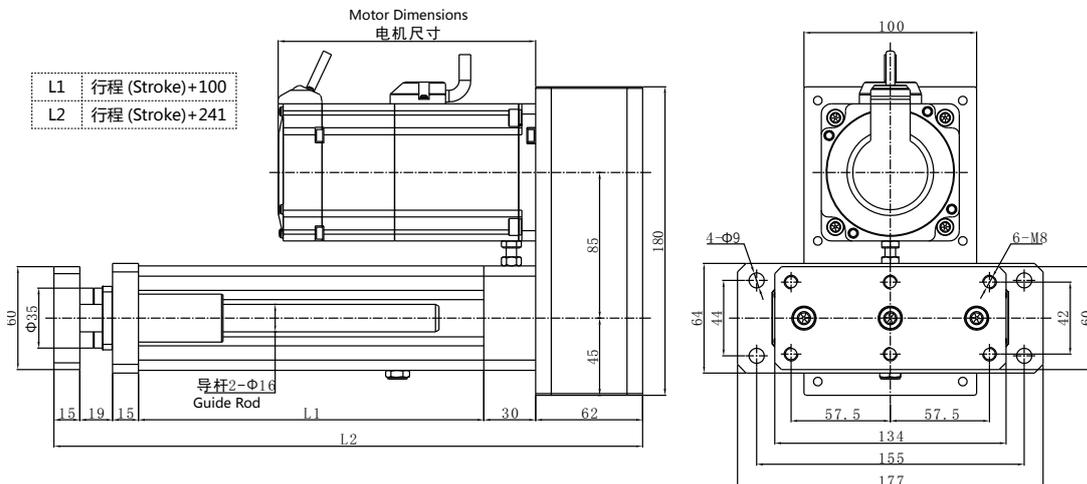
■ GDA60Z-R04



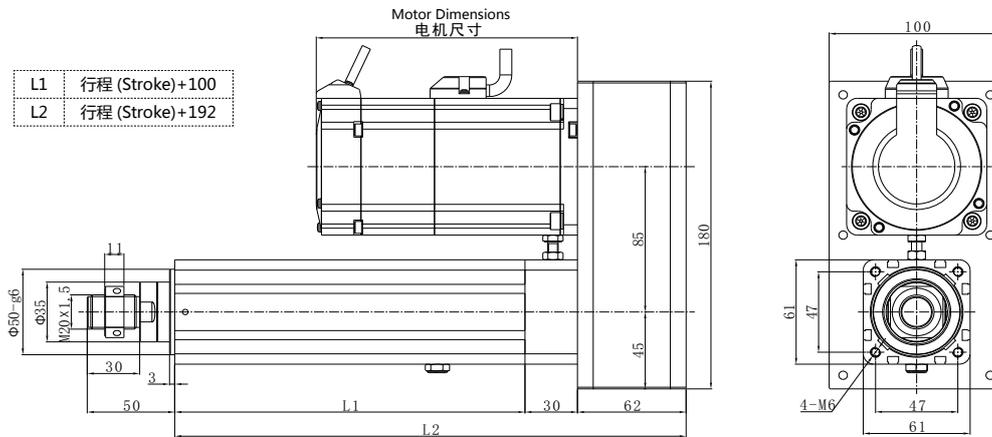
■ GDA60Z-R05



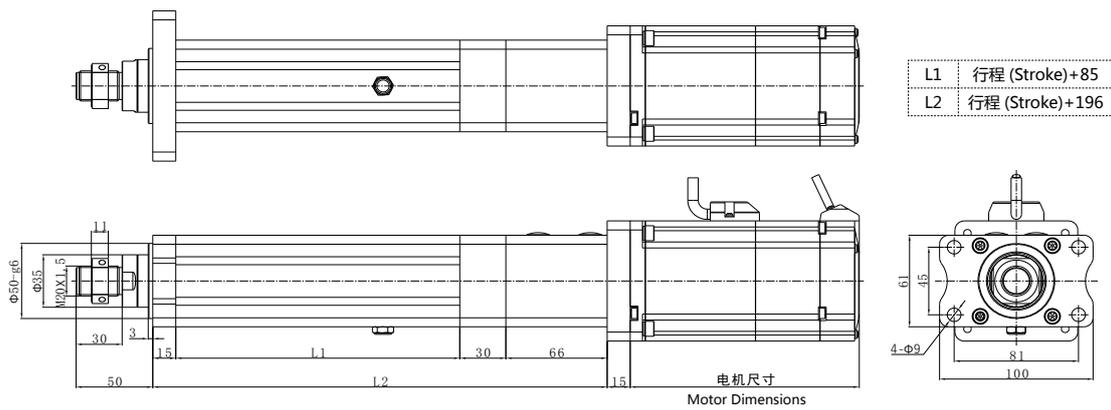
■ GDA60Z-R06



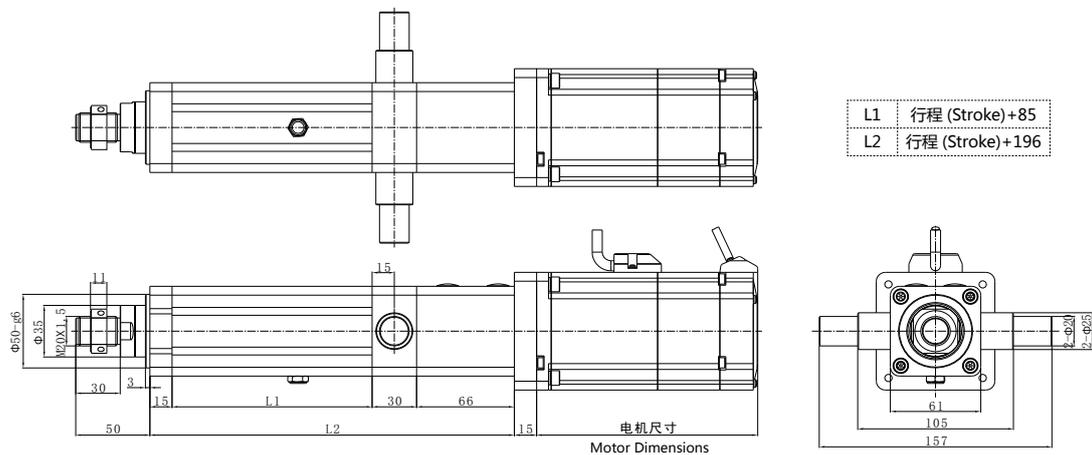
■ GDA60Z-R07



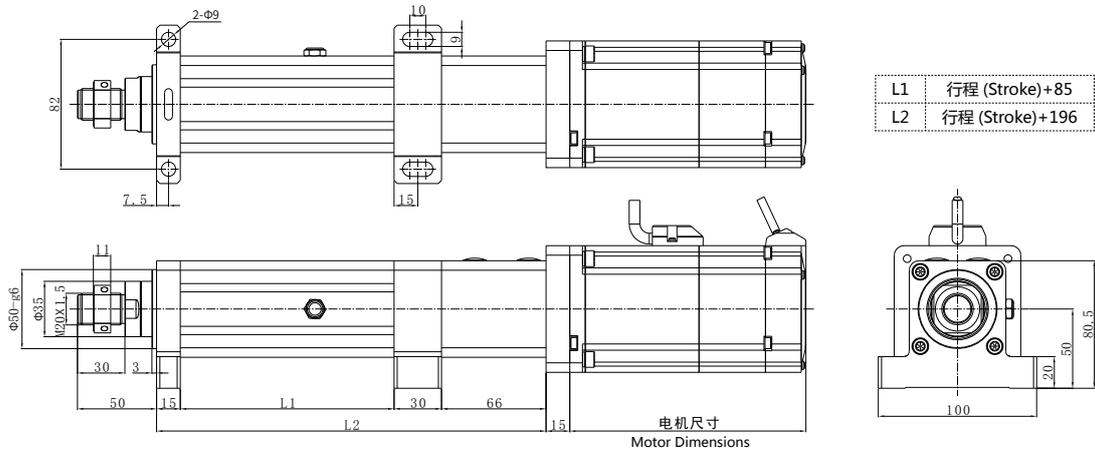
■ GDA60Z-L01



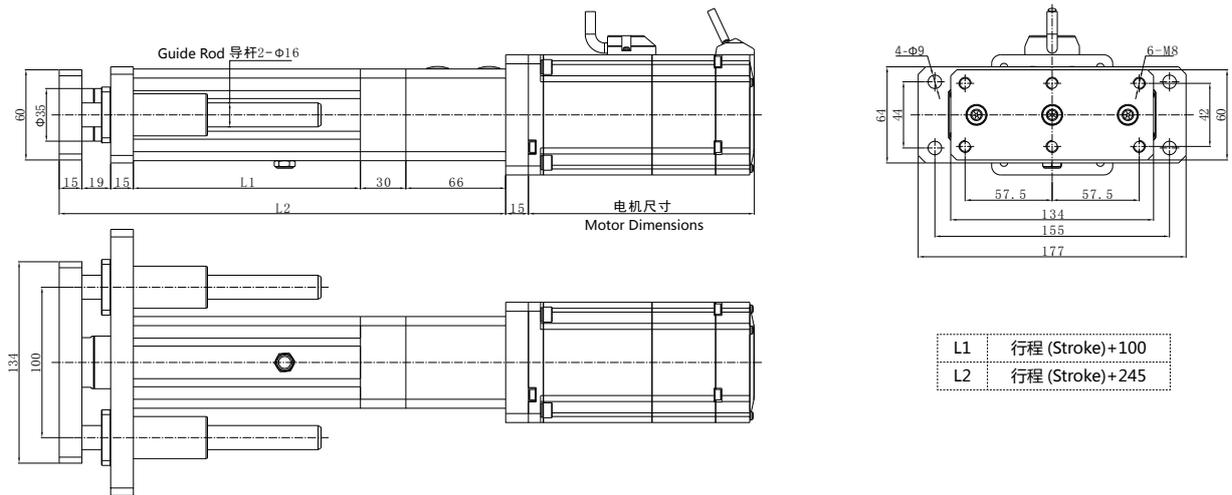
■ GDA60Z-L03



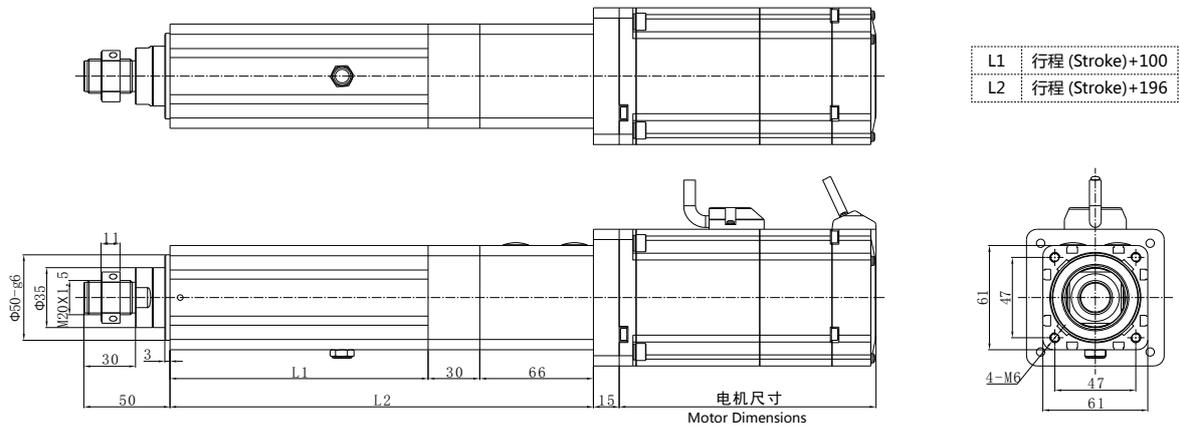
■ GDA60Z-L04



■ GDA60Z-L06



■ GDA60Z-L07



■ GDA75 标准配置参数 Standard Configuration Parameters

基础参数 (推力、行程、速度上限值不可同时结合使用) Basic Parameters (The maximum values for Thrust, Stroke, and Speed cannot be achieved simultaneously.)						
缸筒外径 Cylinder Tube Outer Diameter	缸筒内径 Cylinder Bore Diameter	允许最大推力 Allowable Max. Thrust	行程范围 Stroke Range	允许最大速度 Allowable Max. Speed	活塞杆旋转角度 Piston Rod Rotation Angle	限位开关 Limit Switch
75×75mm	φ63mm	≤ 6.8KN	≤ 600mm	≤ 500mm/s	±0.3°	磁感开关 Reed Switch

可选配置 Optional Configurations				轴承参数 Bearing Parameters		
丝杆导程 Ball Screw Lead	同步轮速比 (输入 : 输出) Timing Pulley Ratio (Input : Output)			轴承型号 Bearing Series	动负荷 Cr Dynamic Load Cr	静负荷 Cor Static Load Cor
05mm	1:1	1.5:1	2:1	圆锥滚子轴承 Tapered Roller Bearing 30302×2	23.6KN	21.1KN
10mm						
20mm						

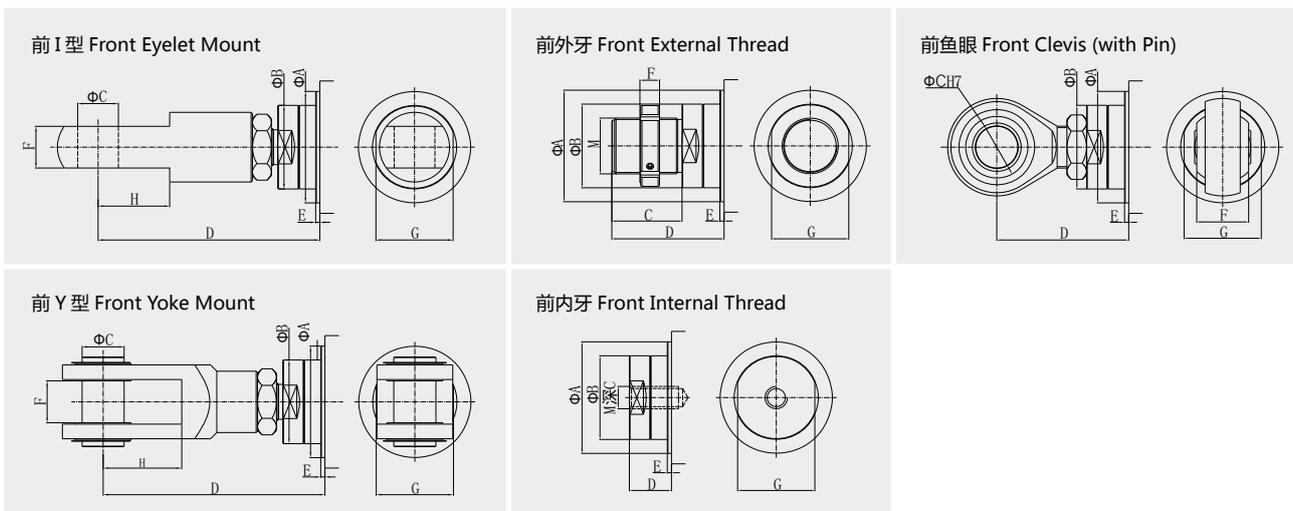
丝杆参数 Screw Parameters											
型号 Series	类型 Type	直径 Diameter	导程 Lead	动负荷 Ca Dynamic Load Ca	静负荷 Coa Static Load Coa	刚性 Rigidity	滚珠直径 Ball Diameter	丝杆轴 Screw Shaft	细长比 Slendernes Ratio	精度等级 / 定位精度 Accuracy Grade / Positioning Accuracy	
SFNU2005-4	滚珠丝杆 Ball Screw	20mm	05mm	15.2KN	38KN	39Kg/μm	3.175mm	12K4	1:30	C5/±0.01	C7/±0.02
SFA2010-3.8			10mm	14.8KN	38KN	40Kg/μm					
SFA2020-1.8			20mm	7.4KN	17.2KN	19Kg/μm					

注：本表数值对应丝杆行程 ≤ 300mm，丝杆行程 > 300mm 时请联系我司技术人员确认。

Note: The values in this table correspond to the screw stroke ≤ 300mm. When the screw stroke > 300mm, please contact our technical support for confirmation.

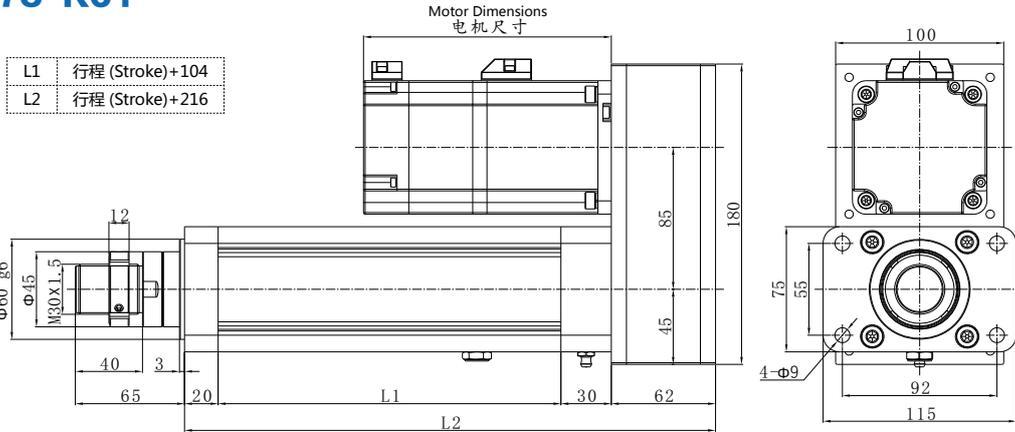
同步轮 / 同步带参数 Timing Pulley & Timing Belt Specifications							
同步轮速比 Timing Pulley Ratio	主动轮规格 Drive Pulley Spec.	从动轮规格 Driven Pulley Spec.	主动轮齿数 No. of Teeth (Drive)	从动轮齿数 No. of Teeth (Driven)	同步轮中心距 Center Distance	同步带周长 Belt Length	同步带宽度 Belt Width
1:1	5M15T29	5M15T29	36	36	85mm	350	15mm
1.5:1			24	36		320	
2:1			24	48		355	

■ GDA75 前端连接方式尺寸图 Front-End Connection Dimensions Diagram

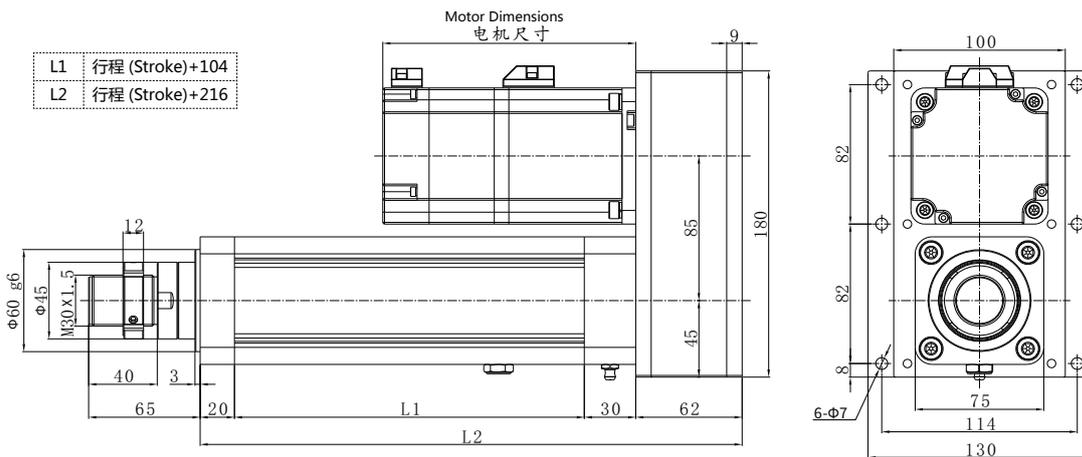


尺寸对应表 Dimension Reference Table (mm)											
负载类型 Front-End Load Connection Method	ΦA	ΦB	ΦC	C	D	E	F	H	G	M	
前外牙 Front External Thread	Φ60	Φ45	—	40	65	3	12	—	41	M30×1.5	
前内牙 Front Internal Thread	Φ60	Φ45	—	40	25	3	—	—	41	M20	
前 I 型 Front Eyelet Mount	Φ60	Φ45	Φ20	—	118	3	20	40	41	—	
前鱼眼 Front Clevis (with Pin)	Φ60	Φ45	Φ20	—	72	3	25	—	41	—	
前 Y 型 Front Yoke Mount	Φ60	Φ45	Φ20	—	118	3	20	40	44.4	—	

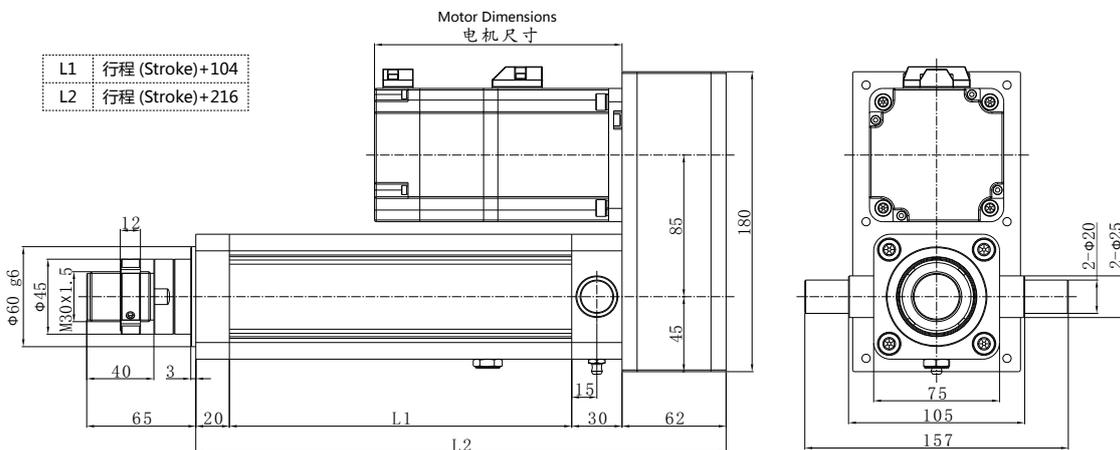
■ GDA75-R01



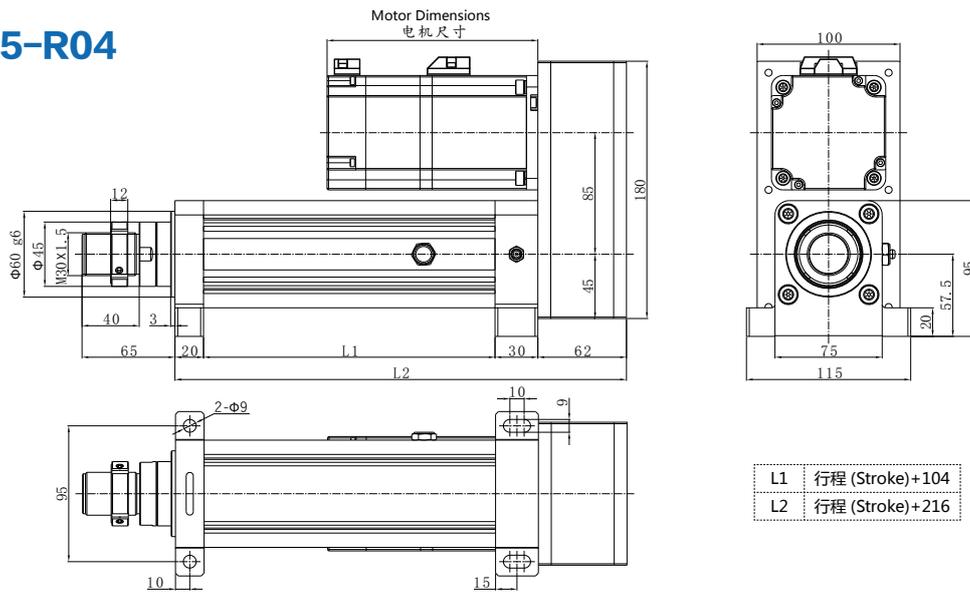
■ GDA75-R02



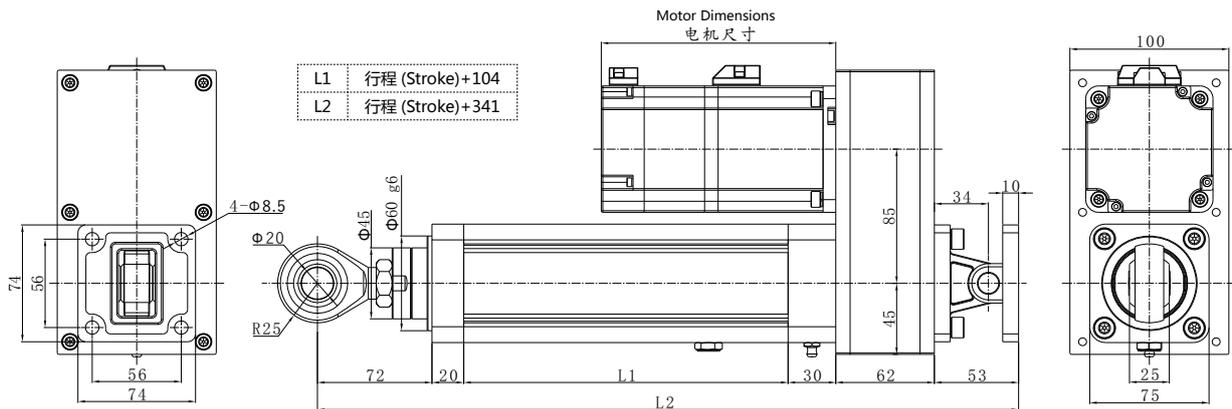
■ GDA75-R03



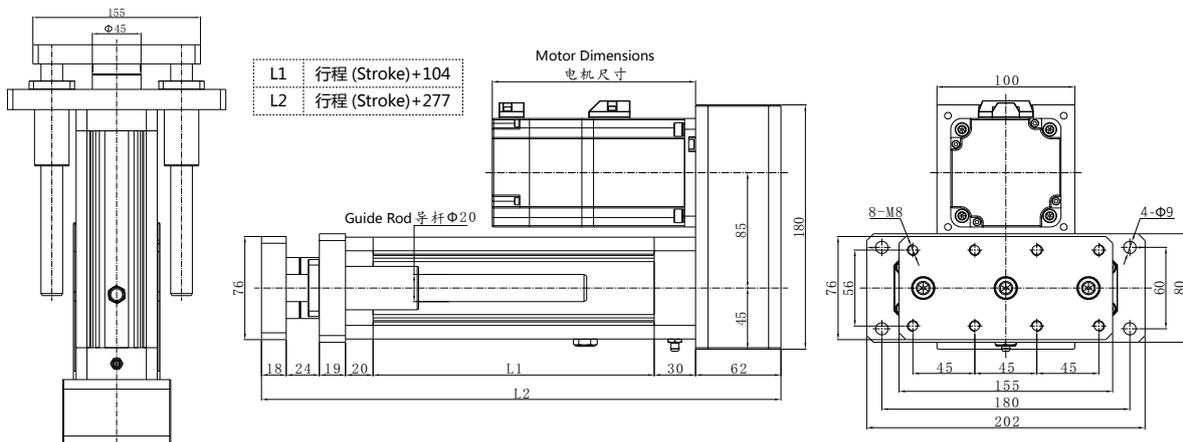
■ GDA75-R04



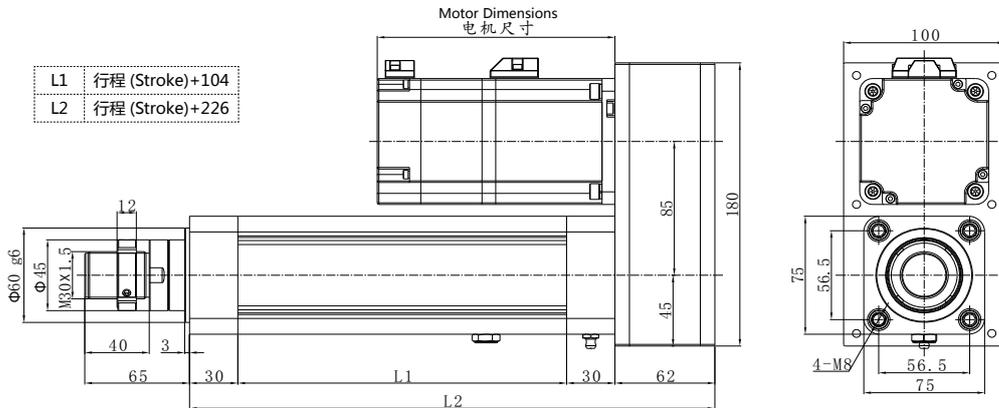
■ GDA75-R05



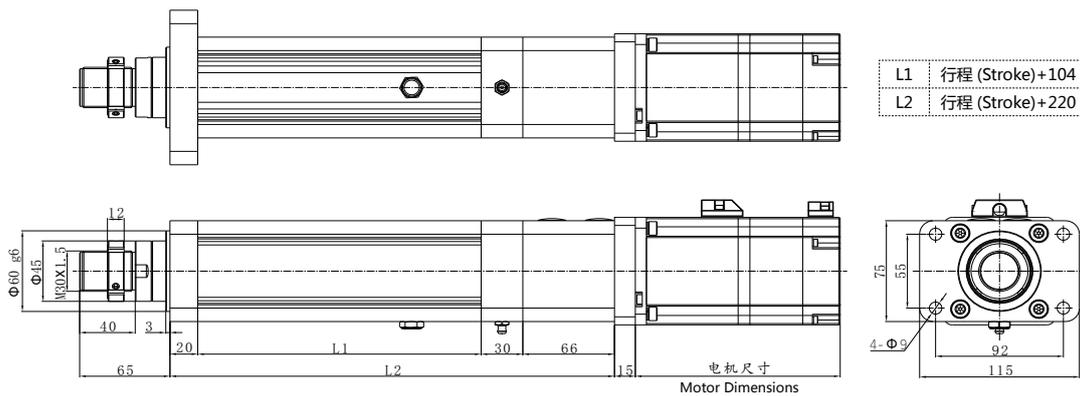
■ GDA75-R06



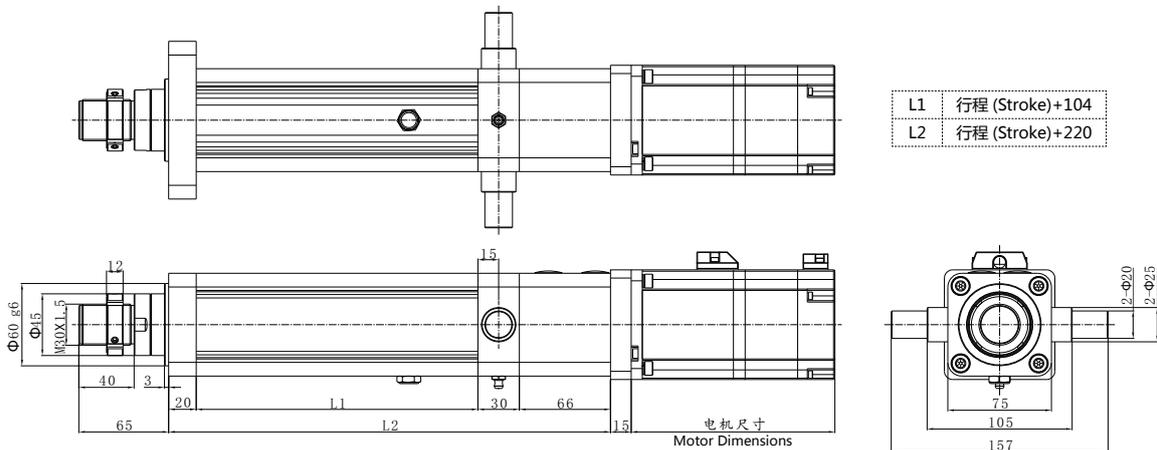
■ GDA75-R07



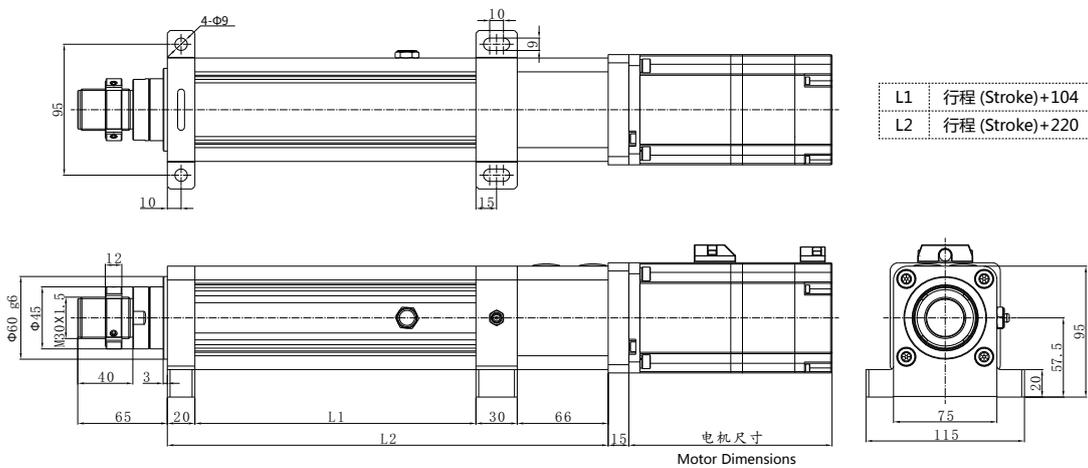
■ GDA75-L01



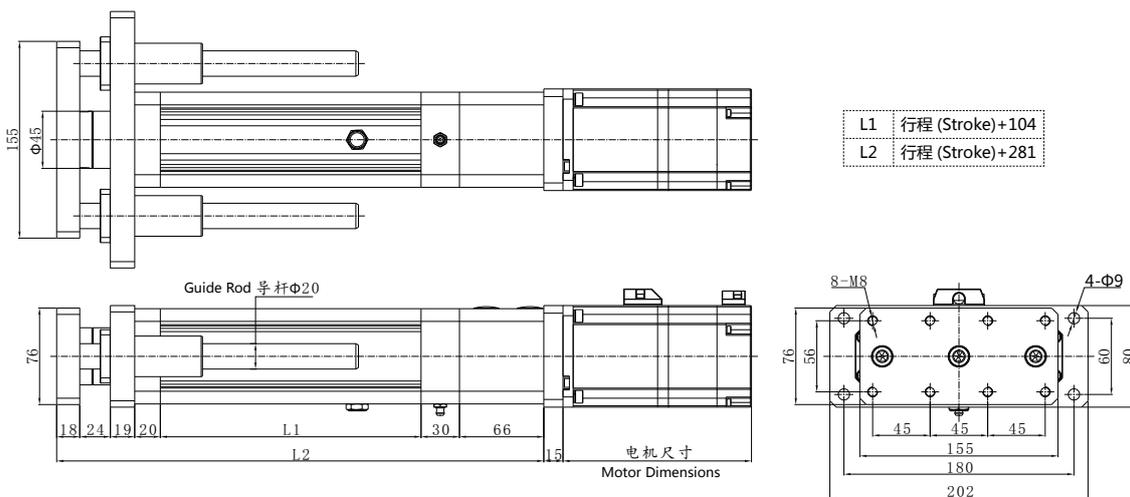
■ GDA75-L03



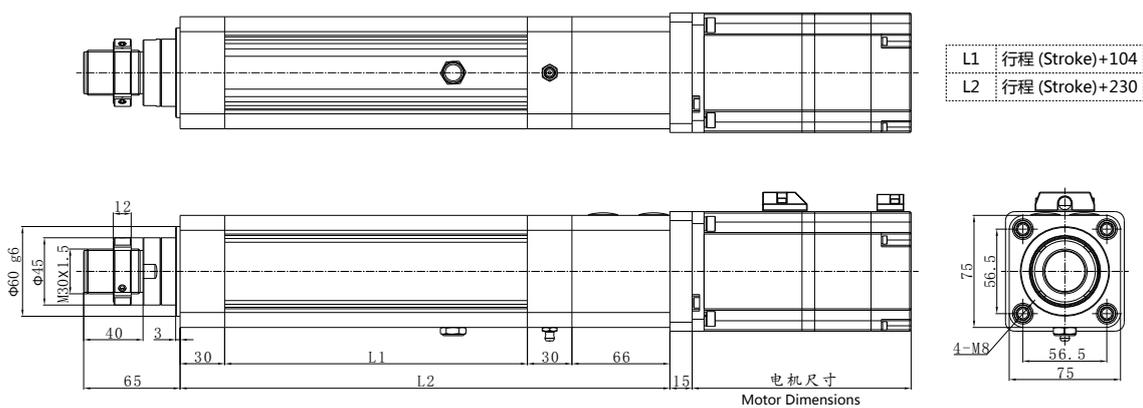
■ GDA75-L04



■ GDA75-L06



■ GDA75-L07



■ GDA75Z 标准配置参数 Standard Configuration Parameters

基础参数 (推力、行程、速度上限值不可同时结合使用) Basic Parameters (The maximum values for Thrust, Stroke, and Speed cannot be achieved simultaneously.)						
缸筒外径 Cylinder Tube Outer Diameter	缸筒内径 Cylinder Bore Diameter	允许最大推力 Allowable Max. Thrust	行程范围 Stroke Range	允许最大速度 Allowable Max. Speed	活塞杆旋转角度 Piston Rod Rotation Angle	限位开关 Limit Switch
75×75mm	φ63mm	≤ 8KN	≤ 600mm	≤ 500mm/s	±0.3°	磁感开关 Reed Switch

可选配置 Optional Configurations				轴承参数 Bearing Parameters		
丝杆导程 Ball Screw Lead	同步轮速比 (输入 : 输出) Timing Pulley Ratio (Input : Output)			轴承型号 Bearing Series	动负荷 Cr Dynamic Load Cr	静负荷 Cor Static Load Cor
05mm	1:1	1.5:1	2:1	深沟球轴承 Deep Groove Ball Bearing 6206-ZZ	19.5KN	11.3KN
10mm				推力球轴承 Thrust Ball Bearing 51206	29.3KN	58KN
20mm						

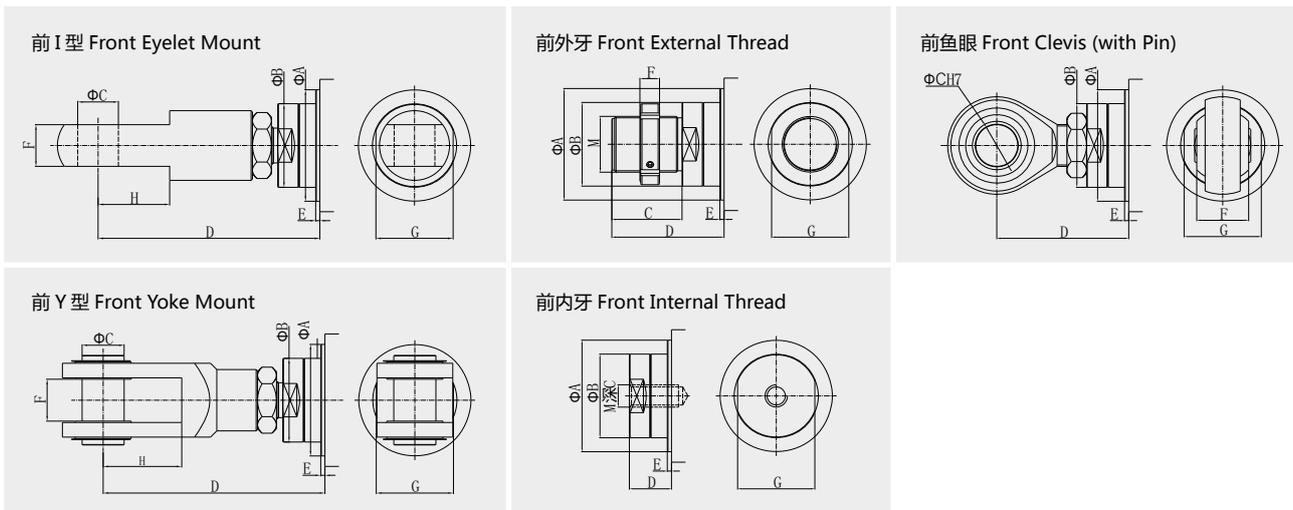
丝杆参数 Screw Parameters											
型号 Series	类型 Type	直径 Diameter	导程 Lead	动负荷 Ca Dynamic Load Ca	静负荷 Coa Static Load Coa	刚性 Rigidity	滚珠直径 Ball Diameter	丝杆轴 Screw Shaft	细长比 Slenderness Ratio	精度等级 / 定位精度 Accuracy Grade / Positioning Accuracy	
SFNU2005-4	滚珠丝杆 Ball Screw	20mm	05mm	15.2KN	38KN	39Kg/μm	3.175mm	22K6	1:30	C5/±0.01	C7/±0.02
SFA2010-3.8			10mm	14.8KN	38KN	40Kg/μm					
SFA2020-1.8			20mm	7.4KN	17.2KN	19Kg/μm					

注：本表数值对应丝杆行程 ≤ 300mm，丝杆行程 >300mm 时请联系我司技术人员确认。

Note: The values in this table correspond to the screw stroke ≤ 300mm. When the screw stroke >300mm, please contact our technical support for confirmation.

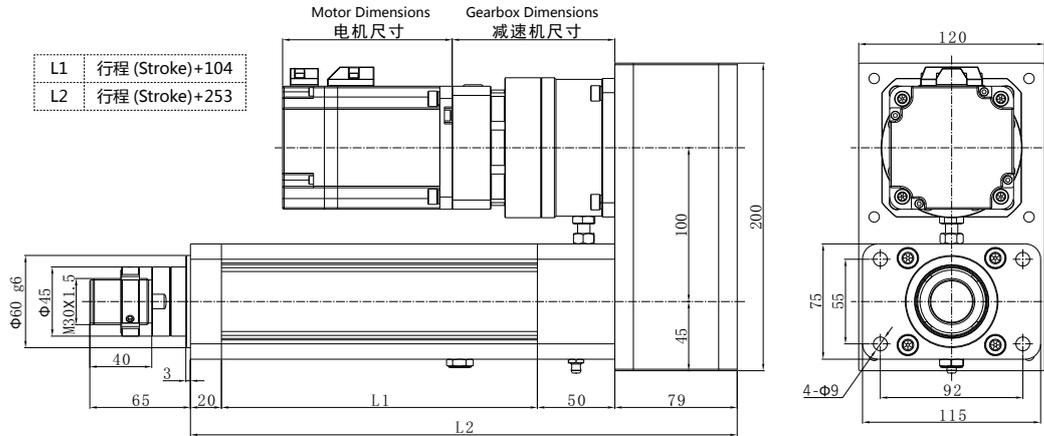
同步轮 / 同步带参数 Timing Pulley & Timing Belt Specifications							
同步轮速比 Timing Pulley Ratio	主动轮规格 Drive Pulley Spec.	从动轮规格 Driven Pulley Spec.	主动轮齿数 No. of Teeth (Drive)	从动轮齿数 No. of Teeth (Driven)	同步轮中心距 Center Distance	同步带周长 Belt Length	同步带宽度 Belt Width
1:1	5M25T42	5M25T42	40	40	110mm	420	25mm
1.5:1			30	45		410	
2:1			30	60		450	

■ GDA75Z 前端连接方式尺寸图 Front-End Connection Dimensions Diagram

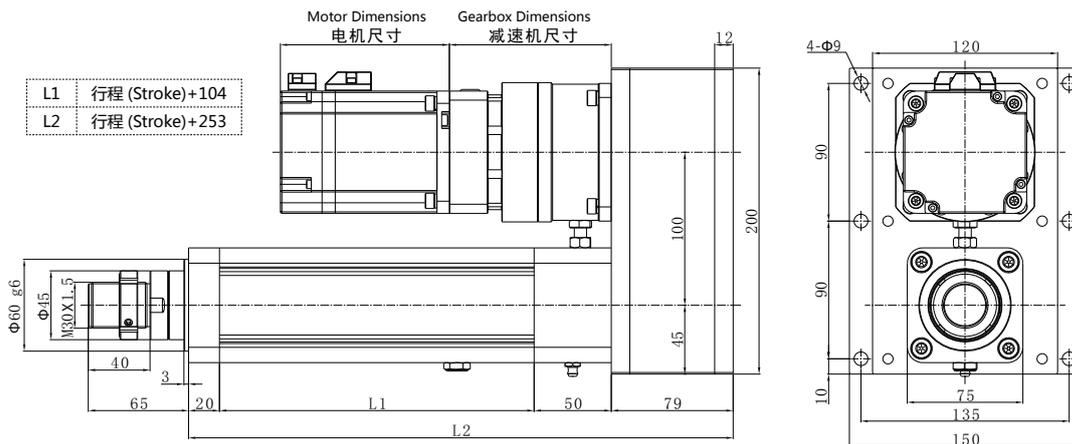


尺寸对应表 Dimension Reference Table (mm)											
负载类型 Front-End Load Connection Method	ΦA	ΦB	ΦC	C	D	E	F	H	G	M	
前外牙 Front External Thread	Φ60	Φ45	—	40	65	3	12	—	41	M30×1.5	
前内牙 Front Internal Thread	Φ60	Φ45	—	40	25	3	—	—	41	M20	
前 I 型 Front Eyelet Mount	Φ60	Φ45	Φ20	—	118	3	20	40	41	—	
前鱼眼 Front Clevis (with Pin)	Φ60	Φ45	Φ20	—	72	3	25	—	41	—	
前 Y 型 Front Yoke Mount	Φ60	Φ45	Φ20	—	118	3	20	40	44.4	—	

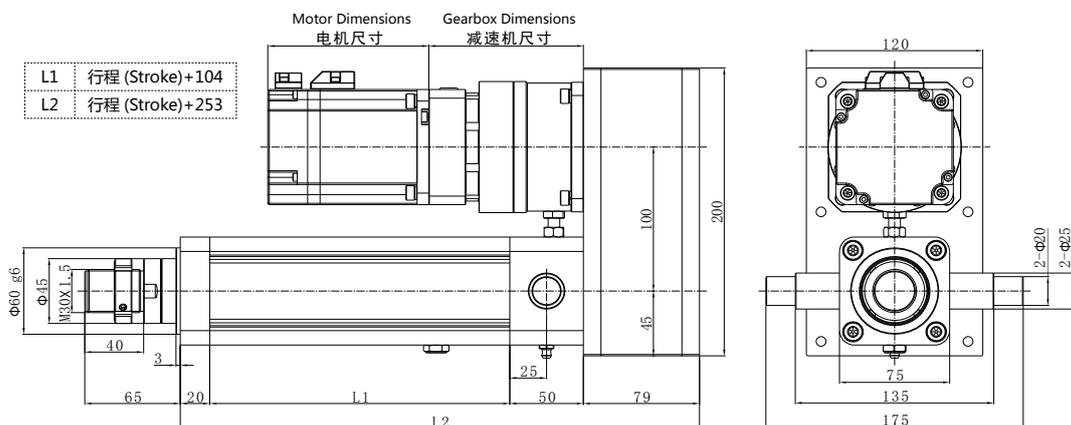
■ GDA75Z-R01



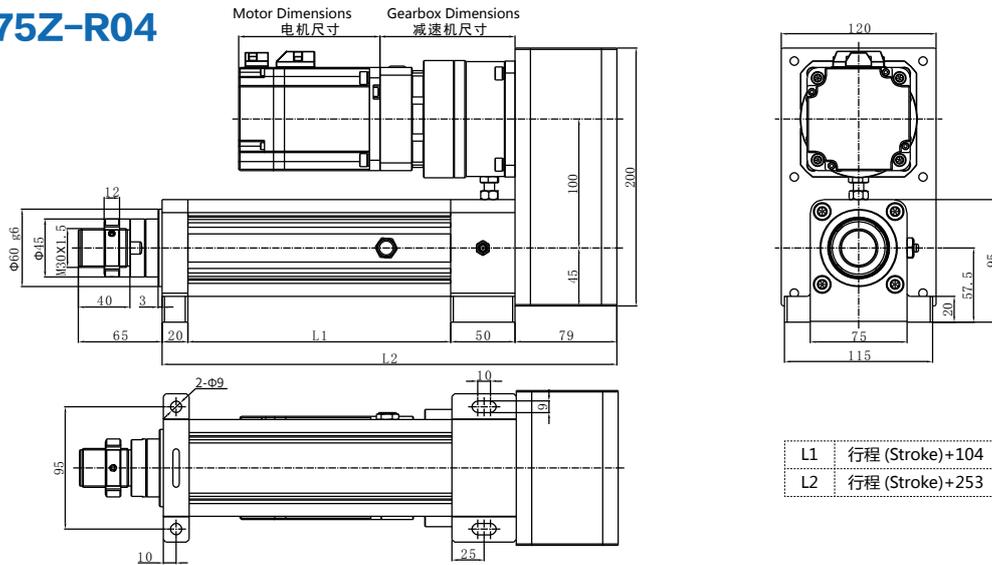
■ GDA75Z-R02



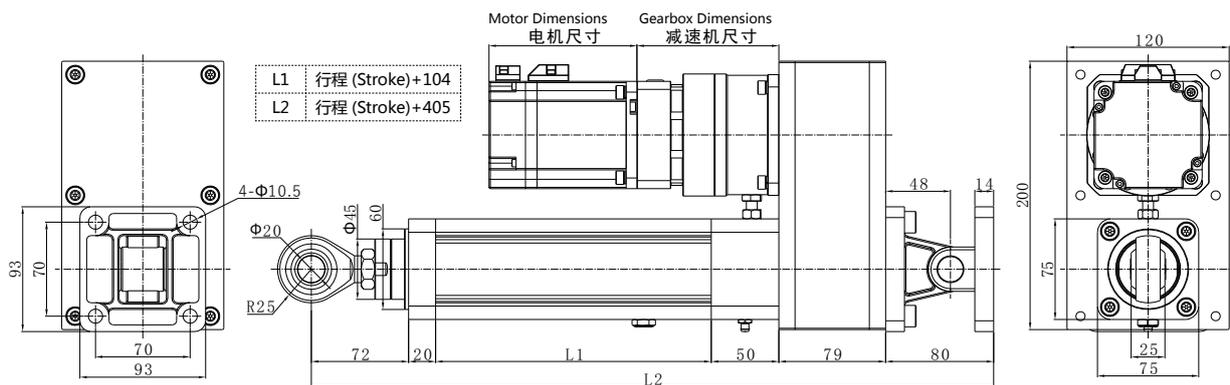
■ GDA75Z-R03



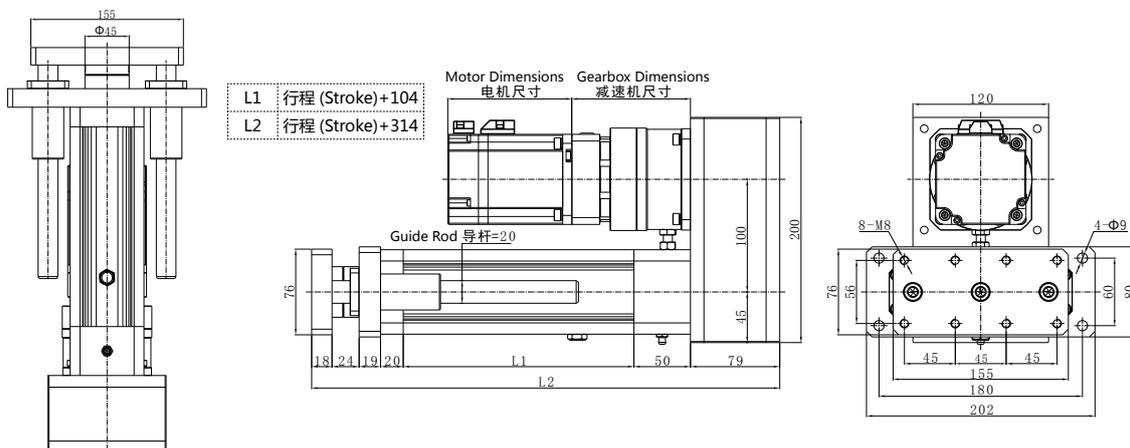
■ GDA75Z-R04



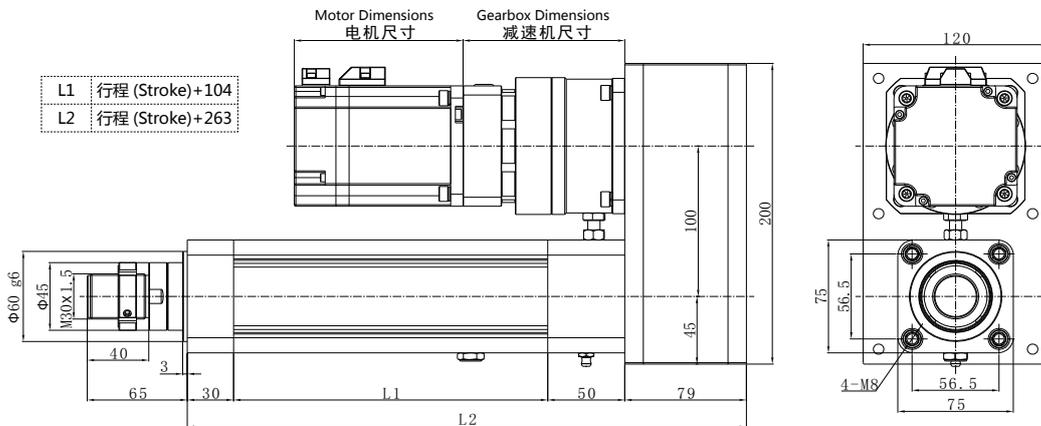
■ GDA75Z-R05



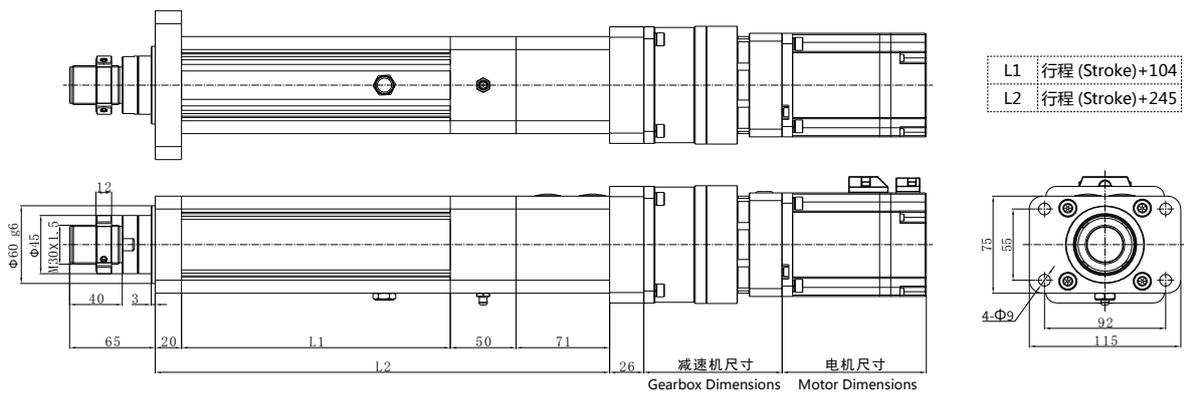
■ GDA75Z-R06



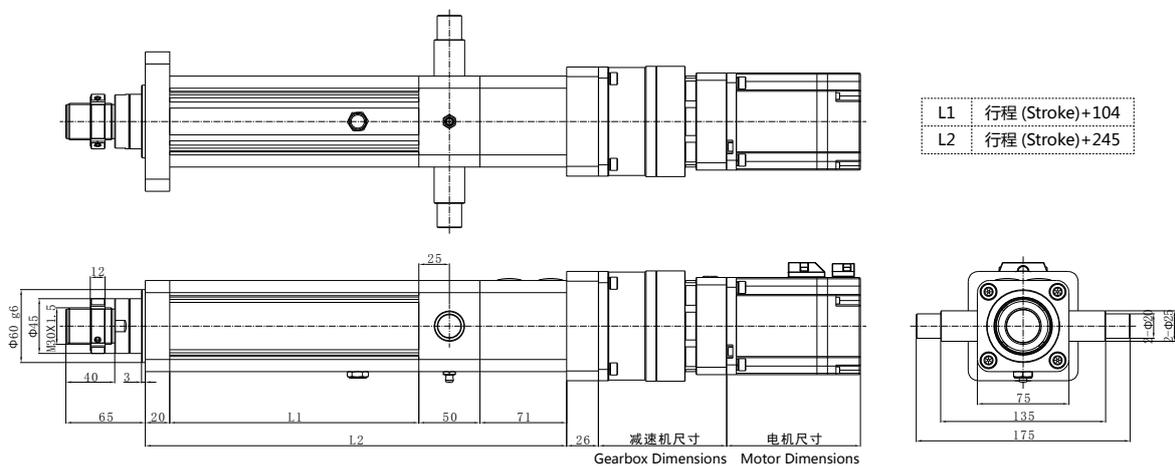
■ GDA75Z-R07



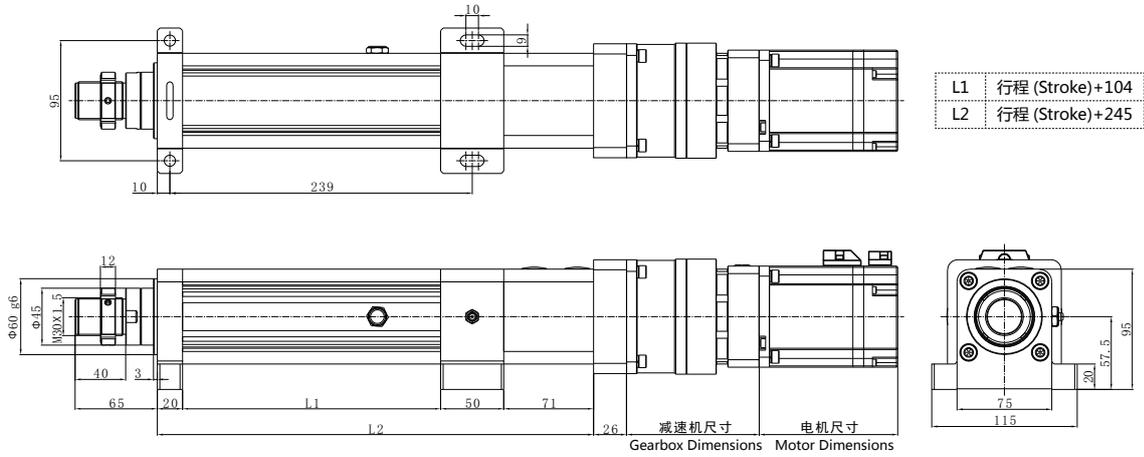
■ GDA75Z-L01



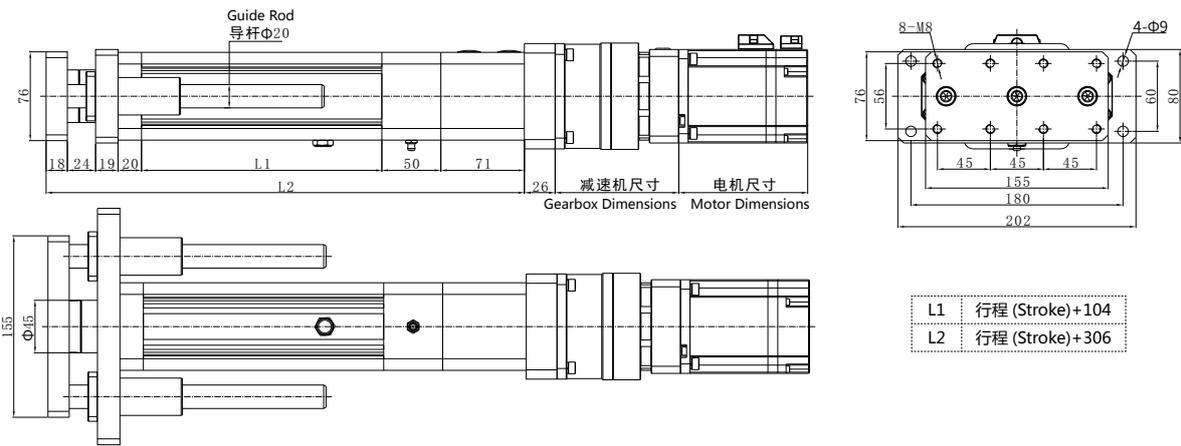
■ GDA75Z-L03



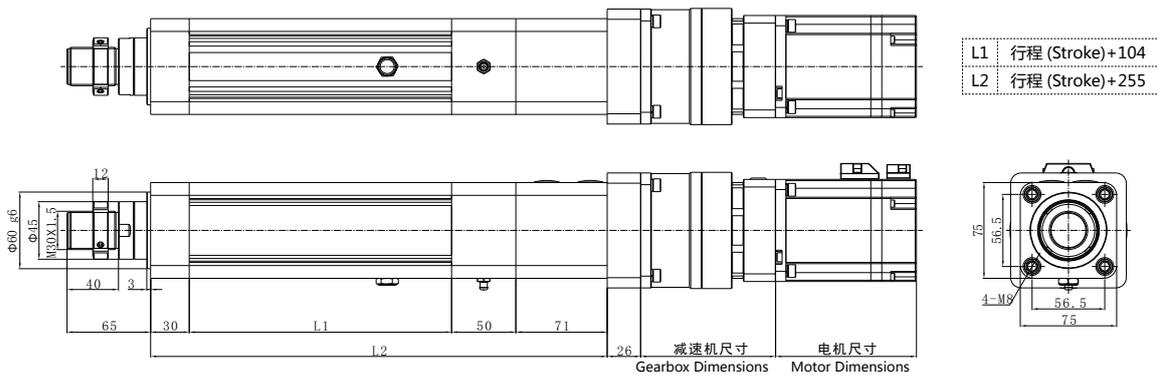
■ **GDA75Z-L04**



■ **GDA75Z-L06**



■ **GDA75Z-L07**



■ GDA80 标准配置参数 Standard Configuration Parameters

基础参数 (推力、行程、速度上限值不可同时结合使用) Basic Parameters (The maximum values for Thrust, Stroke, and Speed cannot be achieved simultaneously.)						
缸筒外径 Cylinder Tube Outer Diameter	缸筒内径 Cylinder Bore Diameter	允许最大推力 Allowable Max. Thrust	行程范围 Stroke Range	允许最大速度 Allowable Max. Speed	活塞杆旋转角度 Piston Rod Rotation Angle	限位开关 Limit Switch
80x80 mm	φ65 mm	≤ 20KN	≤ 750mm	≤ 1000mm/s	±0.3°	磁感开关 Reed Switch

可选配置 Optional Configurations				轴承参数 Bearing Parameters		
丝杆导程 Ball Screw Lead	同步轮速比 (输入 : 输出) Timing Pulley Ratio (Input : Output)			轴承型号 Bearing Series	动负荷 Cr Dynamic Load Cr	静负荷 Cor Static Load Cor
05mm	1:1	1.5:1	2:1	深沟球轴承 6206-ZZ x2	19.5KN	11.3KN
10mm				推力轴承 51206	29.3KN	58KN
25mm						

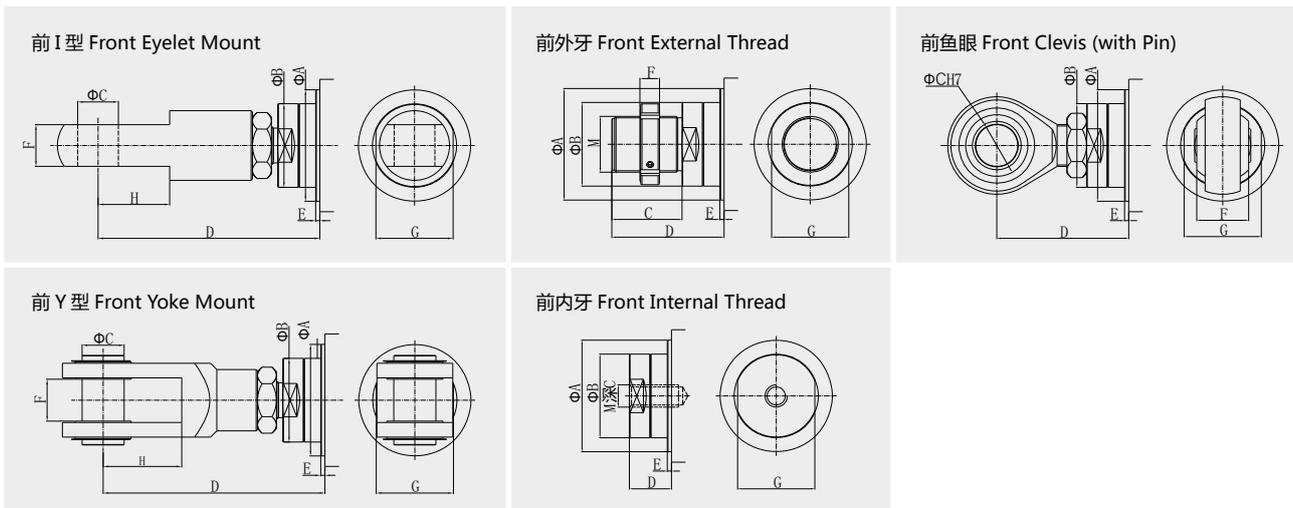
丝杆参数 Screw Parameters											
型号 Series	类型 Type	直径 Diameter	导程 Lead	动负荷 Ca Dynamic Load Ca	静负荷 Coa Static Load Coa	刚性 Rigidity	滚珠直径 Ball Diameter	丝杆轴 Screw Shaft	细长比 Slendernes Ratio	精度等级 / 定位精度 Accuracy Grade / Positioning Accuracy	
SFNU2505-4	滚珠丝杆 Ball Screw	25 mm	05mm	16.9	48	45	3.175mm	22K6	1:30	C5/±0.01	C7/±0.02
SFNU2510-4			10mm	28.9	71.5	50	4.762mm				
SFA2525-1.8			25mm	8.2	21.5	22	3.175mm				

注：本表数值对应丝杆行程 ≤ 300mm，丝杆行程 > 300mm 时请联系我司技术人员确认。

Note: The values in this table correspond to the screw stroke ≤ 300mm. When the screw stroke > 300mm, please contact our technical support for confirmation.

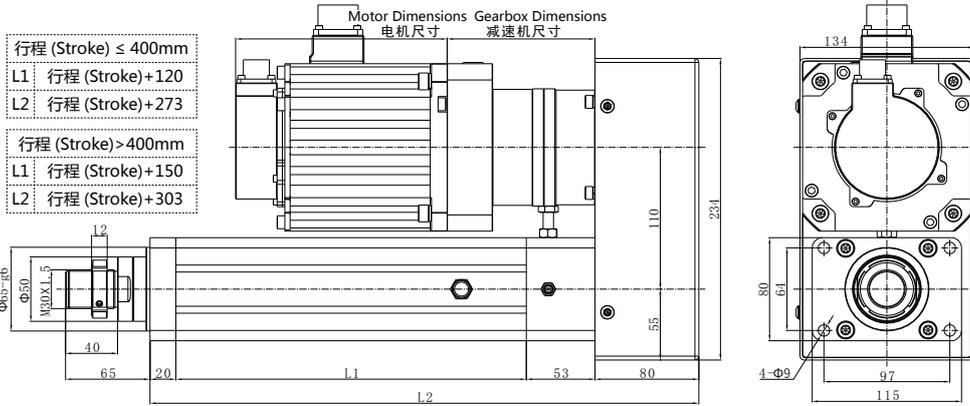
同步轮 / 同步带参数 Timing Pulley & Timing Belt Specifications							
同步轮速比 Timing Pulley Ratio	主动轮规格 Drive Pulley Spec.	从动轮规格 Driven Pulley Spec.	主动轮齿数 No. of Teeth (Drive)	从动轮齿数 No. of Teeth (Driven)	同步轮中心距 Center Distance	同步带周长 Belt Length	同步带宽度 Belt Width
1:1	5M25T42	5M25T42	40	40	110mm	420	25mm
1.5:1			30	45		410	
2:1			30	60		450	

■ GDA80 前端连接方式尺寸图 Front-End Connection Dimensions Diagram

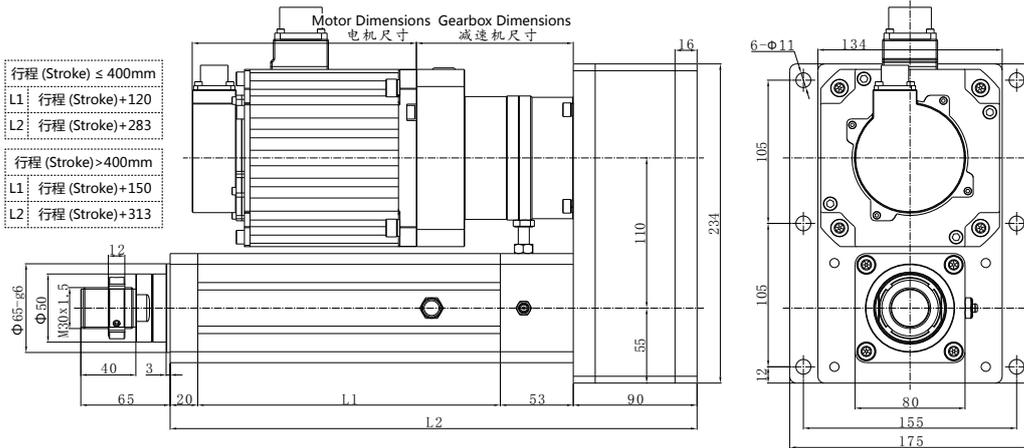


尺寸对应表 Dimension Reference Table (mm)										
负载类型 Front-End Load Connection Method	ΦA	ΦB	ΦC	C	D	E	F	H	G	M
前外牙 Front External Thread	Φ65	Φ50	—	40	65	3	12	—	46	M30x1.5
前内牙 Front Internal Thread	Φ65	Φ50	—	40	25	3	—	—	46	M20
前 I 型 Front Eyelet Mount	Φ65	Φ50	Φ30	—	150	3	30	51	46	—
前鱼眼 Front Clevis (with Pin)	Φ65	Φ50	Φ25	—	80	3	31	—	46	—
前 Y 型 Front Yoke Mount	Φ65	Φ50	Φ30	—	150	3	35	73	70	—

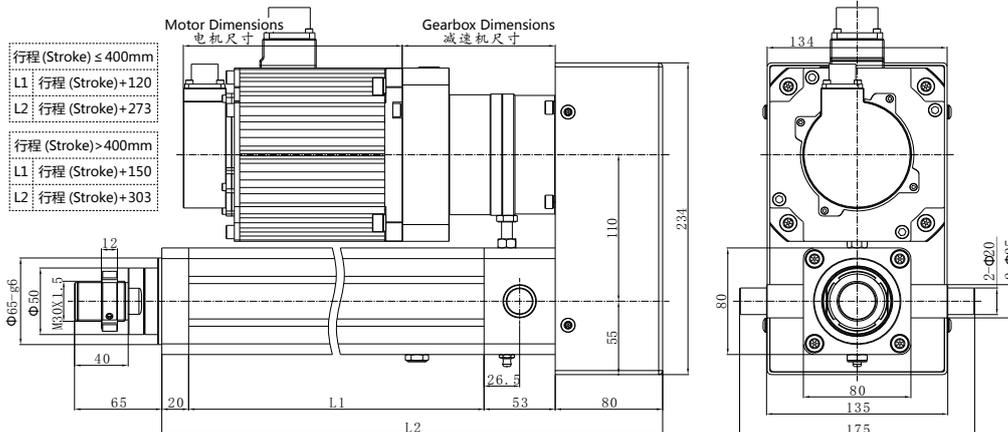
■ GDA80-R01



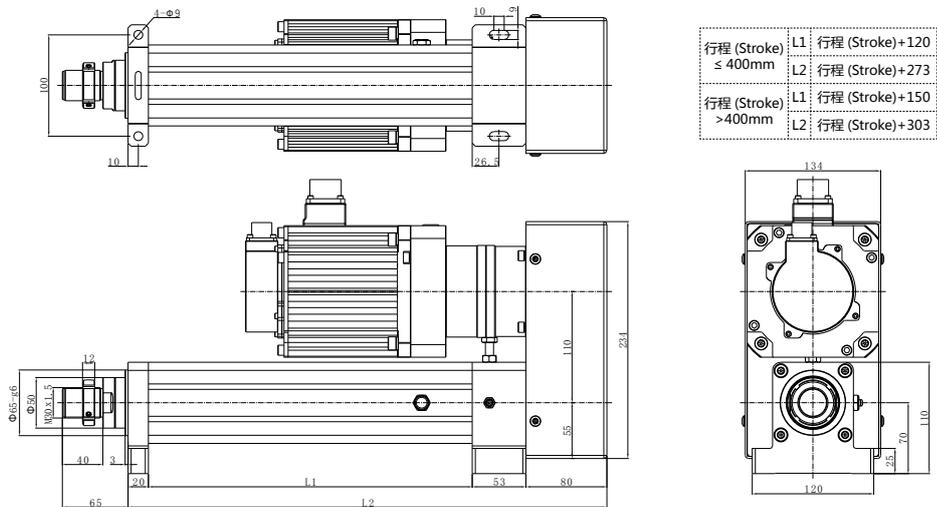
■ GDA80-R02



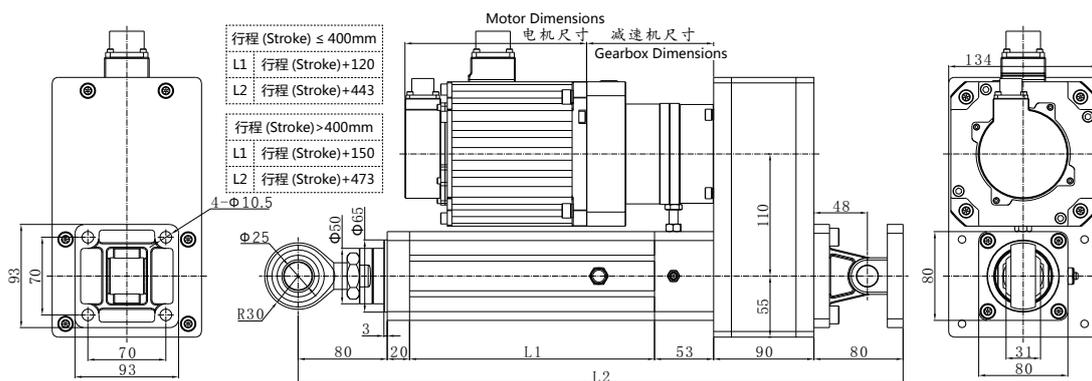
■ GDA80-R03



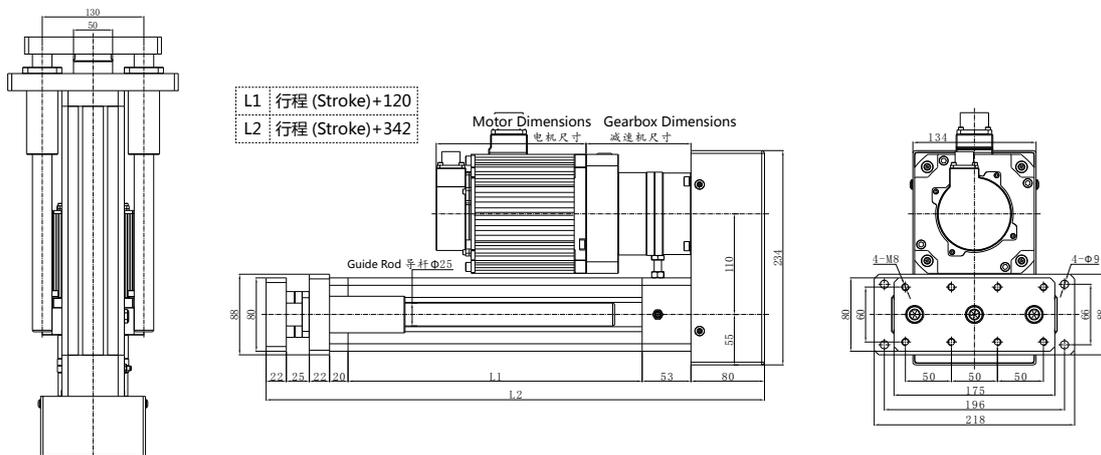
■ GDA80-R04



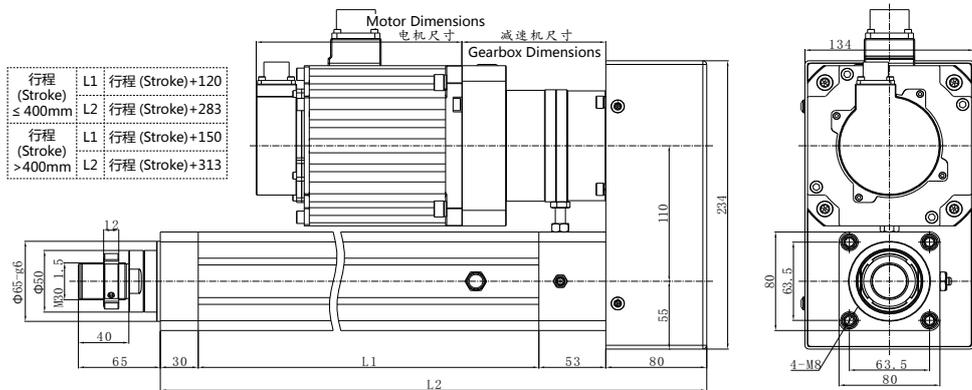
■ GDA80-R05



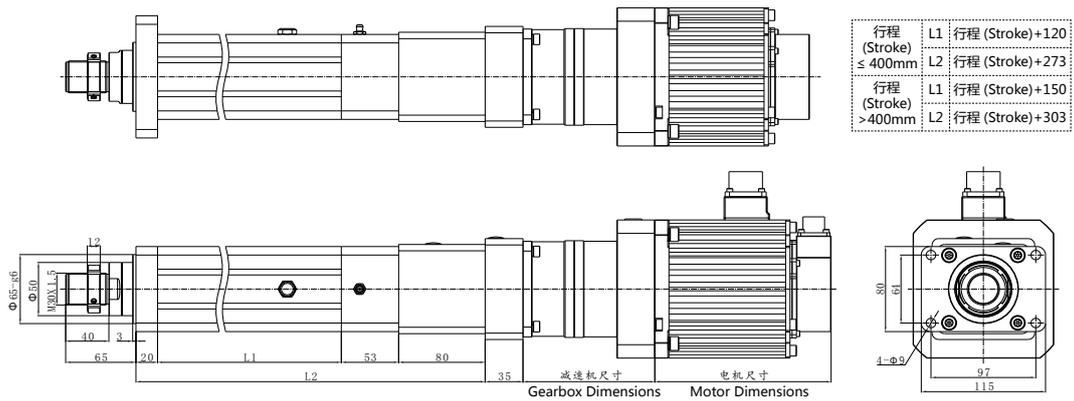
■ GDA80-R06



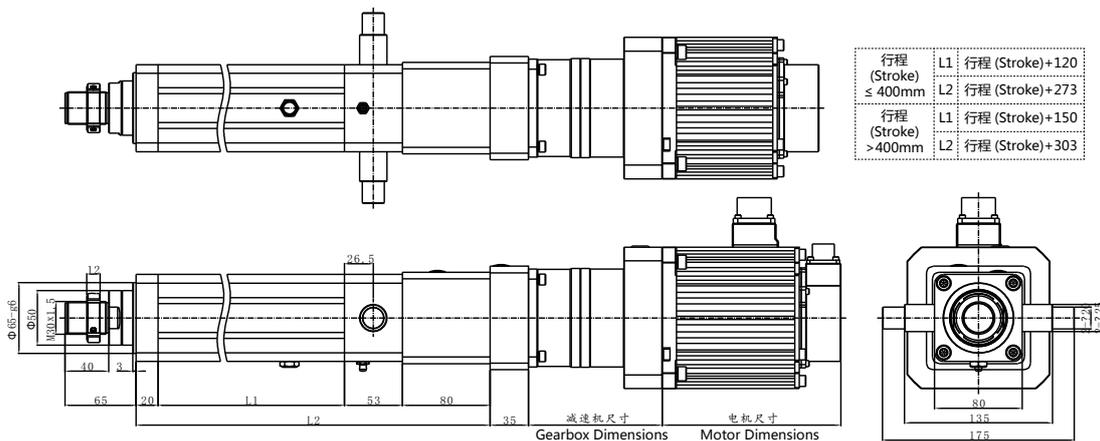
■ GDA80-R07



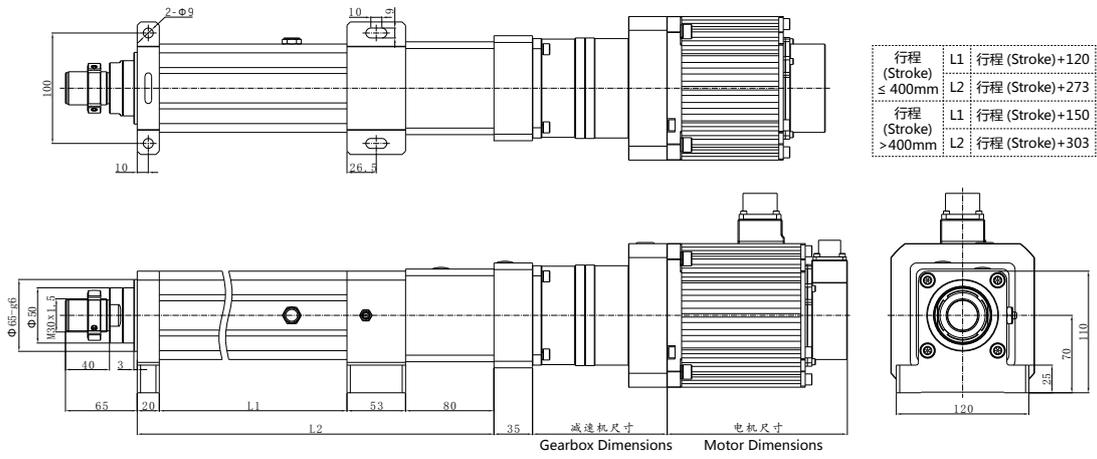
■ GDA80-L01



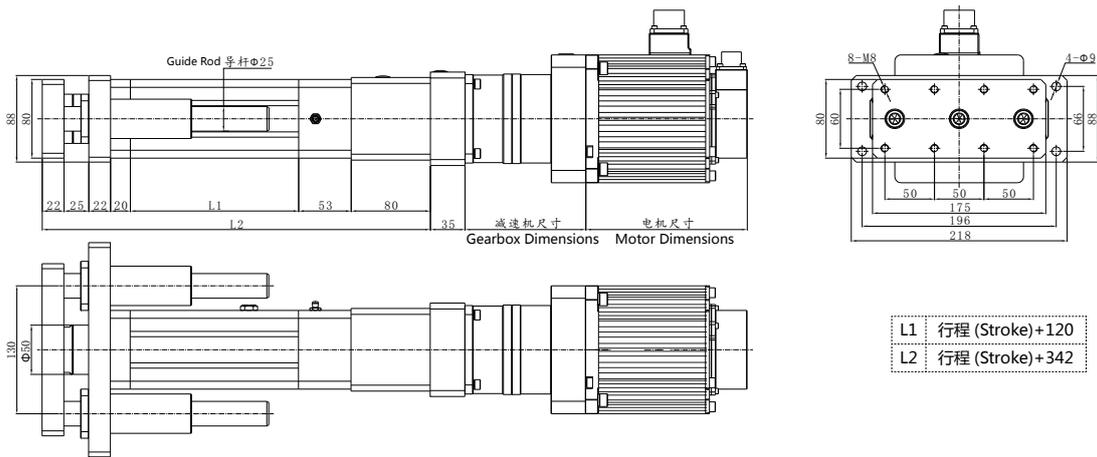
■ GDA80-L03



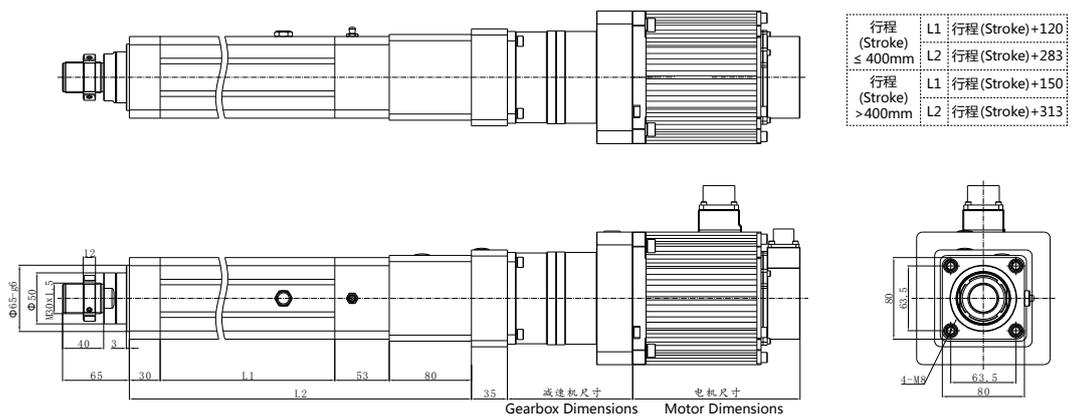
■ GDA80-L04



■ GDA80-L06



■ GDA80-L07



■ GDA94 标准配置参数 Standard Configuration Parameters

基础参数 (推力、行程、速度上限值不可同时结合使用) Basic Parameters (The maximum values for Thrust, Stroke, and Speed cannot be achieved simultaneously.)						
缸筒外径 Cylinder Tube Outer Diameter	缸筒内径 Cylinder Bore Diameter	允许最大推力 Allowable Max. Thrust	行程范围 Stroke Range	允许最大速度 Allowable Max. Speed	活塞杆旋转角度 Piston Rod Rotation Angle	限位开关 Limit Switch
94×94mm	φ80mm	≤ 30KN	≤ 960mm	≤ 1000mm/s	±0.3°	磁感开关 Reed Switch

可选配置 Optional Configurations			
丝杆导程 Ball Screw Lead	同步轮速比 (输入 : 输出) Timing Pulley Ratio (Input : Output)		
05mm	1:1	1.5:1	2:1
10mm			
20mm			
32mm			

轴承参数 Bearing Parameters		
轴承型号 Bearing Series	动负荷 Cr Dynamic Load Cr	静负荷 Cor Static Load Cor
圆锥滚子轴承 Tapered Roller Bearing 31305×2	38KN	40KN

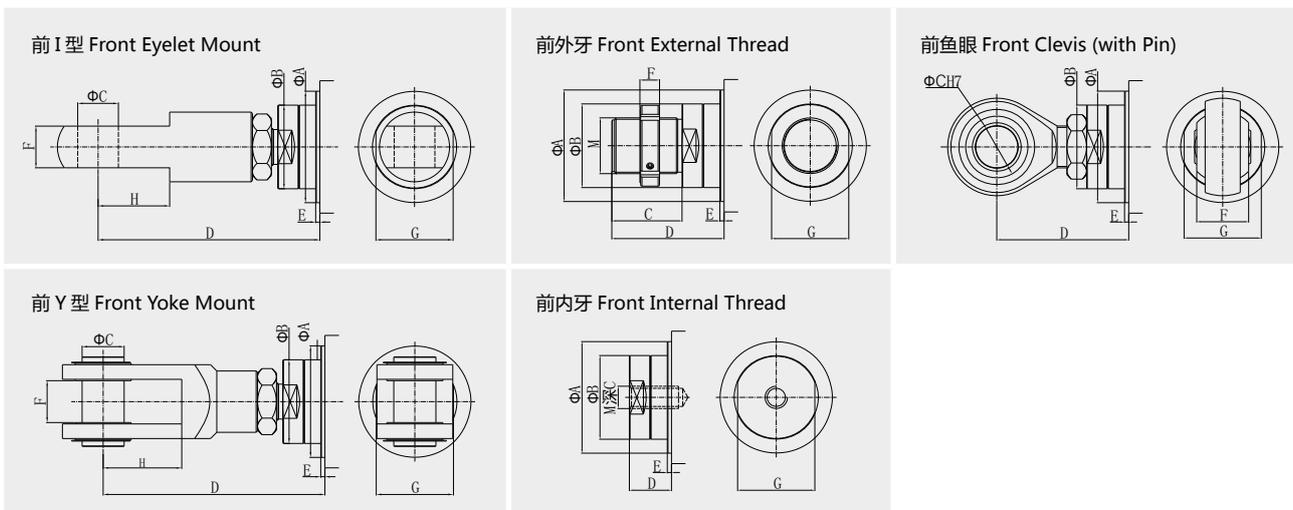
丝杆参数 Screw Parameters											
型号 Series	类型 Type	直径 Diameter	导程 Lead	动负荷 Ca Dynamic Load Ca	静负荷 Coa Static Load Coa	刚性 Rigidity	滚珠直径 Ball Diameter	丝杆轴 Screw Shaft	细长比 Slendernes Ratio	精度等级 / 定位精度 Accuracy Grade / Positioning Accuracy	
SFNU3205-4	滚珠丝杆 Ball Screw	32mm	05mm	18.8KN	62.2KN	54Kgf/μm	3.175mm	22K6	1:30	C5/±0.01	C7/±0.02
SFNU3210-4			10mm	47.1KN	119.7KN	61Kgf/μm	6.35mm				
SFA3220-2.8			20mm	18.7KN	53.7KN	43Kgf/μm	3.969mm				
SFA3232-1.8			32mm	12.3KN	33.5KN	27Kgf/μm	3.969mm				

注：本表数值对应丝杆行程 ≤ 300mm，丝杆行程 > 300mm 时请联系我司技术人员确认。

Note: The values in this table correspond to the screw stroke ≤ 300mm. When the screw stroke > 300mm, please contact our technical support for confirmation.

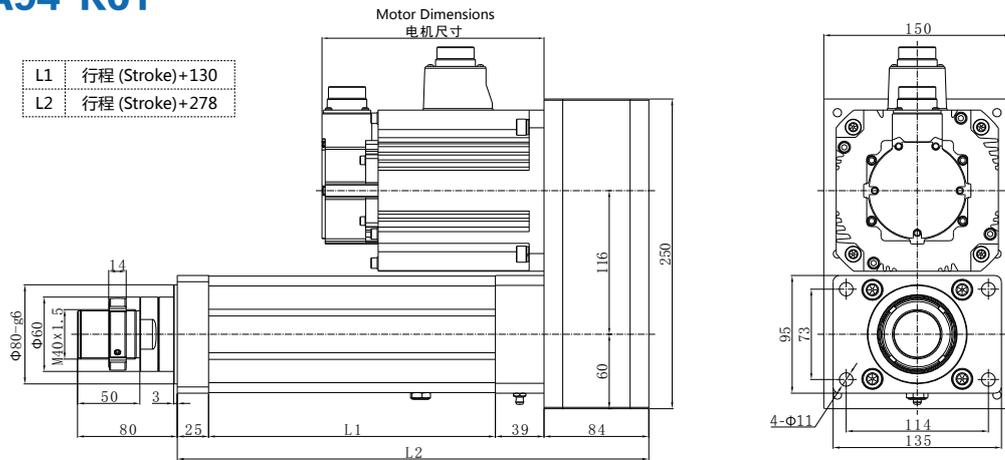
同步轮 / 同步带参数 Timing Pulley & Timing Belt Specifications							
同步轮速比 Timing Pulley Ratio	主动轮规格 Drive Pulley Spec.	从动轮规格 Driven Pulley Spec.	主动轮齿数 No. of Teeth (Drive)	从动轮齿数 No. of Teeth (Driven)	同步轮中心距 Center Distance	同步带周长 Belt Length	同步带宽度 Belt Width
1:1	8M30T48	8M30T38	30	30	116mm	472	30mm
1.5:1			20	30		432	
2:1			20	40		480	

■ GDA94 前端连接方式尺寸图 Front-End Connection Dimensions Diagram

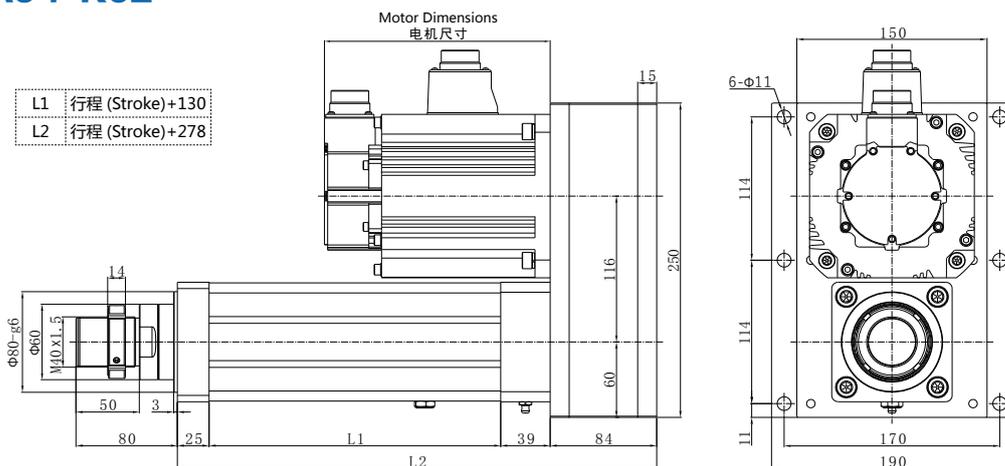


尺寸对应表 Dimension Reference Table (mm)										
负载类型 Front-End Load Connection Method	ΦA	ΦB	ΦC	C	D	E	F	H	G	M
前外牙 Front External Thread	Φ80	Φ60	—	50	80	3	14	—	55	M40×1.5
前内牙 Front Internal Thread	Φ80	Φ60	—	40	30	3	—	—	55	M24
前I型 Front Eyelet Mount	Φ80	Φ60	Φ35	—	195	3	35	55	55	—
前鱼眼 Front Clevis (with Pin)	Φ80	Φ60	Φ30	—	94	3	37	—	55	—
前Y型 Front Yoke Mount	Φ80	Φ60	Φ35	—	195	3	35	73	70	—

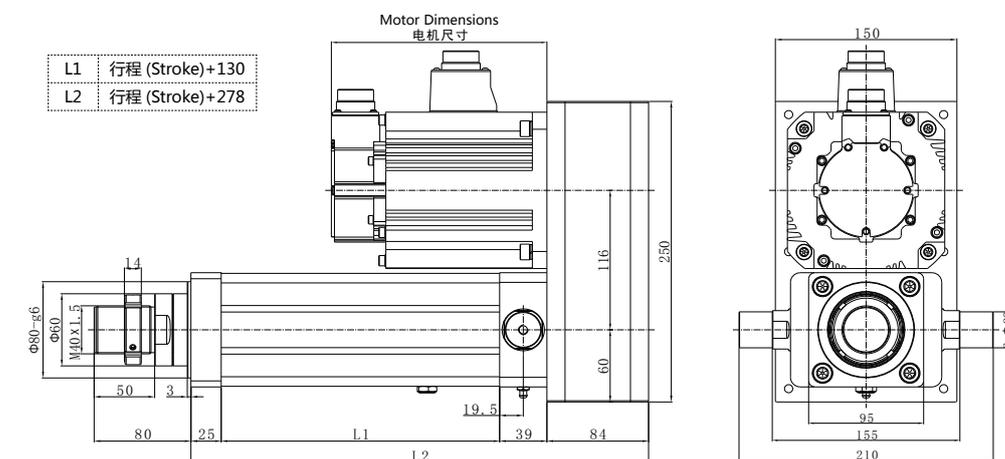
■ GDA94-R01



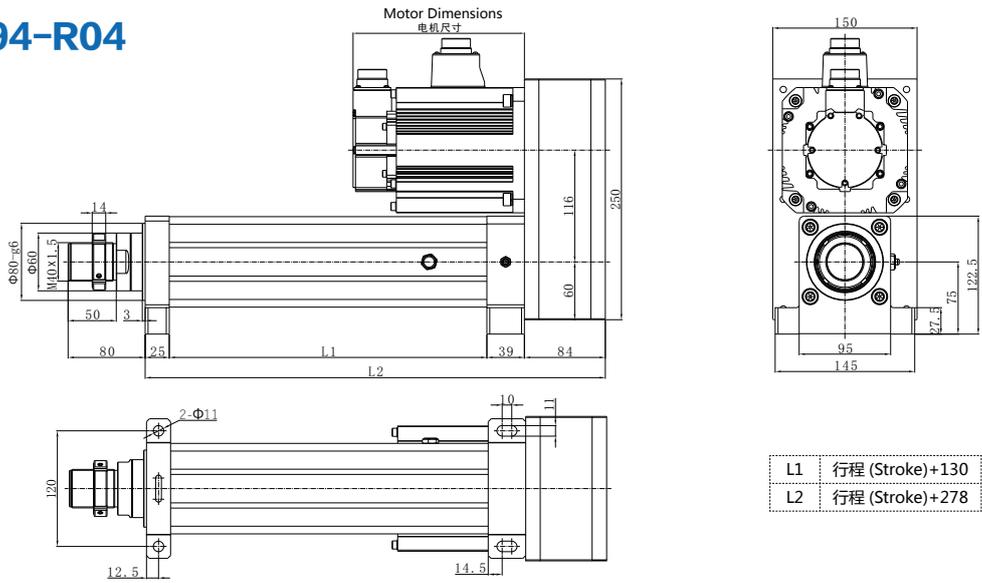
■ GDA94-R02



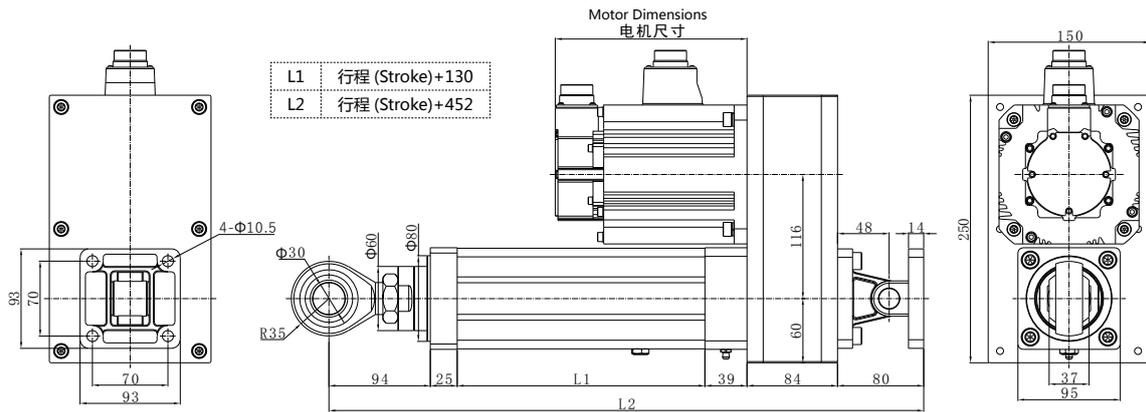
■ GDA94-R03



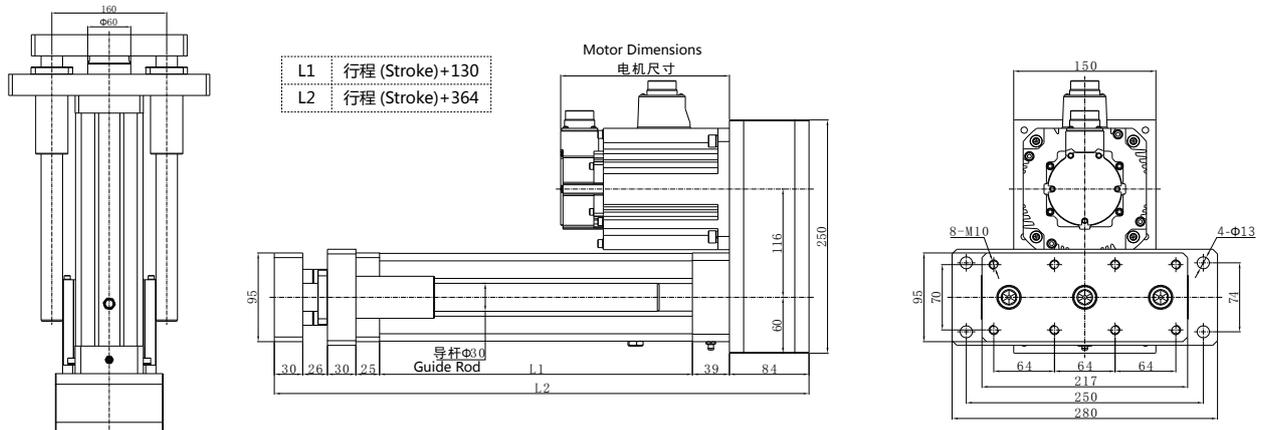
■ GDA94-R04



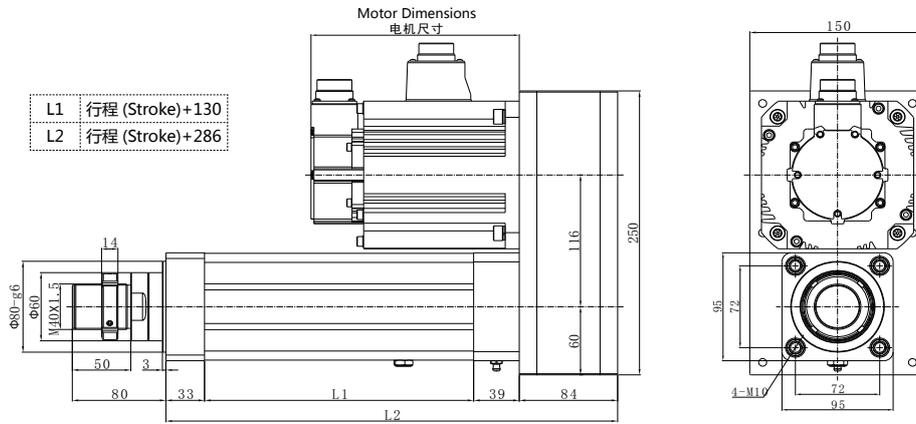
■ GDA94-R05



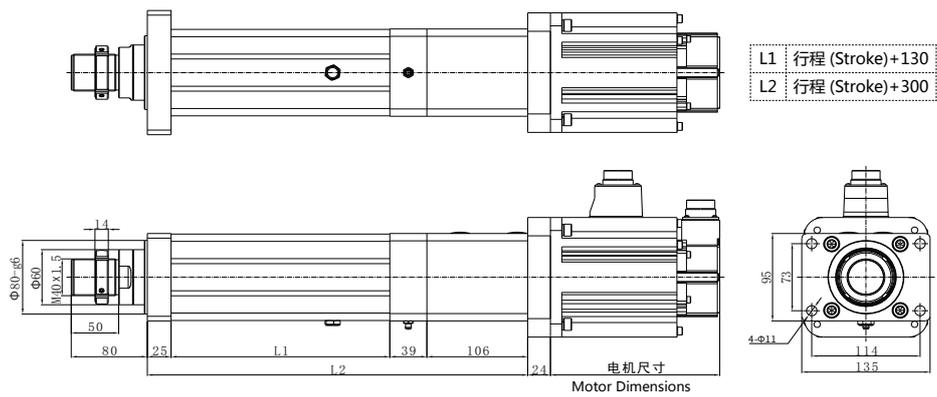
■ GDA94-R06



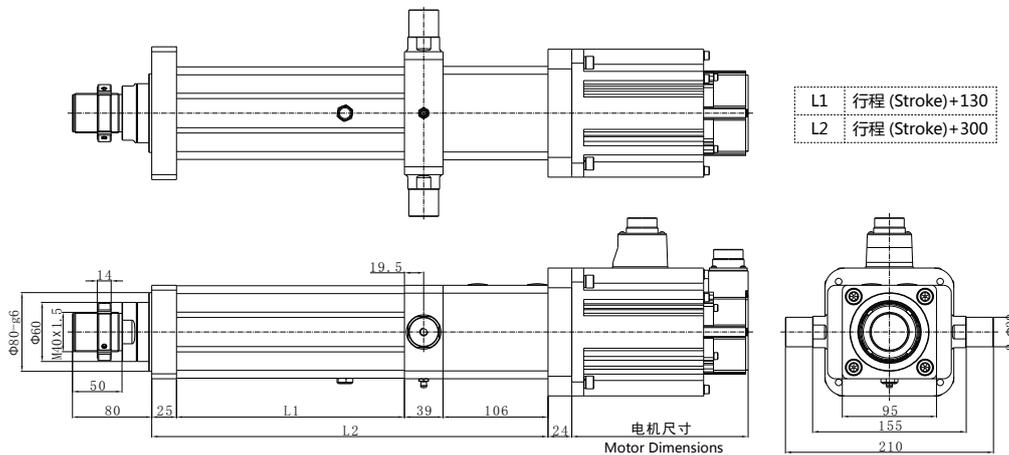
■ GDA94-R07



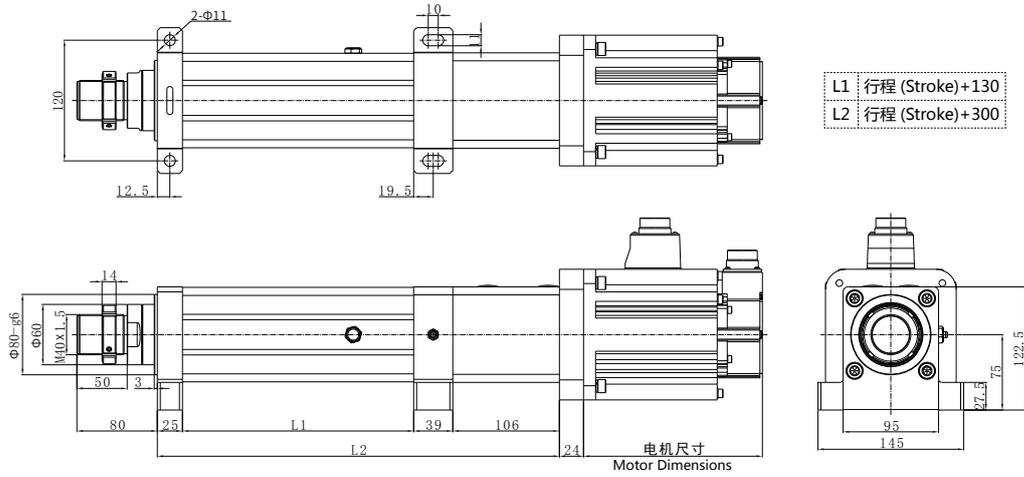
■ GDA94-L01



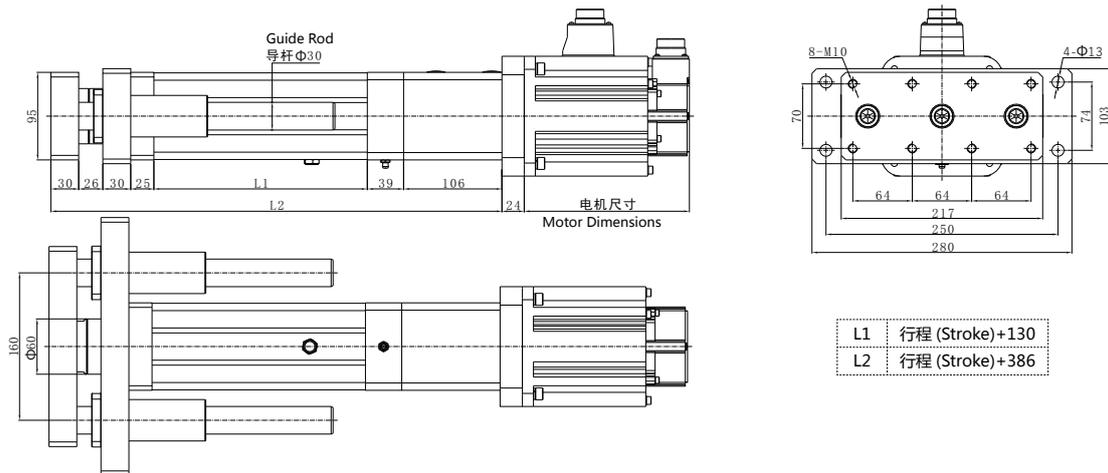
■ GDA94-L03



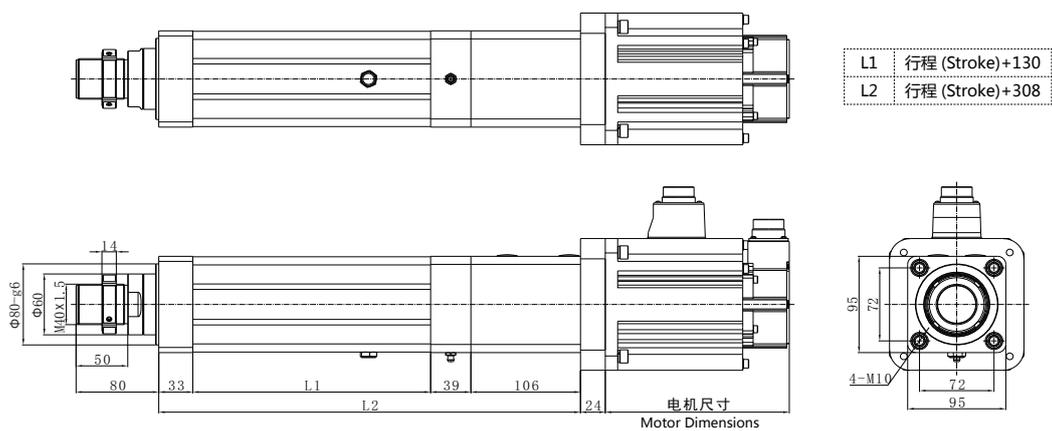
■ GDA94-L04



■ GDA94-L06



■ GDA94-L07



■ GDA94Z 标准配置参数 Standard Configuration Parameters

基础参数 (推力、行程、速度上限值不可同时结合使用) Basic Parameters (The maximum values for Thrust, Stroke, and Speed cannot be achieved simultaneously.)						
缸筒外径 Cylinder Tube Outer Diameter	缸筒内径 Cylinder Bore Diameter	允许最大推力 Allowable Max. Thrust	行程范围 Stroke Range	允许最大速度 Allowable Max. Speed	活塞杆旋转角度 Piston Rod Rotation Angle	限位开关 Limit Switch
94×94mm	φ80mm	≤ 30KN	≤ 960mm	≤ 1000mm/s	±0.3°	磁感开关 Reed Switch

可选配置 Optional Configurations			
丝杆导程 Ball Screw Lead	同步轮速比 (输入 : 输出) Timing Pulley Ratio (Input : Output)		
05mm	1:1	1.5:1	2:1
10mm			
20mm			
32mm			

轴承参数 Bearing Parameters		
轴承型号 Bearing Series	动负荷 Cr Dynamic Load Cr	静负荷 Cor Static Load Cor
深沟球轴承 Deep Groove Ball Bearing 6007-ZZ×2	15.9KN	10.3KN
推力球轴承 Thrust Ball Bearing 51207	39KN	78KN

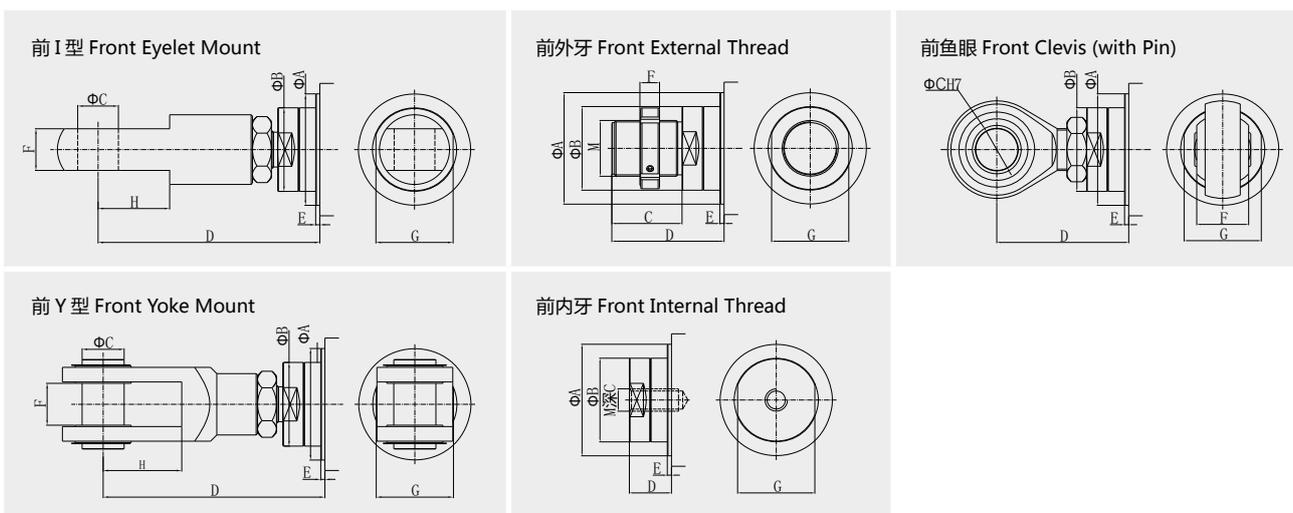
丝杆参数 Screw Parameters										
型号 Series	类型 Type	直径 Diameter	导程 Lead	动负荷 Ca Dynamic Load Ca	静负荷 Coa Static Load Coa	刚性 Rigidity	滚珠直径 Ball Diameter	丝杆轴 Screw Shaft	细长比 Slendernes Ratio	精度等级 / 定位精度 Accuracy Grade / Positioning Accuracy
SFNU3205-4	滚珠丝杆 Ball Screw	32mm	05mm	18.8KN	62.2KN	54Kgf/μm	3.175mm	32K10	1:30	C5/±0.01 C7/±0.02
SFNU3210-4			10mm	47.1KN	119.7KN	61Kgf/μm	6.35mm			
SFA3220-2.8			20mm	18.7KN	53.7KN	43Kgf/μm	3.969mm			
SFA3232-1.8			32mm	12.3KN	33.5KN	27Kgf/μm	3.969mm			

注：本表数值对应丝杆行程 ≤ 300mm，丝杆行程 > 300mm 时请联系我司技术人员确认。

Note: The values in this table correspond to the screw stroke ≤ 300mm. When the screw stroke > 300mm, please contact our technical support for confirmation.

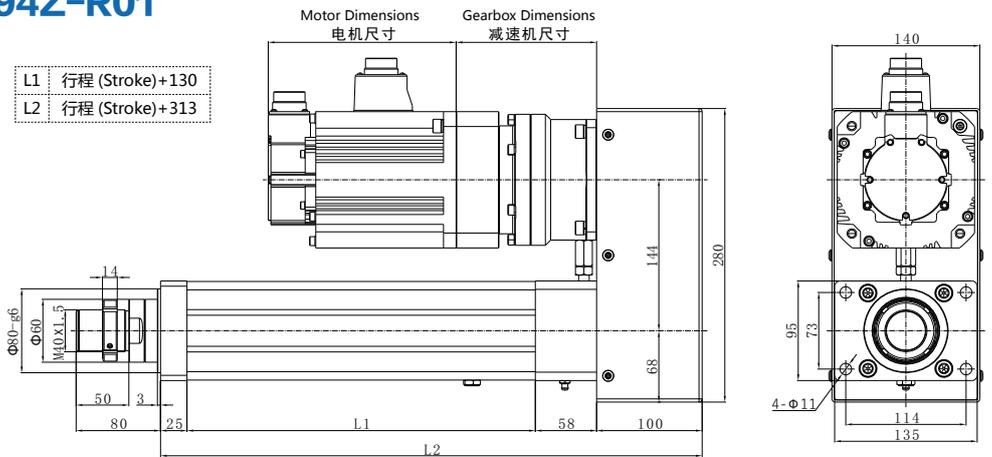
同步轮 / 同步带参数 Timing Pulley & Timing Belt Specifications							
同步轮速比 Timing Pulley Ratio	主动轮规格 Drive Pulley Spec.	从动轮规格 Driven Pulley Spec.	主动轮齿数 No. of Teeth (Drive)	从动轮齿数 No. of Teeth (Driven)	同步轮中心距 Center Distance	同步带周长 Belt Length	同步带宽度 Belt Width
1:1	8M30T47	8M30T47	45	45	155mm	672	30mm
1.5:1			30	45		608	
2:1			30	60		680	

■ GDA94Z 前端连接方式尺寸图 Front-End Connection Dimensions Diagram

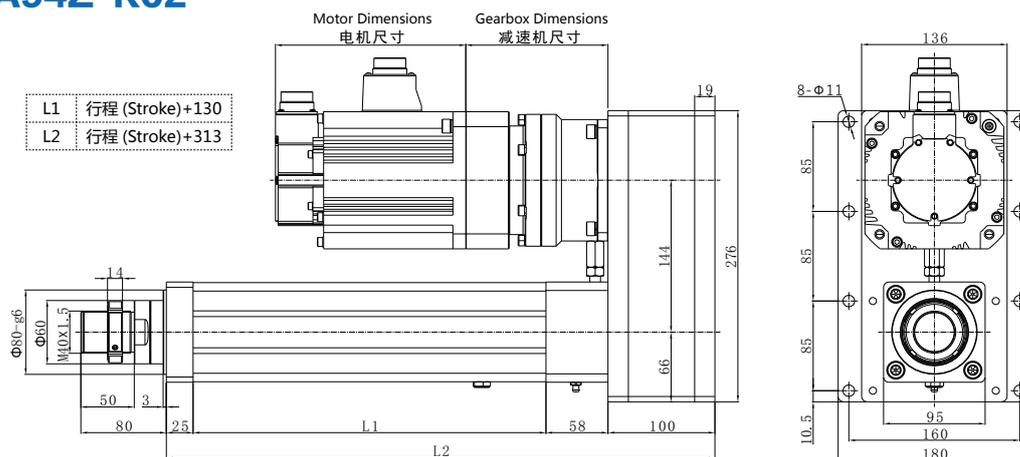


尺寸对应表 Dimension Reference Table (mm)											
负载类型 Front-End Load Connection Method	ΦA	ΦB	ΦC	C	D	E	F	H	G	M	
前外牙 Front External Thread	Φ80	Φ60	—	50	80	3	14	—	55	M40×1.5	
前内牙 Front Internal Thread	Φ80	Φ60	—	40	30	3	—	—	55	M24	
前I型 Front Eyelet Mount	Φ80	Φ60	Φ35	—	195	3	35	55	55	—	
前鱼眼 Front Clevis (with Pin)	Φ80	Φ60	Φ30	—	94	3	37	—	55	—	
前Y型 Front Yoke Mount	Φ80	Φ60	Φ35	—	195	3	35	73	70	—	

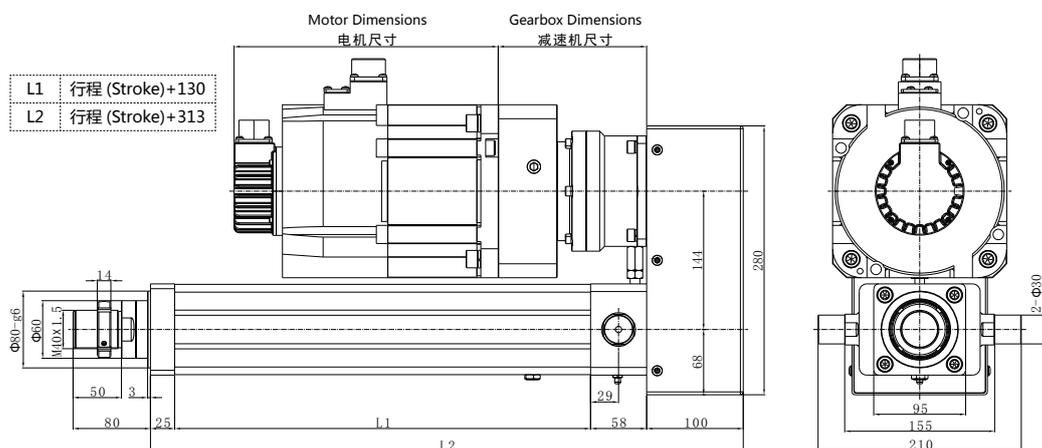
■ GDA94Z-R01



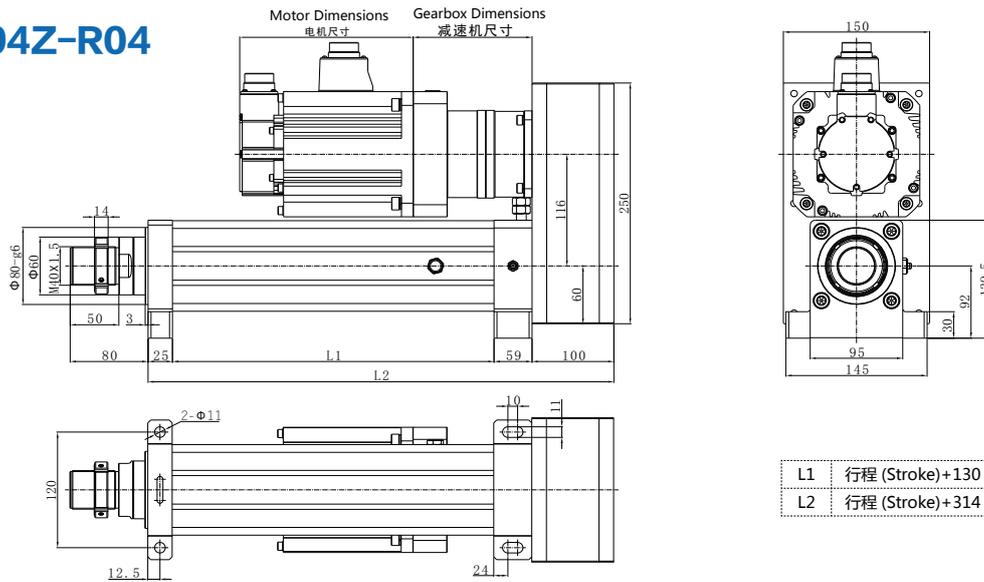
■ GDA94Z-R02



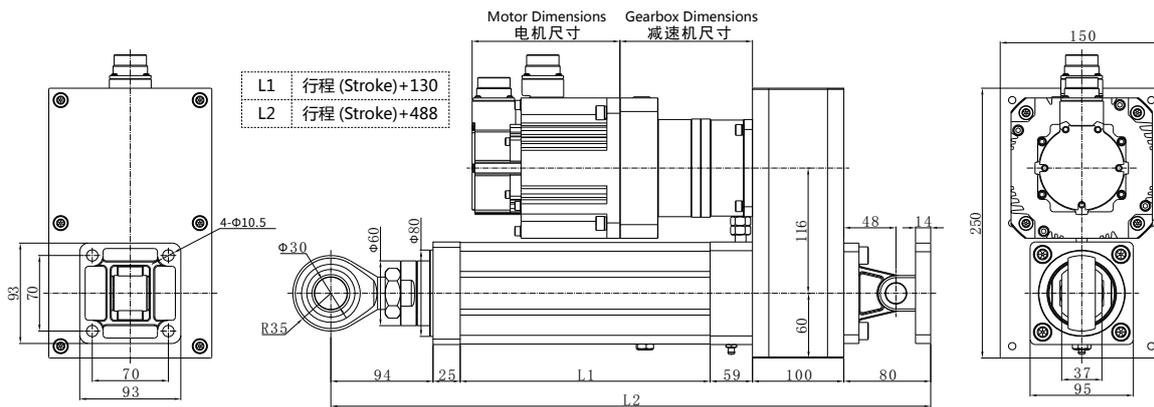
■ GDA94Z-R03



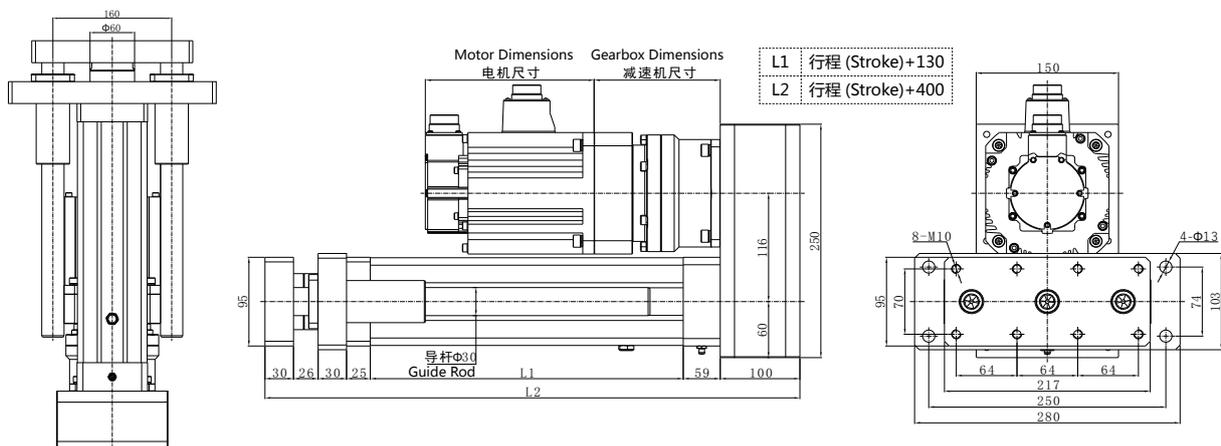
■ GDA94Z-R04



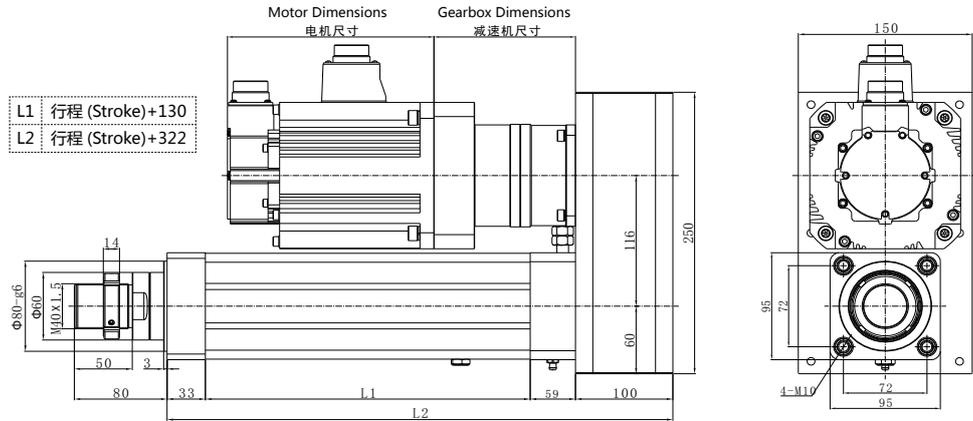
■ GDA94Z-R05



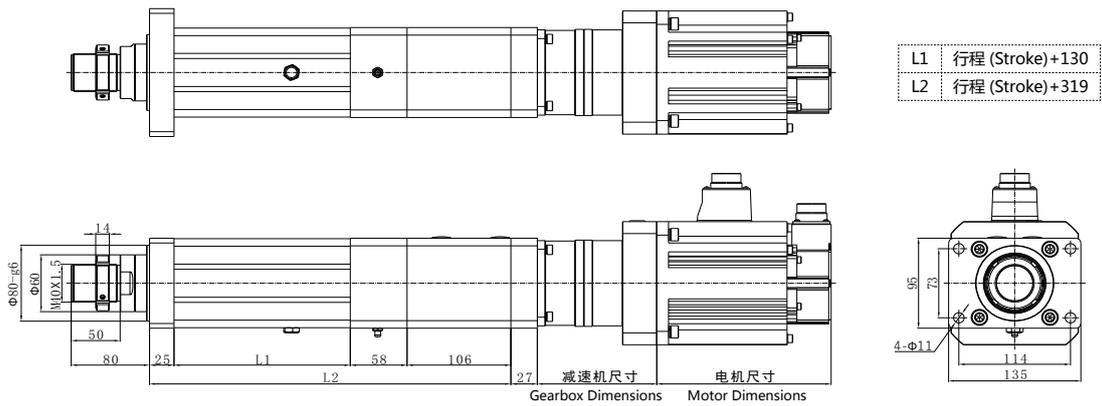
■ GDA94Z-R06



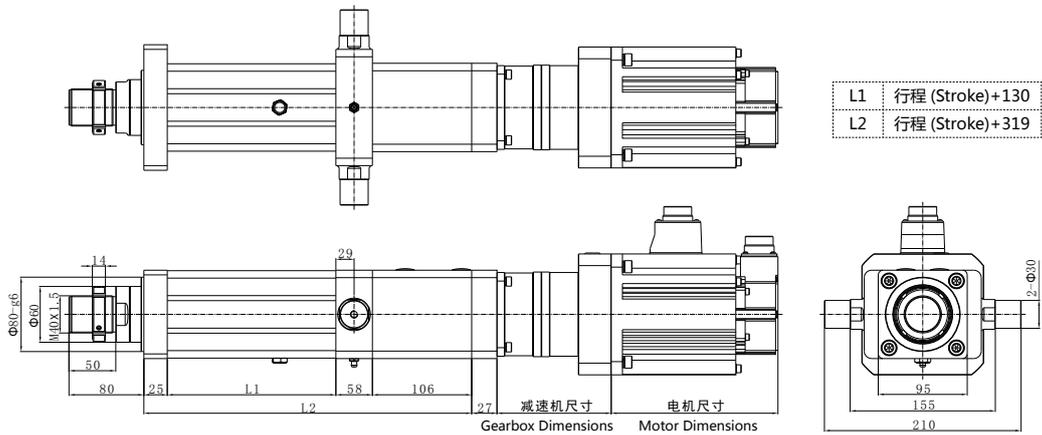
■ GDA94Z-R07



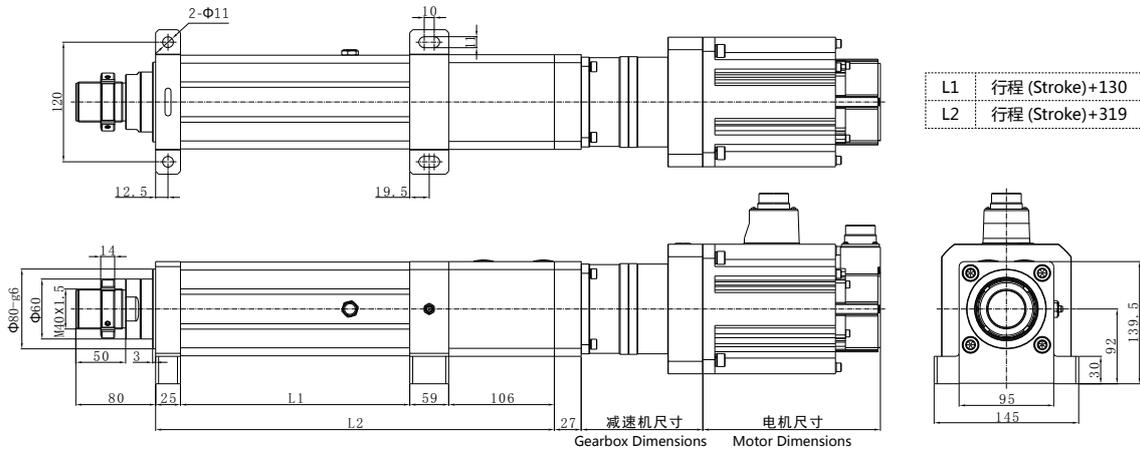
■ GDA94Z-L01



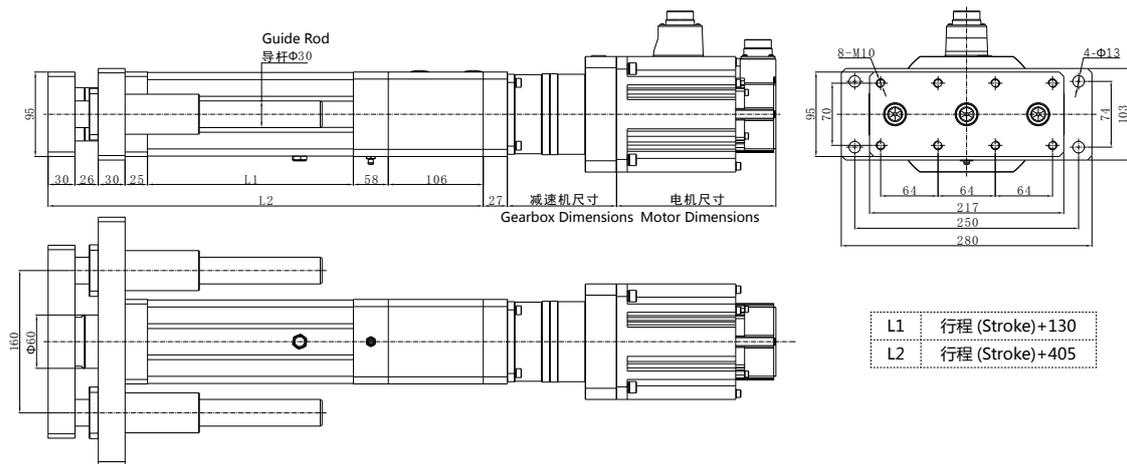
■ GDA94Z-L03



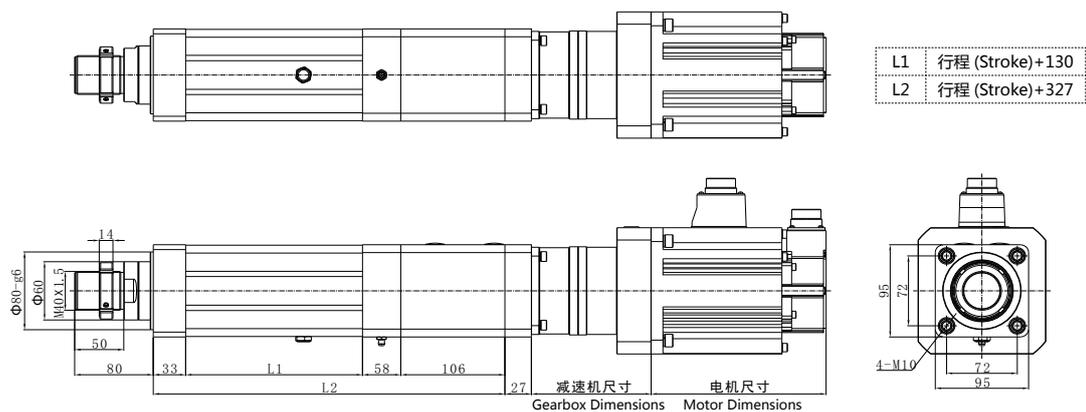
■ GDA94Z-L04



■ GDA94Z-L06



■ GDA94Z-L07



■ GDA115 标准配置参数 Standard Configuration Parameters

基础参数 (推力、行程、速度上限值不可同时结合使用) Basic Parameters (The maximum values for Thrust, Stroke, and Speed cannot be achieved simultaneously.)						
缸筒外径 Cylinder Tube Outer Diameter	缸筒内径 Cylinder Bore Diameter	允许最大推力 Allowable Max. Thrust	行程范围 Stroke Range	允许最大速度 Allowable Max. Speed	活塞杆旋转角度 Piston Rod Rotation Angle	限位开关 Limit Switch
112×112mm	φ100mm	≤ 50KN	≤ 2000mm	≤ 250mm/s	±0.3°	磁感开关 Reed Switch

可选配置 Optional Configurations				轴承参数 Bearing Parameters		
丝杆导程 Ball Screw Lead	同步轮速比 (输入 : 输出) Timing Pulley Ratio (Input : Output)			轴承型号 Bearing Series	动负荷 Cr Dynamic Load Cr	静负荷 Cor Static Load Cor
05mm	1:1	1.5:1	2:1	角接触球轴承 Angular Contact Ball Bearing 7009C/DT	24.4KN	19.3KN
10mm						
20mm				推力球轴承 Thrust Ball Bearing 51309	80KN	163KN
40mm						

丝杆参数 Screw Parameters										
型号 Series	类型 Type	直径 Diameter	导程 Lead	动负荷 Ca Dynamic Load Ca	静负荷 Coa Static Load Coa	刚性 Rigidity	滚珠直径 Ball Diameter	丝杆轴 Screw Shaft	细长比 Slendernes Ratio	精度等级 / 定位精度 Accuracy Grade / Positioning Accuracy
SFNU4005-4	滚珠丝杆 Ball Screw	40mm	05mm	20.6KN	78.3KN	63Kgf/μm	3.175mm	35K10	1:50	C5/±0.01 C7/±0.02
SFNU4010-4			10mm	52.9KN	152KN	73Kgf/μm				
SFA4020-2.8			20mm	38.8KN	105KN	54Kgf/μm				
SFA4040-1.8			40mm	25.3KN	65KN	34Kgf/μm				
SFA4040-1.8*			40mm	37KN	101.4KN	52Kgf/μm				

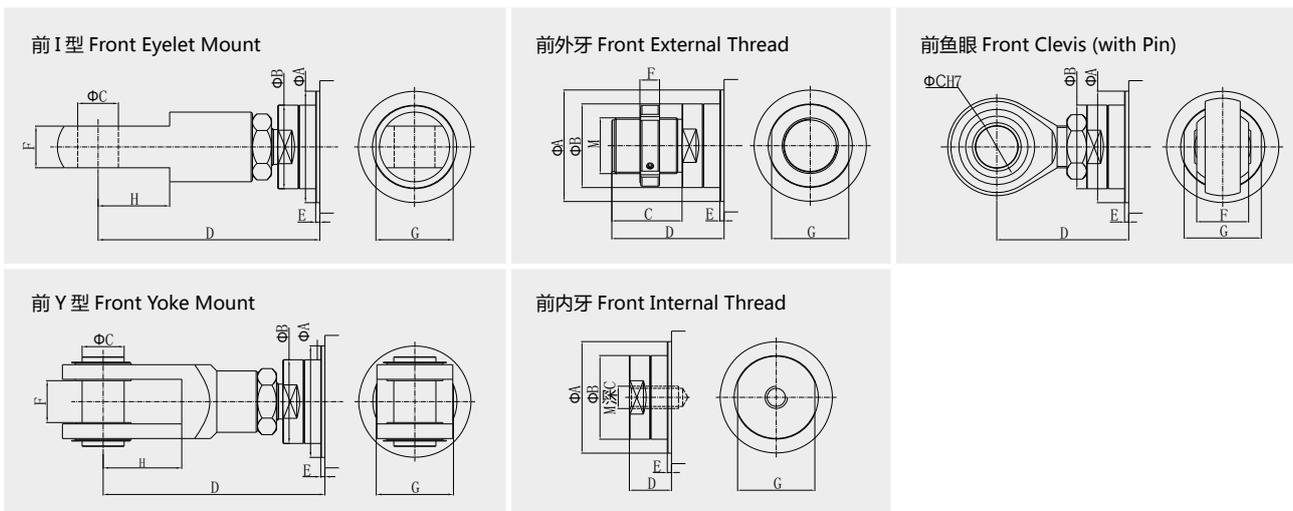
注：本表数值对应丝杆行程 ≤ 300mm，丝杆行程 > 300mm 时请联系我司技术人员确认。

Note: The values in this table correspond to the screw stroke ≤ 300mm. When the screw stroke > 300mm, please contact our technical support for confirmation.

* 丝杆尺寸需加长 50mm。/The screw rod length needs to be extended by 50mm.

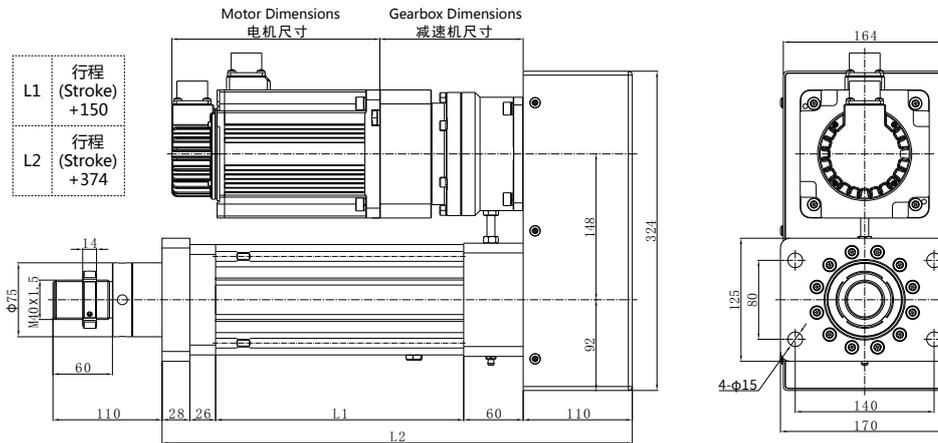
同步轮 / 同步带参数 Timing Pulley & Timing Belt Specifications							
同步轮速比 Timing Pulley Ratio	主动轮规格 Drive Pulley Spec.	从动轮规格 Driven Pulley Spec.	主动轮齿数 No. of Teeth (Drive)	从动轮齿数 No. of Teeth (Driven)	同步轮中心距 Center Distance	同步带周长 Belt Length	同步带宽度 Belt Width
1:1	8M50T59	8M50T59	40	40	176mm	672	50mm
1.5:1			30	45		656	
2:1			30	60		720	

■ GDA115 前端连接方式尺寸图 Front-End Connection Dimensions Diagram

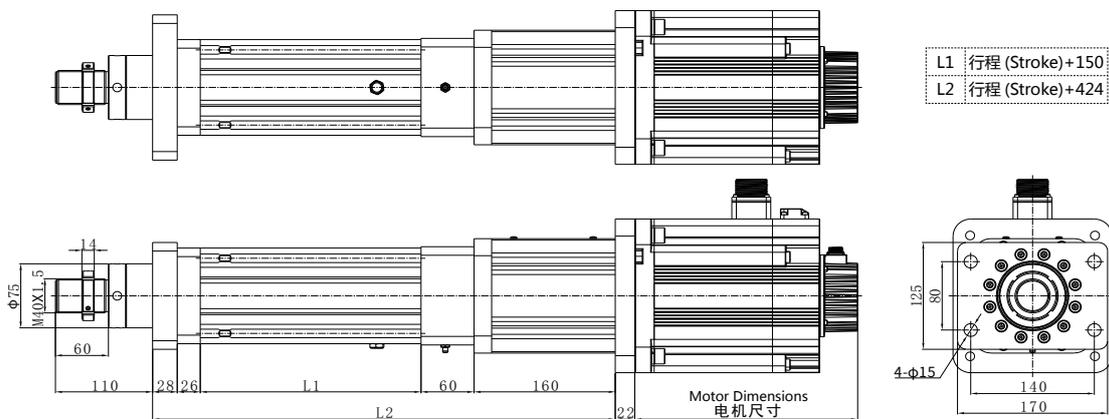


尺寸对应表 Dimension Reference Table (mm)										
负载类型 Front-End Load Connection Method	ΦA	ΦB	ΦC	C	D	E	F	H	G	M
前外牙 Front External Thread	Φ90	Φ75	—	60	110	5	14	—	—	M40×1.5
前内牙 Front Internal Thread	Φ90	Φ75	—	40	30	5	—	—	—	M24
前 I 型 Front Eyelet Mount	Φ90	Φ75	Φ35	—	215	5	35	55	—	—
前鱼眼 Front Clevis (with Pin)	Φ90	Φ75	Φ35	—	140	5	25	—	—	—
前 Y 型 Front Yoke Mount	Φ90	Φ75	Φ35	—	215	5	35	73	70	—

■ GDA115-R01



■ GDA115-L01



■ GDA135 标准配置参数 Standard Configuration Parameters

基础参数 (推力、行程、速度上限值不可同时结合使用) Basic Parameters (The maximum values for Thrust, Stroke, and Speed cannot be achieved simultaneously.)							
缸筒外径 Cylinder Tube Outer Diameter	缸筒内径 Cylinder Bore Diameter	允许最大推力 Allowable Max. Thrust	行程范围 Stroke Range	允许最大速度 Allowable Max. Speed	活塞杆旋转角度 Piston Rod Rotation Angle	限位开关 (二选一) Limit Switch (Either-or)	
134×134mm	φ120mm	≤ 100KN	≤ 2000mm	≤ 250mm/s	±0.3°	磁感开关 Reed Switch	接近开关 Proximity switch

可选配置 Optional Configurations				轴承参数 Bearing Parameters			
丝杆导程 Ball Screw Lead	同步轮速比 (输入 : 输出) Timing Pulley Ratio (Input : Output)			轴承型号 Bearing Series	动负荷 Cr Dynamic Load Cr	静负荷 Cor Static Load Cor	
10mm	1:1	1.5:1	2:1	深沟球轴承 Deep Groove Ball Bearing 6211×2	43.4KN	29.2KN	
20mm				推力球轴承 Thrust Ball Bearing 51311	119KN	246KN	

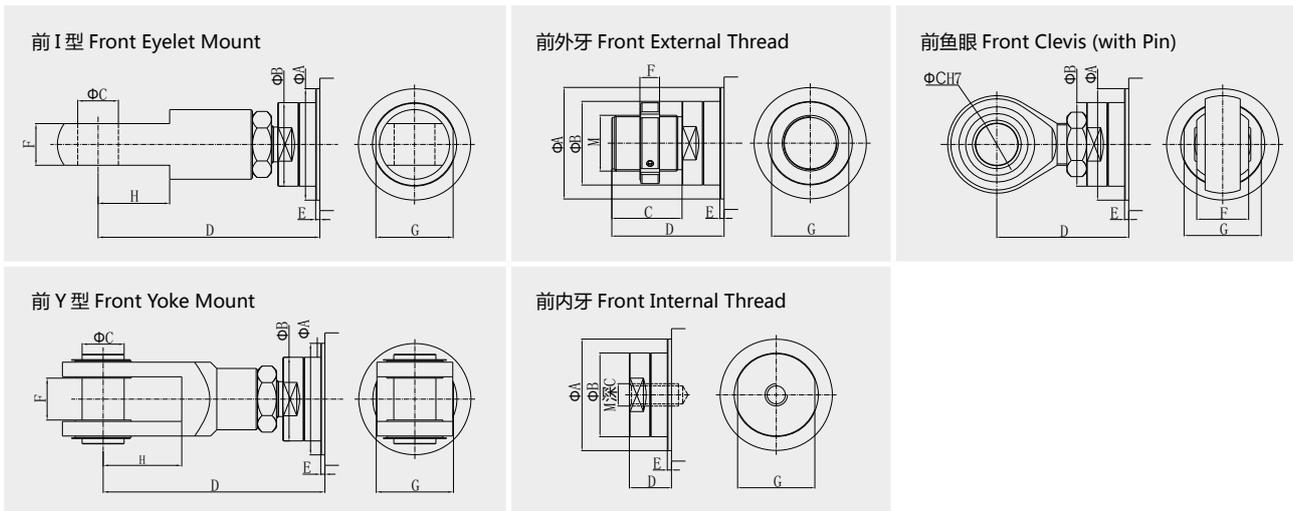
丝杆参数 Screw Parameters											
型号 Series	类型 Type	直径 Diameter	导程 Lead	动负荷 Ca Dynamic Load Ca	静负荷 Coa Static Load Coa	刚性 Rigidity	滚珠直径 Ball Diameter	丝杆轴 Screw Shaft	细长比 Slendernes Ratio	精度等级 / 定位精度 Accuracy Grade / Positioning Accuracy	
JFZ5010-8	滚珠丝杆 Ball Screw	50mm	10mm	104.1KN	251.2KN	/	7.144mm	40K12	1:50	C5/±0.01	C7/±0.02
SFS5020-3.8			20mm	13.7KN	130.7KN	66Kg/μm	6.35mm				

注：本表数值对应丝杆行程 ≤ 300mm，丝杆行程 > 300mm 时请联系我司技术人员确认。

Note: The values in this table correspond to the screw stroke ≤ 300mm. When the screw stroke > 300mm, please contact our technical support for confirmation.

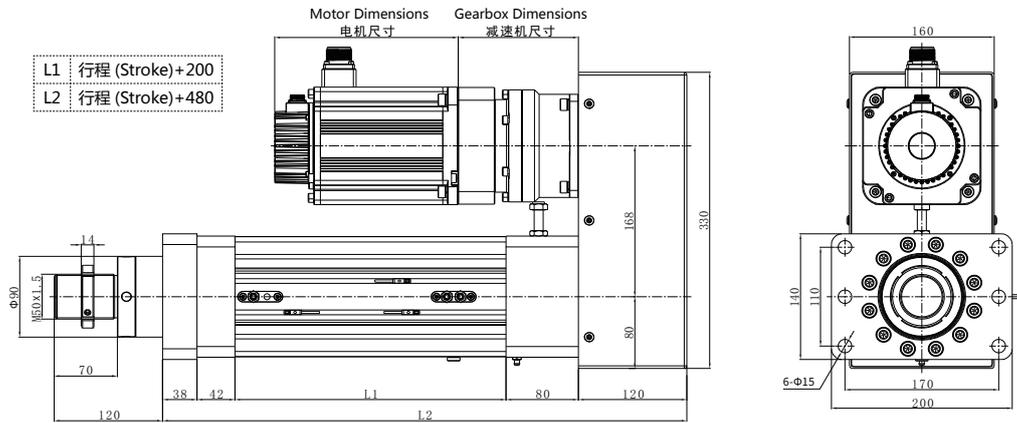
同步轮 / 同步带参数 Timing Pulley & Timing Belt Specifications							
同步轮速比 Timing Pulley Ratio	主动轮规格 Drive Pulley Spec.	从动轮规格 Driven Pulley Spec.	主动轮齿数 No. of Teeth (Drive)	从动轮齿数 No. of Teeth (Driven)	同步轮中心距 Center Distance	同步带周长 Belt Length	同步带宽度 Belt Width
1:1	14M50T72	14M50T62	28	28	196mm	784	50mm
1.5:1			24	36		812	
2:1			18	36		784	

■ GDA135 前端连接方式尺寸图 Front-End Connection Dimensions Diagram

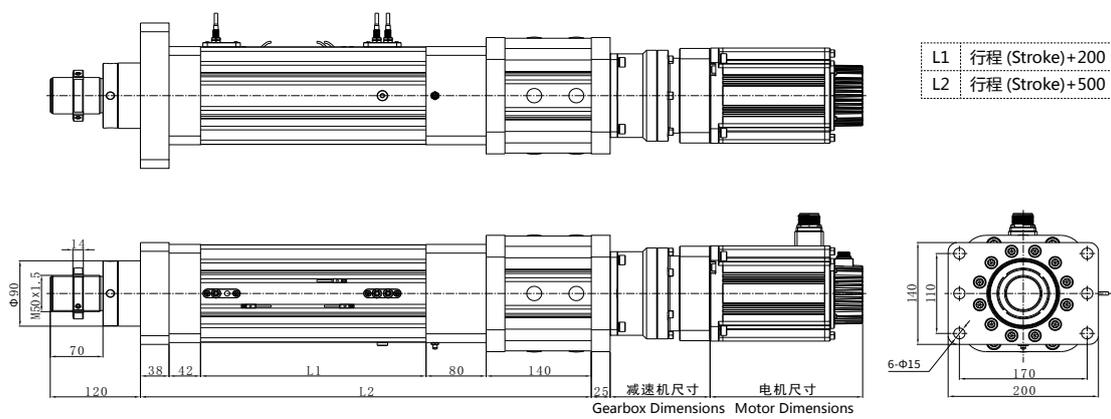


尺寸对应表 Dimension Reference Table (mm)										
负载类型 Front-End Load Connection Method	ΦA	ΦB	ΦC	C	D	E	F	H	G	M
前外牙 Front External Thread	Φ110	Φ90	—	70	120	10	14	—	—	M50×2
前内牙 Front Internal Thread	Φ110	Φ90	—	45	50	10	—	—	—	M30×1.5
前I型 Front Eyelet Mount	Φ110	Φ90	Φ40	—	245	10	40	85	—	—
前鱼眼 Front Clevis (with Pin)	Φ110	Φ90	Φ50	—	165	10	60	—	—	—
前Y型 Front Yoke Mount	Φ110	Φ90	Φ40	—	245	10	40.3	86	85	—

■ GDA135-R01



■ GDA135-L01



■ GDA140 标准配置参数 Standard Configuration Parameters

基础参数 (推力、行程、速度上限值不可同时结合使用) Basic Parameters (The maximum values for Thrust, Stroke, and Speed cannot be achieved simultaneously.)						
缸筒外径 Cylinder Tube Outer Diameter	缸筒内径 Cylinder Bore Diameter	允许最大推力 Allowable Max. Thrust	行程范围 Stroke Range	允许最大速度 Allowable Max. Speed	活塞杆旋转角度 Piston Rod Rotation Angle	限位开关 Limit Switch
φ132mm	φ110mm	≤ 130KN	≤ 2000mm	≤ 250mm/s	±0.3°	接近开关 Proximity switch

可选配置 Optional Configurations		轴承参数 Bearing Parameters		
丝杆导程 Ball Screw Lead	同步轮速比 (输入 : 输出) Timing Pulley Ratio (Input : Output)	轴承型号 Bearing Series	动负荷 Cr Dynamic Load Cr	静负荷 Cor Static Load Cor
10mm	1:1	深沟球轴承 Deep Groove Ball Bearing 6009-ZZ×2	19.9KN	14KN
20mm		推力球轴承 Thrust Ball Bearing 51212	73.5KN	179KN

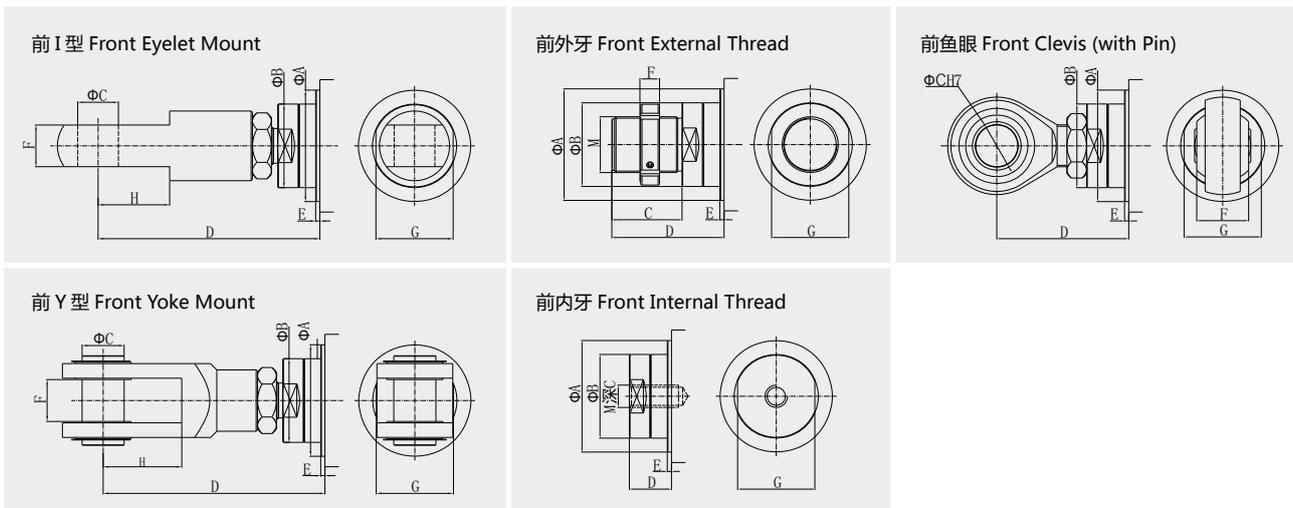
丝杆参数 Screw Parameters										
型号 Series	类型 Type	直径 Diameter	导程 Lead	动负荷 Ca Dynamic Load Ca	静负荷 Coa Static Load Coa	刚性 Rigidity	滚珠直径 Ball Diameter	丝杆轴 Screw Shaft	细长比 Slendernes Ratio	精度等级 / 定位精度 Accuracy Grade / Positioning Accuracy
JFZ5010-8	滚珠丝杆 Ball Screw	50mm	10mm	104.1KN	251.2KN	/	7.144mm	40K12	1:50	C5/±0.01 C7/±0.02
SFU5010-8				104.1KN	251.2KN	/				
JFZ5020-7			20mm	95.5KN	230.7KN	/				

注：本表数值对应丝杆行程 ≤ 300mm，丝杆行程 > 300mm 时请联系我司技术人员确认。

Note: The values in this table correspond to the screw stroke ≤ 300mm. When the screw stroke > 300mm, please contact our technical support for confirmation.

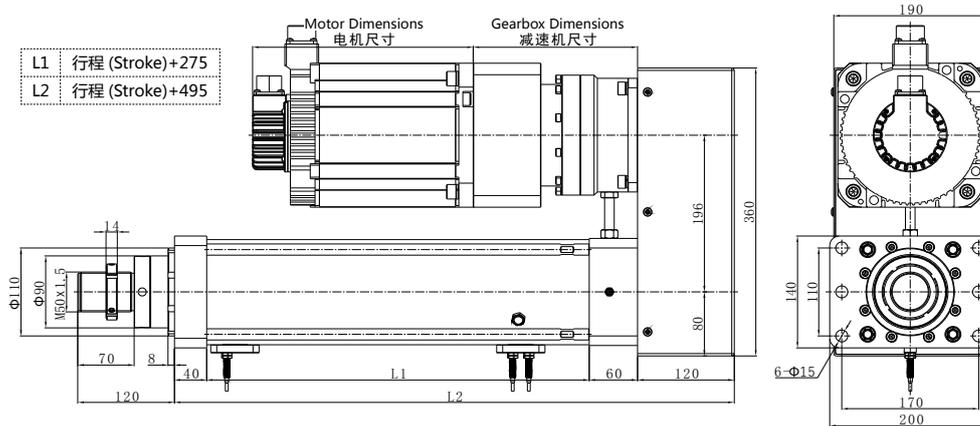
同步轮 / 同步带参数 Timing Pulley & Timing Belt Specifications							
同步轮速比 Timing Pulley Ratio	主动轮规格 Drive Pulley Spec.	从动轮规格 Driven Pulley Spec.	主动轮齿数 No. of Teeth (Drive)	从动轮齿数 No. of Teeth (Driven)	同步轮中心距 Center Distance	同步带周长 Belt Length	同步带宽度 Belt Width
1:1	14M65T77	14M65T77	28	28	196mm	784	50mm

■ GDA140 前端连接方式尺寸图 Front-End Connection Dimensions Diagram

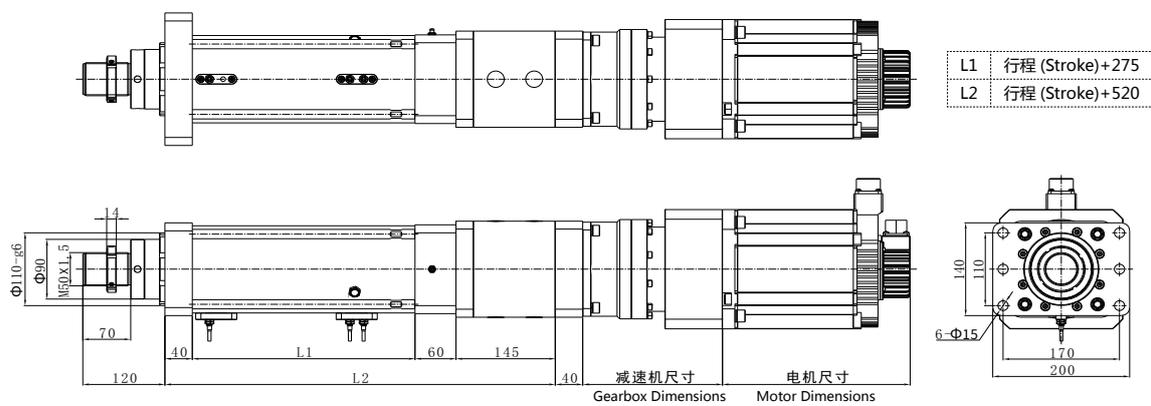


尺寸对应表 Dimension Reference Table (mm)										
负载类型 Front-End Load Connection Method	ΦA	ΦB	ΦC	C	D	E	F	H	G	M
前外牙 Front External Thread	Φ110	Φ90	—	70	120	10	14	—	—	M50×2
前内牙 Front Internal Thread	Φ110	Φ90	—	45	50	10	—	—	—	M30×1.5
前I型 Front Eyelet Mount	Φ110	Φ90	Φ40	—	245	10	40	85	—	—
前鱼眼 Front Clevis (with Pin)	Φ110	Φ90	Φ50	—	165	10	60	—	—	—
前Y型 Front Yoke Mount	Φ110	Φ90	Φ40	—	245	10	40.3	86	85	—

■ GDA140-R01



■ GDA140-L01



■ GDA160 标准配置参数 Standard Configuration Parameters

基础参数 (推力、行程、速度上限值不可同时结合使用) Basic Parameters (The maximum values for Thrust, Stroke, and Speed cannot be achieved simultaneously.)						
缸筒外径 Cylinder Tube Outer Diameter	缸筒内径 Cylinder Bore Diameter	允许最大推力 Allowable Max. Thrust	行程范围 Stroke Range	允许最大速度 Allowable Max. Speed	活塞杆旋转角度 Piston Rod Rotation Angle	限位开关 Limit Switch
158×158mm	φ140mm	≤ 180KN	≤ 2000mm	≤ 250mm/s	±0.3°	接近开关 Proximity switch

可选配置 Optional Configurations		轴承参数 Bearing Parameters		
丝杆导程 Ball Screw Lead	同步轮速比 (输入 : 输出) Timing Pulley Ratio (Input : Output)	轴承型号 Bearing Series	动负荷 Cr Dynamic Load Cr	静负荷 Cor Static Load Cor
20mm	1:1	角接触球轴承 Angular Contact Ball Bearing 7212C/DT	61KN	48.3KN
		推力调心滚子轴承 Thrust Spherical Roller Bearing 29412	335KN	900KN

丝杆参数 Screw Parameters											
型号 Series	类型 Type	直径 Diameter	导程 Lead	动负荷 Ca Dynamic Load Ca	静负荷 Coa Static Load Coa	刚性 Rigidity	滚珠直径 Ball Diameter	丝杆轴 Screw Shaft	细长比 Slendernes Ratio	精度等级 / 定位精度 Accuracy Grade / Positioning Accuracy	
JFZ6320-8	滚珠丝杆 Ball Screw	63mm	20mm	326.2KN	774.7KN	/	12.7mm	50K14	1:50	C5/±0.01	C7/±0.02

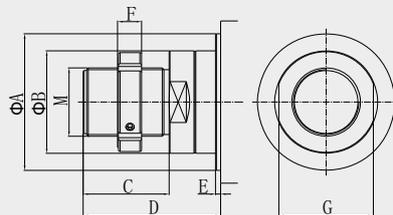
注：本表数值对应丝杆行程 ≤ 300mm，丝杆行程 > 300mm 时请联系我司技术人员确认。

Note: The values in this table correspond to the screw stroke ≤ 300mm. When the screw stroke > 300mm, please contact our technical support for confirmation.

同步轮 / 同步带参数 Timing Pulley & Timing Belt Specifications							
同步轮速比 Timing Pulley Ratio	主动轮规格 Drive Pulley Spec.	从动轮规格 Driven Pulley Spec.	主动轮齿数 No. of Teeth (Drive)	从动轮齿数 No. of Teeth (Driven)	同步轮中心距 Center Distance	同步带周长 Belt Length	同步带宽度 Belt Width
1:1	14M65T86.5	14M65T76.5	36	36	210mm	924	65mm

■ GDA160 前端连接方式尺寸图 Front-End Connection Dimensions Diagram

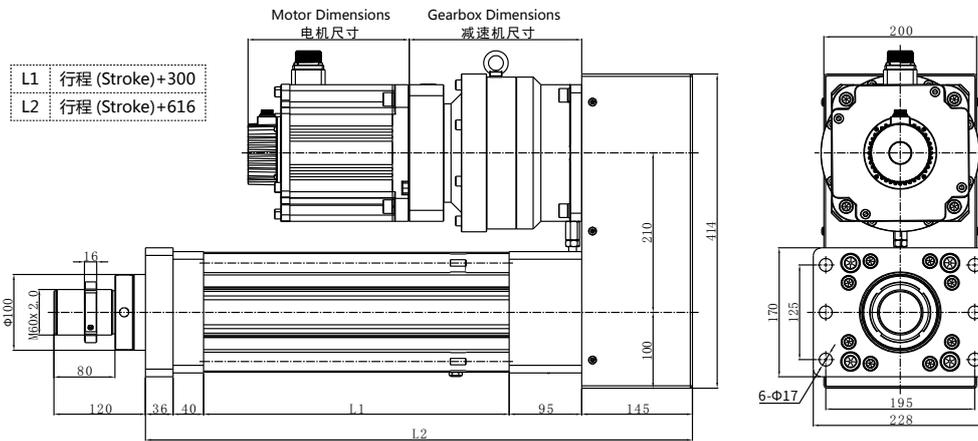
前外牙 Front External Thread



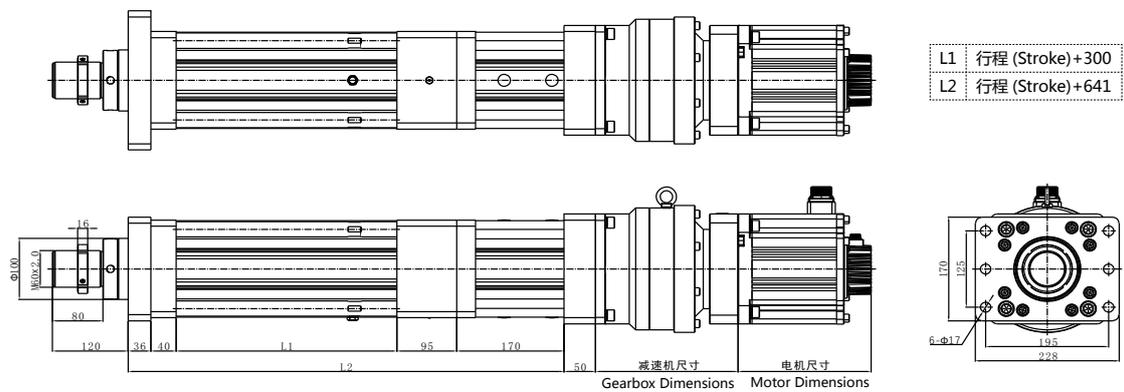
尺寸对应表 Dimension Reference Table (mm)

负载类型 Front-End Load Connection Method	ΦA	ΦB	ΦC	C	D	E	F	H	G	M
前外牙 Front External Thread	—	Φ100	—	80	120	—	16	—	—	M60×2

■ GDA160-R01



■ GDA160-L01



■ GDA180 标准配置参数 Standard Configuration Parameters

基础参数 (推力、行程、速度上限值不可同时结合使用) Basic Parameters (The maximum values for Thrust, Stroke, and Speed cannot be achieved simultaneously.)						
缸筒外径 Cylinder Tube Outer Diameter	缸筒内径 Cylinder Bore Diameter	允许最大推力 Allowable Max. Thrust	行程范围 Stroke Range	允许最大速度 Allowable Max. Speed	活塞杆旋转角度 Piston Rod Rotation Angle	限位开关 Limit Switch
180×180mm	φ160mm	≤ 250KN	≤ 2000mm	≤ 250mm/s	±0.3°	接近开关 Proximity switch

可选配置 Optional Configurations	
丝杆导程 Ball Screw Lead	同步轮速比 (输入 : 输出) Timing Pulley Ratio (Input : Output)
20mm	1:1

轴承参数 Bearing Parameters		
轴承型号 Bearing Series	动负荷 Cr Dynamic Load Cr	静负荷 Cor Static Load Cor
圆锥滚子轴承 Tapered Roller Bearing HR32312J×2	233KN	295KN

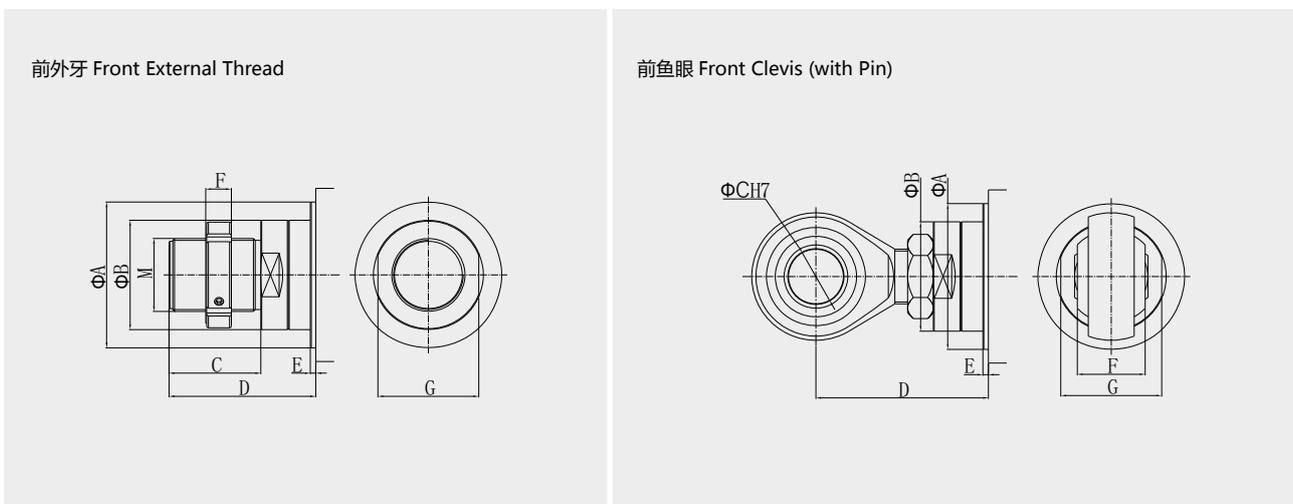
丝杆参数 Screw Parameters											
型号 Series	类型 Type	直径 Diameter	导程 Lead	动负荷 Ca Dynamic Load Ca	静负荷 Coa Static Load Coa	刚性 Rigidity	滚珠直径 Ball Diameter	丝杆轴 Screw Shaft	细长比 Slendernes Ratio	精度等级 / 定位精度 Accuracy Grade / Positioning Accuracy	
G6320-8	滚珠丝杆 Ball Screw	63mm	20mm	224KN	663KN	/	12.7mm	50K14	1:50	C5/±0.01	C7/±0.02

注：本表数值对应丝杆行程 ≤ 300mm，丝杆行程 > 300mm 时请联系我司技术人员确认。

Note: The values in this table correspond to the screw stroke ≤ 300mm. When the screw stroke > 300mm, please contact our technical support for confirmation.

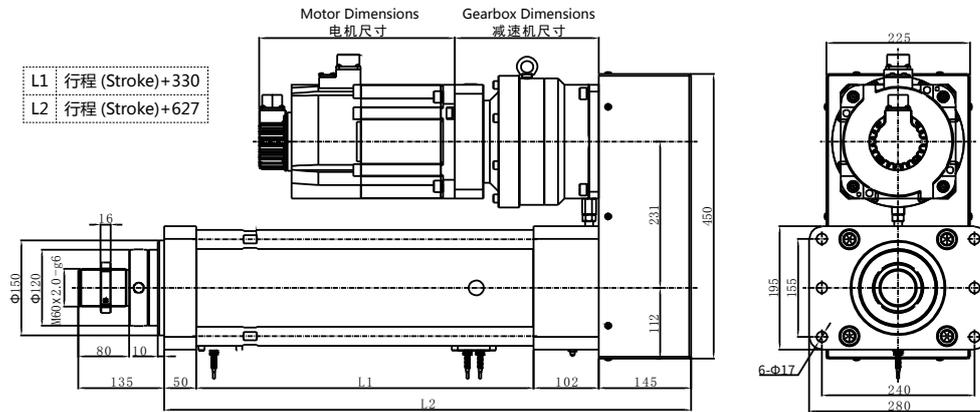
同步轮 / 同步带参数 Timing Pulley & Timing Belt Specifications							
同步轮速比 Timing Pulley Ratio	主动轮规格 Drive Pulley Spec.	从动轮规格 Driven Pulley Spec.	主动轮齿数 No. of Teeth (Drive)	从动轮齿数 No. of Teeth (Driven)	同步轮中心距 Center Distance	同步带周长 Belt Length	同步带宽度 Belt Width
1:1	14M65T86.5	14M65T76.5	36	36	231mm	966	65mm

■ GDA180 前端连接方式尺寸图 Front-End Connection Dimensions Diagram

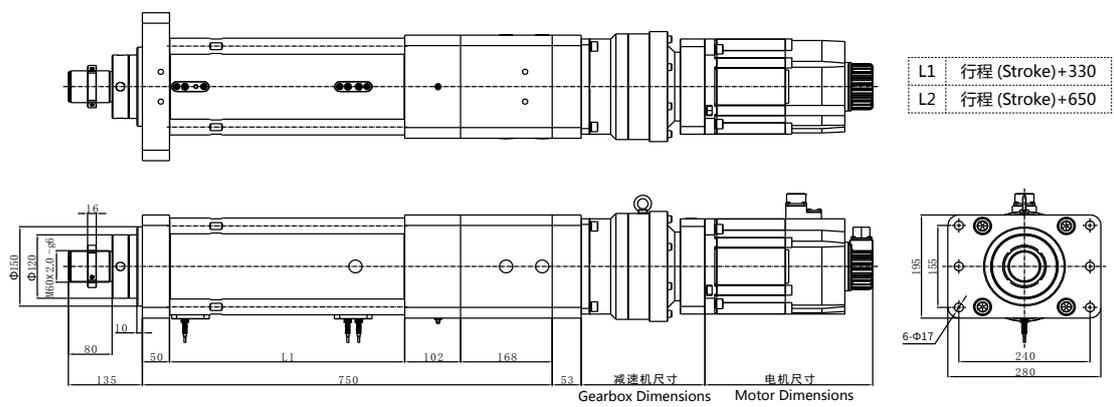


尺寸对应表 Dimension Reference Table (mm)										
负载类型 Front-End Load Connection Method	ΦA	ΦB	ΦC	C	D	E	F	H	G	M
前外牙 Front External Thread	Φ150	Φ120	—	80	135	10	16	—	—	M60×2
前鱼眼 Front Clevis (with Pin)	Φ150	Φ120	Φ60	—	245	10	50	—	—	—

■ GDA180-R01



■ GDA180-L01



■ GDA245 标准配置参数 Standard Configuration Parameters

基础参数 (推力、行程、速度上限值不可同时结合使用) Basic Parameters (The maximum values for Thrust, Stroke, and Speed cannot be achieved simultaneously.)						
缸筒外径 Cylinder Tube Outer Diameter	缸筒内径 Cylinder Bore Diameter	允许最大推力 Allowable Max. Thrust	行程范围 Stroke Range	允许最大速度 Allowable Max. Speed	活塞杆旋转角度 Piston Rod Rotation Angle	限位开关 Limit Switch
Φ210mm	φ180mm	≤ 400KN	≤ 2000mm	≤ 250mm/s	±0.3°	接近开关 Proximity switch

可选配置 Optional Configurations	
丝杆导程 Ball Screw Lead	同步轮速比 (输入 : 输出) Timing Pulley Ratio (Input : Output)
20mm	1:1

轴承参数 Bearing Parameters			
轴承型号 Bearing Series		动负荷 Cr Dynamic Load Cr	静负荷 Cor Static Load Cor
圆柱滚子轴承 Cylindrical Roller Bearing NJ2215EM×2		136KN	172KN
推力调心滚子轴承 Thrust Spherical Roller Bearing 29415		490KN	1370KN

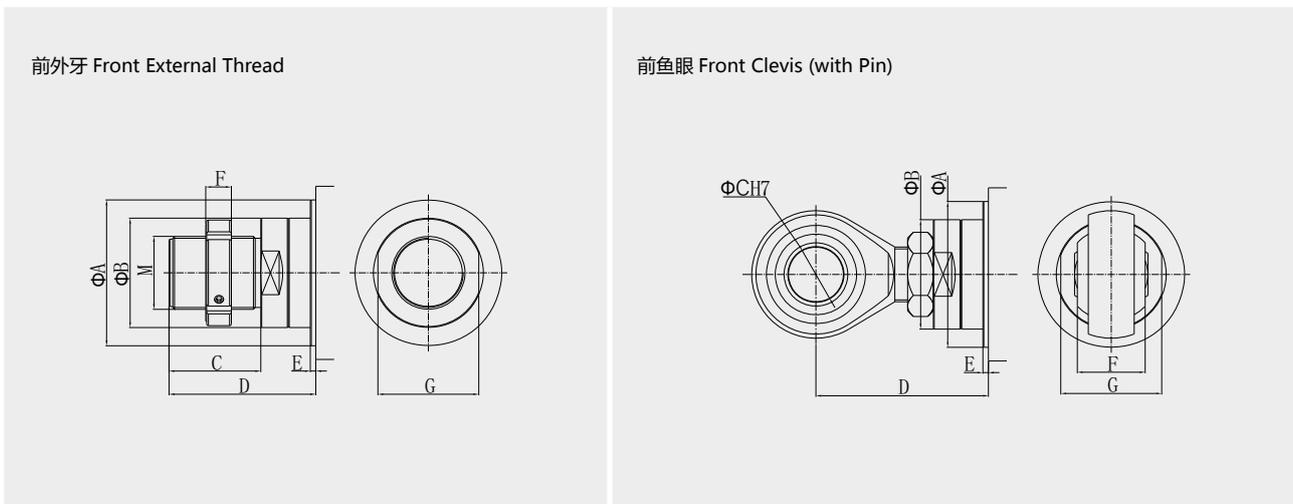
丝杆参数 Screw Parameters										
型号 Series	类型 Type	直径 Diameter	导程 Lead	动负荷 Ca Dynamic Load Ca	静负荷 Coa Static Load Coa	刚性 Rigidity	滚珠直径 Ball Diameter	丝杆轴 Screw Shaft	细长比 Slendernes Ratio	精度等级 / 定位精度 Accuracy Grade / Positioning Accuracy
JF8020-8	滚珠丝杆 Ball Screw	80mm	20mm	403.3KN	1210.7KN	/	12.7mm	70K20	1:50	C5/±0.01 C7/±0.02

注：本表数值对应丝杆行程 ≤ 300mm，丝杆行程 > 300mm 时请联系我司技术人员确认。

Note: The values in this table correspond to the screw stroke ≤ 300mm. When the screw stroke > 300mm, please contact our technical support for confirmation.

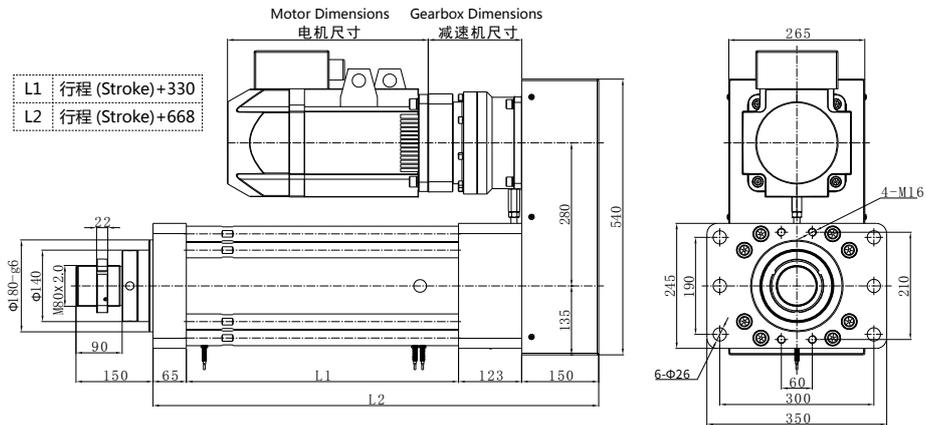
同步轮 / 同步带参数 Timing Pulley & Timing Belt Specifications							
同步轮速比 Timing Pulley Ratio	主动轮规格 Drive Pulley Spec.	从动轮规格 Driven Pulley Spec.	主动轮齿数 No. of Teeth (Drive)	从动轮齿数 No. of Teeth (Driven)	同步轮中心距 Center Distance	同步带周长 Belt Length	同步带宽度 Belt Width
1:1	14M50T86	14M50T86	45	45	280mm	1190	50mm

■ GDA245 前端连接方式尺寸图 Front-End Connection Dimensions Diagram

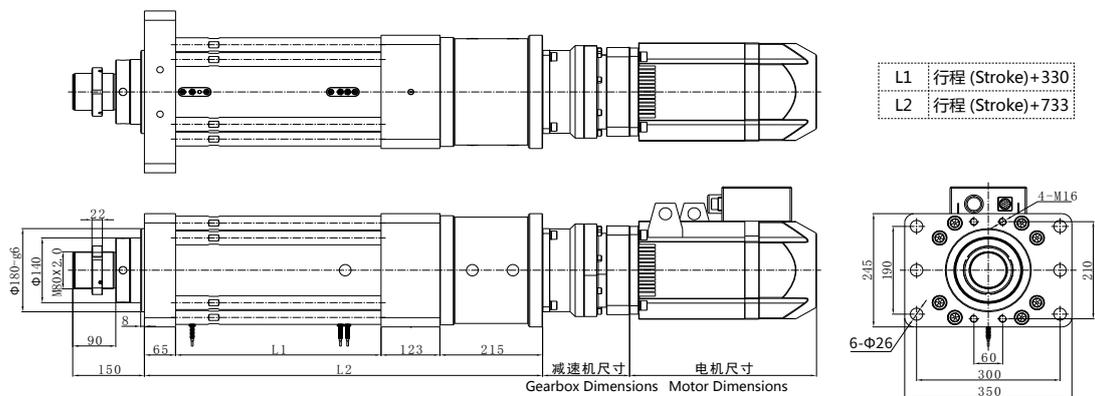


尺寸对应表 Dimension Reference Table (mm)										
负载类型 Front-End Load Connection Method	ΦA	ΦB	ΦC	C	D	E	F	H	G	M
前外牙 Front External Thread	Φ180	Φ140	—	90	150	8	24	—	—	M80×2
前鱼眼 Front Clevis (with Pin)	Φ180	Φ140	Φ70	—	285	8	55	—	—	—

■ GDA245-R01



■ GDA245-L01



■ GDA300 标准配置参数 Standard Configuration Parameters

基础参数 (推力、行程、速度上限值不可同时结合使用) Basic Parameters (The maximum values for Thrust, Stroke, and Speed cannot be achieved simultaneously.)						
缸筒外径 Cylinder Tube Outer Diameter	缸筒内径 Cylinder Bore Diameter	允许最大推力 Allowable Max. Thrust	行程范围 Stroke Range	允许最大速度 Allowable Max. Speed	活塞杆旋转角度 Piston Rod Rotation Angle	限位开关 Limit Switch
Φ280 mm	φ230mm	≤ 600KN	≤ 2000mm	≤ 500mm/s	±0.3°	接近开关 Proximity switch

可选配置 Optional Configurations		轴承参数 Bearing Parameters		
丝杆导程 Ball Screw Lead	同步轮速比 (输入 : 输出) Timing Pulley Ratio (Input : Output)	轴承型号 Bearing Series	动负荷 Cr Dynamic Load Cr	静负荷 Cor Static Load Cor
20mm	1:1	深沟球轴承 Deep Groove Ball Bearing 6217-ZZ×2	83.3KN	63.8KN
25mm		推力调心滚子轴承 Thrust Spherical Roller Bearing 29417	600KN	1730KN

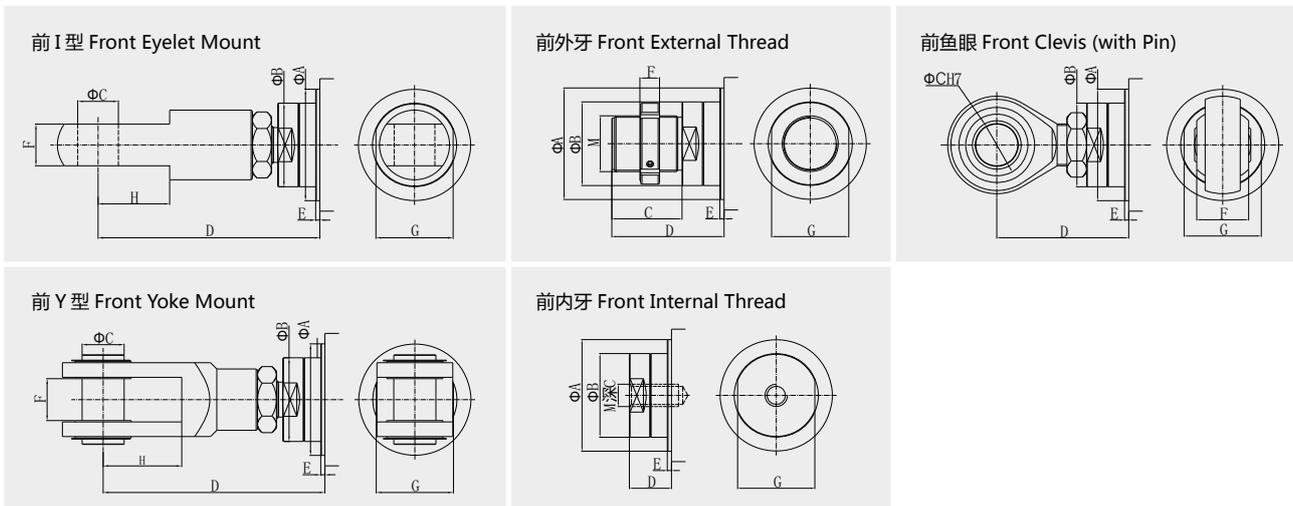
丝杆参数 Screw Parameters											
型号 Series	类型 Type	直径 Diameter	导程 Lead	动负荷 Ca Dynamic Load Ca	静负荷 Coa Static Load Coa	刚性 Rigidity	滚珠直径 Ball Diameter	丝杆轴 Screw Shaft	细长比 Slendernes Ratio	精度等级 / 定位精度 Accuracy Grade / Positioning Accuracy	
JF10020-8	滚珠丝杆 Ball Screw	100 mm	20mm	444.9	1526.9	/	12.7mm	75K20	1:50	C5/±0.01	C7/±0.02
JF10025-8			25mm	603.3	1891.2	/	15.875mm				

注：本表数值对应丝杆行程 ≤ 300mm，丝杆行程 > 300mm 时请联系我司技术人员确认。

Note: The values in this table correspond to the screw stroke ≤ 300mm. When the screw stroke > 300mm, please contact our technical support for confirmation.

同步轮 / 同步带参数 Timing Pulley & Timing Belt Specifications							
同步轮速比 Timing Pulley Ratio	主动轮规格 Drive Pulley Spec.	从动轮规格 Driven Pulley Spec.	主动轮齿数 No. of Teeth (Drive)	从动轮齿数 No. of Teeth (Driven)	同步轮中心距 Center Distance	同步带周长 Belt Length	同步带宽度 Belt Width
1:1	14M50T86	14M50T86	45	45	280mm	1190	50mm

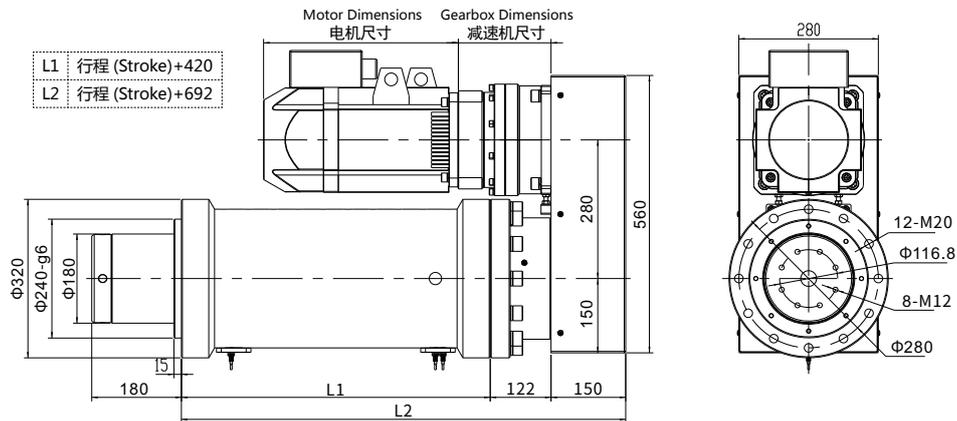
■ GDA300 前端连接方式尺寸图 Front-End Connection Dimensions Diagram



* 可根据用户需求进行定制。

* Customizable to User Requirements.

■ GDA300-R01



■ GDA300-L01

